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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 the 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 Rajasthan and Maharashtra were also recorded.

During the period under report, two early maturing hybrids, Pusa early hybrid-5 for Delhi, Haryana, Punjab, U.P. and Hybrid Deccan 115 for Punjab, U.P., Bihar, Assam, Orissa, West Bengal and Jharkhand were released and notified for cultivation during kharif season. One early maturing hybrid maize Partap-1 was released and notified for Rajasthan. A composite Partap comp. 4 was released for Delhi, Haryana, Punjab, U.P., Eastern U.P., Bihar, Assam Orissa and Jharkhand. In addition, three composites were notified for different states. These are Vivek comp. 11 for Uttranchal, Comp. Girija for Himachal Pradesh and Composite Shardamani for Uttar Pradesh.

During kharif 2003, 30 coordinated trials, 14 zonal trials, 56 CIMMYT trials, 4 quality protein maize trials and 3 specialized trials consisting one each for baby corn, pop corn and sweet corn were conducted at various research centers of the project. In full season advance evaluation trial 3 hybrids along with 4 checks were tested. Mean yield ranged from 5258 to 5649 kg/ha for F 1562 and JKMH 1090 in zone III. In zone IV BIO 92327 was the highest yielding material and yielded 6459 kg/ha. In zone V 4 hybrids with 4 checks were tested. Mean grain yield ranged from 7361 to 8088 kg/ha for BIO 93327 and X 2006 respectively. In medium maturing trial, 4 hybrids with 2 checks were tested in different zone. In zone I, mean yield ranged from 5492 to 6282 kg/ha for the hybrids, AAMH 204 and X 2003 respectively. In zone II, 2 hybrids and 2 checks were tested. Hybrid Kaveri 235 was the highest yielding hybrid with the yield of 5701 kg/ha. In zone III, 3 hybrids along with 2 checks were tested. The mean yield ranged from 4548 to 4902 kg/ha. for the hybrids Bisco Suraj II and X 2003 respectively. In zone IV, only one hybrid Kavery 235 was tested and yielded 6038 kg/ha. In zone V, out of 4 hybrids tested the yield ranged from 4766 (EC 3116) and 6374 (5 KMH080) respectively.

In early maturing trial, 4 hybrids with 5 checks were tested. The mean grain yield ranged from 4386 (FH 3176) to 5587 (Seed tech 1204). However, the later hybrid was 5 days early in flowering. In zone II, one hybrid (Seed tech 1205) was tested which yielded 4008 kg/ha. In zone III, out of the two

hybrids tested PRO 340 was the top yielding hybrid with yield level of 5409 kg/ha. In zone IV six hybrids with 5 checks were tested. The yield ranged from 4837 kg/ha (FH 3186) to 7573 kg/ha (BIO 92136). However, the hybrid BIO 92136 was 5 days late in flowering. In zone V, 6 hybrids were tested BIO 92136 was the top yielding hybrid with mean yield of 5180 kg/ha while FH 3186 was the lowest yielding hybrid with yield of 3981 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. Five hybrids in full season, four in medium maturity, two in early maturity and one in extra early maturity have given significantly higher yield in advance evaluation trials for second year during 2003 kharif. Similarly, through another NATP funded project on development of single cross hybrids for quality protein maize and carbohydrate profile under PSR mode, two single cross hybrids Shaktiman-3 and Shaktiman-4 have been recommended for release for Bihar state. Several inbred lines from India and abroad were evaluated. One yellow QPM maize, HQPM-1 hybrid has been identified and released by HAU for Haryana state.

During the period under report 30.69 quintals of breeder seed was indented including seed requirement from private sector. The total quantity of seed produced against the indent was 89.18 qtls. Some of the inbred lines and composite allocated to Dholi, Belipar, Dharwad and Hyderabad centers are being produced during the rabi 2003-04.

A total of 1136 introductions were received from various countries during the period under report. These consisted of 787 from Mexico, 175 from Thailand, 10 from USA, 131 from Philippine, 5 from Bulgaria and 26 from Brazil. 71 trials from CIMMYT consisting of materials of IPTT, EVT and PET were tested by different research centers of Directorate of Maize Research.

A total of 144 lines of maize germplasm and 42 lines of Quality Protein Maize were screened for resistance against maize stalk borer, *Chilo partellus* (Swinhoe) by artificially inoculating the plants by black-headed stage eggs. Out of total lines of 144, 97 lines were evaluated for first year and 47 lines for the second year. The plants were rated on 1-9 scales and categorized as resistant (1.0 - 3); moderately resistant (3.1-6.) and susceptible (6.1-9).

Twelve germplasms of Quality Protein Maize were screened against *C. partellus* at Ludhiana, Hyderabad & Delhi. BQPM-12, BQPM-32, CML-142 x CML-150, JH-QPM-83, SEEDTECH-2324 and Shaktiman-1 were found to be resistant (< 3 on 1-9 scale) at Ludhiana.

In early maturity group, the resistant lines are EC-3108, PRO-340 and moderately resistant lines are FH-3186, FH-3176, R-9803, BIO-92109, BIO-92136, SEEDTEC-1202 and HIM-129.

Twenty downy mildew resistant germplasms of early yellow and 34 late yellow were screened against *C. partellus* at Ludhiana. 62 inbred lines were screened against this pest at Udaipur.

Relative susceptibility of 60 maize germplasms was studied by artificially infesting the seeds by rice weevil *Sitophilus oryzae*. Observations were taken on the loss of weight of grains and progeny developed on different germplasm. Effect of essential oil Citronella and Geranium have been studied on eggs/neonate larvae of *Trogoderma* and *Corcyra*. The studies are in progress.

Four chemical pesticides, two neem formulations and *Bacillus thuringiensis* Kurstaki strain were evaluated against *C. partellus* at Kolhapur. Decis 2.8 EC at 0.7 ml/l gave best result.

In Kharif 2003, IPM trials of maize were initiated in 20 acres of farmers' fields in four blocks of Hoshiarpur district. Before undertaking the experiment, a benchmark survey was conducted to know the major constraints in maize production, which revealed that maize stem borer (*Chilo partellus*) was posing a major threat to the crop with some minor incidence of stalk rot and Maydis leaf blight. Taking entomological, pathological and agronomical aspects into considerations, IPM strategy was developed. The variety Bio-9681, recommended for Punjab was used for this experiment. The fields were observed every week for insect and disease incidences. *Trichogramma chilonis* @ 8 cards/ha on 8, 13 and 18 days after germination (DAG) (each card having 20,000 parasites eggs with *T. chilonis* wasp) were released. The crop was observed for the symptoms of banded leaf and sheath blight (BLSB) when the crop was 35 days old. Wherever disease was noticed, two base leaf sheaths were removed from the infected plants to prevent spreading of BLSB.

The yield ranged from 57.76 to 34.02 q/ha; average being 44.86 q/ha. In non-experimental farmers' fields the yield varied from 18 to 27 q/ha. On comparing the upper limit of the range i.e. 27 q/ha. with our experiment, the yield recorded 66.15 per cent higher in experimental fields.

Here it is pertinent to mention, that no chemical pesticide was used in the experiment. Further the kharif maize productivity in Hoshiarpur district in Front Line Demonstration plots has been 29.12 q/ha. as per Statistical Abstract of Punjab (2002) published by Economic Advisor, Government of Punjab.

The cost of cultivation were calculated based on the local cost. The cost incurred in non-experimental cultivation is mean of two farmers and was compared with experimental fields. The net profit was Rs. 4,714 more per hectare, when the farmers adopted the technology.

The gains of adopting technology

1. Maize growers in Hoshiarpur district can substantially increase their profit by adopting proper crop management.
2. Maize can be cultivated profitably without using chemical pesticides.

Preliminary studies of IPM trials were also conducted at Dholi, Pantnagar and Udaipur.

F 9572A produced significantly higher grain yield at 120 and 180 kg level of nitrogen application at Ludhiana center. PMZ 234 and JKMH 1090 were outstanding entries at Dholi. In Zone V, BISCO 851 at Godhra center yielded significantly higher grain yield at all the nitrogen levels.

In Zone I NECH 113, BISCO 3123 and X 2003 were outstanding entries at Bajaura and Almora centers. In zone III, X 2003 produced significantly higher grain yield at Bahraich, Varanasi and Ambikapur. However, performance of BISCO SURAJ - II was equally good at Bahraich center. Kaveri 235 showed its superiority at Kolhapur (in Zone IV) and at Godhra. Bio 92109 was found to be outstanding entry at Kangra, Almora and Kolhapur center in early maturity group. Some entry like Bio 12136, Seed Tech 1204, Seed Tech 1202 and FH 3161 also performed better at some of the locations. In extra - early maturity group FH 3176 performed constantly better at all the centers in Zone - I. Performance of this entry was superior to all the checks at Kolhapur. In this maturity group another entry EC 3108 produced outstanding performance at Banswara and Chindwara. For early sowing during month of May, sowing on ridge, flat or in Tranch could be followed. However, for July sowing ridge or raised bed was found to be superior.

Performance of HQM1 was better at higher (83000) and lower (53000) plant densities as compared to HM 4, 5 and 6.

Planting marigold small in 1:1 or 1:2 ratio did not produce any adverse impact on the production of sweet corn cobs with bonus yield of 700-900 thousand flowers at Chindwara.

Application of recommended N P K (90:60:40) + 10t FYM produced significantly higher yield of maize and wheat in rotation at Almora and Banswara. Application of S and Zn along with NPK brought significant yield difference at Godhra and Banswara.

Soaking seed in KH₂PO₄ (2.5%) or thio-urea (0.1%) or cytokinin (1 ppm) or cycocel (100 ppm) produced significantly higher yield at Banswara. However, at Udaipur, seed sowing with cytokinin or thio-urea was found beneficial. Spraying 0.2% solution of Thio-urea either at knee high, tesselling or at grain filling stage produced significantly higher grain yield under rainfed conditions at Banswara.

Bio 92109, X-3342, VL-42 and VL 78 produced more than 15 q/ha baby corn at Bajaura. For sweet corn, spacing of 60 x 25 cm with 120: 60: 40 kg N:P:K was found optimum.

Out of total 10 entries 6 (WL12-***-1, WL16-***-1, WL15-***-2, WL18-***-6, WL28-***-2 and WL36-***-4) were tolerant and rest 4 were known for their high susceptibility under excessive moisture stress. Excessive moisture stress causes severe plant mortality in susceptible lines and affected plant and ear height. Under normal moisture, there was no significant genotypic variability for above ground nodal roots development, however, excessive moisture stress aggravated the brace root growth in relatively tolerant lines. The stress condition reduced leaf chlorophyll content and caused severe senescence in green leaf area in susceptible genotypes. Impact of stress condition was significant on dry matter partitioning, total biomass production and leaf

area development, particularly in case of relatively susceptible genotypes. Though, the effect of excessive moisture stress was nominal on days to 50% anthesis, however, silking was significantly delayed under due to this stress, which caused remarkable delay in anthesis-silking interval. The effect of stress on synchrony of male and female flowering eventually affected grain formation. Excessive moisture stress enhanced free amino acid content in leaf and stem tissues of tolerant genotypes, whereas, in susceptible entries the increase in amino acid content was nominal. Data on carbohydrate concentration indicate that total sugar and starch content was in general higher in tolerant genotypes under normal moisture conditions. The total soluble sugar was also comparatively more in tolerant lines under excessive moisture, while starch content was relatively more in case susceptible entries, which may be due to poor starch breakdown in susceptible lines under stress. Excessive moisture stress increased the ethanol accumulation in root tissues in all the genotypes.

A total 60 inbred lines, all advance generation elite lines, 20 each from CIMMYT-Asian regional program, DMR and GBPUAT, Pantnagar, were evaluated for their performance under normal and excessive moisture stress. The top ranking 10 lines were selected on the basis of minimum yield losses under stress and superior performance under normal moisture condition as well, which include CML-425, CA 14707, WL28-***-2, CML-427, WL28-***-3, WL15-***-2, CML-429, CML 327, Pant-14 HYD 01R and CA 00106.

Inbred lines with good per se performance under optimal conditions were screened for mid-season drought stress tolerance under rain-shelter conditions, where the plant can be kept free from rain for desired period of stress treatment. Total 45 elite inbred lines were planted. Drought stress significantly reduced plant height as well as ear height in all the genotypes. Leaf chlorophyll content was also reduced in almost all the entries. A progressive senescence of green leaf area was observed with increase of severity of drought stress. The adverse effect of drought was more pronounced on reproductive stage. Though, male flowering was least affected, but female flowering delayed remarkably, which causes longer ASI. The ASI >5.0 days resulted in large number of genotypes with barren plants with poor ears per plant, and eventually poor yield. However, significant genotypic variability has been noticed with regards to all the parameter and also for grain yield under stress conditions. Out of total 45 genotypes studied, the top ranking 10 entries, with >1.0 t/ha yield, were selected as drought tolerant entries.

A total of 276 materials in different coordinated trials were evaluated against important maize diseases such as Maydis leaf blight, Turcicum leaf blight, Banded leaf and sheath blight, Sorghum downy mildew, Brown stripe downy mildew, Rajasthan downy mildew, Post-flowering stalk rots and Erwinia stalk rot. The screening against different diseases was carried out under artificially inoculated conditions in the various hot spots identified for these diseases. The most promising genotypes with combined disease resistance identified were any NECH-117 against MLB, TLB, BSDM and RDM while SWS013y-6, PRO-363, M-0324 were resistant against TLB, RDM, BSDM and PFSR; MCH-2, Seedtec-12, JKMH-013 against TLB, RDM, BSDM; AAMH-531, X-2007 against TLB, BSDM and PFSR; VIPL-1902 against RDM, BSDM, PFSR; Seedtec C-11, BIO-92327 against TLB and BSDM; NECH-116 against RDM and BSDM and MCH-11 against MLB and RDM were resistant in full-

season maturity group. In medium maturity group, PMZ-237, BISCO-1102 against TLB, RDM, BSDM and PFSR; NECH-120, BISCO-3123, BISCO-Suraj-11, Seedtec-168 and Seedtec-122 against TLB, BSDM and PFSR; PMZ-131, MCH-7, Seedtec-663, Seedtec-2437, VIPL-1501, Kaveri-2288, AAMH-831 against TLB, RDM and PFSR; Seedtec-205, Seedtec-1204, Seedtec-1205 against TLB, BSDM and RDM; BIO-22027, MCH-5, KMH-3 against TLB and BSDM; BIO-92136, BISCO-10101, JKMH-1512 against TLB and RDM; BIO-2269 against RDM and PFSR and X-1150 against MLB were resistant. In early maturity group, Seedtec-122, Seedtec-205, Seedtec-1202, Seedtec-1204, MCH-5, MCH-6, PMZ-135 against TLB, BSDM and RDM; Seedtec-114, BISCO-1881, PMZ-138, X-612, Seedtec-2031, JKMH-701, X-1182 D against RDM, BSDM and PFSR; PAC-71006 against TLB and BSDM; ZAURI-2052 and JKMH-810 against TLB and RDM; X-2182, BH-2862 against PFSR and BSDM; X-11507 against RDM and MLB and JKMH-062 against RDM and ESR were found to be resistant.

Two QPM populations viz. QPM-1 and QPM-2 comprising of 14 and 28 genotypes respectively were screened against various diseases. All the germplasms tested were resistant tolerant against PFSR while HQPM-1, HQPM-2, B-QPM-024, JHQPM-83, JHQPM-35, BHQPM-44, BHQPM-46 and BHQPM-48 were resistant to MLB.

Inbred lines (85) were screened against TLB at Nagenahalli and (65 lines with the disease rating of (< 2) were resistant. Besides, 35 NAH lines screened against TLB at Nagenahalli and SDM at Mandya, 30 lines were found to be resistant to both the diseases.

Trials on chemical control were conducted at Udaipur, Pantnagar, Mandya and Dhaulakuan to evaluate the efficacy of Apron XL 35 ES (Metalaxyl) as seed treatment against maize downy mildew. All the test doses i.e. 1.2 gm, 2.4 gm and 3.5 gm/kg of seed were found to be effective in reducing the downy mildew incidence in all the above locations. No phytotoxic symptoms like effect on germination, leaf injury, wilting, necrosis, epinasty and hyponasty were observed at the various doses tested including the high dose @ 9.6 gm/kg of seed.

In Nematology coordinated trials, 145 lines along with 3 local checks were tested against maize cyst nematode, 3 lines viz. DMR-1523, DMR-1537 and DMR-1630 exhibited moderate level of resistance (4-9 cyst/plant).

Experiments on crop loss assessment due to cyst nematode revealed 22.2 and 17.1 per cent avoidable loss over check by the application of carbofuran @ 1.5 kg a.i./ha and Neemcake @ 5 qtl./ha respectively over untreated check.

Management of cyst nematodes through different treatments indicated that maximum increase yield (38.7%) was observed with the application of carbosulfan 3% w/w+neemcake @ 5 qtl/ha followed by carbofuran @ 1 kg a.i./ha.

Under ICAR-CIMMYT Collaborative Project on banded leaf and sheath blight, 44 lines were evaluated at Delhi, Pantnagar and Udaipur during kharif 2003. None of the lines were resistant. However, 6 lines viz. CA00106, CA003134, CA34507, CA00310 (CML 465), CA 14501 and CA 14157 were identified as tolerant to BLSB (disease score < 3.5).

TABLE NO. II :

MEAN PER CENT RELATIVE HUMIDITY DURING 2003 AT VARIOUS RESEARCH
CENTRES OF DIRECTORATE OF MAIZE RESEARCH

CENTRES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bajaura	65.0	69.0	65.0	60.0	59.0	58.0	72.0	77.0	75.0	58.0	67.0	-
Kangra	86.0	78.0	68.0	74.0	62.0	74.1	83.3	72.8	71.9	63.5	68.0	-
Jorhat	82.0	79.0	76.0	81.0	79.1	82.1	85.0	81.1	83.1	85.0	75.1	-
Pantnagar	-	-	-	-	-	77.5	86.8	90.2	93.0	84.3	-	-
Kanpur	-	-	-	-	-	-	79.2	80.8	86.0	68.4	67.6	-
Kushmahot	-	-	-	-	-	81.0	80.0	77.6	75.0	77.0	-	-
(Normal)	-	-	-	-	-	67.0	65.0	64.0	66.0	64.1	-	-
Ambikapur	-	-	-	-	-	36.0	72.0	81.0	78.0	64.0	40.0	-
Coimbtore	-	-	-	-	-	81.0	83.0	83.0	85.0	91.0	90.0	-
(Normal)	-	-	-	-	-	56.0	55.0	62.0	63.0	72.0	73.0	-
Mandya (0730 hrs	-	-	-	-	-	80.0	82.0	84.0	85.0	87.0	88.0	-
(1400 hrs	-	-	-	-	-	45.0	48.0	54.0	51.0	55.0	46.0	-
Udaipur (0735 hrs	-	-	-	-	38.0	70.0	91.0	89.0	86.0	76.0	-	-
(1435 hrs	-	-	-	-	21.0	45.0	74.0	76.0	67.0	31.0	-	-
MAHYCO (max)	-	-	-	-	-	71.6	88.2	86.8	88.9	79.2	64.9	-
(Jalna) (min)	-	-	-	-	-	46.9	66.2	67.8	62.0	39.5	37.9	-

TABLE NO. III :

TOTAL RAINFALL (mm) RECORDED DURING 2003 AT VARIOUS RESEARCH
CENTRES OF DIRECTORATE OF MAIZE RESEARCH

CENTRES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bajaura	25.0	126.9	140.3	70.9	17.7	57.0	59.4	115.7	69.1	0.0	24.4	-
Kangra	45.2	165.6	126.5	44.3	0.0	118.0	610.5	428.2	195.9	0.0	16.0	-
Jorhat	5.4	72.7	73.4	284.1	201.6	241.4	267.3	326.7	174.0	280.9	57.9	-
Pantnagar	-	-	-	-	-	264.8	516.5	366.2	483.5	0.0	-	-
Kanpur	-	-	-	-	-	-	334.0	129.2	453.0	0.0	0.0	-
Kushmahot	-	-	-	-	-	312.3	267.9	211.5	111.2	80.5	-	-
Jashipur	-	62.8	111.4	46.0	30.0	412.2	272.2	241.2	223.2	337.0	37.2	-
(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	-	-	-	-	-	140.0	360.2	380.4	510.2	119.0	0.0	-
(Normal)	-	-	-	-	-	284.0	401.7	380.1	247.6	51.6	12.5	-
Coimbtore	-	-	-	-	-	34.0	43.9	24.6	13.6	210.1	99.2	-
(Normal)	-	-	-	-	-	42.8	68.5	30.1	68.0	146.0	118.0	-
Mandya	-	-	-	-	-	48.7	41.2	25.6	38.2	203.3	38.2	-
MAHYCO	-	-	-	-	-	152.0	227.0	291.0	38.0	0.0	0.0	-
(Jalna)	-	-	-	-	-	-	-	-	-	-	-	-
Udaipur	-	-	-	-	-	55.5	263.9	129.8	66.0	6.2	-	-

TABLE NO. I :

MEAN MAXIMUM AND MINIMUM TEMPERATURE °C DURING 2003 AT VARIOUS RESEARCH
CENTRES OF DIRECTORATE OF MAIZE RESEARCH

CENTRES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bajaura Mean Max	18.1	17.8	20.9	26.9	30.0	34.5	31.9	30.9	30.1	29.1	23.1	-
Mean Min	-0.9	3.4	6.1	9.6	10.6	16.9	21.1	21.0	18.4	7.4	2.6	-
Kangra Mean Max	19.3	20.5	25.5	31.7	34.3	35.6	30.3	29.5	30.4	28.3	23.8	-
Mean Min	7.0	11.7	16.7	18.4	17.5	21.1	21.9	20.5	20.1	15.5	9.7	-
Jorhat Mean Max	22.0	23.4	25.9	28.3	30.1	32.0	32.9	32.7	31.8	29.5	26.8	-
Mean Min	9.8	12.1	14.2	19.7	22.1	24.8	26.0	25.5	25.0	23.6	16.0	-
Pantnaga Mean Max	-	-	-	-	-	34.5	32.4	31.8	30.5	31.2	-	-
Mean Min	-	-	-	-	-	25.4	25.6	25.2	23.3	16.6	-	-
Kanpur Mean Max	-	-	-	-	-	-	33.8	32.6	30.9	31.9	28.2	-
Mean Min	-	-	-	-	-	-	24.7	25.0	23.4	16.9	10.2	-
Kushmaho Mean Max	-	-	-	-	-	33.1	31.2	31.1	29.1	26.4	-	-
Mean Min	-	-	-	-	-	25.0	24.4	24.5	23.3	20.1	-	-
Jashipur Mean Max	23.5	27.5	31.5	36.8	40.9	34.4	30.4	29.4	29.1	27.7	25.6	-
Mean Min	12.5	17.5	20.0	25.0	26.7	26.9	25.9	25.6	24.7	22.7	17.1	-
Ambikapu Mean Max	-	-	-	-	-	36.2	29.9	28.9	28.8	27.6	27.4	-
Mean Min	-	-	-	-	-	25.8	24.2	23.6	23.0	19.5	12.6	-
Coimbtor Mean Max	-	-	-	-	-	32.5	31.2	32.6	33.3	31.1	29.1	-
(Normal)	-	-	-	-	-	31.6	30.1	30.1	31.6	30.9	29.2	-
Mean Min	-	-	-	-	-	23.7	22.9	22.9	21.9	22.3	21.1	-
(Normal)	-	-	-	-	-	22.9	22.2	22.2	21.8	21.4	20.2	-
Mandya Mean Max	-	-	-	-	-	32.3	30.4	29.6	30.1	29.6	29.5	-
Mean Min	-	-	-	-	-	20.7	20.9	21.1	19.9	20.2	17.9	-
Udaipur Mean Max	-	-	-	-	39.9	36.4	31.2	29.7	31.1	32.9	-	-
Mean Min	-	-	-	-	26.8	25.8	24.4	23.4	21.7	15.2	-	-
MAHYCO Mean Max	-	-	-	-	-	34.5	30.1	28.7	30.3	32.9	30.9	-
(Jalna) Mean Min	-	-	-	-	-	24.3	23.9	22.3	21.4	19.4	16.1	-

TABLE VII : LOCATIONS AND SOIL CHARACTERISTICS OF THE VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE 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	6.5
6.	Dhaura Kuan	30.5 N	77.5'E	456	Sandy loam	6.7
7.	Jorhat	26.46 N	94.16'E	91	Sandy loam	5.7
8.	Kalimpong	27 N	88'E	1070	Sandy loam	-
9.	Kalyani	23.5 N	89'E	9.75	Sandy loam	-
10.	Delhi	28.38 N	77.12'E	228.1	Loam to sandy loam	7.5-8.5
11.	Ludhiana	30.45 N	75.40'E	247		7.8
12.	Udaipur	24.55 N	73.41'E	572	Loam to sandy loam	8.2-8.4
13.	Banswara	23.5 N	73.58'E	218	Pleustertt	-
14.	Kanpur	26.28 N	80.40'E	125.9	Sandy loam	-
15.	Karnal	29.43 N	76.58'E	245	Clay loam	-
16.	Jaipur	26.51	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.	Nagenahalli	12.22 N	76.42'E	762	Sandy loam to gravel	5.4
26.	Mandya	12 N	76'E	695	Light red sandy loam	-
27.	Varanasi	25.20 N	83.0 E	128.93	Sandy loam loam	6.0
28.	Bahraich	27.34 N	81.36 E	130	Sandy loam	8.4
29.	Sabour	25.15 N	87.02'E	37.04	Sandy loam	-
30.	Jalna	19.51N	75.53'E	550	Medium black	7.5-8.0
31.	Dharwad				Medium black	7.5

TABLE NO. IV :

WIND VELOCITY (Km/HOUR) DURING 2003 AT VARIOUS RESEARCH CENTRES OF DIRECTORATE OF MAIZE RESEARCH

CENTRES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Jorhat	2.4	3.1	3.4	4.2	4.1	3.7	4.3	3.4	2.6	1.6	1.3	-
Pantnagar	-	-	-	-	-	5.0	6.9	5.3	4.4	7.4	-	-
Kanpur	-	-	-	-	-	-	5.6	3.0	2.3	1.6	1.8	-
Ambikapur	-	-	-	-	-	7.1	4.0	2.8	2.4	2.3	1.8	-
Coimbtore	-	-	-	-	-	13.1	14.1	12.0	11.7	6.4	6.8	-
(Normal)	-	-	-	-	-	13.4	12.7	11.2	6.0	2.8	2.5	-
Udaipur	-	-	-	-	7.7	7.6	6.1	3.8	3.6	1.4	-	-

TABLE NO V :

MEAN HOURS OF SUNSHINE DURING 2003 KHARIF AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bajaura	5.5	5.6	6.5	7.8	7.4	7.7	5.7	5.3	6.3	9.1	6.3	-
Kangra	-	-	-	-	-	7.8	5.7	5.9	6.1	7.7	7.0	-
Pantnagar	-	-	-	-	-	6.7	7.0	4.4	3.0	2.1	-	-
Ambikapur	-	-	-	-	-	6.2	4.3	3.2	3.1	5.2	9.3	-
Coimbtore	-	-	-	-	-	6.5	4.0	6.2	8.2	6.0	5.6	-
(Normal)	-	-	-	-	-	5.8	4.6	5.8	5.2	6.3	6.1	-
Udaipur	-	-	-	-	-	10.7	7.7	5.1	4.3	7.3	10.3	-

TABLE NO. VI :

MEAN EVAPORATION/TRANSPIRATION (mm) DURING KHARIF 2003 AT VARIOUS RESEARCHS CENTRES OF DIRECTORATE OF MAIZE RESEARCH

CENTRES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Jorhat	1.7	1.7	2.7	2.9	3.3	3.2	2.9	3.0	2.9	2.3	2.2	-
Pantnagar	-	-	-	-	-	6.4	5.3	3.9	2.8	3.2	-	-
Kanpur	-	-	-	-	-	-	4.4	2.9	2.6	3.3	2.0	-
Ambikapur	-	-	-	-	-	9.8	4.5	2.8	2.9	2.9	3.0	-
Coimbtore	-	-	-	-	-	6.0	5.1	5.8	6.1	3.8	3.6	-
(Normal)	-	-	-	-	-	5.8	5.1	6.4	5.6	3.4	2.8	-
Udaipur	-	-	-	-	53.5	38.1	18.9	17.7	15.6	17.4	-	-

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. VIII

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

STATE	2001-02			2002-03				
	KHARIF	RABI	SUMMER	TOTAL	KHARIF	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. 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

- * Chain crossing programme was performed in 12 selected populations so as to develop a new experimental variety.
- * In population improvement programme of composite C 6, C 8, C 15 and Super-1, out of 465 S1 progenies 278 progenies were selected and were maintained. Selected progenies shall be used for intermixing. Fresh S1's (170) were developed in Composite C 8 and Super-1.
- * Half sib family selection programme continued in Composite C 6 for its improvement.
- * 360 inbred lines which are in various stages of inbreeding (S1-S6) were planted and evaluated and desirable lines were advanced to next generation by selfing.
- * Derived S1 lines from the best uniform available material of NBPGR received from Directorate of Maize Research.
- * 90 promising lines were maintained by sib-pollination.
- * Breeder seed production programme was undertaken for composite C 6, C 8, C 15 and Super-1 at this Centre.

JORHAT

A 6-parent variety-diallel cross was made during rabi 2002-03. The parents involved were the composites namely, Kiran, Megha, Gujrat Makki - 2, Mahi Kanchan, Arun and Pusa Composite - 1. 6 parents and their 15 F1 population crosses were evaluated and data were obtained. Aim of the trial was to identify heterotic cross- combinations from the population crosses.

UMIAM

1. Intrapopulation Improvement Programme by introgressing the local blood through crossing were performed and screened for turicum blight and yield contributing characters.
2. Only one set of crossing material (line x tester design) was developed and the crossed materials will be evaluated in the subsequent year.
3. Baby corn Research Complex Regional trial was formulated and conducted involving the locally improved populations.
4. Popcorn Research Complex Regional trial was formulated and conducted involving the locally improved populations.

5. Vegetable/Sweet corn Research Complex Regional trial was formulated and conducted involving the locally improved populations.
6. DAPIM (Differential Anthocyanin Pigmentation Trial)

BAJAURA

1. Population improvement is being practised in two released composites viz. Early composite and Girija composite. Three hundred half-sib progenies of each composite were grown in isolation. After practising inter as well as intra family selection elite progenies were selected for next cycle of selection.
2. In Hill Early Yellow Pool (HEY-Pool), 250 half sib progenies were evaluated in two replicated trials at two locations. Elite progenies were marked and will be used for recombination next year.
3. About 50 exotic inbred lines from North Dakota State Univ. Iowa State University and CIMMYT were introduced through DMR. Their seed was increased through controlled pollination for further use in breeding programme.
4. Seed of about 15 composites, 12 experimental hybrids were increased by controlled pollination for testing in zonal and co-ordinated trials.
5. In a bid to convert normal elite inbred lines into QPM, selfing were done in backcrossed inbreds (BC-3) in order to recover QPM version.

KANGRA

Hybrid/Composite Development Programme

- * 45 inbred lines were developed from diverse source, out of which 35 inbred lines selected for desirable traits viz. earliness, low cob placement, height, yield and disease resistance are being utilised in breeding programme.
- * Development of inbred lines from the best uniform advanced breeding material from the coordinated trials is underway. Ninety three inbred lines (in different stages of selfing S1-S2) were evaluated for desirable traits and are being further advanced at winter nursery, Amberpet, Hyderabad during rabi 2004-05.
- * Nine new vigorous inbred lines have been used to develop diallel to study GCA and identify new single cross hybrid.

KANPUR

A. Inbred line development programme:

1. In order to strengthen early maturity hybrid development, 453 S4 progenies which were found homozygous with respect to seed shape, colour, flowering and plant group character have been selected.
2. 957 S2 to S3 which are under observation for the stability of economic attributes have been developed for further studies.

B. Early generation heterotic test

During Kharif 2003, 215 S3 progenies were to be crossed with CM 139 & CM 140 (parental lines of hybrid Prakash) in double top cross system. However, due to more often rain the crossing programme hampered. In spite of it a set of 33 double top cross could be achieved; Though 103 crosses, besides above, also harvested but not in double top cross. These crosses will be evaluated during Rabi 03-04.

C. Development of heterotic population for kharif and rabi maize

42 early and medium maturity yellow maize populations are available and maintained. These populations are local collection, earlier developed population and population derived from CIMMYT and co-ordinated trials. These populations will be subjected to double top cross using parental lines of maize hybrid Prakash.

D. Composite development Programme of yellow maize 6 populations are under selection.

E. Nucleus and Breeder seed production of maize varieties

The n/s & b/s production of maize variety Azad and Uttam have been taken up on the basis of modified ear to row method.

PANTNAGAR

1. Development of single cross hybrids : - In order to develop single cross hybrids inbred lines from various source population were crossed with two heterotic testers (lines from pop. 445 and 446). These top crosses were tested in formal yield trials during kharif 2003. About 50 single cross hybrids have been short listed.

2. Maintenance of inbred lines: More than 250 inbred lines were maintained through controlled pollinations.

3. Maintenance of Germplasm : Eighteen established advance generation inbred lines were maintained. Besides, all the released varieties from Pantnagar were also maintained.

4. Development of three way cross hybrids: Thirty two single cross hybrids selected on the basis of their performance will be crossed with the lines from source population 446 and twenty one single crosses will be crossed from line of

source population 445 at Hyderabad doing Rabi 2003 in order to develop three way cross hybrids.

JASHIPUR

1. Maintained 38 inbred lines received from DMR
2. 22 station inbred lines were evaluated
3. 11 single crosses and six top crosses were evaluated against 5 checks namely Navjot, KH 510, PRO-311, Ganga-11 and Deccan - 103.
4. Nine composite varieties were multiplied.

KOLHAPUR

* Evaluation of single crosses : During the Kharif season of 2003 following station trials were conducted.

1. Inter-University Trials: one initial (36 entries) and one advanced evaluation trial (31 entries) was conducted at three locations, Kolhapur, Nagpur and Parbhani.
2. Multilocal Trial: One initial evaluation trial of 14 white single crosses was conducted at three locations, Kolhapur, Gadhinglaj and Karad.
3. Station Trials: Total eight station trials of newly developed single crosses produced by way of different Line X Tester crossing programmes were conducted. Two of them comprised of white single crosses (21 entries each). Six Trials were of yellow single crosses (Total entries were 122).

* Inbred development programme:

To develop inbred lines 21 F₂s were grown and promising individual plants have been selected. Similarly selfed ears of promising single crosses from station trials have been obtained.

* Maintenance and evaluation of germplasm:
Total 350 germplasm accessions were grown, evaluated and maintained.

UDAIPUR

1. Seed multiplication of promoted hybrids and composites in IET, AET I and AET II and other new single cross hybrids were undertaken in rabi 2003-04.
2. Experimental hybrids were developed through 2 sets of line X tester crosses
3. Inbred lines from NP-2, UHP-1, UHP-2, Pool-27 and pool-28 were advanced to S₂-S₃ stage of inbreeding.

4. CML-186, CML-142, CML-150 and other 35 QPM inbred lines from Mexico were planted for evaluation and maintenance
5. 12 temperate inbred lines and 22 drought tolerant inbred lines were planted for evaluation and multiplication
6. Refreshment and maintenance of 57 inbred lines received from winter nursery, hyderabad and other sources was undertaken
7. Seed multiplication of (1) parents of Pratap-Hybrid Maize-1, (2) Pratap-Hybrid Maize-1 in isolation and (3) Madhuri sweet corn in isolation was undertaken.
8. Enrichment of National pool-2 (white) through half-sib selection in isolation.
9. Release of variety:
 - (1) Pratap Makka- 4 : for zone IV - notified by CVRC (DMR lt. No. 5017/13 dt. 3/11/2003)
 - (2) Pratap Hybrid maize - 1: For Rajasthan - notified by CVRC (DMR lt. No. 5017/13 dt. 3/11/2003)
 - (3) State release:

Pratap Hybrid maize - 1: For Rajasthan - notified by CVRC (DMR lt. No. 5017/13 dt. 3/11/2003)

GODHRA:

The breeding programme for development of composite cultivar(s) were successfully accomplished during rabi - 2002 at Godhra as per following:

- A. Development of single cross hybrids:
 1. White seeded: In all thirty three white seeded experimental hybrids comprised of indigenous and exotic origin inbred lines were developed for yield and earliness under rainfed condition.
 2. Yellow seeded: In total twenty six yellow seeded experimental hybrids comprised of indigenous and exotic origin inbred lines were made for high yield and earliness under rainfed condition.
- B. Development, Maintenance and multiplication of breeding materials for experimental use
- C. Breeder seed Production of Gujrat maize-2, Gujrat maize-3, Gujrat maize-4, Gujrat maize- 6, Narmada Moti and PEH-1 was accomplished.

Monitoring Team Report Kharif, 2003

Varanasi

The monitoring team jointly visited the various experiments planted at Varanasi.

Breeding: All the trials planted near Hyderabad colony were in good conditions except CIMMYT trial 14a and 14b. One replication from Tr. 64 (Rep. I) was in poor path hence rejected. In Tr. 69 DMR 204, Tr. 66 DMR 346, Tr 63 DMR 535, 526 and 533 were promising. In QPM trial which was planted late (12.7.03) was still green and was difficult to mark differences among the genotypes. At main farm Tr. 61A, 61B and 62 were planted which suffered due to excess moisture. In six trials one replication was not planted due to paucity of land and resources.

Agronomy: All the three coordinated trials of NxG and one intercropping experiment of maize and rice were planted at the main farm. In all NxG trials middle dose were observed to be optimum and larger dose was inferior. In maize + rice intercropping experiment team observed positive interaction as compared to sole crop of maize or rice.

As informed by incharge FLD Dr. R.N. Singh, 29 FLD's were planted at the farmers field located in Padari, Chunar and Shkteshgarh bock of Mirzapur Distt. Team could not visit these places as they were away and roads were flooded.

Steep hike (from Rs. 50 to Rs 81/day) in wages is a constraint on resources has been further aggravated. In view of this monitoring team was of the view that Varanasi centre should be supported by making available more funds to successfully complete the plan of work of Rabi 2003-04.

Kanpur

It was suggested by the visiting team to the stations Incharge to follow standard spacing between rows without much duration. In certain varieties experiments (e.g trial no. 63) , though the plant stand was satisfactory but poor expression of genotypes were observed and it appeared (as informed by the station Incharge also) that weeding and drainage could not be managed as the labourers were not made available at appropriate time. Due to these constraints the visiting team rejected Rep. II of trial No. 63.

All the three coordinated agronomical experiments on NxG of full maturity, medium maturity and early maturity were planted in split plot design. Stand and genotypic expressions were satisfactory. However, Agronomist was advised to take more care for drainage etc. In the present crop some entries suffered due to excess moisture. In general termite infestation had been seen which required to be controlled.

As informed by the Nodal Officer, 50 FLDs were planted in Kanpur, Kanpur Dehat and Auraya districts of U.P. team visited village Bhati Hardoi in Block, Bilhar where 11 demonstrations were planted. The Nodal Officer of FLD is advised to demonstrate and plant the FLD with appropriate package and practices so that much more improvement could be realized in future.

As compared to previous year (kharif, 2002) it appears that efforts have been made to raise a good crop. However, many of the trials were rejected due to being in variable patches coupled with excess soil moisture which resulted in the poor stand and expression of genotypes. It is advisable for future to have uniform field to raise a crop where potentiality of genotypes could be identified. The field may be at the farm or may be nearby some of the farm.

Almora

Breeding: The breeding programme is up to the mark. The breeding and populations have been maintained in a very nice manner. Emphasis has also been laid down on DUS testing in form of these trials. The yield trials have been planted nicely. Managed well and we could observed them in very good shape. Data has been recorded in precise manner. In all breeding trials disease development specially, turcicum leaf was observed. It was requested to Dr. Babu, Maize Breeder that the data on disease reaction should also be recorded under natural conditions.

Agronomy: Both coordinated trials of NxG were planted using split plot design at the station. Plant stand and expression of the trials were good. Response beyond 100 kg N was not visible. Besides, two station trials were also planted which were in satisfactory condition. One trial on integrated nutrient management (Long term) is also being conducted. The trial is satisfactory.

Pathology: In pathology full season, medium maturity and early maturity materials were planted. The materials have just completed flowering. Disease development for H. turcicum and BLSB was observed but it is too early to conclude regarding the reaction of materials to disease. In some of the lines, rust incidence was also observed.

Frontline demonstration: Nodal officer FLD informed the group that all the FLDs were planted as per scheduled plan. Group visited the FLD at Dhanpad where at one place literature of Himka and vivek-9 hybrids were planted. Both showed better performance over the local. At Dhanpad Him 129 was also planted and was observed to be in good shape.

Pantnagar

Breeding: Crop suffered due to excessive rains and the result was that many of the trials failed due to very poor stand and some of the trials which survived at the time of germination but grain filling suffered due to continuous rains. Thus only coordinated trial No. 64 was retained. The late planted materials were slightly better and we were able to retain in general zonal station and CIMMYT trials. Insect and disease under natural conditions were not the major constraints in breeding trials.

Pathology: In pathology all screening trials were planted and artificially inoculated for BLSB and Erwinia stalk rot. The crop in general has just passed the stage of flowering and the expression of BLSB was very good and still the disease was progressing. It was difficult to judge for its resistance. As informed by pathology Dr. Saxena who identified some of the lines at earlier stage but some of them showed more disease progress soon informed the group that final data were being taken after some time then only he will conclude the research lines. The same was also with trial for stalk rot.

Soil science: In soil represent all the screening materials planted under excess moisture condition as well as under normal conditions. Some of the materials in less soil moisture conditions are promising but under normal conditions as the crop has just completely will be rated after few weeks. Some of the progeny entries from trial No. 75 are entry no. 10, 12, 40, 46, 43 and so on.

FLDs: Nodal officer incharge for FLD informed that 11 allotted trials are planted in Distt. US Nagar, Nainital, Hardwar, Dehradun, Bageshwar. Group visited the near by some FLD at Hardwar and found at par with 994, D 995 planted there.

Udaipur

Breeding: All the allotted trials have been conducted and most of the trials were sown in first week of July. The crop management is very good. All the trials have been conducted strictly under rainfed condition. The rain during the period before flowering was 355 mm and there was a dry spell at the silking stage. Crop condition during the visit was good. Breeder seed production programme of identified materials viz. Pratap Makka-3,4 and Pratap Hybrid maize-1 were undertaken. Remaining breeder seed programme of stage III will be taken in rabi season along with other breeding programme. One trial namely T-62 has been ploughed down because of poor plant stand.

FLD's: 60 FLDs allotted were planted in major maize growing areas viz. Udaipur, Chittorgarh, and Rajsamand Distt. On PHEM-1, 2, Shaktiman-1, Madhuri, Navjot, Aravali Makka-1, Mahi Kanchan, Mahi Dhawal, Pratap makka-3 and Pratap hybrid maize-1. Some of these FLDs were visited and interaction with the farmers was done. There was clear effect of varieties and management practices given by Maize Project in farmers fields. Farmers appreciated and will follow in next year also.

Agronomy: In all nine trials were conducted comprising five coordinated on NxG seed priming and sweet corn and 4 on are specific and on basis of feed back of farmers on intercropping. Weed management, green cob, and maintenance of plant population at various stages have been conducted. Crop management is nice. Crop expressed treatment effects visibly.

Pathology: In all 20 trials (DMR 16 + station 4) have been conducted on DMR, PFSR and BLSB (Ambionet-1 and CIMMYT -1) and inoculation have been done with respective pathogens. 39 genotypes have been noted highly resistant (0.0%) and 8 genotypes highly susceptible (92-100%). Trials on BLSB showed high level of susceptibility (5.0 grade). In PFSR, observations are to be recorded at maturity. Overall crop management is fine.

Entomology: Four trials comprising three DMR on stem borer (Chilo sps.) management including screening of germplasm. IPM module and evaluation of Cruiser chemical against termites and screening of inbred lines against Chilo partellus have been conducted. All observations have been recorded as per schedule. Trial management is good.

Nematology: In all 8 trials (3 DMR + 5 station) on cyst nematode Hetrodera zaeae are conducted in naturally infested field using different varieties (205). Management practices including cakes, chemicals and IPM traits, and the crop losses trial. Some of the varieties have been observed promising against H. zaeae and IPM treats are shown good results.

Banswara

Breeding: Out of 16 trials 13, trials have been conducted successfully. Also one set of Advance trial has also been conducted at Pratapgarh. All the trials have optimum plant population and overall crop management and condition is good. In some of the entries plant population was low because of limited seed sent with the trials. The modalities of heterotic germplasm of lines were explained. The data have been recorded in all the trials timely.

Agronomy: Three trials of NxG of different maturity group (FS, MM and EH), irrigated weed management, INM in maize-wheat cropping system, seed priming and effect of thio urea on increasing the multilocation efficacy and mitigating the adverse effect of cloudy weather (before and after flowering) have been conducted under rainfed condition. One new expt. On maize-wheat cropping system has been initiated. Organic farming plant population, experimental layout and treatments were as per the specification and their effects were clearly visible, crop management was very good.

FLD: Out of 109 FLDs conducted at various places few of the FLDs on KH 510, PEHM-2 AND Mahi Dhawal were visited. Conduction of FLDs was good. Some of the FLDs were harvested already. Because of FLDs area under hybrids and improved varieties have increased one field day on 23.9.03 was organized at village Palodra in which more than 350 farmers participated and interaction with the visiting team was done.

Godhra

Breeding: All the trials were taken as per programme sowing and other operation were done timely. As such plant stand and crop management is good. However, because of poor soil and heavy rains (1170 mm) against the average (700-800mm,) nitrogen leached out conducted by a day spell of 15 days at flowering stage, reduced the vigour and expression of genotypes, which was evident from the crop late sown which was quite healthy viz. CIMMYT trials and full season trials 61A & 61B. Increase in prevalence of barrenness in extras and early trials on account of drought prevalence at flowering was observed. In the post flowering stage there was very heavy infestation of grasshopper and cob borer.

Agronomy: Four coordinated and five station trials comprising NxG (E, MM, FS) and specific location problems like nutrient management cropping system, water harvesting etc. were taken. Treatment effect etc. were taken. Treatment effect in coordinated trials is visible whereas in station trials treatments effect is not visible cause of one or the other reasons.

Pathology: Out of 7 trials, 4 were conducted whereas three could not be taken because of late receipt. All trials have been conducted nicely and observation have been recorded under natural conditions. In CIMMYT trials BLSB incidence was noted in particular. The treatment effect was less visible. Therefore, entries should have been under epiphytotic conditions.

FLDs: 150 FLDs were conducted using GM-2, GM-4, GM 6 and Narmada sita and FLDs of GM-4 were visited. Farmers interaction was held at FLD site in which more than 120 farmers participated. Farmer's showed these reactions to follow the varieties and practices given in FLDs.

Chhindwara:

Breeding: All the trials allotted were conducted and management of trial was extraordinary. The expression of genotypes and treatment was optimal. While discussing he was suggested to form disease/pest result/tolerant populations. Advanced inbred line generations and line improvement strategies were interacted upon. Because of high rainfall and high humidity, disease pressure, disease pressure under natural condition is very high therefore the team is of opinion that a post of Pathologist be stationed at this centre for efficient screening and development of tolerant/resist materials against multiple diseases.

Agronomy: In all 7 agronomic trials have been conducted NxG (FS, MH, IM) along with the INM trials and 3 station trials on green manuring, intercropping and maize + cut flowering. All the trials were in good condition and management was excellent. Treatment effect is quite visible. As per the local requirement the cent flower cultivation with maize as an intercrop has been explored for the first time.

FLDs: 56 FLDs covering hybrids Bio 8691, Hishell, Pro 4640 and composite JM 216 were conducted in three districts. FLD on Pro 4640 was visited. Kisan Divas at the cite of FLD was arranged at Chandangaon Dhana where maize production technology was interacted.

Coimbatore:

Breeding: Seventeen coordinated trials were planted starting from 19.6.03 (3 trials), 3.7.03(7 trials) and 11.7.03 (7 trials). The crop stand and management was good but there was severe incidence of SDM and 10-15% incidence of Chilo partellus. The promising entries identified in 65 AET as 41. 66AET(entries 10, 16,17 and 20), AET 71 (entry no. 3) but should be placed in medium maturity group in 61B. Full season maturity (entry No. 27, 35239). Trial No. 5 64 IET (extra early), sweet corn, popcorn and baby corn are recommended for rejection due to poor plant stand and severe SDM and no meaningful data can be obtained. The team is of the opinion that for all the breeding trials to be planted in the station. Next treatment with metalyal @ 3g/kg seed should be followed to have the uniform crop stand and to have the valid comparison of the yield data and also recommended to spray endosulfan 35 EC @ 007% on 10-15 day old plants o manage Chilo partellus in the breeding trials.

Pathology: Total of 6 trials viz. AET 75, 75A, 76, 76A, 77, 77A were planted for evaluation of resistance against downy mildew on 18.8.03. Oilseeds pressure of SDM is very high and good for screening DHR 1957 and DMR 1964 were found to be resistance (13.64%) and moderately resistance (44.44%). These entries need to be checked for seed treatment at the point of

origin. The tridon testing of fumigants has been planted late and the pathologist was advised to inoculate the trial immediately to have sufficient disease pressure.

FLDs: Till now KVK was conducting FLDs (maize) and expressed their inability in combining FLDs further. The committees suggested that Head, Deptt. of Millets TNAU may submit a proposed to PD (Maize) for reallocations of FLDs funds/budgets for PCDs to be conducted by Deptt. of millets.

Mandya

Breeding: Eleven coordinated trials, 1 CIMMYT trial and 3 station trials have been planted on 3.8.03, 4.8.03 and 7.8.03. After seed treatment @ 3 gm/kg with Ridomil MZ 75 WP. There was incidence of SDM in some of the replications. The Breeder was requested that while submitting the data, he should provide disease reaction plot wise with comments. Otherwise the trials are well maintained with recommended plant population. Data are being recorded as per plan. Zonal trial 401K, seeds of 3 entries i.e. ZMH387, ZMH394 and ZMH 400 were not received. 304 lines in 1-4 rows (station trial) in different stages of selection have also been planted on 26.8.03 for maintenance and development of new lines.

Pathology: Trials 75, 75A, 76, 76Am 77 and 77A (coordinated trials) were planted in 2 row x1 replication for screening against SDM along with infector rows. Besides, disease trap nursery (DMR) bioefficacy of row in different dozes as seed treatment and trial on Asian regional maize program have been planted on 14.8.03. The disease pressure was very high (upto 100% incidence) and maintenance of trial was very good. Entry nos DMR 1516 (7.6%), DMR 1832 (25.8%), DMR 1621 (28.5%), DMR 1625 (27.2%) and DMR 1957 (12%) were found promising for resistance against SMD. In experiment hybrid evaluation screening of 35 hybrids NAH 1144, NAH 2090, NAH 2100 and NA 2101 were resistant to SDM. 9 insect incidence was not noticed except for stray incidence of Pyrrilla.

Miscellaneous: The scientists expressed difficulty in meeting the day to day contingency expenditure as only Rs. 30,000/- have been provided for contingency out of Rs. 3 lakh received from DMR to AICRP maize 2003-2004 till September, 2003. Release of the sanctioned budget should be expedited.

Nagenahalli

Evaluation of maize entries against TLB at ARS, Nagenahalli. A total number of 11 trials including 6 coordinated trials (75, 75A, 76, 76A, 77 and 77A) and one trap nursery, multilocation evaluation trial for SCH (zonal trials) and valuation of maize inbred lines, testing of fungicides against TLB have been on 13.8.2003 and 20.8.03. The trials one in

vegetative stage (about 35 days old) with recommended plant population. The trials were maintained very well and artificial inoculations of TLB have been completed. Initial symptoms have already appeared. Data will be recorded at appropriate stage. Disease trap nursery (DMR) could not be planted due to non-receipt of the seeds which needs to be verified. Minor incidence of stem borer attack was observed and necessary control measures have been adopted.

Station trials: 28 SCH with resistance to TLB and SDM have been planted for evaluation along with 8 checks (private sector hybrids). The crop stand maintenance is very good and actual results will be visible at maturity. Besides trial on testing of fungicides against TLB has been planted and inoculation has been completed.

Frontline demonstration: 150 FLDs on maize composite NAC 6004 has been planted in different district in July & August and is being monitored by Nagenahalli scientists. Out of sanctioned budget of 2003-04, 3 lakh received from DMR for Negenahalli (Mandya 25000 has been released till September 2003. The remaining amount should be released at the earliest.

PROAGRO (Bangalore)

Three trial viz. 61Am 61B and 63 IET were assigned to Pro Agro, Bangalore. The trials 61A and 61B were sown on 22nd July, 2003 while 63 IET was planted on 24th July, 2003 (4mx2rowsx2 rep.). In general, the germination plant population and maintenance of the trials were very good. The data are being recorded as per plan. Moderate incidence of common rust, polysora rust and wild incidence of TLB & NLB were observed in all the three trials. In trials 63 IET, Plot nos. 6808, 6827, 6832, 6832A 2 were moderately susceptible to rust while 6815, 6819, 6820, 6821, m 6827 and 6831 had medium to moderate incidence of TLB. In trial 61B, mild TLB incidence was noticed. No insect infestation was observed in general, however, sporadic termite damage was noticed in few lines.

MONSANTO (Bangalore)

Three AICRIPM trials viz. 69AET, 67AET and 63 IET (early) and two zonal trials viz. 401M and 401B were assigned to Monsanto India Ltd. Among 3 AICRIPM trials, 68 AET and 67 AET were to be planted in zone II and III but planted at Bangalore due to late receipt of the seeds as plantings were over in zone II and III as explained by Dr. P. Reddy of Monsanto India Ltd. Hence these two trials were sown at Bangalore. The above trials were sown on 9th and 13th July 2003. The germination, plant stand and maintenance in general were good. The trials were in flowering and green ear stage and data re being recorded as per plan. Moderate incidence of common rust, polysora rust and

sporadic PFSR were observed in few lines. The trials were free from SDM infection, however, adjoining farmers' field was affected by downy mildews. No insect infestation was observed. Mild termite damage was noticed on some plants.

Hyderabad

Entomology: Total 5 coordinated (75, 76, 77 and 1 QPM trials and one IPM trials has to be planted. However, 4 trials QPM1,2 trial 76, 77 were planted. Only the trial QPM 1 was infested with *Chilo partellus* (artificial) in both the replications and LIR was recorded in this trial as per the plan. Whereas QPM 2, 77 were not infested due to non availability of sufficient *C. partellus* culture. Trial no. 76 of the 45 entries only 31 lines were infested in at 7 are replication. Hence it was recommended not to record the data. The LIR of trial QPM 1 is considered as this trial was showing very good symptom of *Chillo partellus*. IPM trial has not be conducted.

Breeding: In plant breeding (18) coordinated, (6) zonal, (1) station and (1) ICAR-CIMMYT collaborative trials have been planted. Due to heavy rains planting of trials were spread from 2nd week of July-last week of August, 2003. Due to heavy rains plant population in trials nos. 62, 66, 67, 69, 70 and 401H were very less due to poor germination. Weed population in general was quite high. Hence trials Nos. 66, 67, 69, 70 and 401H are recommended for rejection. Five trials i.e. 1 coordinated, 2 QPM, sweet corn and baby corn could not be planted due to continuous rain which prevented timely land preparation.

Seed production: 20 parental lines 8 hybrids and 8 composites have been planted for seed production 1acre of land. Seed production of parents of BH 1620 (SCH) and BH 1576 (SCH) and their parental lines have been planted in time isolation in 1/2 acre each.

Disease and pest reaction: spray incidence of *Chilo lobacuta* and *Merassmia* was noticed. Late wilt c/o *Cephalosporium acremonium* was observed in some lines in July-early August sown crop.

Pathology: The trial no. 75, 75A, 76, 76A, 77A QPM 1, QPM 2 and Trap nursery were planted. Trial No. 77 could not be planted due to non availability of prepared land and continuous rains. One ICAR-CIMMYT collaborative trial for evaluation against PFSR has also been planted. There was poor germination in the following trials viz. 75, 76 & 77A. Hence observations on PFSR may be recorded only on entries showing good germination. Data of the entries showing poor germination can be rejected. The poor germination was mainly due to heavy rains after the sowing. In station trial 21 entries have been planted for evaluation and maintenance for resistance against PFSR. This will be inoculated with *Cephelosporium asrimonum* after flowering.

Karimnagar:

Agronomy: Three agronomy NxG trials one each in early, medium and full season maturity group was planted on 5th & 6th July, 2003. General maintenance and plant population of the above trials is very good. The recommended nitrogen levels were included. In medium maturity 1131 and in early maturity 1023, 1025 and in full season 1072 looks to be promising but the adult position will be cleared after the yield data. In addition to the three levels of nitrogen one additional level of N (240 kg N/ha) for FSM and medium and 22 kg for early maturity have been included. Stray incidence of termite was observed in early maturity group.

Breeding: Eleven coordinated trials and three zonal trials were planted on 16.7.03 to 18.7.03. Management of the crop and the plant stand of the trial is good. Scientists expressed that the seeds for some of the trials for entry were less to obtain desired plant population and while constituting the trial. It should be ensured that sufficient seed/entry should be despatched. In trial no. 67 DMR 29D, DMR 291, DMR 293, DMR 288 appears to be good. DMR 295 is susceptible to late wilt. In trial No. 69 DMR 213 and DMR 215 appeared to be good. In trial No. 71 and DMR 101 seems to be tolerant to PFSR (late wilt). In trial no. 70 DMR 178 is better than rest of the entries and DMR 179 is highly susceptible to PFSR (late wilt). DMR 484 is also found tolerant to late wilt. Stray incidence of termite and *Oxydioria versicolor* was observed in addition to *Chilo partellus*. One station trial on drought tolerant was planted crop stand and maintenance of the trial was satisfactory. In this trial *morphomina* and *aphelosporium* was observed in some of the entries.

Pathology: Six coordinated trials were planted for evaluation against PFSR, TLB, HLD on 1st August, 2003. No natural incidence was observed in these trials. The trials have not been inoculated artificially and hence no valid data can be obtained from these trials. Hence, these trials are recommended for rejection.

One Asst. Plant Pathologist has been posted since December 1999 against vacant position of Senior Technical Assistant post and has been transferred to other centre recently of the university. Considering the emerging disease problem (PFSR, late wilt) which may pose a threat to maize cultivation in the area, the monitoring team recommends that a plant pathologist post should be sanctioned/filled through redeployment against some existing vacant post in other centers.

Belipar

The monitoring team visited Crop Research Station, Belipar on 16.9.2003. All the coordinated trials except trial no. 61B, 62 were planted. In general, the crop condition was quite good.

In general crop management was good. Germination was perfect and there was no lodging. Following entries were found promising in different trials.

Trial 70: Maydis leaf blight. Entries 5330 & 5331 identified
husk was disease reaction 2.5
Trial 64: Entries 6704, 6709, 6710 identified & 6707 was best
Trial 66: 6111, 6119 6136, 6148 identified.
Trial 63: 6942 identified. Banded leaf sheath blight recorded.
Trial 67: 5704, 5715, 5717, 5723 were identified.
Trial 69: 5454 selected
Trial 71: Maydis 2.00 rating recorded

Station trial: Banded leaf sheath blight and H. maydis attack was severe, rating 3.5

Zonal trial: H. maydis severe rating 2.0-2,.5

CIMMYT trial: Good no diseases

Waterlogged trial normal.

- (a) Inbred line developed of CD yellow pool 162 NB
- (b) Evaluation and maintenance of inbred lines 87 nos.
- (c) Development and process through line x tester designed -43 nos.

Agronomic management trial in released hybrids was in good condition

Dholi

The monitoring team visited Tirhut College of Agriculture, Dholi on 18.9.2003. All the coordinated trials were planted. In general the crop condition was quite good.

The crop management at Dholi was good and at Pusa was very good. In general, disease reaction was low. Aphid was mild. Borer reaction was low at Dholi. In coordinated trials plant population was good. Following observation was noted.

Trial No. 61A Poor performance due to rain
61B 8, 16, 17, 19, 21, 23, 25, 33, 35 were identified to be good
63 6821 and 6837 entries identified. 6837 was best in all 4 replication.
64 6701, 6709, 6711 identified. 6701 & 6709 showing medium maturity performance
66 Entry No. 6111 identified
67 Entry No. 5710 & 5723 identified.
69 5452, 5456 were identified
70 5329 entry identified but had stalk rot problem
71 Entry 5051, 5056 were identified

Baby corn, sweet corn & pop corn trials were satisfactory. Trial No. 62. 7012, 7068 were identified and are very good QPM 1 & QPM 2 entomology trial against stalk borer had screened under natural condition. Disease was mild. Sowings done on 21.7.03, 76a, 77A, 75, 76, 77 pathological trial had low disease reaction.

Agronomy trial NxG through medium maturity 5 entries No. 60, 120 & 180 not identified.

AxG-N60, 120, & 170 full maturity entry 1064 was best in all replication of N 3 dose.

AxG entry- entry 1011 at 40, 100, 160 gave very good performance.

Breeding programme: Expt. Conducted on Hybrid production for AET, IET, zonal and station trials, development of inbred lines. Breeder seed production evaluation of germination, excess resistant and normal trial. CIMMYT trials were satisfactory

At Pusa development of maize hybrid for quality protein, evaluation of lysine yellow and white QPM hybrids. LxT evaluation of 55 inbred lines and population 65 (60 entries), 61 (22 entries), 62 (45 entries) 65 (16 entry) DUS testing trial of consisting ten inbred lines. Production of high oil, grain, nucleus seed production of CML 161-13-2 x CML 163-7-2 and CML 161-13 x2 x CML 169-23 were carried out. FLD At Timruli-monitoring team reviewed Shaktiman1 in 140 acre was very good.

Kushmahaut, Begusarai

The monitoring team. visited Maize Research Station and Seed Production Kushmahaut, Begusarai on 20.9.2003. All the coordinated trials were planted. In general the crop condition was quite good.

Crop management at Kushmahaut, Begusarai was good. In general, disease reaction was low, late wilt and stalk rot were observed. Following entries found promising in Coordinated trial.

61A: Average
61B: Entry no. 7510, 7517, 7499 were better & identified
62: Plot No. 7012, lodging and stem borer infestation
63: Plot No. 6822 was identified
64: Plot no. 6704 was identified
66: No average
67: Plot no. 5705, 5708 were identified
69: Plot no. 5453 identified, 5455 stalk rot
70: Plot no. 5330 was identified to be good
71: Plot no. 5057 was identified as good

Seed production was satisfactory.

Pathology: 18 material, selfing was done in 4 materials 400 lines. Performance of material was good

Trial NBPGR- Selfing was done in promising entries and data were recorded Soybean- 14 acres- for crop rotation Dhaincha-Green manuring in 30 acres

Jashipur:

The monitoring team visited Maize Improvement Project, Regional Research & Technology Transfer Sub-station (O.U.A.T), Jashipur on 22.9.03. All the coordinated trials were planted. In general the crop condition was quite good.

Crop management was good. Sowing delayed due to late receipt of seeds. Germination affected due to dry spell. Tr. No. 61 & 61B, 62 and sweet corn rejected due to very poor germination. Following observation was recorded in different trials

Tr. No. 63	Plot no. 6817, 6861, 6879, 6885, 6899 identified
64	6709, 6714, 6717, 6727, 6730 identified
66	6101, 6111, 6112, 6117, 6126 were identified
67	5710, 5719, 5723 identified
69	5452, 5454, 5458 identified
70	5328, 5331, 5333 identified
Tr. No. 71	5051, 5056 were identified
Baby corn	8019 corn trials satisfactory
CIMMYT trial (IEYM 0316)	CHTTEY was satisfactory
Zonal trial 301:	Plot no. 315, 323, 338, 341 identified 302, 365, 366 identified 302 plot no. 365, 366 identified.
Station trial plot no. 117	identified

Path. Trial

Trial 76	Entry No. 22 plot 10205 has 1.5 rating of maydis 34 plot no. 10230 was susceptible with 4.0 rating
Tr 76A	Entry no. 17 plot 1765 most susceptible 4.0 to 4.5 rating
75A	Sowing 16.7.03 Tr. 75 sowing on 15.7.03
75	48/10001 most susceptible with 4.5 rating & 43/1004 at 2.5 Tr 77 sowing 15.7.03 germination very much affective
77A	Sowing of 16.7.03 No. 3-/17705 was best with 1.00 rating germination suffered in some entries. Disease nursery-germination affected

Agronomy: NxG Medium ratings N 60:120:180 ,No. 1121 identified at 120 but a bit late

Full season: DMR 1062 with 180N best also very good at 60 & 120 N
Early: 40:100:160N sown on 29th July. DMR 1012 identified at 160 N
Sweet corn 4 doses NPK and 4 spacing. Sweet corn with 120:60:60 & 80:40:40 with spacing 60x25 cm & 60x30cm identified.

Ranchi

The monitoring team visited Birsa Agricultural University (B.A.U.), Ranchi on 24.9.03. All the coordinated trials were planted. In general the crop condition was quite good.

Coordinated trial maintenance was good.

Tr. No. 62	plot no. 7001, 7016 (2.0) identified
63	6810, 6838 was identified
64	6703, 6711 identified
66	Plot 6101, 6112, 6115, 6117, 6119 identified
67	No early materials was tested
69	Plot no. 5452, 5456 was identified
70	5329, 5330 (BLSB) were identified
71	5057 was identified

Station trial: Satisfactory

Varietal and pathology were and nitrogen and irrigation were satisfactory Maintenance of germplasm 13 nos and purification and maintenance of BVM Seed Prod. Seven composite 1/4 acre, Birsa makka 1/4 acre ,BVM2 1/4 acre for station BLSB & maydis were present

FLD- Ekamba - 15 acre 36 farmers. Crop already harvested.

Coordinated Unit, DMR,

Monitoring team visited the maize programme of DMR. DMR has sown 6 coordinated and 6 other trials (CIMMYT, QPM and DUS trials) and some elite breeding materials. Nucleus seeds of released inbred lines are being produced.

Breeding: Plant growth and stand was good in all materials. Management is also very good. Some of the entries are also showing promise in QPM and CIMMYT trials.

Pathology: PFSR inoculation will be done shortly in the germplasm screening trials and management of PFSR trials through seed treatment with some systemic fungicides and some biocontrol agents.

Entomology: All trials are showing moderate to high incidence. Validation of IPM technology where Dr. D.P. Singh alone is having 32 trials and four trials of Bio control are being handled by him. Seeing this load of work post of Assistant Entomologist may be filled up at the earliest possible.

Pathology: Inoculation for MLB was done but symptoms were not developed. There is no pathologist in the department. It is advisable to fill up the post of Maize Pathologist so that justification can be done to all materials.

Delhi (Breeding)

Monitoring team visited the Delhi centre on 16.9.03. All the trials sent to Delhi centre were sown. Performance of some of the entries are very good.

Plant growth plant stand is good of all trials. Management is also very good. Nucleus and Breeders seed production is also being produced for early maturing hybrids and some composites. Promising entries in different trials are as under:

Trial 61 A:	DMR 622, 623, 626, 627, 637, 639, 640
Tr. 61 B:	DMR 654, 664, 668, 680, 681
Tr. 62:	DMR 555, 576, 583, 585, 586, 588
Tr. 63:	DMR 524, 530, 533
Tr. 64:	DMR 483
Tr. 66:	DMR 328, 330, 332
Tr. 67:	DMR 232, 237, 239, 240, 244
Tr. 69:	DMR 192, 193
Tr. 70:	DMR 168, 169
Tr. 71:	DMR 151, 154
Tr. 201:	DMR 701, 715
Tr. 202:	DMR 730

Delhi (Pathology)

Monitoring team visited Maize Pathology programme on 16.9.03. All trials Tr. 75, 76, 77, 75A, 76A, 77A, QPM 1 & QPM 2 were sown.

Inoculation was done for BLSB and MLB. Symptoms of these diseases were very clear. Some lines are tolerant and susceptible coordinated trials. Trial QPM -1, QPM 2. 44 CIMMYT lines and some materials of Ambionate materials are also showing quite clear symptoms for tolerance and susceptible for MLB and BLSB are as under

For MLB tolerant materials	DMR 1506, 1513, 1514, 1533 and 1701
For MLB susceptible materials	DMR 1512, 1548, 1626 and 1725
For BLSB tolerant materials,	DMR 1818 and 1844
For BLSB susceptible materials	DMR 1508, 1512, 1608 and 1725

Physiology & Agronomy: Number of materials (846) of different trials received from CIMMYT, Mexico and some other materials are being screened for waterlogged conditions. Some of the materials are showing tolerance and susceptibility for waterlogging. Conditions and seed of all the entries are also being maintained separately. Most of the CIMMYT, Mexico materials have adapted well in Delhi conditions. 18 materials are showing tolerance to waterlogged conditions.

Entomology: Tr. No. 75, 76, 77, QPM 1 & 2 were infested artificially and infestation from light to medium was observed. 187 CIMMYT lines, 15 late yellow lines are being maintained. Diallel for full season and early yellow maturity are being made. Cruiser testing trial in maize against termite and sucking with three doses, neem product trial against termite and sucking pest (rainfed) trials are being conducted. Ludhiana also wants to test these 3 trials. It is advised to reconfirm this year data and all these three trials should be tested at Ludhiana also. In general performance of all the materials is good.

Bajaura

Breeding: Crop growth and plant stand of all trials were good. Management is also good. Breeder and nucleus seed production is also being taken up. We visited some FLDs being conducted at Shat, Talada and Shaushi villages.

Pathology: H. turcicum was escaped in some materials because of late receipt of seed materials. BLSB observation in severe condition in natural condition in all trials. In trap nursery the disease incidences on three diseases were noticed. There were no TLB curvularia leaf spot, MLB and BLSB, MLB was high.

Agronomy: NxG trials for medium maturity and early maturity were sown. Growth of entries is good and plant stand is also good. Higher dose of N is responsive. In baby corn trial evaluation of some 12 entries was done. Harvesting was already over before monitoring.

Ludhiana:

Ludhiana maize programme of different disciplines were visited by monitoring team on 18.9.03. All trials sent to Ludhiana were sown from 25.5.03 to 15.7.03.

Breeding: Growth and plant stand of all trials were good except very few entries. Two QPM trials in 1st replicate are good. Seed production programme of all required entries are being taken up nicely. All breeding materials are in very good conditions.

Agronomy: All trials are in good condition. Entries are showing response to high level of nitrogen. Three coordinated and 5 station trials were sown by agronomy discipline

TRIAL NO. 61A ZONE IET FULL SEASON MATURITY

YEAR 2003 KHARIF

NO OF ROWS 2

ROW LENTH 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, ARHAVI, MANDYA, KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA, POC BANGLORE, NAGARJUNA/VIPL, KANCHANGA, SEEDTEC, PROAGRO, PARAS (H. LIV), SYNGENTA, ADARSH AGRINOVA, JK AGRI, MAHYCO, GANGA KAVERI, NATH SEED, BIO SEEDS, SONA SEED, EAGLE SEED, KRISHNA SEED

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	B H - 3294	DMR - 601	HYDERABAD	7204	7271	7316	7324
2	B H - 3300	DMR - 602	HYDERABAD	7206	7276	7285	7354
3	B H - 3306	DMR - 603	HYDERABAD	7224	7254	7304	7336
4	B H - 3309	DMR - 604	HYDERABAD	7219	7257	7300	7348
5	B H - 3315	DMR - 605	HYDERABAD	7228	7277	7311	7358
6	B H - 3437	DMR - 606	HYDERABAD	7241	7256	7319	7347
7	E H - 1259	DMR - 607	UDAIPUR	7212	7251	7310	7342
8	H K H - 1168	DMR - 608	KARNAL	7231	7274	7298	7360
9	H K H - 1211 (Y)	DMR - 609	KARNAL	7229	7282	7306	7326
10	ZA WH - 2	DMR - 610	WINTER NURSSERY	7220	7253	7295	7334
11	J H - 10655	DMR - 611	LUDHIANA	7202	7275	7320	7333
12	DMRFG - 22	DMR - 612	DMR	7210	7259	7305	7328
13	DMRFG - 25	DMR - 613	DMR	7227	7252	7312	7345
14	K M H - 9961	DMR - 614	KOLHAPUR	7208	7273	7314	7341
15	SWS 013 Y - 6 NORMAL	DMR - 615	HYDERABAD	7236	7267	7322	7352
16	A H - 23065	DMR - 616	DELHI	7211	7255	7315	7329
17	P R O - 363	DMR - 617	PROAGRO	7222	7250	7288	7361
18	B I O - 20228	DMR - 618	BIOSEED	7201	7247	7309	7325
19	BISCO - 911	DMR - 619	BISCO SEED	7234	7266	7307	7364
20	SEEDTEC - 661	DMR - 620	SEEDTEC	7214	7245	7286	7331
21	SEEDTEC - 2324 (CHEC)	DMR - 621	SEEDTEC	7213	7260	7293	7338
22	S G M H - 102	DMR - 622	SONA SEEDS	7239	7270	7283	7343
23	V I P L - 1902	DMR - 623	NAGARJUNA	7207	7264	7294	7356
24	A A M H - 531	DMR - 624	ADARSH AGRINOVA	7218	7262	7296	7327
25	X 1282 X	DMR - 625	POC BANG.	7226	7268	7318	7346
26	J K M H - 013	DMR - 626	JK AGRI	7237	7243	7313	7353
27	N E C H - 125	DMR - 627	SYNGENTA	7215	7249	7321	7359
28	K D M H - 3437	DMR - 628	KRISHNA SEEDS	7230	7248	7299	7349
29	S S F - X 86	DMR - 629	S S F	7238	7265	7289	7332

cont.

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
30	X - 2007	DMR - 630	KANCHANGANGA	7223	7281	7303	7363
31	G K 3049	DMR - 631	GANGA KAVERI	7240	7261	7301	7340
32	M - 0324	DMR - 632	MAHYCO	7225	7278	7290	7337
33	EAGLE - 9	DMR - 633	EAGLE SEEDS	7233	7272	7287	7344
34	M C H - 8	DMR - 634	MONSANTO PARR	7221	7280	7292	7357
35	M C H - 13	DMR - 635	MONSANTO PARR	7205	7242	7297	7350
36	G F - 2008	DMR - 636	GREEN FOUNDATION	7235	7244	7291	7339
37	G F - 2012	DMR - 637	GREEN FOUNDATION	7209	7246	7302	7351
	CHECKS:						
38	PRO - 311	DMR - 638	PROAGRO	7217	7258	7284	7362
39	BIO - 9681	DMR - 639	BIO SEED'S	7203	7269	7317	7355
40	PARBHAT	DMR - 640	LUDHIANA	7232	7279	7323	7335
41	GANGA - 11	DMR - 641	NSC	7216	7263	7308	7330

TRIAL NO. 61B ZONE IET FULL SEASON MATURITY

YEAR 2003 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, POC BANGLORE, NAGARJUNA/VIPL, KANCHANGA, SEEDTEC, PROAGRO, PARAS (H.LIV), SYNGENTA, ADARSH AGRINOVA, JK AGRI, MAHYCO, GANGA KAVERI, NATH SEED, BIO SEEDS, SONA SEED, EAGLE SEED, KRISHNA SEED

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4 *@
1	(FILLER)	DMR - 651		7421	7442	7516	7131
2	B H - 3297	DMR - 652	HYDERABAD	7417	7444	7490	7128
3	B H - 3301	DMR - 653	HYDERABAD	7436	7462	7508	7148
4	B H - 3307	DMR - 654	HYDERABAD	7431	7447	7503	7144
5	B H - 3313	DMR - 655	HYDERABAD	7428	7476	7500	7154
6	B H - 3316	DMR - 656	HYDERABAD	7401	7467	7491	7159
7	B H - 3439	DMR - 657	HYDERABAD	7435	7479	7492	7134
8	H K H - 1129	DMR - 658	KARNAL	7420	7454	7507	7143
9	H K H - 1201 (W)	DMR - 659	KARNAL	7434	7446	7494	7153
10	H K H - 1217	DMR - 660	KARNAL	7403	7471	7509	7156
11	J H - 10589	DMR - 661	LUDHIANA	7438	7456	7488	7149
12	J C - 1441 C3 FS	DMR - 662	LUDHIANA	7424	7468	7506	7137
13	DMRFG - 23	DMR - 663	DMR	7413	7441	7519	7150
14	DMRFG - 26	DMR - 664	DMR	7427	7455	7482	7136
15	M C - 03-1	DMR - 665	DHOLI	7432	7452	7520	7152
16	A H - 23049	DMR - 666	DELHI	7412	7451	7513	7125
17	V E H - 310101	DMR - 667	VARANASI	7407	7464	7487	7138
18	P R O - 360	DMR - 668	PROAGRO	7418	7460	7504	7151
19	P M Z - 235	DMR - 669	PARAS SEEDS	7439	7458	7497	7127
20	BISCO - 715	DMR - 670	BISCO SEED	7406	7475	7485	7155
21	SEEDTEC - 662	DMR - 671	SEEDTEC	7404	7443	7484	7124
22	SEEDTEC - 2324	DMR - 672	SEEDTEC	7408	7469	7498	7141
23	V I P L - 1806	DMR - 673	NAGARJUNA	7430	7473	7486	7157
24	A A M H - 475	DMR - 674	ADARSH AGRINOVA	7440	7466	7502	7133
25	X 1282 T	DMR - 675	POC BANG.	7402	7474	7501	7132
26	J K M H - 370-2	DMR - 676	JK AGRI	7422	7472	7489	7139
27	N E C H - 124	DMR - 677	SYNGENTA	7405	7453	7510	7122
28	M C H - 11	DMR - 678	MONSANTO	7433	7450	7499	7140

cont.

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4 *@
29	S S F - X 2002	DMR - 679	S S F	7437	7470	7511	7123
30	X - 2004	DMR - 680	KANCHANGANGA	7419	7478	7496	7135
31	N M H - 1033	DMR - 681	NATH SEED	7411	7480	7512	7158
32	G K 3050	DMR - 682	GANGA KAVERI	7415	7449	7517	7121
33	M - 0327	DMR - 683	MAHYCO	7425	7465	7514	7147
34	M C H - 12	DMR - 684	MONSANTO	7426	7448	7495	7146
35	G F - 2007	DMR - 685	GREAN FOUNDATION	7416	7461	7505	7142
36	G F - 2009	DMR - 686	GREAN FOUNDATION	7429	7477	7518	7130
	CHECKS:						
37	PRO - 311	DMR - 687	PROAGRO	7423	7459	7481	7145
38	BIO - 9681	DMR - 688	BIO SEED'S	7414	7445	7515	7126
39	PARBHAT	DMR - 689	LUDHIANA	7410	7463	7483	7160
40	GANGA - 11	DMR - 690	NSC	7409	7457	7493	7129

*@ : READ LAST REPLICATION (FOURTH REPLICATION) AS 75 HUNDRED SERIES INSTEAD OF 71 HUNDRED SERIES. ON ENVELOP IT IS PRINTED AS 71 HUNDRED SERIES TO AVOID DUPLICATE PLOT NUMBER FROM OTHER TRIAL .

TRIAL NO. 62 IET MEDIUM MATURITY

YEAR 2003 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, BIO SEEDS, PARAS SEED, SEEDTEC, NAGARJUNA/VIPUL, JK AGRI, ADARSH AGRINOVA, SYNGENTA, KANCHANGANGA KAVERI SEEDS, NATH SEED, MAHARASTRA STATE

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	B H - 3298	DMR - 551	HYDEARBAD	7032	7051	7101	7135
2	B H - 3299	DMR - 552	HYDEARBAD	7016	7054	7099	7159
3	B H - 3443	DMR - 553	HYDEARBAD	7026	7076	7105	7145
4	CHH - 202	DMR - 554	CHHINDWARA	7020	7055	7118	7153
5	J H - 10362	DMR - 555	LUDHIANA	7012	7068	7091	7136
6	J C - 1456	DMR - 556	LUDHIANA	7039	7056	7086	7154
7	J C - 1459	DMR - 557	LUDHIANA	7013	7078	7098	7156
8	H K H - 1200	DMR - 558	KARNAL	7017	7070	7106	7143
9	L - 182	DMR - 559	BAJAURA	7003	7075	7087	7160
10	L - 134	DMR - 560	BAJAURA	7034	7065	7094	7126
11	A H - 23007	DMR - 561	DELHI	7002	7041	7088	7148
12	A H - 23071	DMR - 562	DELHI	7021	7052	7104	7152
13	A H - 24008	DMR - 563	DELHI	7023	7066	7113	7139
14	A H - 24020	DMR - 564	DELHI	7006	7069	7103	7127
15	B I O - 22069	DMR - 565	BIOSEED	7035	7058	7083	7128
16	B I O - 22045	DMR - 566	BIOSEED	7010	7074	7109	7123
17	P M Z - 136	DMR - 567	PARAS SEED	7036	7057	7114	7157
18	BISCO - 0101	DMR - 568	BISCO SEED	7019	7064	7119	7125
19	BISCO - 0102	DMR - 569	BISCO SEED	7014	7050	7102	7131
20	SEEDTEC - 663	DMR - 570	SEEDTEC	7001	7048	7115	7140
21	SEEDTEC - 2437	DMR - 571	SEEDTEC	7037	7080	7100	7122
22	V I P L - 1501	DMR - 572	NAGARJUNA	7018	7059	7111	7134
23	V I P L - 1503	DMR - 573	NAGARJUNA	7038	7071	7090	7130
24	A A M H - 831	DMR - 574	ADARSH AGRINOVA	7008	7042	7107	7146
25	A A M H - 574	DMR - 575	ADARSH AGRINOVA	7009	7044	7112	7155
26	J K M H - 207	DMR - 576	JK AGRI	7011	7073	7082	7142
27	J K M H - 1512	DMR - 577	JK AGRI	7029	7067	7097	7151
28	N E C H - 126	DMR - 578	SYNGENTA	7028	7060	7117	7147

cont.

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
29	N E C H - 127	DMR - 579	SYNGENTA	7033	7077	7110	7133
30	S S F - X 87	DMR - 580	S S F	7040	7062	7081	7132
31	KH 510 (CHECK)	DMR - 581	KANCHAN GANGA	7027	7063	7120	7144
32	NAVJOT (CHECK)	DMR - 582	LUDHIANA	7015	7043	7089	7150
33	S S F - X 88	DMR - 583	S S F	7022	7046	7108	7158
34	X - 2005	DMR - 584	KANCHANGANGA	7024	7061	7096	7121
35	X - 2003 A	DMR - 585	KANCHANGANGA	7031	7047	7092	7138
36	KAVERI - 2288	DMR - 586	KAVERI SEEDS	7025	7053	7095	7149
37	N M H - 1034	DMR - 587	NATH SEED	7005	7079	7085	7137
38	S M H - 3758	DMR - 588	SHAKTI SEEDS	7007	7049	7084	7141
39	MAHABEEJ - 1100	DMR - 589	MAHARASTRATE	7004	7045	7093	7129
40	MAHABEEJ - 1102	DMR - 590	MAHARASTRATE	7030	7072	7116	7124

TRIAL NO. 63 ZONE IET EARLY MATURITY

YEAR 2003 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, PROAGRO, BIO SEEDS, SEEDTEC, ADARSH AGRINOVA, POC (GAZIABAD) JK AGRI, MONSANTO, KANCHANGANGA, KAVERI SEEDS

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	A H - 24007	DMR - 501	DELHI	6833	6863	6917	6926
2	A H - 24012	DMR - 502	DELHI	6801	6842	6888	6923
3	A H - 23015	DMR - 503	DELHI	6802	6846	6886	6937
4	A H - 23041	DMR - 504	DELHI	6808	6849	6909	6938
5	J H - 31005	DMR - 505	LUDHIANA	6820	6869	6897	6941
6	E H - 1265	DMR - 506	UDAIPUR	6803	6854	6882	6935
7	E H - 1297	DMR - 507	UDAIPUR	6827	6864	6902	6934
8	E H - 1318	DMR - 508	UDAIPUR	6815	6841	6881	6936
9	F H - 3259	DMR - 509	ALMORA	6812	6856	6896	6932
10	F H - 3239	DMR - 510	ALMORA	6813	6858	6916	6949
11	F H - 3246	DMR - 511	ALMORA	6826	6844	6899	6920
12	H K H - 1176	DMR - 512	KARNAL	6825	6861	6883	6925
13	CHH - 210	DMR - 513	CHHINDWARA	6836	6877	6898	6945
14	BVM - 5 COMP.	DMR - 514	RANCHI	6834	6876	6887	6948
15	BVM - 6 COMP.	DMR - 515	RANCHI	6831	6847	6906	6954
16	R - 03/702	DMR - 516	KANPUR	6819	6859	6901	6944
17	P R O - 361	DMR - 517	PRPAGRO	6810	6874	6910	6927
18	P R O - 362	DMR - 518	PRPAGRO	6828	6848	6893	6953
19	B I O - 20171	DMR - 519	BIOSEED	6816	6852	6879	6947
20	P M Z - 138	DMR - 520	PARAS SEED	6824	6850	6892	6929
21	BISCO - 2435	DMR - 521	BISCO SEED	6838	6867	6912	6933
22	BISCO - 1881	DMR - 522	BISCO SEED	6807	6870	6915	6928
23	SEEDTEC - 2041	DMR - 523	SEEDTEC	6818	6862	6905	6946
24	SEEDTEC - 2031	DMR - 524	SEEDTEC	6821	6872	6895	6951
25	S G M H - 101	DMR - 525	SONA SEEDS	6837	6860	6900	6919
26	A A M H - 133	DMR - 526	ADARSH AGRINOVA	6804	6851	6884	6955
27	A A M H - 138	DMR - 527	ADARSH AGRINOVA	6811	6866	6894	6924
28	X 1182 D	DMR - 528	POC BANNG.	6839	6855	6880	6950

cont.

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
29	X 1182 K	DMR - 529	POC BANNG.	6814	6865	6890	6940
30	J K M H - 1701	DMR - 530	JK AGRI	6805	6843	6908	6943
31	J K M H - 062	DMR - 531	JK AGRI	6829	6875	6913	6931
32	M C H - 15	DMR - 532	MONSANTO	6835	6857	6885	6921
33	S S F - X 2098	DMR - 533	S S F	6806	6871	6889	6952
34	X - 612	DMR - 534	KANCHANGANGA	6822	6878	6911	6956
35	X - 2097	DMR - 535	KANCHANGANGA	6817	6845	6914	6942
36	KAVERI - 2020	DMR - 536	KAVERI SEEDS	6823	6853	6907	6930
	CHECKS:						
37	X - 3342	DMR - 537	POC	6830	6868	6891	6939
38	MAHI KANCHAN	DMR - 538	UDAIPUR	6809	6873	6903	6922
39	KIRAN	DMR - 539	LUDHIANA	6832	6840	6904	6918
40	J H - 31036	DMR - 540	LUDHIANNA	6832A	6840A	6904A	6918A

TRIAL NO. 64 ZONE IET EXTRA EARLY MATURITY

YEAR 2003 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, J K AGRI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	A H - 23021	DMR - 471	DELHI	6708	6722	6742	6755
2	A H - 23025	DMR - 472	DELHI	6707	6723	6744	6759
3	A H - 23029	DMR - 473	DELHI	6712	6730	6739	6746
4	A H - 23035	DMR - 474	DELHI	6715	6724	6736	6760
5	A H - 23039	DMR - 475	DELHI	6709	6727	6741	6754
6	F H - 3211	DMR - 476	ALMORA	6711	6716	6731	6758
7	DEH - 10103	DMR - 477	PANTNAGAR	6703	6719	6735	6753
8	DEH - 10303	DMR - 478	PANTNAGAR	6710	6721	6732	6750
9	DEH - 10503	DMR - 479	PANTNAGAR	6705	6720	6738	6752
10	DEH - 11303	DMR - 480	PANTNAGAR	6701	6729	6737	6748
11	H K H - 1183	DMR - 481	KARNAL	6704	6717	6740	6757
12	BVM - 7 COMP.	DMR - 482	RANCHI	6702	6726	6734	6751
13	J K M H - 204-1	DMR - 483	JK AGRI	6714	6728	6733	6749
	CHECKS :-						
14	HIM - 129	DMR - 484	ALMORA	6706	6718	6745	6756
15	SURYA	DMR - 485	PANTNAGAR	6713	6725	6743	6747

TRIAL NO. 65 AET 1st YEAR ZONE 4 FULL SEASON MATURITY

YEAR 2003 KHARIF

NO OF ROWS 4

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR
COIMBATORE, BIO SEEDS, ADVANTA, SYNGENTA,
KANCHANGANGA

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B H - 2355	4	DMR - 401	HYDERABAD	6405	6435	6483	6507
2	B H - 2358	4	DMR - 402	HYDERABAD	6411	6430	6477	6494
3	B H - 2523	4	DMR - 403	HYDERABAD	6407	6437	6462	6488
4	B H - 2528	4	DMR - 404	HYDERABAD	6404	6436	6481	6508
5	B H - 2356	4	DMR - 405	HYDERABAD	6402	6453	6482	6502
6	B H - 2202	4	DMR - 406	HYDERABAD	6426	6451	6480	6504
7	B I O - 20212	4	DMR - 407	BIOSEED	6413	6442	6459	6512
8	ROBUST	4	DMR - 408	PARAS SEED	6415	6431	6484	6509
9	BISCO - 902	4	DMR - 409	BISCO SEED	6417	6444	6470	6505
10	A A M H - 459	4	DMR - 410	ADARSH AGRINOVA	6428	6429	6473	6487
11	P A C - 71061	4	DMR - 411	ADVANTA	6406	6454	6476	6500
12	P A C - 71062	4	DMR - 412	ADVANTA	6425	6447	6469	6506
13	X 1231 H	4	DMR - 413	POC BANG.	6416	6450	6461	6493
14	POOJA	4	DMR - 414	JK AGRI	6401	6441	6467	6490
15	N E C H - 117	4	DMR - 415	SYNGENTA	6420	6438	6468	6492
16	N E C H - 118	4	DMR - 416	SYNGENTA	6418	6439	6460	6501
17	M C H - 1	4	DMR - 417	MONSANTO	6427	6433	6475	6503
18	M C H - 2	4	DMR - 418	MONSANTO	6424	6455	6457	6486
19	M C H - 3	4	DMR - 419	PARRY MONSANTO	6409	6445	6474	6496
20	M C H - 4	4	DMR - 420	PARRY MONSANTO	6422	6452	6464	6497
21	X - 2001	4	DMR - 421	KANCHANGANGA	6412	6456	6471	6491
22	G K - 3046	4	DMR - 422	GANGA KAVERI	6419	6449	6465	6489
23	SEEDTEC-C 11	4	DMR - 423	SEEDTEC	6410	6448	6458	6495
24	SEEDTEC-C 12	4	DMR - 424	SEEDTEC	6423	6443	6472	6499
CHECKS:								
25	PRO - 311	4	DMR - 425	PROAGRO	6414	6434	6466	6510
26	BIO - 9681	4	DMR - 426	BIO SEED'S	6403	6432	6463	6485
27	PARBHAT	4	DMR - 427	LUDHIANA	6421	6440	6478	6498
28	GANGA - 11	4	DMR - 428	NSC	6408	6446	6479	6511

TRIAL NO. 65 AET 1st YEAR ZONE - 5 FULL SEASON MATURITY
 YEAR 2003 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 - 01410	5	DMR - 431	DELHI	6560	6593	6643	6658
2	A H - 01415	5	DMR - 432	DELHI	6555	6617	6623	6682
3	B H - 2355	5	DMR - 433	HYDERABAD	6552	6614	6638	6661
4	B H - 2358	5	DMR - 434	HYDERABAD	6569	6599	6642	6678
5	B H - 2523	5	DMR - 435	HYDERABAD	6576	6586	6637	6667
6	B H - 2528	5	DMR - 436	HYDERABAD	6562	6610	6644	6677
7	B H - 2348	5	DMR - 437	HYDERABAD	6564	6607	6649	6673
8	B H - 2356	5	DMR - 438	HYDERABAD	6578	6590	6640	6675
9	B H - 2854	5	DMR - 439	HYDERABAD	6551	6589	6647	6685
10	B H - 2202	5	DMR - 440	HYDERABAD	6574	6603	6641	6688
11	H K H - 1215	5	DMR - 441	KARNAL	6565	6602	6646	6674
12	B I O - 20212	5	DMR - 442	BIOSEKD	6559	6594	6629	6664
13	ROBUST	5	DMR - 443	PARAS SEED	6561	6618	6654	6683
14	BISCO - 902	5	DMR - 444	BISCO SEED	6572	6587	6624	6676
15	ZAURI - 2009	5	DMR - 445	ZAURI SEEDS	6556	6612	6653	6686
16	A A M H - 459	5	DMR - 446	ADARSH AGRINOVA	6584	6598	6631	6665
17	X 1280 B	5	DMR - 447	POC BANG.	6583	6616	6639	6687
18	X 1231 H	5	DMR - 448	POC BANG.	6582	6613	6652	6663
19	POOJA	5	DMR - 449	JK AGRI	6563	6606	6650	6662
20	N E C H - 117	5	DMR - 450	SYNGENTA	6557	6592	6621	6666
21	N E C H - 118	5	DMR - 451	SYNGENTA	6571	6615	6622	6659
22	M C H - 1	5	DMR - 452	MONSANTO	6580	6611	6633	6669
23	M C H - 2	5	DMR - 453	MONSANTO	6585	6588	6635	6684
24	M C H - 3	5	DMR - 454	PARRY MONSANTO	6553	6596	6634	6689
25	M C H - 4	5	DMR - 455	PARRY MONSANTO	6581	6619	6632	6660
26	G K - 3046	5	DMR - 456	GANGA KAVERI	6570	6604	6630	6672
27	G K - 3047	5	DMR - 457	GANGA KAVERI	6573	6620	6628	6656
28	P A C - 71061	5	DMR - 458	ADVANTA	6567	6608	6636	6668
29	P A C - 71062	5	DMR - 459	ADVANTA	6568	6605	6648	6680
30	X - 2001	5	DMR - 460	KANCHANGANGA	6575	6600	6627	6671
31	SEEDTEC - C 12	5	DMR - 461	SEEDTEC	6577	6595	6651	6657
CHECKS:								
32	PRO - 311	5	DMR - 462	PROAGRO	6558	6609	6626	6681
33	BIO - 9681	5	DMR - 463	BIO SEED'S	6566	6597	6655	6690
34	PARBHAT	5	DMR - 464	LUDHIANA	6554	6601	6625	6679
35	GANGA - 11	5	DMR - 465	NSC	6579	6591	6645	6670

TRIAL NO. 66 AET 1st YEAR ZONE -1 MEDIUM MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 4
 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
1	P M Z - 131 (RETESTING)	1	DMR - 321	PARAS SEED	6002	6008	6014	6016
2	ZAURI - 2027	1	DMR - 322	ZAURI SEEDS	6005	6009	6011	6018
3	ZAURI - 2021	1	DMR - 323	ZAURI SEEDS	6001	6007	6013	6019
CHECKS:								
4	KH 510	1	DMR - 324	KANCHAN GANGA	6004	6006	6015	6017
5	NAVJOT	1	DMR - 325	LUDHIANA	6003	6010	6012	6020

TRIAL NO. 66 AET 1st YEAR ZONE -2 MEDIUM MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 4
 ROW LENTH 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	B H - 2359	2	DMR - 326	HYDERABAD	6057	6064	6074	6077
2	B H - 2809	2	DMR - 327	HYDERABAD	6051	6060	6070	6081
3	H K H - 1203	2	DMR - 328	KARNAL	6055	6065	6068	6078
4	H K H - 1208	2	DMR - 329	KARNAL	6054	6066	6067	6080
5	SEEDTEC - 1081	2	DMR - 330	SEEDTEC	6052	6062	6072	6082
6	ZAURI - 2027	2	DMR - 331	ZAURI SEEDS	6056	6063	6071	6079
CHECKS:								
7	KH 510	2	DMR - 332	KANCHAN GANGA	6058	6061	6069	6076
8	NAVJOT	2	DMR - 333	LUDHIANA	6053	6059	6073	6075

TRIAL NO. 66 AET 1st YEAR ZONE 3 MEDIUM MATURITY

YEAR 2003 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	B H - 2359	3	DMR - 336	HYDERABAD	6103	6123	6127	6140
2	B H - 2809	3	DMR - 337	HYDERABAD	6105	6114	6130	6143
3	E H - 30624	3	DMR - 338	UDAIPUR	6106	6124	6128	6141
4	H K H - 1208	3	DMR - 339	KARNAL	6110	6121	6132	6138
5	B I O - 22027	3	DMR - 340	BIOSEED	6101	6115	6126	6137
6	P M Z - 131 (RETESTING)	3	DMR - 341	PARAS SEED	6111	6119	6136	6148
7	SEEDTEC - 1081	3	DMR - 342	SEEDTEC	6108	6118	6125	6146
8	ZAURI - 2027	3	DMR - 343	ZAURI SEEDS	6102	6122	6133	6147
9	A A M H - 513	3	DMR - 344	ADARSH AGRINOVA	6107	6120	6129	6142
10	N E C H - 120	3	DMR - 345	SYNGENTA	6109	6113	6131	6145
CHECKS:								
11	KH 510	3	DMR - 346	KANCHAN GANGA	6112	6117	6134	6139
12	NAVJOT	3	DMR - 347	LUDHIANA	6104	6116	6135	6144

TRIAL NO. 66 AET 1st YEAR ZONE 4 MEDIUM MATURITYO

YEAR 2003 KHARIF

NO OF ROWS 4

ROW LENTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE,
SEEDTEC, ZAURI SEEDS, SYNGENTA, PARRY MONSANTO

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B H - 2359	4	DMR - 351	HYDERABAD	6202	6232	6266	6281
2	B H - 2809	4	DMR - 352	HYDERABAD	6218	6234	6262	6286
3	E C - 3121	4	DMR - 353	UDAIPUR	6220	6241	6269	6288
4	WC - 14 - 1 (DBM)	4	DMR - 354	BANSWARA	6204	6244	6268	6283
5	H K H - 1203	4	DMR - 355	KARNAL	6211	6235	6259	6279
6	H K H - 1208	4	DMR - 356	KARNAL	6219	6245	6249	6282
7	L - 166	4	DMR - 357	BAJAURA	6214	6233	6248	6285
8	P M Z - 237	4	DMR - 358	PARAS SEED	6205	6225	6267	6272
9	P M Z - 131 (RETESTING)	4	DMR - 359	PARAS SEED	6210	6236	6253	6276
10	BISCO - 1102	4	DMR - 360	BISCO SEED	6209	6224	6264	6275
11	BISCO - 201	4	DMR - 361	BISCO SEED	6213	6231	6257	6280
12	SEEDTEC - 1081	4	DMR - 362	SEEDTEC	6212	6228	6263	6277
13	SEEDTEC - 168	4	DMR - 363	SEEDTEC	6215	6230	6256	6270
14	ZAURI - 2027	4	DMR - 364	ZAURI SEEDS	6222	6239	6254	6284
15	A A M H - 513	4	DMR - 365	ADARSH AGRINOVA	6207	6240	6258	6289
16	X 1280 A	4	DMR - 366	POC BANG.	6208	6238	6251	6287
17	J K M H - 1001	4	DMR - 367	J K AGRI	6216	6243	6252	6274
18	N E C H - 120	4	DMR - 368	SYNGENTA	6221	6226	6250	6290
19	X - 26	4	DMR - 369	KANCHANGANGA	6201	6237	6265	6278
20	N M H - 20507	4	DMR - 370	NATH SEED	6217	6246	6247	6292
21	M C H - 7	4	DMR - 371	PARRY MONSANTO	6223	6229	6260	6291
CHECKS:								
22	KH 510	4	DMR - 372	KANCHAN GANGA	6203	6242	6255	6273
23	NAVJOT	4	DMR - 373	LUDHIANA	6206	6227	6261	6271

TRIAL NO. 66 AET 1st YEAR ZONE 5 MEDIUM MATURITY

YEAR 2003 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	B H - 2359	5	DMR - 376	HYDERABAD	6314	6330	6344	6372
2	B H - 2809	5	DMR - 377	HYDERABAD	6319	6337	6354	6361
3	E C - 3121	5	DMR - 378	UDAIPUR	6309	6322	6343	6380
4	E C - 3122	5	DMR - 379	UDAIPUR	6310	6328	6356	6378
5	H K H - 1208	5	DMR - 380	KARNAL	6301	6338	6355	6364
6	B I O - 22027	5	DMR - 381	BIOSEED	6318	6340	6359	6379
7	P M Z - 237	5	DMR - 382	PARAS SEED	6305	6325	6347	6375
8	BISCO - 201	5	DMR - 383	BISCO SEED	6311	6334	6360	6374
9	SEEDTEC - 1081	5	DMR - 384	SEEDTEC	6312	6333	6358	6371
10	SEEDTEC - 168	5	DMR - 385	SEEDTEC	6316	6326	6342	6368
11	ZAURI - 2027	5	DMR - 386	ZAURI SEEDS	6315	6327	6353	6365
12	A A M H - 513	5	DMR - 387	ADARSH AGRINOVA	6320	6329	6351	6362
13	A A M H - 511	5	DMR - 388	ADARSH AGRINOVA	6302	6332	6341	6367
14	X 1280 A	5	DMR - 389	POC HANG.	6303	6331	6350	6366
15	J K M H - 1001	5	DMR - 390	J K AGRI	6304	6335	6346	6370
16	N E C H - 119	5	DMR - 391	SYNGENTA	6307	6321	6357	6377
17	X - 26	5	DMR - 392	KANCHANGANGA	6306	6323	6348	6376
18	N M H - 20507	5	DMR - 393	NATH SEED	6308	6339	6352	6363
	CHECKS:							
19	KH 510	5	DMR - 394	KANCHAN GANGA	6317	6324	6345	6369
20	NAVJOT	5	DMR - 395	LUDHIANA	6313	6336	6349	6373

TRIAL NO. 67 AET 1st YEAR ZONE -2 EARLY MATURITY

YEAR 2003 KHARIF

NO OF ROWS 4

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION:

BREEDING:

DELHI, LUDHIANA, (2 SET) PANTNAGAR, (2 SET) KANPUR, (2 SET) KARNAL,

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	H K H - 1185	2	DMR - 231	KARNAL	5614	5625	5637	5649
2	H K H - 1210	2	DMR - 232	KARNAL	5606	5618	5644	5655
3	F H - 3210	2	DMR - 233	ALMORA	5604	5623	5639	5657
4	P R O - 358	2	DMR - 234	PROAGRO	5601	5626	5645	5658
5	BISCO - 204	2	DMR - 235	BISCO SEED	5609	5621	5632	5659
6	X 1150 Z	2	DMR - 236	POC BANG.	5610	5627	5631	5647
7	J K M H - 810	2	DMR - 237	J K AGRI	5613	5619	5638	5656
8	M C H - 5	2	DMR - 238	MONSANTO	5602	5620	5636	5660
9	X - 2182	2	DMR - 239	KANCHANGANGA	5607	5629	5641	5652
10	X - 2185	2	DMR - 240	KANCHANGANGA	5612	5622	5642	5650
	CHECKS :-							
11	X - 3342	2	DMR - 241	POC	5608	5630	5643	5654
12	KIRAN	2	DMR - 242	LUDHIANA	5603	5624	5634	5648
13	MAHI KANCHAN	2	DMR - 243	UDAIPUR	5615	5617	5633	5646
14	HIM - 129	2	DMR - 244	ALMORA	5605	5616	5635	5651
15	SURYA	2	DMR - 245	PANTNAGAR	5611	5628	5640	5653
16	J H - 3851	2	DMR - 245A	PANTNAGAR	5611A	5628A	5640A	5653A

TRIAL NO. 67 AET 1st YEAR ZONE 3 EARLY MATURITY

YEAR 2003 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	P R O - 357	3	DMR - 251	PROAGRO	5711	5746	5763	5784
2	P R O - 358	3	DMR - 252	PROAGRO	5722	5740	5761	5791
3	BISCO - 204	3	DMR - 253	BISCO SEED	5701	5734	5762	5783
4	SEEDTEC - 122	3	DMR - 254	SEEDTEC	5707	5728	5758	5787
5	P A C - 71006	3	DMR - 255	ADVANTA	5719	5727	5766	5771
6	X 1150 Z	3	DMR - 256	POC BANG.	5710	5735	5756	5788
7	J K M H - 810	3	DMR - 257	J K AGRI	5721	5744	5768	5776
8	M C H - 6	3	DMR - 258	MONSANTO	5723	5732	5755	5790
9	K M H - 3	3	DMR - 259	KARIMNAGAR	5708	5726	5757	5772
10	K M H - 9	3	DMR - 260	KARIMNAGAR	5713	5731	5748	5782
11	X - 2182	3	DMR - 261	KANCHANGANGA	5720	5729	5754	5786
12	X - 2185	3	DMR - 262	KANCHANGANGA	5717	5724	5765	5785
13	P R O - 356	3	DMR - 263	PROAGRO	5715	5733	5767	5780
14	H K H - 1185	3	DMR - 264	KARNAL	5716	5741	5750	5773
15	H K H - 1210	3	DMR - 265	KARNAL	5702	5738	5764	5775
16	BISCO - 2051	3	DMR - 266	BISCO SEED	5714	5745	5769	5778
17	SEEDTEC - 205	3	DMR - 267	SEEDTEC	5704	5736	5753	5777
18	F H - 3210	3	DMR - 268	ALMORA	5705	5743	5751	5781
	CHECKS :-							
19	X - 3342	3	DMR - 269	POC	5712	5730	5747	5789
20	KIRAN	3	DMR - 270	LUDHIANA	5709	5725	5752	5774
21	MAHI KANCHAN	3	DMR - 271	UDAIPUR	5706	5739	5760	5770
22	HIM - 129	3	DMR - 272	ALMORA	5718	5737	5749	5779
23	SURYA	3	DMR - 273	PANTNAGAR	5703	5742	5759	5792
24	J H - 3851	3	DMR - 273A	LUDHIANA	5703A	5742A	5759A	5792A

TRIAL NO. 67 AET 1st YEAR ZONE 4 EARLY MATURITY

YEAR 2003 KHARIF

NO OF ROWS 4

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE ,
MONSANTO, PARAS SEED*, SEEDTEC*, ZAURI SEED'S*, JK AGRI*

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B H - 2862	4	DMR - 281	HYDERABAD	5805	5835	5848	5872
2	P R O - 358	4	DMR - 282	PROAGRO	5817	5829	5858	5880
3	P M Z - 135	4	DMR - 283	PARAS SEED	5809	5828	5849	5866
4	BISCO - 204	4	DMR - 284	BISCO SEED	5804	5832	5841	5877
5	SEEDTEC - 114	4	DMR - 285	SEEDTEC	5810	5827	5846	5874
6	SEEDTEC - 122	4	DMR - 286	SEEDTEC	5819	5823	5859	5868
7	ZAURI - 2052	4	DMR - 287	ZAURI SEEDS	5811	5830	5842	5862
8	ZAURI - 2054	4	DMR - 288	ZAURI SEEDS	5815	5839	5855	5873
9	J K M H - 810	4	DMR - 289	J K AGRI	5820	5825	5852	5869
10	M C H - 5	4	DMR - 290	MONSANTO	5802	5831	5844	5875
11	M C H - 6	4	DMR - 291	MONSANTO	5816	5826	5857	5878
12	K M H - 3	4	DMR - 292	KARIMNAGAR	5808	5837	5860	5876
13	K M H - 5	4	DMR - 293	KARIMNAGAR	5812	5836	5853	5864
14	K M H - 9	4	DMR - 294	KARIMNAGAR	5818	5824	5847	5861
15	X - 2182	4	DMR - 295	KANCHANGANGA	5801	5840	5854	5863
16	X - 2185	4	DMR - 296	KANCHANGANGA	5803	5833	5845	5867
	CHECKS:							
17	X - 3342	4	DMR - 297	POC	5806	5838	5843	5865
18	KIRAN	4	DMR - 298	LUDHIANA	5807	5821	5850	5870
19	HIM - 129	4	DMR - 299	ALMORA	5813	5822	5856	5871
20	MAHI KANCHAN	4	DMR - 300	UDAIPUR	5814	5834	5851	5879

* PLANT OTHER THAN HYDERBAD AND BANGLORE LOCATION.

TRIAL NO. 67 AET 1st YEAR ZONE 5 EARLY MATURITY

YEAR 2003 KHARIF

NO OF ROWS 4

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

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

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B H - 2862	5	DMR - 301	HYDERABAD	5918	5923	5941	5969
2	P R O - 358	5	DMR - 302	PROAGRO	5914	5922	5938	5960
3	P M Z - 135	5	DMR - 303	PARAS SEED	5903	5932	5942	5970
4	BISCO - 204	5	DMR - 304	BISCO SEED	5907	5936	5937	5959
5	SEEDTEC - 122	5	DMR - 305	SEEDTEC	5906	5920	5954	5955
6	ZAURI - 2054	5	DMR - 306	ZAURI SEEDS	5916	5924	5950	5972
7	X 1150 Z	5	DMR - 307	POC BANG.	5901	5928	5939	5966
8	J K M H - 810	5	DMR - 308	J K AGRI	5913	5927	5948	5958
9	M C H - 6	5	DMR - 309	MONSANTO	5915	5935	5949	5964
10	K M H - 2	5	DMR - 310	KARIMNAGAR	5905	5925	5947	5957
11	X - 2182	5	DMR - 311	KANCHANGANGA	5902	5929	5952	5971
12	X - 2185	5	DMR - 312	KANCHANGANGA	5908	5926	5943	5956
13	P R O - 356	5	DMR - 313	PROAGRO	5904	5934	5944	5967
	CHECKS:							
14	X - 3342	5	DMR - 314	POC	5912	5921	5953	5963
15	KIRAN	5	DMR - 315	LUDHIANA	5911	5919	5946	5965
16	MAHI KANCHAN	5	DMR - 316	UDAIPUR	5917	5930	5940	5968
17	HIM - 129	5	DMR - 317	ALMORA	5909	5933	5951	5961
18	SURYA	5	DMR - 318	PANTNAGAR	5910	5931	5945	5962
19	J H - 3851	5	DMR - 318A	LUDHIANA	5910A	5931A	5945A	5962A

TRIAL NO. 69 AET 2nd YEAR ZONE - 2, FULL SEASON MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION :
 BREEDING

DELHI, LUDHIANA, (2 SETS) PANTNAGAR, (2 SETS)
 KANPUR, (2 SETS), KARNAL, MONSANTO *

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F 9572 A	2	DMR - 191	MONSANTO	5403	5409	5415	5416
	CHECKS:							
2	PRO - 311	2	DMR - 192	PROAGRO	5401	5410	5414	5417
3	BIO - 9681	2	DMR - 193	BIO SEED'S	5404	5407	5413	5420
4	PARBHAT	2	DMR - 194	LUDHIANA	5405	5406	5412	5418
5	GANGA - 11	2	DMR - 195	NSC	5402	5408	5411	5419

* PLANT IN ZONE II LOCATION ONLY .
 (DO NOT PLANT AT BANGLORE I.E. IN ZONE IV LOCATION)

TRIAL NO. 69 AET 2nd YEAR ZONE 3 FULL SEASON MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION :
 BREEDING

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

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	P M Z - 234	3	DMR - 201	PARAS SEED	5454	5462	5467	5475
2	J K M H - 1090	3	DMR - 202	J K AGRI	5456	5458	5466	5478
3	F - 1562	3	DMR - 203	MONSANTO	5453	5461	5465	5477
	CHECKS:							
4	PRO - 311	3	DMR - 204	PROAGRO	5452	5460	5469	5472
5	BIO - 9681	3	DMR - 205	BIO SEED'S	5451	5464	5468	5476
6	PARBHAT	3	DMR - 206	LUDHIANA	5457	5459	5470	5474
7	GANGA - 11	3	DMR - 207	NSC	5455	5463	5471	5473

* PLANT IN ZONE -III LOCATION ONLY .
 (DO NOT PLANT AT BANGLORE ie ZONE IV)

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

YEAR 2003 KHARIF

NO OF ROWS 6

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION :

BREEDING

HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, (2 SETS)
COIMBATORE, (2 SETS) BIOSEED'S

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B I O - 92327	4	DMR - 211	BIOSEED	5501	5507	5513	5517
	CHECKS:							
2	PRO - 311	4	DMR - 212	PROAGRO	5503	5510	5512	5519
3	BIO - 9681	4	DMR - 213	BIO SEED'S	5504	5506	5514	5520
4	PARBHAT	4	DMR - 214	LUDHIANA	5505	5508	5515	5516
5	GANGA - 11	4	DMR - 215	NSC	5502	5509	5511	5518

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

YEAR 2003 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	B I O - 92327	5	DMR - 216	BIOSEED	5556	5563	5569	5581
2	BISCO - 851	5	DMR - 217	BISCO SEED	5551	5564	5568	5582
3	N E C H - 110	5	DMR - 218	SYNGENTA	5552	5565	5574	5575
4	X - 2006	5	DMR - 219	KANCHANGANGA	5553	5562	5573	5576
	CHECKS:							
5	PRO - 311	5	DMR - 220	PROAGRO	5554	5559	5572	5579
6	BIO - 9681	5	DMR - 221	BIO SEED'S	5555	5561	5570	5577
7	PARBHAT	5	DMR - 222	LUDHIANA	5558	5560	5567	5580
8	GANGA - 11	5	DMR - 223	NSC	5557	5566	5571	5578

TRIAL NO. 70 AET 2nd YEAR ZONE - 1 MEDIUM MATURITY
 YEAR 2003 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
1	BISCO - 3123	1	DMR - 161	BISCO SEED	5256	5261	5264	5271
2	A A M H - 204	1	DMR - 162	ADARSH AGRINOVA	5253	5257	5266	5273
3	N E C H - 113	1	DMR - 163	SYNGENTA	5251	5258	5268	5270
4	X - 2003	1	DMR - 164	KANCHANGANGA	5254	5262	5267	5269
CHECKS:								
5	KH 510	1	DMR - 165	KANCHAN GANGA	5255	5260	5265	5272
6	NAVJOT	1	DMR - 166	LUDHIANA	5252	5259	5263	5274

* 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 - 2 MEDIUM MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENTH 5 mt.
 NO OF REP. 6
 LOCATION
 BREEDING DELHI, LUDHIANA, (2 SETS) PANTNAGAR, KANPUR, (2 SETS) KARNAL, KAVERI SEEDS *

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION					
					R1	R2	R3	R4	R5	R6
1	H K H - 1206	2	DMR - 167	KARNAL	5303	5305	5312	5314	5317	5324
2	KAVERI - 235	2	DMR - 168	KAVERI SEEDS	5302	5308	5310	5313	5318	5322
CHECKS:										
3	KH 510	2	DMR - 169	KANCHAN -GANGA	5301	5306	5311	5316	5319	5321
4	NAVJOT	2	DMR - 170	LUDHIANA	5304	5307	5309	5315	5320	5323

* PLANT IN ZONE -2 LOCATION ONLY. DO NOT PLANT AT HYDERABAD (ie ZONE IV)

TRIAL NO. 70 AET 2nd YEAR ZONE - 3 MEDIUM MATURITY

YEAR 2003 KHARIF

NO OF ROWS 6

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KUSHMOHOT,
J.K. AGRI*, BIOSEED'S*, KANCHANGANGA*

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	BISCO SURAJ - 11	3	DMR - 171	BISCO SEED	5327	5335	5339	5346
2	J K M H - 1080	3	DMR - 172	JK AGRI	5330	5331	5337	5348
3	X - 2003	3	DMR - 173	KANCHANGANGA	5328	5334	5340	5347
CHECKS:								
4	KH 510	3	DMR - 174	KANCHAN GANGA	5329	5333	5336	5350
5	NAVJOT	3	DMR - 175	LUDHIANA	5326	5332	5338	5349

* PLANT IN ZONE -III LOCATION ONLY.
(DO NOT PLANT AT HYDERABAD I.E. ZONE IV)

TRIAL NO. 70 AET 2nd YEAR ZONE - 4 MEDIUM MATURITY

YEAR 2003 KHARIF

NO OF ROWS 6

ROW LENGTH 5 mt

NO OF REP. 6

LOCATION

BREEDING

HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, (2 SETS)
COIMBATORE, (2 SETS) KAVERI SEED'S

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION					
					R1	R2	R3	R4	R5	R6
1	KAVERI - 235	4	DMR - 177	KAVERI SEEDS	5353	5354	5358	5361	5365	5366
CHECKS:										
2	KH 510	4	DMR - 178	KANCHAN GANGA	5351	5355	5357	5362	5364	5368
3	NAVJOT	4	DMR - 179	LUDHIANA	5352	5356	5359	5360	5363	5367

TRIAL NO. 70 AET 2nd YEAR ZONE - 5 MEDIUM MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING

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

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	E C - 3116	5	DMR - 181	UDAIPUR	5376	5381	5386	5389
2	E C - 3110	5	DMR - 182	UDAIPUR	5372	5377	5385	5392
3	J K M H - 1080	5	DMR - 183	JK AGRI	5375	5380	5388	5390
4	KAVERI - 235	5	DMR - 184	KAVERI SEEDS	5373	5378	5383	5394
CHECKS:								
5	KH 510	5	DMR - 185	KANCHAN GANGA	5374	5382	5387	5391
6	NAVJOT	5	DMR - 186	LUDHIANA	5371	5379	5384	5393

TRIAL NO. 71 AET 2nd YEAR ZONE-1, EARLY MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENGTH 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
1	B I O - 92109	1	DMR - 101	BIOSEED	5001	5015	5025	5036
2	SEEDTEC - 1204	1	DMR - 102	SEEDTEC	5007	5012	5027	5034
3	P A C - 70001	1	DMR - 103	ADVANTA	5004	5010	5026	5033
4	F H - 3176	1	DMR - 104	ALMORA	5005	5017	5024	5030
CHECKS:								
5	HIM - 129	1	DMR - 105	ALMORA	5003	5016	5022	5035
6	SURYA	1	DMR - 106	PANTNAGAR	5002	5014	5021	5028
7	X - 3342	1	DMR - 107	POC	5008	5013	5020	5032
8	KIRAN	1	DMR - 108	LUDHIANA	5009	5011	5023	5029
9	MAHI KANCHAN	1	DMR - 109	UDAIPUR	5006	5018	5019	5031

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

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, LUDHIANA, (2 SETS) PANTNAGAR, (2 SETS) KANPUR, (2 SETS)
KARNAL, SEEDTEC *

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION					
					R1	R2	R3	R4	R5	R6
1	SEEDTEC - 1205	2	DMR - 151	SEEDTEC	5202	5208	5211	5216	5217	5221
	CHECKS:									
2	HIM - 129	2	DMR - 152	ALMORA	5204	5206	5212	5213	5219	5222
3	SURYA	2	DMR - 153	PANTNAGAR	5201	5207	5209	5214	5220	5223
4	X - 3342	2	DMR - 154	POC	5203	5205	5210	5215	5218	5224

* PLANT IN ZONE - 2 LOCATION ONLY.
(DO NOT PLANT AT HYDERABAD I.E. ZONE IV)

TRIAL NO. 71 AET 2nd YEAR ZONE - 3 EARLY MATURITY

YEAR 2003 KHARIF

NO OF ROWS 6

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR,
KUSHMOHOT, JORHAT (IN PLAINS), PROAGRO *

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	P R O - 340	3	DMR - 111	PRPAGRO	5056	5064	5069	5074
2	F H - 3186	3	DMR - 112	ALMORA	5055	5059	5068	5077
	CHECKS :-							
3	HIM - 129	3	DMR - 113	ALMORA	5054	5058	5070	5078
4	SURYA	3	DMR - 114	PANTNAGAR	5052	5060	5065	5075
5	X - 3342	3	DMR - 115	POC	5051	5063	5071	5076
6	KIRAN	3	DMR - 116	LUDHIANA	5057	5062	5066	5072
7	MAHI KANCHAN	3	DMR - 117	UDAIPUR	5053	5061	5067	5073

* PLANT IN ZONE -III LOCATION ONLY.
(DO NOT PLANT AT BANGLORE I.E. ZONE IV)

TRIAL NO. 71 AET ZONE 2nd YEAR ZONE - 4 EARLY MATURITY

YEAR 2003 KHARIF

NO OF ROWS 6

ROW LENGTH 5 mt

NO OF REP: 4

LOCATION :

BREEDING

HYDERABAD, KARIMNAGAR, ARBHAVI, (2 SETS) MANDYA, KOLHAPUR, (2 SETS)
COIMBATORE, (2 SETS) SEEDTEC* , ADVANTA* , BIOSEED'S*

ENT NO	PEDIGREE	ONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B I O - 92109	4	DMR - 121	BIOSEED	5101	5117	5125	5141
2	B I O - 92136	4	DMR - 122	BIOSEED	5111	5112	5129	5142
3	SEEDTEC - 1202	4	DMR - 123	SEEDTEC	5108	5121	5124	5137
4	P A C - 70001	4	DMR - 124	ADVANTA	5110	5120	5126	5138
5	F H - 3186	4	DMR - 125	ALMORA	5105	5122	5127	5134
6	F H - 3176	4	DMR - 126	ALMORA	5104	5116	5130	5135
CHECKS:								
7	HIM - 129	4	DMR - 127	ALMORA	5109	5118	5131	5140
8	SURYA	4	DMR - 128	PANTNAGAR	5102	5115	5133	5143
9	X - 3342	4	DMR - 129	POC	5106	5114	5132	5136
10	KIRAN	4	DMR - 130	LUDHIANA	5107	5113	5128	5144
11	MAHI KANCHAN	4	DMR - 131	UDAIPUR	5103	5119	5123	5139

* PLANT OTHER THAN HYDERABAD LOCATION

TRIAL NO. 71 AET 2nd YEAR ZONE - 5 EARLY MATURITY

YEAR 2003 KHARIF

NO OF ROWS 6

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	R - 9803	5	DMR - 141	KAMPUR	5160	5164	5174	5183
2	B I O - 92136	5	DMR - 142	BIOSEED	5152	5168	5173	5190
3	SEEDTEC - 1202	5	DMR - 143	SEEDTEC	5154	5162	5175	5181
4	F H - 3161	5	DMR - 144	ALMORA	5156	5163	5178	5187
5	E C - 3108	5	DMR - 145	UDAIPUR	5151	5167	5172	5185
	CHECKS :-							
6	HIM - 129	5	DMR - 146	ALMORA	5155	5169	5180	5186
7	SURYA	5	DMR - 147	PANTNAGAR	5157	5166	5171	5184
8	X - 3342	5	DMR - 148	POC	5158	5170	5179	5188
9	KIRAN	5	DMR - 149	LUDHIANA	5153	5161	5177	5189
10	MAHI KANCHAN	5	DMR - 150	UDAIPUR	5159	5165	5176	5182
11	F H - 3186	5	DMR - 150A	ALMORA	5159A	5165A	5176A	5182A

TRIAL NO. 75 EARLY MATURITY

YEAR 2003 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2

A E T 1st YEAR (EARLY MATURITY)

1	B H - 2862		DMR - 1501	HYDERABAD	10002	10090
2	H K H - 1185		DMR - 1502	KARNAL	10025	10059
3	H K H - 1210		DMR - 1503	KARNAL	10011	10082
4	F H - 3210		DMR - 1504	ALMORA	10021	10099
5	F H - 3210		DMR - 1505	ALMORA	10042	10070
6	J H - 3851		DMR - 1506	LUDHIANA	10051	10062
7	P R O - 358		DMR - 1507	PROAGRO	10035	10076
8	P R O - 357		DMR - 1508	PROAGRO	10032	10064
9	P R O - 356		DMR - 1509	PROAGRO	10003	10089
10	SEEDTEC - 114		DMR - 1510	SEEDTEC	10005	10054
11	SEEDTEC - 122		DMR - 1511	SEEDTEC	10014	10077
12	SEEDTEC - 205		DMR - 1512	SEEDTEC	10039	10060
13	BISCO - 204		DMR - 1513	BISCO SEED	10036	10103
14	BISCO - 2051		DMR - 1514	BISCO SEED	10044	10079
15	X 1150 Z		DMR - 1515	POC BANG.	10024	10075
16	J K M H - 810		DMR - 1516	J K AGRI	10050	10083
17	FILLER		DMR - 1517		10031	10063
18	X - 2182		DMR - 1518	KANCHANGANGA	10006	10092
19	X - 2185		DMR - 1519	KANCHANGANGA	10017	10066
20	K M H - 3		DMR - 1520	KARIMNAGAR	10027	10078
21	M C H - 5		DMR - 1521	MONSANTO	10013	10100
22	M C H - 6		DMR - 1522	MONSANTO	10022	10093
23	K M H - 2		DMR - 1523	KARIMNAGAR	10026	10073
24	K M H - 3		DMR - 1524	KARIMNAGAR	10040	10104
25	K M H - 5		DMR - 1525	KARIMNAGAR	10052	10098
26	K M H - 9		DMR - 1526	KARIMNAGAR	10010	10088
27	P A C - 71006		DMR - 1527	ADVANTA	10007	10097
28	P M Z - 135		DMR - 1528	PARAS SEED	10046	10067
29	ZAURI - 2052		DMR - 1529	ZAURI SEEDS	10015	10091
30	ZAURI - 2054		DMR - 1530	ZAURI SEEDS	10009	10071
31	FILLER		DMR - 1531		10030	10084

A E T 2nd YEAR (EARLY MATURITY)

32	F H - 3186		DMR - 1532	ALMORA	10043	10057
33	F H - 3176		DMR - 1533	ALMORA	10008	10086
34	F H - 3161		DMR - 1534	ALMORA	10033	10053

cont.

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
35	R - 9803		DMR - 1535	KAMPUR	10045	10094
36	E C - 3108		DMR - 1536	UDAIPUR	10018	10096
37	B I O - 92109		DMR - 1537	BIOSEED	10029	10080
38	B I O - 92136		DMR - 1538	BIOSEED	10023	10085
39	SEEDTEC - 1202		DMR - 1539	SEEDTEC	10047	10101
40	SEEDTEC - 1204		DMR - 1540	SEEDTEC	10028	10056
41	SEEDTEC - 1205		DMR - 1541	SEEDTEC	10037	10055
42	P A C - 70001		DMR - 1542	ADVANTA	10016	10095
43	P R O - 340		DMR - 1543	PRPAGRO	10004	10069
	CHECKS :-					
44	HIM - 129		DMR - 1544	ALMORA	10041	10068
45	SURYA		DMR - 1545	PANTNAGAR	10020	10087
46	X - 3342		DMR - 1546	POC	10049	10065
47	KIRAN		DMR - 1547	LUDHIANA	10038	10081
48	MAHI KANCHAN		DMR - 1548	UDAIPUR	10001	10061
49	FILLER		DMR - 1549		10019	10074
50	C M - 500		DMR - 1550	DELHI	10048	10102
51	C M - 600		DMR - 1551	DELHI	10012	10072
52	C M - 202		DMR - 1552	DELHI	10034	10058

LOCATION

PATHOLOGY	ALMORA, BAJAURA, DHAULAKUAN, DELHI, LUDHIANA, KARNAL, PANTNAGAR, DHOLI, JASHIPUR, HYDERABAD, KARIMNAGAR, ARBHAVI, COIMBATORE, UDAIPUR, GODHRA, NAGENAHALLI, MANDYA,
ENTOMOLOGY	UDAIPUR, DELHI, LUDHIANA, KARNAL, HYDERABAD, KOLHAPUR
NEMATOLOGY	UDAIPUR
SOIL SCIENCE	PANTNAGAR

TRIAL NO. 75A EARLY MATURITY

YEAR 2003 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
EARLY MATURITY						
1	A H - 24007	DMR -	1801	DELHI	17411	17467
2	A H - 24012	DMR -	1802	DELHI	17438	17477
3	A H - 23015	DMR -	1803	DELHI	17446	17488
4	A H - 23041	DMR -	1804	DELHI	17455	17486
5	J H - 31005	DMR -	1805	LUDHIANA	17428	17500
6	E H - 1265	DMR -	1806	UDAIPUR	17403	17515
7	E H - 1297	DMR -	1807	UDAIPUR	17442	17480
8	E H - 1318	DMR -	1808	UDAIPUR	17413	17474
9	F H - 3259	DMR -	1809	ALMORA	17454	17506
10	F H - 3239	DMR -	1810	ALMORA	17451	17513
11	F H - 3246	DMR -	1811	ALMORA	17449	17464
12	H K H - 1176	DMR -	1812	KARNAL	17423	17469
13	CHH - 210	DMR -	1813	CHHINDWARA	17434	17482
14	BVM - 5 COMP.	DMR -	1814	RANCHI	17435	17509
15	BVM - 6 COMP.	DMR -	1815	RANCHI	17409	17484
16	R - 03/702	DMR -	1816	KANPUR	17420	17504
17	P R O - 361	DMR -	1817	PRPAGRO	17433	17478
18	P R O - 362	DMR -	1818	PRPAGRO	17443	17502
19	B I O - 20171	DMR -	1819	BIOSEED	17412	17496
20	P M Z - 138	DMR -	1820	PARAS SEED	17402	17463
21	BISCO - 2435	DMR -	1821	BISCO SEED	17426	17514
22	BISCO - 1881	DMR -	1822	BISCO SEED	17417	17512
23	SEEDTEC - 2041	DMR -	1823	SEEDTEC	17418	17511
24	SEEDTEC - 2031	DMR -	1824	SEEDTEC	17457	17481
25	S G M H - 101	DMR -	1825	SONA SEEDS	17415	17468
26	A A M H - 133	DMR -	1826	ADARSH AGRINOVA	17453	17493
27	A A M H - 138	DMR -	1827	ADARSH AGRINOVA	17441	17510
28	X 1182 D	DMR -	1828	POC BANNG.	17447	17472
29	X 1182 K	DMR -	1829	POC BANNG.	17444	17503
30	J K M H - 1701	DMR -	1830	JK AGRI	17408	17518
31	J K M H - 062	DMR -	1831	JK AGRI	17430	17516
32	M C H - 15	DMR -	1832	MONSANTO	17458	17498
33	S S F - X 2098	DMR -	1833	S S F	17429	17490
34	X - 612	DMR -	1834	KANCHANGANGA	17459	17473
35	X - 2097	DMR -	1835	KANCHANGANGA	17422	17494

cont.

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
36	KAVERI - 2020	DMR	- 1836	KAVERI SEEDS	17440	17491
37	J H - 31036	DMR	- 1837	LUDHIANA	17436	17479
EXTRA EARLY MATURITY						
38	A H - 23021	DMR	- 1838	DELHI	17424	17495
39	A H - 23025	DMR	- 1839	DELHI	17421	17501
40	A H - 23029	DMR	- 1840	DELHI	17437	17466
41	A H - 23035	DMR	- 1841	DELHI	17414	17517
42	A H - 23039	DMR	- 1842	DELHI	17401	17476
43	F H - 3211	DMR	- 1843	ALMORA	17427	17475
44	DEH - 10103	DMR	- 1844	PANTNAGAR	17445	17460
45	DEH - 10303	DMR	- 1845	PANTNAGAR	17450	17461
46	DRH - 10503	DMR	- 1846	PANTNAGAR	17410	17489
47	DRH - 11303	DMR	- 1847	PANTNAGAR	17406	17508
48	H K H - 1183	DMR	- 1848	KARNAL	17452	17470
49	BVM - 7 COMP.	DMR	- 1849	RANCHI	17456	17462
50	J K M H - 204-1	DMR	- 1850	JK AGRI	17404	17492
CHECKS :-						
51	HIM - 129	DMR	- 1851	ALMORA	17439	17499
52	SURYA	DMR	- 1852	PANTNAGAR	17425	17483
53	X - 3342	DMR	- 1853	POC	17416	17465
54	MAHI KANCHAN	DMR	- 1854	UDAIPUR	17432	17487
55	KIRAN	DMR	- 1855	LUDHIANA	17407	17471
56	FILLER	DMR	- 1856		17431	17507
57	C M - 500	DMR	- 1857	DELHI	17419	17485
58	C M - 600	DMR	- 1858	DELHI	17448	17505
59	C M - 202	DMR	- 1859	DELHI	17405	17497

LOCATION

PATHOLOGY

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

TRIAL NO. 76 MEDIUM MATURITY

YEAR 2003 KHARIF
 NO OF ROWS 2
 ROW LENTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION	
				R1	R2
A E T 1st YEAR (MEDIUM MATURITY)					
1	B H - 2359	DMR - 1601	HYDERABAD	10242	10250
2	B H - 2809	DMR - 1602	HYDERABAD	10216	10270
3	FILLER	DMR - 1603		10203	10271
4	E C - 3121	DMR - 1604	UDAIPUR	10226	10259
5	E C - 3122	DMR - 1605	UDAIPUR	10202	10281
6	FILLER	DMR - 1606		10225	10278
7	WC - 14 - 1 (DBM)	DMR - 1607	BANSWARA	10243	10261
8	H K H - 1203	DMR - 1608	KARNAL	10241	10274
9	H K H - 1208	DMR - 1609	KARNAL	10204	10280
10	L - 166	DMR - 1610	BAJAURA	10239	10263
11	B I O - 22027	DMR - 1611	BIOSEED	10221	10269
12	P M Z - 237	DMR - 1612	PARAS SEED	10218	10257
13	P M Z - 131 (RETESTING)	DMR - 1613	PARAS SEED	10244	10289
14	BISCO - 1102	DMR - 1614	BISCO SEED	10223	10265
15	BISCO - 201	DMR - 1615	BISCO SEED	10235	10262
16	SEEDTEC - 1081	DMR - 1616	SEEDTEC	10214	10256
17	SEEDTEC - 168	DMR - 1617	SEEDTEC	10213	10249
18	N M H - 20507	DMR - 1618	NATH SEED	10232	10252
19	M C H - 7	DMR - 1619	PARRY MONSANTO	10245	10285
20	ZAURI - 2027	DMR - 1620	ZAURI SEEDS	10231	10282
21	ZAURI - 2021	DMR - 1621	ZAURI SEEDS	10212	10248
22	A A M H - 513	DMR - 1622	ADARSH AGRINOVA	10205	10283
23	A A M H - 511	DMR - 1623	ADARSH AGRINOVA	10222	10254
24	X 1280 A	DMR - 1624	POC BANG.	10227	10286
25	J K M H - 1001	DMR - 1625	J K AGRI	10217	10276
26	N E C H - 119	DMR - 1626	SYNGENTA	10240	10275
27	N E C H - 120	DMR - 1627	SYNGENTA	10211	10267
28	X - 26	DMR - 1628	KANCHANGANGA	10234	10247
29	N M H - 20507	DMR - 1629	NATH SEED	10224	10287
CHECKS:					
30	KH 510	DMR - 1630	KANCHAN GANGA	10215	10266
31	NAVJOT	DMR - 1631	LUDHIANA	10236	10255
32	FILLER	DMR - 1632		10209	10284
33	C M - 500	DMR - 1633	DELHI	10233	10268
34	C M - 600	DMR - 1634	DELHI	10230	10288
35	C M - 202	DMR - 1635	DELHI	10207	10290

cont

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
A E T 2nd YEAR (MEDIUM MATURITY)						
36	H K H - 1206	DMR -	1636	KARNAL	10219	10251
37	E C - 3116	DMR -	1637	UDAIPUR	10228	10253
38	E C - 3110	DMR -	1638	UDAIPUR	10208	10246
39	BISCO - 3123	DMR -	1639	BISCO SEED	10229	10272
40	BISCO SURAJ - 11	DMR -	1640	BISCO SEED	10210	10279
41	A A M H - 204	DMR -	1641	ADARSH AGRINOVA	10220	10258
42	N E C H - 113	DMR -	1642	SYNGENTA	10237	10277
43	X - 2003	DMR -	1643	KANCHANGANGA	10201	10273
44	KAVERI - 235	DMR -	1644	GANGA KAVERI	10206	10260
45	J K M H - 1080	DMR -	1645	JK AGRI	10238	10264

LOCATION

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

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

NEMATOLOGY UDAIPUR

SOIL SCIENCE PANTNAGAR

TRIAL NO. 76A MEDIUM MATURITY

YEAR 2003 KHARIF

NO OF ROWS 2

ROW LENGTH 5 mt

NO OF REP. 2

LOCATION

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

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2

I E T MEDIUM MATURITY

1	B H - 3298	DMR - 1861	HYDEARBAD	17621	17650
2	B H - 3299	DMR - 1862	HYDEARBAD	17626	17644
3	B H - 3443	DMR - 1863	HYDEARBAD	17629	17672
4	CHH - 202	DMR - 1864	CHHINDWARA	17639	17652
5	J H - 10362	DMR - 1865	LUDHIANA	17632	17665
6	J C - 1456	DMR - 1866	LUDHIANA	17610	17663
7	J C - 1459	DMR - 1867	LUDHIANA	17641	17647
8	H K H - 1200	DMR - 1868	KARNAL	17613	17666
9	L - 182	DMR - 1869	BAJAURA	17617	17679
10	L - 134	DMR - 1870	BAJAURA	17603	17658
11	A H - 23007	DMR - 1871	DELHI	17635	17677
12	A H - 23071	DMR - 1872	DELHI	17611	17660
13	A H - 24008	DMR - 1873	DELHI	17615	17681
14	A H - 24020	DMR - 1874	DELHI	17640	17669
15	B I O - 22069	DMR - 1875	BIOSEED	17625	17668
16	B I O - 22045	DMR - 1876	BIOSEED	17634	17654
17	P M Z - 136	DMR - 1877	PARAS SEED	17619	17651
18	BISCO - 0101	DMR - 1878	BISCO SEED	17620	17686
19	BISCO - 0102	DMR - 1879	BISCO SEED	17636	17659
20	SEEDTEC - 663	DMR - 1880	SEEDTEC	17623	17649
21	SEEDTEC - 2437	DMR - 1881	SEEDTEC	17622	17646
22	V I P L - 1501	DMR - 1882	NAGARJUNA	17618	17667
23	V I P L - 1503	DMR - 1883	NAGARJUNA	17608	17673
24	A A M H - 831	DMR - 1884	ADARSH AGRINOVA	17601	17656
25	A A M H - 574	DMR - 1885	ADARSH AGRINOVA	17643	17655
26	J K M H - 207	DMR - 1886	JK AGRI	17627	17682
27	J K M H - 1512	DMR - 1887	JK AGRI	17624	17685
28	N E C H - 126	DMR - 1888	SYNGENTA	17602	17671
29	N E C H - 127	DMR - 1889	SYNGENTA	17612	17648
30	S S F - X 87	DMR - 1890	S S F	17604	17680
31	S S F - X 88	DMR - 1891	S S F	17614	17674

cont.

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
32	X - 2005	DMR -	1892	KANCHANGANGA	17607	17676
33	X - 2003 A	DMR -	1893	KANCHANGANGA	17637	17684
34	KAVERI - 2288	DMR -	1894	KAVERI SEEDS	17616	17675
35	N M H - 1034	DMR -	1895	NATH SEED	17609	17645
36	S M H - 3758	DMR -	1896	SHAKTI SEEDS	17605	17670
37	MAHABEEJ - 1100	DMR -	1897	MAHARASTRATATE	17633	17662
38	MAHABEEJ - 1102	DMR -	1898	MAHARASTRATATE	17642	17664
CHECKS:						
39	KH 510 (CHECH)	DMR -	1899	KANCHAN GANGA	17638	17678
40	NAVJOT (CHECK)	DMR -	1900	LUDHIANA	17606	17661
41	C M - 500	DMR -	1901	DELHI	17630	17657
42	C M - 600	DMR -	1902	DELHI	17631	17683
43	C M - 202	DMR -	1903	DELHI	17628	17653

LOCATION

PATHOLOGY

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

TRIAL NO. 77 FULL SEASON MATURITY

YEAR 2003 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	A H - 01410	DMR - 1701	DELHI	10326	10396
2	A H - 01415	DMR - 1702	DELHI	10343	10368
3	B H - 2355	DMR - 1703	HYDERABAD	10346	10349
4	B H - 2358	DMR - 1704	HYDERABAD	10335	10375
5	B H - 2523	DMR - 1705	HYDERABAD	10302	10367
6	B H - 2528	DMR - 1706	HYDERABAD	10332	10362
7	B H - 2348	DMR - 1707	HYDERABAD	10341	10385
8	B H - 2356	DMR - 1708	HYDERABAD	10348	10381
9	B H - 2854	DMR - 1709	HYDERABAD	10304	10392
10	B H - 2202	DMR - 1710	HYDERABAD	10327	10376
11	H K H - 1215	DMR - 1711	KARNAL	10308	10356
12	B I O - 20212	DMR - 1712	BIOSEED	10310	10391
13	ROBUST	DMR - 1713	PARAS SEED	10313	10379
14	BISCO - 902	DMR - 1714	BISCO SEED	10314	10352
15	ZAURI - 2009	DMR - 1715	ZAURI SEEDS	10329	10351
16	A A M H - 459	DMR - 1716	ADARSH AGRINOVA	10337	10383
17	X 1280 B	DMR - 1717	POC BANG.	10312	10377
18	X 1231 H	DMR - 1718	POC BANG.	10345	10388
19	POOJA	DMR - 1719	JK AGRI	10306	10371
20	N E C H - 117	DMR - 1720	SYNGENTA	10315	10366
21	N E C H - 118	DMR - 1721	SYNGENTA	10309	10390
22	M C H - 1	DMR - 1722	MONSANTO	10338	10353
23	M C H - 2	DMR - 1723	MONSANTO	10305	10358
24	M C H - 3	DMR - 1724	PARRY MONSANTO	10316	10360
25	M C H - 4	DMR - 1725	PARRY MONSANTO	10322	10373
26	G K - 3046	DMR - 1726	GANGA KAVERI	10334	10365
27	G K - 3047	DMR - 1727	GANGA KAVERI	10328	10370
28	P A C - 71061	DMR - 1728	ADVANTA	10307	10374
29	P A C - 71062	DMR - 1729	ADVANTA	10347	10389
30	X - 2001	DMR - 1730	KANCHANGANGA	10317	10361
31	SEEDTEC - C 12	DMR - 1731	SEEDTEC	10319	10363
32	SEEDTEC - C 11	DMR - 1732	SEEDTEC	10318	10372

cont.

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION	
				R1	R2
A E T 2nd YEAR (FULL SEASON MATURITY)					
33	F 9572 A	DMR - 1733	MONSANTO	10340	10387
34	P M Z - 234	DMR - 1734	PARAS SEED	10320	10369
35	J K M H - 1090	DMR - 1735	J K AGRI	10336	10364
36	F - 1562	DMR - 1736	MONSANTO	10311	10393
37	B I O - 92327	DMR - 1737	BIOSEED	10301	10378
38	BISCO - 851	DMR - 1738	BISCO SEED	10344	10355
39	N E C H - 110	DMR - 1739	SYNGENTA	10342	10380
40	X - 2006	DMR - 1740	KANCHANGANGA	10333	10384
CHECKS :-					
41	PRO - 311	DMR - 1741	PROAGRO	10339	10350
42	BIO - 9681	DMR - 1742	BIO SEED'S	10330	10394
43	PARBHAT	DMR - 1743	LUDHIANA	10324	10354
44	GANGA - 11	DMR - 1744	NSC	10323	10395
45	FILLER NAVJOT	DMR - 1745		10303	10386
46	C M - 500	DMR - 1746	DELHI	10325	10359
47	C M - 600	DMR - 1747	DELHI	10331	10357
48	C M - 202	DMR - 1748	DELHI	10321	10382

LOCATION

PATHOLOGY	ALMORA, BAJAURA, DHAULAKUAN, DELHI, LUDHIANA, KARNAL PANTNAGAR, DHOLI, JASHIPUR, HYDERABAD, KARIMNAGAR, ARHAVI, COIMBATORE, UDAIPUR, GODHRA, NAGENAHALLI, MANDYA, NAGENAHALLY
ENTOMOLOGY	UDAIPUR, DELHI, LUDHIANA, KARNAL, HYDERABAD, KOLHAPUR
NEMATOLOGY	DELHI, UDAIPUR
SOIL SCIENCE	PANTNAGAR

TRIAL NO. 77A FULL SEASON MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION	
				R1	R2

I E T FULL SEASON MATURITY

1	B H - 3294	DMR - 1911	HYDERABAD	17754	17806
2	B H - 3300	DMR - 1912	HYDERABAD	17715	17805
3	B H - 3306	DMR - 1913	HYDERABAD	17744	17853
4	B H - 3309	DMR - 1914	HYDERABAD	17733	17857
5	B H - 3315	DMR - 1915	HYDERABAD	17728	17812
6	B H - 3437	DMR - 1916	HYDERABAD	17777	17826
7	E H - 1259	DMR - 1917	UDAIPUR	17773	17790
8	H K H - 1168	DMR - 1918	KARNAL	17707	17844
9	H K H - 1211 (Y)	DMR - 1919	KARNAL	17771	17841
10	ZA WH - 2	DMR - 1920	WINTER NURSSERY	17709	17858
11	J H - 10655	DMR - 1921	LUDHIANA	17758	17851
12	DMRFG - 22	DMR - 1922	DMR	17774	17843
13	DMRFG - 25	DMR - 1923	DMR	17738	17847
14	K M H - 9961	DMR - 1924	KOLHAPUR	17751	17842
15	SWS 013 Y - 6 NORMAL	DMR - 1925	DHOLI	17770	17784
16	A H - 23065	DMR - 1926	DELHI	17778	17808
17	P R O - 363	DMR - 1927	PROAGRO	17761	17793
18	B I O - 20228	DMR - 1928	BIOSEED	17714	17856
19	BISCO - 911	DMR - 1929	BISCO SEED	17731	17795
20	SEEDTEC - 661	DMR - 1930	SEEDTEC	17722	17792
21	S G M H - 102	DMR - 1931	SONA SEEDS	17711	17818
22	V I P L - 1902	DMR - 1932	NAGARJUNA	17759	17799
23	A A M H - 531	DMR - 1933	ADARSH AGRINOVA	17727	17831
24	X 1282 X	DMR - 1934	POC BANG.	17756	17782
25	J K M H - 013	DMR - 1935	JK AGRI	17776	17811
26	N E C H - 125	DMR - 1936	SYNGENTA	17718	17852
27	K D M H - 3437	DMR - 1937	KRISHNA SEEDS	17710	17787
28	S S F - X 86	DMR - 1938	S S F	17748	17833
29	X - 2007	DMR - 1939	KANCHANGANGA	17702	17810
30	G K 3049	DMR - 1940	GANGA KAVERI	17705	17785
31	M - 0324	DMR - 1941	MAHYCO	17766	17829
32	EAGLE - 9	DMR - 1942	EAGLE SEEDS	17772	17855
33	M C H - 8	DMR - 1943	MONSANTO PARR	17757	17814
34	M C H - 13	DMR - 1944	MONSANTO PARR	17725	17846
35	G F - 2008	DMR - 1945	GREEN FOUNDATION	17765	17791
36	G F - 2012	DMR - 1946	GREEN FOUNDATION	17755	17850
37	FILLER	DMR - 1947		17775	17849
38	B H - 3297	DMR - 1948	HYDERABAD	17734	17838
39	B H - 3301	DMR - 1949	HYDERABAD	17767	17825

cont.

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
40	B H - 3307	DMR	- 1950	HYDERABAD	17708	17820
41	B H - 3313	DMR	- 1951	HYDERABAD	17769	17834
42	B H - 3316	DMR	- 1952	HYDERABAD	17763	17840
43	B H - 3439	DMR	- 1953	HYDERABAD	17768	17832
44	H K H - 1129	DMR	- 1954	KARNAL	17742	17828
45	H K H - 1201 (W)	DMR	- 1955	KARNAL	17762	17788
46	H K H - 1217	DMR	- 1956	KARNAL	17749	17836
47	J H - 10589	DMR	- 1957	LUDHIANA	17739	17827
48	J C - 1441 C3 FS	DMR	- 1958	LUDHIANA	17736	17835
49	DMRFG - 23	DMR	- 1959	DMR	17723	17798
50	DMRFG - 26	DMR	- 1960	DMR	17726	17796
51	M C - 03-1	DMR	- 1961	DHOLI	17764	17807
52	A H - 23049	DMR	- 1962	DELHI	17701	17837
53	V E H - 310101	DMR	- 1963	VARANASI	17713	17783
54	P R O - 360	DMR	- 1964	PROAGRO	17720	17854
55	P M Z - 235	DMR	- 1965	PARAS SEEDS	17732	17822
56	BISCO - 715	DMR	- 1966	BISCO SEED	17741	17824
57	SEEDTEC - 662	DMR	- 1967	SEEDTEC	17729	17821
58	V I P L - 1806	DMR	- 1968	NAGARJUNA	17743	17786
59	A A M H - 475	DMR	- 1969	ADARSH AGRINOVA	17737	17848
60	X 1282 T	DMR	- 1970	POC BANG.	17735	17800
61	J K M H - 370-2	DMR	- 1971	JK AGRI	17716	17789
62	N E C H - 124	DMR	- 1972	SYNGENTA	17779	17823
63	M C H - 11	DMR	- 1973	MONSANTO	17752	17780
64	S S F - X 2002	DMR	- 1974	S S F	17745	17816
65	X - 2004	DMR	- 1975	KANCHANGANGA	17704	17802
66	N M H - 1033	DMR	- 1976	NATH SEED	17740	17803
67	G K 3050	DMR	- 1977	GANGA KAVERI	17760	17839
68	M - 0327	DMR	- 1978	MAHYCO	17747	17819
69	M C H - 12	DMR	- 1979	MONSANTO	17712	17817
70	G F - 2007	DMR	- 1980	GREAN FOUNDATION	17750	17801
71	G F - 2009	DMR	- 1981	GREAN FOUNDATION	17724	17813
CHECKS:						
72	PRO - 311	DMR	- 1982	PROAGRO	17719	17804
73	BIO - 9681	DMR	- 1983	BIO SEED'S	17753	17797
74	PARBHAT	DMR	- 1984	LUDHIANA	17717	17781
75	GANGA - 11	DMR	- 1985	NSC	17703	17794
76	SEEDTEC - 2324	DMR	- 1986	SEEDTEC	17746	17830
77	C M - 500	DMR	- 1987	DELHI	17706	17845
78	C M - 600	DMR	- 1988	DELHI	17730	17809
79	C M - 202	DMR	- 1989	DELHI	17721	17815

LOCATION

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

TRIAL NO. QPM 1 TRIAL
 YEAR 2003 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4

LOCATION

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

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	HQPM - 1	DMR QPM - 1	KARNAL	8109	8115	8132	8144
2	HQPM - 2	DMR QPM - 2	KARNAL	8102	8121	8135	8146
3	HQPM - 3	DMR QPM - 3	KARNAL	8111	8117	8137	8150
4	B - QPM - 12	DMR QPM - 4	HYDERABAD	8101	8125	8141	8149
5	B - QPM - 024	DMR QPM - 5	HYDERABAD	8103	8120	8139	8156
6	B - QPM - 31	DMR QPM - 6	HYDERABAD	8110	8128	8136	8148
7	B - QPM - 32	DMR QPM - 7	HYDERABAD	8106	8123	8134	8143
8	B - QPM - 33	DMR QPM - 8	HYDERABAD	8105	8122	8130	8145
9	CML - 142 x CML - 150	DMR QPM - 9	KILHAPUR	8114	8127	8138	8155
10	J H - QPM - 83 CHECKS:	DMR QPM - 10	LUDHIANA	8104	8116	8142	8152
11	SEEDTEC - 2324	DMR QPM - 11	SEEDTEC	8107	8124	8133	8154
12	SHAKTIMAN - 1	DMR QPM - 12	KOLHAPUR	8108	8126	8131	8153
13	PRO - 311	DMR QPM - 13	PROAGRO	8113	8118	8140	8147
14	K H - 510	DMR QPM - 14	K. GANGA	8112	8119	8129	8151

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 BAJAURA, DELHI (DMR), LUDHIANA, KANPUR, KARNAL, VARANASI
DHOLI, HYDERABAD, KOLHAPUR, ARHAVI, UDAIPUR, CHHINDWARA

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	J H QPM -35	DMR QPM -21	LUDHIANA	8227	8247	8273	8312
2	J H QPM -155	DMR QPM -22	LUDHIANA	8212	8232	8264	8293
3	J H QPM -41	DMR QPM -23	LUDHIANA	8213	8243	8272	8289
4	J H QPM -144	DMR QPM -24	LUDHIANA	8214	8230	8258	8300
5	XP - 0103	DMR QPM -25	DHOLI	8208	8246	8268	8308
6	B H QPM -47	DMR QPM -26	HYDERABAD	8204	8248	8262	8296
7	B H QPM -48	DMR QPM -27	HYDERABAD	8218	8250	8276	8287
8	B H QPM -46	DMR QPM -28	HYDERABAD	8216	8251	8275	8292
9	B H QPM -44	DMR QPM -29	HYDERABAD	8210	8231	8278	8291
10	B H QPM -41	DMR QPM -30	HYDERABAD	8203	8235	8257	8297
11	B H QPM -50	DMR QPM -31	HYDERABAD	8228	8240	8260	8299
12	B H QPM -40	DMR QPM -32	HYDERABAD	8222	8236	8267	8294
13	B H QPM -43	DMR QPM -33	HYDERABAD	8207	8253	8284	8290
14	B H QPM -45	DMR QPM -34	HYDERABAD	8219	8229	8283	8307
15	B H QPM -42	DMR QPM -35	HYDERABAD	8225	8238	8261	8310
16	X P 0105	DMR QPM -36	DHOLI	8221	8255	8266	8302
17	BAJ QPM-1	DMR QPM -37	BAJAURA	8209	8244	8269	8301
18	BAJ QPM-2	DMR QPM -38	BAJAURA	8220	8234	8280	8303
19	BVM-7	DMR QPM -39	RANCHI	8215	8241	8265	8288
20	S99TLWQ-HG-AB	DMR QPM -40	CIMMYT/INDIA	8226	8237	8282	8304
21	S99TLWQ-HG-B	DMR QPM -41	CIMMYT/INDIA	8205	8245	8279	8306
22	J H ae - 7	DMR QPM -42	LUDHIANA	8202	8239	8263	8286
23	J H wx - 29	DMR QPM -43	LUDHIANA	8206	8249	8271	8309
24	SHAKTIMAN - 1	DMR QPM -44	KOLHAPUR	8201	8256	8259	8285
CHECKS:							
25	PRO - 311	DMR QPM -45	PROAGRO	8224	8254	8274	8298
26	K H - 510	DMR QPM -46	K. GANGA	8211	8242	8277	8305
27	X - 3342	DMR QPM -47	POC	8223	8252	8281	8311
28	BIO 9681	DMR QPM -48	BIOSKED	8217	8233	8270	8295

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

ENTOMOLOGY LUDHIANA, DHOLI, HYDERABAD, DELHI (DMR)

TRIAL NO. BABY CORN
 YEAR 2003 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING ALMORA, DELHI (DMR), HYDERABAD, COIMBATORE, LUDHIANA,
 PANTNAGAR, DHOLI, JASHIPUR

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	DBEH - 10201	DMR BABY - 1	PANTNAGAR	7605	7615	7618	7625
2	DBC - 1	DMR BABY - 2	PANTNAGAR	7607	7611	7619	7629
3	V L - 78	DMR BABY - 3	ALMORA	7606	7613	7623	7631
4	F H - 3054	DMR BABY - 4	ALMORA	7604	7612	7620	7627
5	VL MAKKA - 42	DMR BABY - 5	ALMORA	7603	7610	7617	7632
6	HIM - 129	DMR BABY - 6	ALMORA	7608	7616	7624	7628
7	X - 3342	DMR BABY - 7	POC	7601	7609	7621	7626
8	KIRAN	DMR BABY - 8	LUDHIANA	7602	7614	7622	7630

TRIAL NO. SWEET CORN
 YEAR 2003 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING ALMORA ,BAJAURA, DELHI (DMR) , HYDERABAD
 COIMBATORE, LUDHIANA, PANTNAGAR, DHOLI, JASHIPUR

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	ZA WIN YELLOW SWEET CORN	DMR SWEET - 1	WINTER NUR	7657	7663	7683	7692
2	ZA WIN ORANG SWEET CORN	DMR SWEET - 2	WINTER NUR	7651	7664	7677	7684
3	ZA WIN SWEET CORN - I	DMR SWEET - 3	WINTER NUR	7653	7668	7674	7688
4	JC (SWEET CORN) - 1	DMR SWEET - 4	LUDHIANA	7654	7669	7682	7689
5	JC (SWEET CORN) - 4	DMR SWEET - 5	LUDHIANA	7656	7665	7679	7693
6	JC (SWEET CORN) - 5	DMR SWEET - 6	LUDHIANA	7658	7672	7673	7691
7	JC (SWEET CORN) - 6	DMR SWEET - 7	LUDHIANA	7659	7662	7681	7690
8	JC (SWEET CORN) - 8	DMR SWEET - 8	LUDHIANA	7661	7671	7676	7685
9	JC (SWEET CORN) - 10	DMR SWEET - 9	LUDHIANA	7660	7667	7678	7687
10	V L - 15	DMR SWEET - 10	ALMORA	7655	7666	7675	7686
11	MADHURI	DMR SWEET - 11	HYDERABAD	7652	7670	7680	7694

TRIAL NO. POP CORN
 YEAR 2003 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING BAJAURA, DELHI (DMR) , LUDHIANA, DHOLI, HYDERABAD
 COIMBATORE, UDAIPUR, CHINDWARA, ALMORA, KARNAL,
 BELIPAR, JASHIPUR

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	WIN POP CORN - 1	DMR POP - 1	WINTER NUR	7705	7708	7720	7726
2	WIN POP CORN - II	DMR POP - 2	WINTER NUR	7702	7711	7718	7727
3	WIN POP CORN - III	DMR POP - 3	WINTER NUR	7707	7714	7715	7724
4	WIN POP CORN - IV	DMR POP - 4	WINTER NUR	7701	7712	7717	7725
5	UPC - 3	DMR POP - 5	COIMBATORE	7704	7710	7716	7728
6	M C P 03-2	DMR POP - 6	DHOLI	7703	7713	7721	7723
7	AMBER POP CORN	DMR POP - 7	HYDERABAD	7706	7709	7719	7722

SEND 200 gm OF EACH PLOT FOR POPING AFTER HARVEST .

TRIAL NO. 201 FULL SEASON MATURITY
 YEAR 2002 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF R 4
 LOCATION
 BREEDING LUDHIANA, PANTNAGAR, KARNAL, KANPUR, DELHI

ENT	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	J H - 10704	DMR - 701	LUDHIANA	7806	7829	7831	7850
2	A H - 23053	DMR - 702	DELHI	7808	7826	7840	7858
3	A H - 23057	DMR - 703	DELHI	7807	7828	7832	7849
4	A H - 23059	DMR - 704	DELHI	7802	7827	7835	7855
5	A H - 24005	DMR - 705	DELHI	7811	7824	7844	7851
6	A H - 24017	DMR - 706	DELHI	7814	7818	7834	7857
7	H K H - 1194	DMR - 707	KARNAL	7801	7822	7833	7860
8	H K H - 1220	DMR - 708	KARNAL	7804	7823	7839	7847
9	H K H - 1400	DMR - 709	KARNAL	7812	7830	7841	7853
10	H K H - 1401	DMR - 710	KARNAL	7813	7821	7837	7846
11	H K H - 1403	DMR - 711	KARNAL	7805	7816	7845	7859
	CHECKS :						
12	PRO - 311	DMR - 712	PROAGRO	7803	7817	7838	7854
13	BIO - 9681	DMR - 713	BIOSEED	7815	7820	7843	7856
14	SEEDTEC - 2324	DMR - 714	SEEDTEC	7809	7819	7836	7848
15	PARBHAT	DMR - 715	LUDHIANA	7810	7825	7842	7852

TRIAL NO. 202 MEDIUM MATURITY
 YEAR 2002 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF R 4
 LOCATION
 BREEDING LUDHIANA, PANTNAGAR, KARNAL, KANPUR, DELHI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	J H - 10705	DMR - 721	LUDHIANA	7755	7764	7782	7793
2	A H - 23061	DMR - 722	DELHI	7759	7772	7780	7798
3	A H - 23069	DMR - 723	DELHI	7758	7770	7776	7794
4	A H - 24003	DMR - 724	DELHI	7757	7766	7786	7790
5	A H - 24018	DMR - 725	DELHI	7751	7768	7781	7791
6	A H - 24022	DMR - 726	DELHI	7761	7769	7785	7796
7	H K H - 1114	DMR - 727	KARNAL	7753	7767	7784	7787
8	H K H - 1178	DMR - 728	KARNAL	7752	7765	7775	7797
9	H K H - 1204	DMR - 729	KARNAL	7756	7774	7783	7788
10	H K H - 1426	DMR - 730	KARNAL	7762	7773	7779	7795
CHECKS:-							
11	K H - 510	DMR - 731	KANCHANGANGA	7760	7771	7777	7792
12	NAVJOT	DMR - 732	LUDHIANA	7754	7763	7778	7789

TRIAL NO. 203 EARLY MATURITY
 YEAR 2002 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF R 4
 LOCATION
 BREEDING LUDHIANA, PANTNAGAR, KANPUR , KARNAL, DELHI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	H K H - 1112	DMR - 741	KARNAL	7913	7924	7935	7955
2	H K H - 1173	DMR - 742	KARNAL	7915	7920	7938	7959
3	H K H - 1186	DMR - 743	KARNAL	7903	7931	7939	7963
4	H K H - 1187	DMR - 744	KARNAL	7914	7921	7943	7964
5	H K H - 1189	DMR - 745	KARNAL	7902	7928	7936	7951
6	J C - 3263	DMR - 746	LUDHIANA	7909	7926	7947	7953
7	J C - 3272	DMR - 747	LUDHIANA	7907	7927	7942	7960
8	J C - 3284	DMR - 748	LUDHIANA	7912	7922	7937	7950
9	A H - 23037	DMR - 749	DELHI	7916	7932	7933	7956
10	A H - 23043	DMR - 750	DELHI	7904	7918	7945	7958
11	A H - 23051	DMR - 751	DELHI	7910	7925	7940	7962
12	A H - 24004	DMR - 752	DELHI	7905	7917	7944	7952
13	A H - 24010	DMR - 753	DELHI	7908	7923	7941	7949
CHECKS:							
14	PEHM- 3	DMR - 754	DELHI	7906	7929	7934	7954
15	X - 3342	DMR - 755	POC	7901	7930	7946	7961
16	KIRAN	DMR - 756	LUDHIANA	7911	7919	7948	7957

TRIAL NO. 204 EXTRA EARLY MATURITY
 YEAR 2002 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF R 4
 LOCATION
 BREEDING LUDHIANA, PANTNAGAR, KANPUR , KARNAL, DELHI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	A H - 23019	DMR - 761	DELHI	8009	8018	8038	8046
2	A H - 23045	DMR - 762	DELHI	8008	8025	8029	8041
3	A H - 23047	DMR - 763	DELHI	8010	8020	8034	8050
4	A H - 23055	DMR - 764	DELHI	8001	8017	8030	8049
5	A H - 23063	DMR - 765	DELHI	8006	8022	8032	8044
6	J H - 31041	DMR - 766	LUDHIANA	8011	8024	8033	8047
7	J H - 31048	DMR - 767	LUDHIANA	8013	8016	8035	8043
8	H K H - 1175	DMR - 768	KARNAL	8012	8021	8028	8048
9	H K H - 1180	DMR - 769	KARNAL	8007	8023	8036	8045
10	H K H - 1184	DMR - 770	KARNAL	8002	8019	8039	8051
11	H K H - 1476	DMR - 771	KARNAL	8005	8014	8031	8040
CHECKS:							
12	HIM - 129	DMR - 772	ALMORA	8004	8015	8027	8042
13	SURYA	DMR - 773	PANTNAGAR	8003	8026	8037	8052

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF ZONE - 2

F U L L S E A S O N M A T U R I T Y

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	F 9572 A	2	DMR - 1051	MONSANTO
2	PRO - 311	2	DMR - 1052	PROAGRO
3	BIO - 9681	2	DMR - 1053	BIO SEED'S
4	PARBHAT	2	DMR - 1054	LUDHIANA
5	GANGA - 11	2	DMR - 1055	NSC

ZONE - 2

LUDHIANA, DELHI, KANPUR, KARNAL

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF ZONE - 3

F U L L S E A S O N M A T U R I T Y

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	P M Z - 234	3	DMR - 1061	PARAS SEED
2	J K M H - 1090	3	DMR - 1062	J K AGEI
3	F - 1562	3	DMR - 1063	MONSANTO
4	PRO - 311	3	DMR - 1064	PROAGRO
5	BIO - 9681	3	DMR - 1065	BIO SEED'S
6	PARBHAT	3	DMR - 1066	LUDHIANA
7	GANGA - 11	3	DMR - 1067	NSC

ZONE - 3

DHOLI, JASHIPUR, BAHARAICH, VARANASI, AMBIKAPUR

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF ZONE - 4

FULL SEASON MATURITY

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	B I O - 92327	4	DMR - 1071	BIOSEED
2	PRO - 311	4	DMR - 1072	PROAGRO
3	BIO - 9681	4	DMR - 1073	BIO SEED'S
4	PARBHAT	4	DMR - 1074	LUDHIANA
5	GANHA - 11	4	DMR - 1075	NSC

ZONE - 4

ARBHAVI, KARIMNAGAR, KOLHAPUR

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF ZONE - 5

FULL SEASON MATURITY ZONE - 5

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	B I O - 92327	5	DMR - 1081	BIOSEED
2	BISCO - 851	5	DMR - 1082	BISCO SEED
3	N E C H - 110	5	DMR - 1083	SYNGENTA
4	X - 2006	5	DMR - 1084	KANCHANGANGA
5	PRO - 311	5	DMR - 1085	PROAGRO
6	BIO - 9681	5	DMR - 1086	BIO SEED'S
7	PARBHAT	5	DMR - 1087	LUDHIANA
8	GANGA - 11	5	DMR - 1088	NSC

ZONE - 5

UDAIPUR , BANSWARA , GODHERA , CHHINDWARA

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

M E D I U M M A T U R I T Y ZONE - 1

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	BISCO - 3123	1	DMR - 1101	BISCO SEED
2	A A M H - 204	1	DMR - 1102	ADARSH AGRINOVA
3	N E C H - 113	1	DMR - 1103	SYNGENTA
4	X - 2003	1	DMR - 1104	KANCHANGANGA
5	KH 510	1	DMR - 1105	KANCHAN GANGA
6	NAVJOT	1	DMR - 1106	LUDHIANA

ZONE - 1

BAJAURA, SRINAGAR, JORHAT, ALMORA, BARAPANI

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

M E D I U M M A T U R I T Y ZONE - 2

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	H K H - 1206	2	DMR - 1111	KARNAL
2	KAVERI - 235	2	DMR - 1112	GANGA KAVERI
3	KH 510	2	DMR - 1113	KANCHAN GANGA
4	NAVJOT	2	DMR - 1114	LUDHIANA

ZONE - 2

LUDHIANA, DELHI, KANPUR, KARNAL

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

M E D I U M M A T U R I T Y ZONE - 3

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	BISCO SURAJ - 11	3	DMR - 1121	BISCO SEED
2	J K M H - 1080	3	DMR - 1122	JK AGRI
3	X - 2003	3	DMR - 1123	KANCHANGANGA
4	KH 510	3	DMR - 1124	KANCHAN GANGA
5	NAVJOT	3	DMR - 1125	LUDHIANA

ZONE - 3

DHOLI, JASHIPUR, BAHARAICH, VARANASI, AMBIKAPUR

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

M E D I U M M A T U R I T Y ZONE - 4

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	KAVERI - 235	4	DMR - 1131	KAVERI SEEDS
2	KH 510	4	DMR - 1132	KANCHAN GANGA
3	NAVJOT	4	DMR - 1133	LUDHIANA

ZONE - 4

ARBHAVI, KARIMNAGAR, KOLHAPUR

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

M E D I U M M A T U R I T Y ZONE - 5

S NO	PEDIGREE	ZONE CODE	ORIGIN
1	E C - 3116	5 DMR - 1141	UDAIPUR
2	E C - 3110	5 DMR - 1142	UDAIPUR
3	J K M H - 1080	5 DMR - 1143	JK AGRI
4	KAVERI - 235	5 DMR - 1144	KAVERI SEEDS
5	KH 510	5 DMR - 1145	KANCHAN GANGA
6	NAVJOT	5 DMR - 1146	LUDHIANA

ZONE - 5

UDAIPUR , BANSWARA , GODHRA , CHHINDWARA

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

E A R L Y M A T U R I T Y ZONE - 1

S NO	PEDIGREE	ZONE CODE	ORIGIN
1	B I O - 92109	1 DMR - 1041	BIOSEED
2	SEEDTEC - 1204	1 DMR - 1042	SEEDTEC
3	P A C - 70001	1 DMR - 1043	ADVANTA
4	X - 3342	1 DMR - 1044	POC
5	MAHI KANCHAN	1 DMR - 1045	UDAIPUR
6	KIRAN	1 DMR - 1046	LUDHIANA
7	F H - 3176	1 DMR - 1047	ALMORA
8	HIM - 129	1 DMR - 1048	ALMORA
9	SURYA	1 DMR - 1049	PANTNAGAR

ZONE - 1

BAJAURA , KANGRA , ALMORA , BARAPANI

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

E A R L Y M A T U R I T Y ZONE - 2

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	SEEDTEC - 1205	2	DMR - 1036	SEEDTEC
2	HIM - 129	2	DMR - 1037	ALMORA
3	SURYA	2	DMR - 1037	PANTNAGAR

ZONE - 2

LUDHIANA, DELHI, KANPUR, KARNAL

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

E A R L Y M A T U R I T Y ZONE - 3

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	P R O - 340	3	DMR - 1011	PRPAGRO
2	X - 3342	3	DMR - 1012	POC
3	MAHI KANCHAN	3	DMR - 1013	UDAIPUR
4	KIRAN	3	DMR - 1014	LUDHIANA
5	F H - 3186	3	DMR - 1015	ALMORA
6	HIM - 129	3	DMR - 1016	ALMORA
7	SURYA	3	DMR - 1017	PANTNAGAR

ZONE - 3

DHOLI, JASHIPUR, BAHARAICH, VARANASI, AMBIKAPUR

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

E A R L Y M A T U R I T Y ZONE - 4

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	B I O - 92109	4	DMR - 1021	BIOSEED
2	B I O - 92136	4	DMR - 1022	BIOSEED
3	SEEDTEC - 1202	4	DMR - 1023	SEEDTEC
4	P A C - 70001	4	DMR - 1024	ADVANTA
5	X - 3342	4	DMR - 1025	POC
6	MAHI KANCHAN	4	DMR - 1026	UDAIPUR
7	KIRAN	4	DMR - 1027	LUDHIANA
8	F H - 3186	4	DMR - 1028	ALMORA
9	F H - 3176	4	DMR - 1029	ALMORA
10	HIM - 129	4	DMR - 1030	ALMORA
11	SURYA	4	DMR - 1031	PANTNAGAR

ZONE - 4

ARBHAVI, KARIMNAGAR, KOLHAPUR

AGRONOMIC TRIAL : - N x G YEAR 2003 KHARIF

E A R L Y M A T U R I T Y ZONE - 5

S NO	PEDIGREE	ZONE	CODE	ORIGIN
1	R - 9803	5	DMR - 1001	KAMPUR
2	B I O - 92136	5	DMR - 1002	BIOSEED
3	SEEDTEC - 1202	5	DMR - 1003	SEEDTEC
4	F H - 3161	5	DMR - 1004	ALMORA
5	X - 3342	5	DMR - 1005	POC
6	MAHI KANCHAN	5	DMR - 1006	UDAIPUR
7	KIRAN	5	DMR - 1007	LUDHIANA
8	E C - 3108	5	DMR - 1008	UDAIPUR
9	HIM - 129	5	DMR - 1009	ALMORA
10	SURYA	5	DMR - 1010	PANTNAGAR

ZONE - 5

UDAIPUR, BANSWARA, GODHRA, CHINDWARA

BREEDER SEED PRODUCTION FOR KHARIF 2003

Name of the crop- maize

S.No.	Name of the state	Name of the producing centre	Name of the variety	DAC (Q)	Actual allocation As per BSP I (Qtls)	Production Qtls	Deficit(-) Surplus(+) target
1	Uttaranchal	Pantnagar	D 931	0.90	0.90	NR	
			Sweta	0.7	0.7	NR	
			kanchan	0.65	0.65	3.36	2.71
			Surya	0.75	0.75	2.87	2.12
			D -765	0.1	0.1	NR	
			CM 400	1.3	1.3	1.61	0.31
			CM 300	0.68	0.68	0.56	-0.12
CM 600	0.72	0.72	7.3	6.58			
2	Punjab	Ludhiana	Navjot	1.5	1.5	4.70	3.20
			Aget-76	0.05	0.05	1.00	0.95
			Vijay	1.05	1.05	4.00	2.95
			Composite				
			CM-143	0.05	0.05	1.50	1.45
			CM-144	0.03	0.03	1.30	1.27
			CM-139	0.14	0.14	1.88	1.74
			CM-140	0.08	0.08	1.25	1.17
Kesari	0.1	0.1	6.65	6.55			
3	Rajasthan	Banswara	Mahi Dhawal	0.15	0.15	R	
			Mahi Kauchan	0.6	0.6	R	
4	Gujarat	Godhra	Narmada Moti	0.25	0.25	R	
5	M.P.	Chhindwara	Chandan-3	2	2	NR	
6	A.P.	Hyderabad	Madhuri	0.4	0.4	1.50	1.10
			CM 120	0.7	0.7	1.00	0.30
			CM 118	0.33	0.33	0.35	0.02
			CM 119	0.64	0.64	1.20	0.56
			CM 208	0.31	0.31	1.00	0.69
			CM 211	0.3	0.3	0.50	0.20
CM 131	0.2	0.2	0.50	0.30			

S.No.	Name of the state	Name of the producing centre	Name of the variety	DAC indent (Q)	Actual allocation As per BSP I (qtls)	Production Qtls	Deficit(-) Surplus(+) target
7	Bihar	Dholi	CML-142	1.11	1.11	R	
			CML 150	0.55	0.55	R	
			CML 186	0.55	0.55	R	
			Devaki	0.1	0.1	2.03	1.93
			CML 176	0.4	0.4	R	
			P-7421	0.07	0.07	0.75	0.68
8	Uttaranchal	Almora	CM 212	0.2	0.2	0.30	0.10
			CM-141	0.1	0.1	0.15	0.05
9	Karnataka	Dharwad	CM-111	0.05	0.05	0.50	0.45
			CM 500	0.07	0.07	0.10	0.03
			CM 501	0.27	0.27	0.10	-0.17
			CM 202	0.1	0.1	0.50	0.40
			KDMI-4	0.28	0.28	1.00	0.72
			KDMI-10	0.14	0.14	2.00	1.86
10	Delhi	Delhi	CM-213	0.10	0.10	0.10	0.00
			CM 137	0.60	0.60	10.30	9.70
			CM 138	1.14	1.14	3.30	2.16
			CM-136	0.28	0.28	0.28	0.00
			CM-137	0.54	0.54	10.30	9.76
			CM-135	0.35	0.35	0.18	-0.17
			CM-142	0.20	0.20	0.20	0.00
11	M.P.	Indore	NLD White	9.10	9.10	11.50	2.40
12	J & K	Srinagar	Super-1	0.05	0.05	0.05	0.01
13	U.P.	Kanpur	Azad Uttam	0.25	0.25	1.50	1.25
Total				30.69	30.69	89.18	

R- Production being taken in Rabi

NR- NOT reported

BREEDING

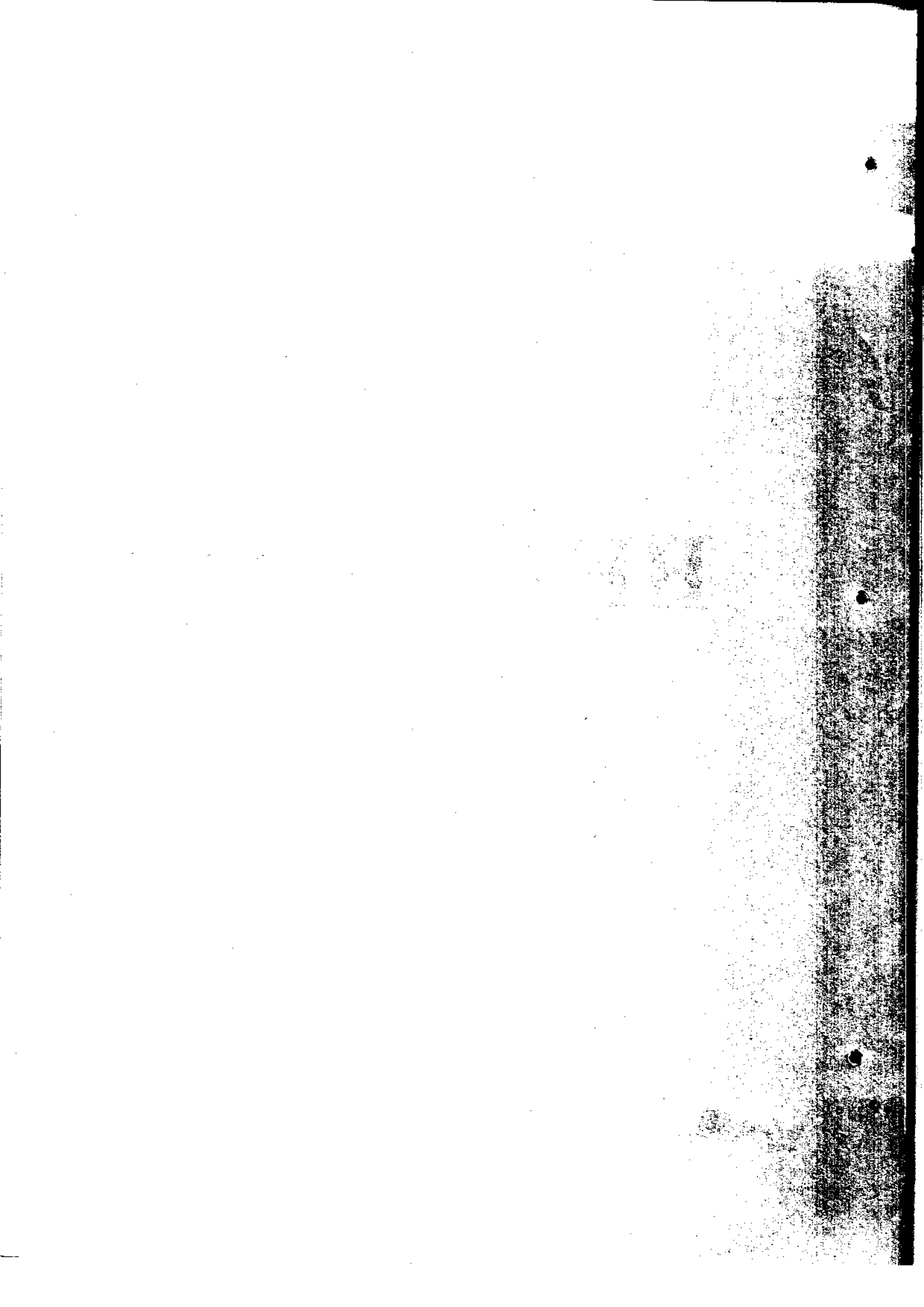


TABLE NO.	C O N T E N T S	PAGE NO.
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TABLE NO.	C O N T E N T S	PAGE NO.
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47	PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 1st YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR68S.	379
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49	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 2nd YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR70S.	381

TABLE NO.	C O N T E N T S	PAGE NO.
50	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 2nd YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR71S.	382
51	PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 2nd YEAR OF 2002 PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR72S.	383
ZONAL TRIALS ZONE - 1		
52	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA IN ZONAL TRIAL No. TR102 DURING KHARIF (2003).	384 - 392
53	PERFORMANCE OF EXTRA EARLY & EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, ALMORA, BAJAURA, KANGRA, IN TRIAL NO. TR103 DURING KHARIF (2003).	393 - 401
54	PERFORMANCE OF EXTRA EARLY & EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, ALMORA, BAJAURA, KANGRA, PANTNAGAR IN TRIAL No. TR103A DURING KHARIF (2003).	402 - 413
ZONAL TRIALS ZONE - 2		
55	PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, KANPUR IN ZONAL TRIAL No. TR201 DURING KHARIF (2003).	414 - 418
56	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR IN ZONAL TRIAL No. TR202 DURING KHARIF (2003).	419 - 422
57	PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT DELHI, LUDHIANA, KARNAL IN ZONAL TRIAL No. TR203 DURING KHARIF (2003).	423 - 425
58	PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL IN ZONAL TRIAL No. TR204 DURING KHARIF (2003).	426 - 428

TABLE NO.	C O N T E N T S	PAGE NO.
ZONAL TRIALS ZONE - 3		
59	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI, JASHIPUR IN TRIAL No. TR301 DURING KHARIF (2003).	429 - 435
60	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, JASHIPUR IN ZONAL TRIAL No. TR302 DURING KHARIF (2003).	436 - 438
ZONAL TRIALS ZONE - 4		
61	PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT JALNA MAHYCO, MAHABEEK AT AKOLA IN TRIAL No. TR402B DURING KHARIF (2003).	439 - 440
ZONAL TRIALS ZONE - 5		
62	PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, CHHINDIWARA IN ZONAL TRIAL No. TR502 DURING KHARIF (2003).	441 - 446
63	PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, CHHINDIWARA IN ZONAL TRIAL No. TR503 DURING KHARIF (2003).	447 - 454
64	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, GODHRA IN TRIAL No. TR512 DURING KHARIF (2003).	455 - 460
65	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, PRATAPGARH, CHHINDIWARA IN TRIAL No. TR514 DURING KHARIF (2003).	461 - 466

TABLE NO. 1

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES AT BAJAURA, KARNAL, KANPUR, VARANASI, AMBIKAPUR, NAGARJUNA HYDERABAD, JKSE HYDERABAD, KARIMNAGAR, POC BANGALORE, PROAGRO BANGALORE, MANDYA, COIMBATORE, KOLHAPUR, MAHYCO JALNA, UDAIPUR, IN IET, TRIAL NO. TR61A DURING KHARIF (2003).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		ZN 1				ZN 2				ZN 3					
		BAJA	R	KARN	R	KANP	R	MEAN	R	VARA	R	AMBI	R	MEAN	R
1	B H - 3294	4287	23	6500	17	3603	18	5052	18	3332	12	5432	31	4382	27
2	B H - 3300	4229	25	7962	4	4793	4	6378	2	3285	16	4457	39	3871	35
3	B H - 3306	5212	2	7270	8	3597	19	5434	10	3187	18	6554	11	4870	8
4	B H - 3309	4764	10	5340	29	3525	23	4432	29	2958	28	6385	14	4671	16
5	B H - 3315	4491	15	7025	13	3279	29	5152	13	3410	10	5738	27	4574	21
6	B H - 3437	4699	11	8155	3	3090	34	5623	7	3422	9	5903	26	4663	17
7	E H - 1259	3654	37	4936	38	3411	27	4173	38	2992	26	4357	40	3675	39
8	H K H - 1168	4378	18	5057	36	3278	30	4167	39	3129	20	6291	17	4710	15
9	H K H - 1211 (Y)	5212	3	7780	6	3088	35	5434	9	2738	31	5978	22	4358	28
10	ZA WH - 2	3916	34	4915	40	3813	12	4364	33	3302	15	4996	34	4149	32
11	J H - 10655	5052	5	6931	14	4112	6	5522	8	2648	34	6400	12	4524	24
12	DMRFG - 22	3619	38	4971	37	3878	9	4425	31	2989	27	4540	38	3764	37
13	DMRFG - 25	4014	31	5207	33	3509	24	4358	34	2297	38	5553	30	3925	33
14	K M H - 9961	4315	22	6746	15	3531	21	5139	14	2655	33	5974	23	4315	29
15	SWS 013 Y-6 NORMAL	4544	14	5451	28	3666	17	4559	26	3089	21	6126	19	4607	20
16	A H - 23065	3505	39	5261	31	3408	28	4334	36	3015	24	4751	36	3883	34
17	P R O - 363	4888	7	7581	7	4998	2	6290	3	3022	23	6055	21	4538	23
18	B I O - 20228	4791	9	7780	5	3808	13	5794	5	2385	37	6197	18	4291	30
19	BISCO - 911	4662	12	6108	21	3069	36	4588	25	3308	14	7249	2	5279	6
20	SEEDTEC - 661	4336	21	5329	30	3952	8	4641	24	3133	19	6390	13	4761	13
21	S G M H - 102	2774	41	7116	10	3026	37	5071	17	1348	41	6330	15	3839	36
22	V I P L - 1902	3861	35	6004	22	3870	10	4937	21	4175	4	5286	33	4731	14
23	A A M H - 531	4069	30	6487	18	3725	15	5106	16	3057	22	5971	24	4514	25
24	X 1282 X	4910	6	7071	12	3666	16	5369	11	4257	3	7866	1	6062	2
25	J K M H - 013	4383	17	5251	32	3529	22	4390	32	2702	32	6893	4	4798	9
26	N E C H - 125	4364	20	7099	11	3144	33	5122	15	4044	6	6759	6	5402	5
27	K D M H - 3437	4134	29	5968	23	3459	25	4713	22	3259	17	6326	16	4792	10

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		ZN 1				ZN 2				ZN 3					
		BAJA	R	KARN	R	KANP	R	MEAN	R	VARA	R	AMBI	R	MEAN	R
28	S S F - X 86	5120	4	4591	41	2994	39	3793	41	3389	11	5904	25	4646	18
29	X - 2007	6701	1	6217	19	3732	14	4974	20	3524	8	5416	32	4470	26
30	G K 3049	4377	19	5589	27	3261	31	4425	30	4056	5	6801	5	5429	4
31	M - 0324	4197	27	6165	20	4347	5	5256	12	3011	25	6097	20	4554	22
32	EAGLE - 9	4435	16	7186	9	2906	41	5046	19	1556	40	4337	41	2947	41
33	M C H - 8	4806	8	5109	34	3423	26	4266	37	2813	29	5638	28	4225	31
34	M C H - 13	3739	36	8365	2	5214	1	6790	1	2800	30	6736	8	4768	12
35	G F - 2008	4247	24	5883	24	3009	38	4446	28	3315	13	6579	10	4947	7
36	G F - 2012	3932	33	6594	16	4982	3	5788	6	5182	1	7064	3	6123	1
CHECKS:															
37	BIO - 9681	4549	13	8572	1	3854	11	6213	4	2543	35	6691	9	4617	19
38	PARBHAT	4207	26	5751	26	2943	40	4347	35	1950	39	4648	37	3299	40
39	GANGA - 11	4003	32	4923	39	3163	32	4043	40	2522	36	4848	35	3685	38
40	SEEDTEC - 2324	3316	40	5769	25	3580	20	4674	23	4787	2	6759	7	5773	3
41	PRO - 311	4177	28	5100	35	3962	7	4531	27	3966	7	5582	29	4774	11
	MEAN YIELD=	4363		6271		3639		4955		3135		5948		4542	
	MEAN STAND	30		28		32		30		38		35		36	
	C.D. AT 5%=	654		277		694		485		750		1435		1093	
	C.V. % =	9.23		2.18		11.73		-		14.72		17.24		-	
	F (Prob)	.000		.000		.000		-		.000		.000		-	
	PLOT SIZE=	4.80		5.60		5.40		-		7.50		7.50		-	
AGRONOMY DATA:															
	SOWING DATE(2003)	7-07		5-07		22-07		-		8-07		10-07		-	
	HARVEST DATE(2003)	3-11		10-10		17-10		-		7-10		-		-	
	IRRIGATION Nos	2		4		-		-		-		-		-	
	FERTILIZER APPLIED N	120		150		120		-		120		100		-	
	P	60		60		60		-		60		60		-	
	K	40		-		60		-		40		40		-	
LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : KANG 20.1% ; UMIA 31.7% ;															
DELH 21.9% ; LUDH 24.1% ; DHOL 26.6% ; KUSH 46.6% ; KRIS 22.6% ; GODH 39.8%															

TABLE NO. 1 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		HYDE				KARI				BANG					
		NAGA	R	JKSE	R	KARI	R	POCB	R	PROA	R	MAND	R	COIM	R
1	B H - 3294	6773	36	5296	34	5965	35	11357	10	10735	27	6976	14	4369	28
2	B H - 3300	7623	27	5917	25	8145	13	9977	24	11567	21	6369	24	3926	34
3	B H - 3306	9512	12	7092	4	7273	24	7755	36	11048	25	6095	30	3798	40
4	B H - 3309	9662	9	6404	18	7857	18	10656	21	11626	20	5688	37	4452	26
5	B H - 3315	9960	6	5737	27	8764	4	11695	7	13754	2	8039	2	5149	19
6	B H - 3437	10158	5	6974	6	8042	16	10157	23	10472	29	6123	29	3864	36
7	E H - 1259	5135	40	4610	38	5572	39	6007	41	6238	41	6522	20	4158	30
8	H K H - 1168	7221	33	5675	29	5618	38	6963	38	8137	39	4210	41	4027	33
9	H K H - 1211 (Y)	10274	2	6671	12	7483	23	8913	32	9676	33	6063	31	5000	20
10	ZA WH - 2	7611	28	5689	28	6576	30	9382	28	9975	31	4385	40	4191	29
11	J H - 10655	9605	10	6101	23	8696	5	12238	3	12210	14	6309	26	7933	1
12	DMRFG - 22	4431	41	5079	35	5527	41	6329	40	8959	36	4389	39	3814	39
13	DMRFG - 25	7002	35	5608	31	6332	34	7093	37	8972	35	7205	12	3847	37
14	K M H - 9961	7451	30	4661	37	6623	29	9468	27	11695	18	6288	27	4141	32
15	SWS 013 Y-6 NORMAL	10176	4	6497	16	7602	20	10863	17	11262	22	7863	5	6904	4
16	A H - 23065	6056	38	4605	39	5539	40	8529	33	8267	38	6661	17	3149	41
17	P R O - 363	7295	32	8227	1	9949	2	12573	2	13553	4	7719	9	6348	8
18	B I O - 20228	7971	25	6094	24	7588	21	10351	22	11670	19	7579	10	5737	15
19	BISCO - 911	9194	13	6534	13	8400	9	12067	4	12965	5	6923	15	5982	12
20	SEEDTEC - 661	8053	24	5298	33	6508	31	9667	25	9497	34	7865	4	5916	13
21	S G M H - 102	7026	34	4201	41	7097	27	11231	12	11205	23	6569	18	6532	7
22	V I P L - 1902	7398	31	5496	32	6492	32	9511	26	10042	30	5700	35	6226	9
23	A A M H - 531	8380	21	5614	30	7065	28	10702	20	10597	28	6550	19	4790	22
24	X 1282 X	10259	3	6938	8	8175	12	13639	1	13669	3	7778	7	4582	24
25	J K M H - 013	9108	14	6455	17	7234	26	9351	29	11981	16	6504	21	6153	10
26	N E C H - 125	8444	19	7989	2	9958	1	10816	18	12309	11	6891	16	5551	16
27	K D M H - 3437	8211	23	6226	20	7239	25	9321	31	12197	15	7786	6	4150	31
28	S S F - X 86	10623	1	6898	9	8474	7	11092	15	12327	10	6344	25	5241	18

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														
		HYDE		JKSE		KARI		POCB		PROA		MAND		COIM		
		R	R	R	R	R	R	R	R	R	R	R	R	R		
29	X - 2007	17	8629	17	6803	10	7880	17	11756	5	10953	26	8141	1	4454	25
30	G K 3049	8	9791	8	6995	5	8081	15	11278	11	12845	8	7772	8	6120	11
31	M - 0324	15	8715	15	6523	15	9322	3	11155	14	12247	13	5046	38	5360	17
32	EAGLE - 9	37	6451	37	4582	40	5846	37	6930	39	7667	40	6222	28	3877	35
33	M C H - 8	20	8429	20	6102	22	8082	14	9326	30	11063	24	6371	23	5776	14
34	M C H - 13	7	9857	7	7638	3	8366	10	10814	19	13755	1	6052	32	4987	21
35	G F - 2008	18	8616	18	6946	7	7767	19	11175	13	12489	9	7058	13	4645	23
36	G F - 2012	16	8688	16	6208	21	8444	8	11447	8	11966	17	7247	11	6535	6
CHECKS:																
37	BIO - 9681	11	9512	11	6317	19	7576	22	11020	16	12305	12	5693	36	7550	2
38	PARBHAT	26	7801	26	5747	26	5955	36	7801	35	9849	32	6409	22	3833	38
39	GANGA - 11	39	5785	39	4719	36	6405	33	7839	34	8923	37	5783	34	4408	27
40	SEEDTEC - 2324	29	7610	29	6774	11	8488	6	11730	6	12938	6	6040	33	6601	5
41	PRO - 311	22	8230	22	6525	14	8347	11	11439	9	12847	7	7937	3	7245	3
	MEAN YIELD=		8262		6109		7472		10034		11133		6565		5154	
	MEAN STAND		41		40		34		33		33		34		24	
	C.D. AT 5% =		2594		1281		1737		2086		1676		1860		666	
	C.V. % =		19.32		14.98		16.61		12.80		9.27		17.44		9.24	
	F (Prob)		.000		.000		.000		.000		.000		.000		.000	
	PLOT SIZE=		5.44		7.50		6.00		4.80		5.52		7.00		4.80	
AGRONOMY DATA:																
	SOWING DATE (2003)		9-07		26-07		18-07		7-07		22-07		3-08		11-07	
	HARVEST DATE (2003)		28-10		15-12		14-11		10-11		4-12		2-12		6-11	
	IRRIGATION NOS		5		8		2		6		-		8		8	
	FERTILIZER APPLIED N		120		120		150		120		120		150		135	
	P		60		50		60		60		60		75		63	
	K		50		30		40		40		40		40		50	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						OV'L			
		KOLH	R	MAHY	R	ZN 4	R	ZN 5	UDAI	R	MEAN
1	B H - 3294	7632	20	6954	24	7340	30	5255	12	6298	28
2	B H - 3300	7209	28	6926	25	7518	27	4912	18	6486	25
3	B H - 3306	7507	21	7397	20	7497	28	2494	41	6386	26
4	B H - 3309	7250	27	7716	16	7923	20	5126	15	6627	21
5	B H - 3315	9292	6	7954	12	8927	6	6658	1	7396	5
6	B H - 3437	7052	31	6464	31	7701	23	3747	34	6555	22
7	E H - 1259	4977	40	4658	41	5320	41	3863	31	4739	41
8	H K H - 1168	6089	37	5315	39	5917	37	4214	27	5307	36
9	H K H - 1211 (Y)	6950	32	8083	10	7679	25	5771	6	6645	20
10	ZA WH - 2	6149	35	6609	30	6730	34	5095	16	5774	33
11	J H - 10655	10281	1	7829	14	9022	4	4900	20	7416	4
12	DMRFG - 22	5626	38	5878	36	5559	40	4193	28	4948	40
13	DMRFG - 25	7286	26	5883	35	6581	35	3774	32	5572	35
14	K M H - 9961	7671	18	6386	33	7154	31	4276	25	6126	32
15	SWS 013 Y-6 NORMAL	7398	23	7420	19	8443	13	3340	36	6813	18
16	A H - 23065	4256	41	5453	38	5835	38	3287	37	5049	39
17	P R O - 363	8483	11	9365	2	9279	1	5459	7	7701	1
18	B I O - 20228	9943	3	6783	29	8191	18	5872	5	6970	15
19	BISCO - 911	9544	4	8822	6	8937	5	5011	17	7323	6
20	SEEDTEC - 661	7073	30	6808	28	7410	29	3973	29	6253	29
21	S G M H - 102	8423	12	6863	26	7683	24	3281	38	6201	30
22	V I P L - 1902	6444	34	6403	32	7079	32	5161	14	6138	31
23	A A M H - 531	7407	22	7664	17	7641	26	5924	4	6534	23
24	X 1282 X	8754	9	9042	3	9204	2	4697	22	7687	2
25	J K M H - 013	9068	7	6832	27	8076	19	6319	2	6784	19
26	N E C H - 125	8108	15	8845	5	8768	7	4442	24	7251	8
27	K D M H - 3437	7394	24	6984	23	7723	22	5260	11	6528	24
28	S S F - X 86	8303	13	8638	7	8660	9	5260	10	7013	14

TABLE NO. 1 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														
		KOLH		JAIN		MAHY		R		ZN 4		ZN 5		OV/L		
		R	MEAN	R	MEAN	R	MEAN	R	MEAN	R	MEAN	R	MEAN	R	MEAN	
29	X - 2007	9963	2	7187	22	8418	15	5930	3	7152	10					
30	G K 3049	6912	33	7904	13	8633	10	3762	33	7036	13					
31	M - 0324	8589	10	8334	9	8366	17	4224	26	6889	16					
32	EAGLE - 9	4997	39	5811	37	5820	39	3271	39	5071	38					
33	M C H - 8	7853	17	7357	21	7818	21	3516	35	6378	27					
34	M C H - 13	9498	5	10668	1	9071	3	3267	40	7450	3					
35	G F - 2008	8239	14	8464	8	8378	16	4650	23	6872	17					
36	G F - 2012	7660	19	7760	15	8440	14	5341	9	7270	7					
CHECKS:																
37	BIO - 9681	9041	8	7446	18	8496	12	4901	19	7171	9					
38	PARBHAT	7163	29	6330	34	6765	33	4717	21	5674	34					
39	GANGA - 11	6102	36	5044	40	6112	36	3937	30	5227	37					
40	SEEDTEC - 2324	7343	25	9005	4	8503	11	5412	8	7077	12					
41	PRO - 311	7903	16	8006	11	8720	8	5227	13	7100	11					
	MEAN YIELD=	7630		7300		7740		4627		6509						
	MEAN STAND	43		37		36		24		34						
	C.D. AT 5%=	2000		1073		1664		473		1284						
	C.V. % =	16.14		10.51		-		7.31		-						
	F (Prob)	.000		.000		-		.000		-						
	PLOT SIZE=	7.50		6.00		-		6.00		-						
AGRONOMY DATA:																
	SOWING DATE(2003)	11-07		16-07		-		8-07		-						
	HARVEST DATE(2003)	7-11		24-11		-		15-10		-						
	IRRIGATION NOS	-		-		-		-		-						
	FERTILIZER APPLIED	N 120		120		-		120		-						
		P 60		60		-		60		-						
		K 40		60		-		-		-						

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681												
		BAJA ZN 1	KARN	KANP	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN	HYDE NAGA	HYDE JKSE				
1	B H - 3294	-	-	24.37	2.65	31.05	-	-	-	-	-	-	-	-
2	B H - 3300	14.57	-	-	-	29.17	-	-	-	-	5.50	-	12.27	-
3	B H - 3306	4.72	-	-	-	25.34	-	-	-	-	1.18	-	1.39	-
4	B H - 3309	-	-	-	-	16.31	-	-	-	-	-	-	-	-
5	B H - 3315	-	-	-	-	34.12	-	-	-	-	1.00	-	10.41	-
6	B H - 3437	3.31	-	-	-	34.59	-	-	-	-	-	-	-	-
7	B H - 1259	-	-	-	-	17.67	-	-	-	-	2.02	-	-	-
8	H K H - 1168	-	-	-	-	23.05	-	-	-	-	-	-	-	-
9	H K H - 1211 (Y)	14.57	-	-	-	7.67	-	-	-	-	-	-	5.60	-
10	ZA WH - 2	-	-	-	-	29.86	-	-	-	-	-	-	-	-
11	J H - 10655	11.05	-	6.70	-	4.14	-	-	-	-	-	-	-	-
12	DMRFG - 22	-	-	0.63	-	17.54	-	-	-	-	0.97	-	-	-
13	DMRFG - 25	-	-	-	-	-	-	-	-	-	-	-	-	-
14	K M H - 9961	-	-	-	-	4.42	-	-	-	-	-	-	-	-
15	SWS 013 Y-6 NORMAL	-	-	-	-	21.50	-	-	-	-	-	-	2.85	-
16	A H - 23065	-	-	-	-	18.57	-	-	-	-	-	-	-	-
17	P R O - 363	7.46	-	29.68	1.23	18.83	-	-	-	-	-	-	30.25	-
18	B I O - 20228	5.32	-	-	-	-	-	-	-	8.34	14.34	-	3.43	-
19	B I O - 911	2.49	-	2.56	-	23.19	-	-	-	-	3.14	-	-	-
20	SEEDTEC - 661	-	-	-	-	64.21	-	-	-	-	2.47	-	-	-
21	S G M H - 102	-	-	0.43	-	20.22	-	-	-	-	-	-	-	-
22	V I P L - 1902	-	-	-	-	67.43	-	-	-	17.57	31.30	-	9.83	-
23	A I M H - 531	-	-	-	-	28.17	-	-	-	3.03	3.92	-	2.19	-
24	X 1282 X	7.94	-	-	-	33.29	-	-	-	1.02	17.00	-	26.47	-
25	J K M H - 013	-	-	-	-	38.59	-	-	-	-	0.64	-	9.20	-
26	N E C H - 125	-	-	-	-	59.52	-	-	-	1.66	17.59	-	7.69	-
27	K E M H - 3437	-	-	-	-	18.42	-	-	-	-	-	-	10.73	-
28	S S F - X 86	12.56	-	-	-	-	-	-	-	-	-	-	3.27	-
29	X - 2007	47.32	-	12.80	-	-	-	-	-	-	-	-	-	-
30	G K 3049	-	-	-	-	10.61	-	-	-	-	-	-	-	-
31	M - 0324	-	-	-	-	30.35	-	-	-	0.68	3.27	-	20.92	-
32	EAGLE - 9	-	-	-	-	103.80	-	-	-	-	7.15	-	9.97	-
33	M C H - 8	5.66	-	35.30	9.28	-	-	-	-	-	-	-	-	-
34	M C H - 13	-	-	-	-	-	-	-	-	-	-	-	-	-
35	G F - 2008	-	-	29.29	-	-	-	-	-	5.59	32.63	-	-	-
36	G F - 2012	-	-	-	-	-	-	-	-	-	-	-	-	-
37	CHECKS: BIO - 9681	-	-	-	-	-	-	-	-	-	-	-	-	-
38	PARBHAT	-	-	-	-	-	-	-	-	-	-	-	-	-
39	CANCA - 11	-	-	-	-	-	-	-	-	-	-	-	-	-
40	SEEDTEC - 2324	-	-	-	-	88.25	-	-	-	1.02	25.04	-	7.24	-
41	PRO - 311	-	-	2.80	-	55.97	-	-	-	-	3.40	-	3.30	-

TABLE NO. 1 (CONT.)

SL NO	PEDIGREE	KARI	GRAIN YIELD BANG POCB	% SUPERIORITY OVER THE BIO BANG PROA	MAND	COIM	KOLH	9681 JALN MAHY	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
1	BH - 3294	-	3.06	-	22.53	-	-	-	-	7.22	-
2	BH - 3300	7.51	-	-	11.87	-	-	-	-	0.22	-
3	BH - 3306	-	-	-	7.05	-	-	-	-	-	-
4	BH - 3309	3.70	-	-	-	-	-	3.62	-	4.59	-
5	BH - 3315	15.67	6.13	11.78	41.20	-	2.77	6.81	5.08	35.85	3.14
6	BH - 3437	6.14	-	-	7.55	-	-	-	-	-	-
7	EH - 1259	-	-	-	14.55	-	-	-	-	-	-
8	HKH - 1168	-	-	-	6.49	-	-	8.56	-	17.74	-
9	HKH - 1211 (Y)	-	-	-	-	-	-	-	-	3.96	-
10	ZAWH - 2	-	-	-	10.80	5.07	13.71	5.14	6.20	-	3.42
11	JH - 10655	14.78	11.06	-	-	-	-	-	-	-	-
12	DMRFG - 22	-	-	-	26.55	-	-	-	-	-	-
13	DMRFG - 25	-	-	-	10.45	-	-	-	-	-	-
14	KMH - 9961	-	-	-	38.10	-	-	-	-	-	-
15	SWS 013 Y-6 NORMAL	0.33	-	-	16.99	-	-	-	-	-	-
16	AHO - 23065	-	-	-	35.57	-	-	25.77	9.22	11.39	7.39
17	PRO - 3633	31.32	14.10	10.14	33.12	-	9.97	-	5.19	19.82	2.11
18	PRO - 20228	0.16	9.50	5.36	21.59	-	5.56	18.48	-	2.25	-
19	BISCO - 911	10.87	-	-	38.14	-	-	-	-	-	-
20	SEEDTEC - 661	-	1.91	-	15.38	-	-	-	-	5.31	-
21	SGMH - 102	-	-	-	0.11	-	-	-	-	20.88	-
22	IPMH - 1902	-	-	-	15.05	-	-	2.92	-	-	7.19
23	VAMH - 531	-	-	-	36.62	-	-	21.43	8.34	-	-
24	X1282 X	7.90	23.77	11.08	14.24	-	0.29	-	-	28.93	-
25	JKMH - 013	-	-	-	21.04	-	-	18.79	3.21	-	1.11
26	KCMH - 125	31.43	-	0.03	36.76	-	-	-	1.93	7.32	-
27	NEMH - 3437	-	-	-	11.43	-	-	16.01	-	20.99	-
28	SSF - X	11.84	0.66	0.17	43.00	-	10.19	6.15	1.62	-	-
29	XGK - 2007	4.01	6.68	4.39	36.51	-	-	11.92	-	-	-
30	SGK - 3049	6.66	2.34	-	9.28	-	-	-	-	-	-
31	GM - 0324	23.04	1.22	-	11.91	-	-	-	-	-	-
32	EAGLE - 9	-	-	-	6.30	-	-	-	-	-	-
33	MCH - 8	6.67	-	-	11.91	-	-	-	-	-	-
34	MCH - 13	10.42	-	11.78	6.30	-	5.05	43.27	6.77	-	3.89
35	MCF - 2008	2.51	1.41	1.49	23.97	-	-	13.67	-	-	-
36	GFF - 2012	11.45	3.88	-	27.29	-	-	4.21	-	8.99	1.38
CHECKS:											
37	BIO - 9681	-	-	-	12.57	-	-	-	-	-	-
38	PARBHAT	-	-	-	1.58	-	-	-	-	-	-
39	GANGA - 11	-	-	-	6.08	-	-	20.94	0.09	10.43	-
40	SEEDTEC - 2324	12.04	6.44	5.14	39.41	-	-	7.52	2.64	6.66	-
41	PRO - 311	10.18	3.80	4.40	-	-	-	-	-	-	-

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD				% SUPERIORITY OVER THE PARBHAT				OV'L MEAN	
		KARI	BANG POCB	BANG PROA	MAND	COIM	KOLH	JALN MAHY	ZN 4 MEAN		ZN 5 UDAI
1	BH - 3294	0.18	45.58	8.99	8.84	13.98	6.54	9.85	8.49	11.41	11.00
2	BH - 3300	36.79	27.89	17.44	-	2.41	0.64	9.40	11.12	4.13	14.32
3	BH - 3306	22.13	36.60	18.17	-	16.15	4.80	16.85	10.82	-	12.55
4	BH - 3315	31.95	49.92	18.04	25.43	34.32	1.21	21.89	17.12	8.67	16.80
5	BH - 3437	47.17	30.21	39.65	-	0.80	29.72	25.64	31.95	41.15	30.36
6	BH - 1259	35.05	-	6.32	1.76	8.48	-	2.12	13.83	-	15.53
7	EHKH - 1168	-	-	-	-	5.06	-	-	-	-	-
8	EHKH - 1211 (Y)	25.67	14.25	-	-	30.42	-	27.69	13.51	22.34	17.12
9	HA WH - 2	10.44	20.27	1.27	-	9.34	-	4.40	8.01	8.01	1.76
10	JH - 10655	46.04	56.88	23.97	-	106.94	43.53	23.67	33.36	3.88	30.71
11	DMRFG - 22	-	-	-	12.42	0.36	1.72	-	-	-	-
12	DMRFG - 25	6.33	21.37	18.74	22.68	8.03	7.10	0.88	5.74	-	7.96
13	KMH - 9961	11.23	39.25	14.34	3.93	80.12	3.28	17.22	24.79	-	20.09
14	SWS 013 Y-6 NORMAL	27.66	9.33	-	-	-	-	-	-	-	-
15	AH - 363	67.09	61.17	37.60	20.43	65.60	18.43	47.94	37.16	15.73	35.73
16	PHO - 20228	27.44	32.69	18.49	18.25	49.66	38.81	7.15	21.07	24.50	22.85
17	BISO - 911	41.07	54.68	31.63	8.01	56.06	33.24	39.37	32.09	6.24	29.06
18	SEEDTEC - 661	9.30	23.91	22.72	22.72	54.33	17.59	7.55	9.52	-	10.21
19	SEEDTEC - 102	19.18	43.96	13.76	2.50	70.39	-	8.41	13.56	9.42	9.30
20	SEEDTEC - 1902	19.03	21.92	1.96	-	62.42	-	1.14	4.64	-	8.18
21	SIPLH - 531	18.65	37.19	7.59	2.20	24.95	3.40	21.06	12.94	25.60	15.16
22	AX 1282 X	37.29	74.83	38.78	21.36	19.54	22.21	42.84	36.04	33.96	35.48
23	JKMH - 013	21.49	19.86	21.64	1.48	60.52	26.60	7.93	19.38	-	19.57
24	JKMH - 125	67.23	38.65	24.98	7.52	44.82	13.20	39.73	29.60	11.51	27.80
25	JKMH - 3437	21.57	19.49	23.84	21.49	36.73	3.23	10.32	14.16	11.52	15.05
26	KSDS - X 86	42.31	42.19	25.15	27.03	16.18	15.91	36.46	28.00	25.72	23.61
27	XG - K 2007	32.34	50.70	11.20	21.27	59.66	39.09	24.86	24.43	-	26.06
28	XG - K 3049	35.71	44.56	30.41	-	39.82	19.90	31.65	27.61	-	24.02
29	XG - K 0324	56.55	42.99	24.35	-	1.13	-	-	23.65	-	21.42
30	EAGLE - 9	-	-	-	-	50.67	9.64	16.22	15.56	-	12.41
31	MCH - 8	35.72	19.55	12.33	-	30.10	32.60	68.53	34.07	-	31.31
32	MCH - 13	40.50	38.63	39.65	-	21.17	15.03	33.71	23.83	-	21.12
33	MCH - 2008	30.43	43.25	26.80	10.13	70.48	6.94	22.58	24.74	13.24	28.14
34	MCF - 2012	41.80	46.73	21.49	13.08	-	-	-	-	-	-
35	G F	-	-	-	-	-	-	-	-	-	-
36	CHECKS:	-	-	-	-	-	-	-	-	-	-
37	BIO - 9681	27.24	41.26	24.93	-	96.95	26.23	17.63	25.57	3.90	26.40
38	PARBHAT	-	-	-	-	-	-	-	-	-	-
39	GANGA - 11	7.56	0.49	-	-	14.99	-	-	-	-	-
40	SEEDTEC - 2324	42.55	50.36	31.36	-	72.21	2.52	42.26	25.69	14.74	24.73
41	PRO - 311	40.18	46.63	30.43	23.84	89.01	10.34	26.47	28.89	10.83	25.13

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	H.turcicum		H.may.		STAND				HARVEST		HYDE
		ZN 1	ZN 4	BAJA	BAJA	BAJA	KARN	KARN	KANP	VARA	AMBI	
1	B H H	1.5	3.7	1.0	0	27	30	32	39	32	32	42
2	B H H	1.1	3.0	1.1	0	31	34	33	40	33	33	40
3	B H H	1.1	3.0	1.1	0	39	30	34	37	33	35	47
4	B H H	1.1	3.8	1.1	0	29	35	31	38	33	36	42
5	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
6	B H H	1.1	3.8	1.1	0	29	35	32	35	33	34	44
7	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
8	B H H	1.1	3.7	1.1	0	29	35	32	35	33	34	44
9	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
10	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
11	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
12	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
13	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
14	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
15	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
16	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
17	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
18	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
19	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
20	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
21	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
22	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
23	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
24	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
25	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
26	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
27	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
28	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
29	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
30	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
31	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
32	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
33	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
34	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
35	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
36	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
37	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
38	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
39	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
40	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44
41	B H H	1.1	3.5	1.1	0	31	32	33	39	33	34	44

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	EAR No. / PLANT		HYDE		BANG		MAND		COIM		KOLH		JAIN		UDAI
		VARA	AMBI	HYDE NAGA	JKSE	KARI	POCB	PROA	MAND	COIM	KOLH	MAHY				
1	B H H	0.91	1.11	0.91	1.11	0.91	1.11	0.91	1.11	0.91	1.11	0.91	1.11	0.91	1.11	1.11
2	B H H	0.95	1.11	0.88	1.11	0.88	1.11	0.88	1.11	0.88	1.11	0.88	1.11	0.88	1.11	1.11
3	B H H	0.92	1.11	0.86	1.11	0.86	1.11	0.86	1.11	0.86	1.11	0.86	1.11	0.86	1.11	1.11
4	B H H	0.92	1.11	0.86	1.11	0.86	1.11	0.86	1.11	0.86	1.11	0.86	1.11	0.86	1.11	1.11
5	B H H	0.94	1.11	0.89	1.11	0.89	1.11	0.89	1.11	0.89	1.11	0.89	1.11	0.89	1.11	1.11
6	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
7	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
8	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
9	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
10	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
11	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
12	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
13	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
14	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
15	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
16	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
17	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
18	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
19	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
20	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
21	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
22	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
23	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
24	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
25	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
26	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
27	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
28	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
29	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
30	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
31	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
32	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
33	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
34	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
35	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
36	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
37	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
38	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
39	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
40	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11
41	B H H	0.97	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	0.93	1.11	1.11

CHECKS: 9681
 BIO - 11
 PARBHAT - 11
 GANGA - 11
 SEEDTEC - 11
 PRO - 311
 MEAN LOCATION
 C.D. AT 5%
 C.V. %
 F (prob)

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	EAR HYDE NAGA	HEIGHT HYDE JKSE	KARI	BANG DOCB	BANG PROA	MAND	COIM	KOLH	JAIN MAHY	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
1	B H H H	88	61	72	100	75	79	83	100	96	84	79	85
2	B H H H	97	54	76	100	92	90	75	92	101	86	84	88
3	B H H H	83	64	71	93	74	86	63	100	86	80	74	83
4	B H H H	109	79	79	93	101	88	77	112	103	94	76	96
5	B H H H	123	94	93	120	99	88	84	113	106	86	85	105
6	B H H H	97	71	81	107	81	99	68	103	105	91	85	89
7	B H H H	78	63	61	87	81	83	71	95	94	79	84	82
8	B H H H	97	78	70	80	81	86	70	110	98	81	84	89
9	B H H H	76	65	61	87	81	74	83	114	105	81	85	81
10	B H H H	103	105	79	117	100	101	70	118	133	103	84	100
11	B H H H	115	95	91	117	112	96	82	125	119	105	89	104
12	B H H H	122	81	81	127	114	103	77	138	124	109	81	106
13	B H H H	127	99	93	110	111	103	72	135	111	94	81	94
14	B H H H	95	73	81	110	104	89	83	130	119	97	84	97
15	B H H H	97	50	74	107	97	86	74	105	111	94	84	97
16	B H H H	77	80	82	103	83	90	84	110	125	80	85	97
17	B H H H	107	80	70	103	77	81	88	117	108	76	81	91
18	B H H H	84	65	65	103	90	87	74	130	101	80	85	91
19	B H H H	96	58	66	107	94	93	78	137	101	83	89	92
20	B H H H	88	53	65	110	83	87	71	123	115	81	84	93
21	B H H H	91	53	66	113	90	84	76	118	114	88	81	92
22	B H H H	83	59	69	110	89	87	73	112	111	89	87	93
23	B H H H	88	73	74	110	76	94	81	118	114	88	84	93
24	B H H H	98	59	69	110	89	88	71	123	115	81	84	92
25	B H H H	96	59	69	90	89	88	73	112	111	89	87	93
26	B H H H	89	69	77	100	91	85	81	110	109	84	85	92
27	B H H H	102	75	75	90	86	92	77	112	111	89	87	93
28	B H H H	88	75	74	103	89	87	81	110	109	84	85	92
29	B H H H	88	69	69	100	89	85	76	112	111	89	87	93
30	B H H H	101	77	74	103	94	86	83	110	109	84	85	92
31	B H H H	106	75	75	103	86	92	81	110	109	84	85	92
32	B H H H	97	76	76	103	94	88	73	112	111	89	87	93
33	B H H H	107	64	66	103	94	85	79	110	109	84	85	92
34	B H H H	107	61	68	103	94	85	79	110	109	84	85	92
35	B H H H	100	78	74	103	89	88	73	110	109	84	85	92
36	B H H H	97	70	74	103	89	88	73	110	109	84	85	92
37	B H H H	85	78	73	100	90	80	84	100	98	87	95	90
38	B H H H	103	79	81	113	100	90	86	113	100	88	91	95
39	B H H H	101	79	80	103	97	90	80	113	100	88	91	95
40	B H H H	87	70	79	100	85	91	84	113	100	88	91	95
41	B H H H	109	65	75	100	96	95	78	110	104	90	88	94
	PRO -	311	72	75	100	93	90	76	110	104	90	88	94
	MEAN	18.3	16.3	13.4	12.1	16.1	4.1	21.0	16.4	15.4	13.0	91	
	C.V. %	11.7	16.3	12.4	12.0	11.1	4.0	12.0	11.4	11.0	11.0		
	F (Prob)	.000	.000	.000	.000	.000	.046	.000	.000	.000	.000		

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)		EAR HEIGHT (cm)		KARN HEIGHT (cm)		ZN MEAN		ZN AMBI		
		COIM	KOLH	JALN MAHY	ZN 4 MEAN	UDAI	OV'L MEAN	ZN 1 BAJA	KARN		KAND	ZN 2 MEAN
1	BH H H	180	178	199	190	178	192	74	105	94	99	79
2	BH H H	179	178	220	195	181	209	76	123	99	111	80
3	BH H H	133	198	220	220	177	209	66	123	99	111	86
4	BH H H	143	198	220	220	179	209	66	123	99	111	86
5	BH H H	169	220	220	220	204	217	85	118	99	110	83
6	BH H H	156	220	220	220	180	217	73	110	99	110	83
7	BH H H	145	220	220	220	176	217	73	110	99	110	83
8	BH H H	145	220	220	220	180	217	73	110	99	110	83
9	BH H H	145	220	220	220	201	217	73	110	99	110	83
10	BH H H	145	220	220	220	201	217	73	110	99	110	83
11	BH H H	145	220	220	220	201	217	73	110	99	110	83
12	BH H H	145	220	220	220	201	217	73	110	99	110	83
13	BH H H	145	220	220	220	201	217	73	110	99	110	83
14	BH H H	145	220	220	220	201	217	73	110	99	110	83
15	BH H H	145	220	220	220	201	217	73	110	99	110	83
16	BH H H	145	220	220	220	201	217	73	110	99	110	83
17	BH H H	145	220	220	220	201	217	73	110	99	110	83
18	BH H H	145	220	220	220	201	217	73	110	99	110	83
19	BH H H	145	220	220	220	201	217	73	110	99	110	83
20	BH H H	145	220	220	220	201	217	73	110	99	110	83
21	BH H H	145	220	220	220	201	217	73	110	99	110	83
22	BH H H	145	220	220	220	201	217	73	110	99	110	83
23	BH H H	145	220	220	220	201	217	73	110	99	110	83
24	BH H H	145	220	220	220	201	217	73	110	99	110	83
25	BH H H	145	220	220	220	201	217	73	110	99	110	83
26	BH H H	145	220	220	220	201	217	73	110	99	110	83
27	BH H H	145	220	220	220	201	217	73	110	99	110	83
28	BH H H	145	220	220	220	201	217	73	110	99	110	83
29	BH H H	145	220	220	220	201	217	73	110	99	110	83
30	BH H H	145	220	220	220	201	217	73	110	99	110	83
31	BH H H	145	220	220	220	201	217	73	110	99	110	83
32	BH H H	145	220	220	220	201	217	73	110	99	110	83
33	BH H H	145	220	220	220	201	217	73	110	99	110	83
34	BH H H	145	220	220	220	201	217	73	110	99	110	83
35	BH H H	145	220	220	220	201	217	73	110	99	110	83
36	BH H H	145	220	220	220	201	217	73	110	99	110	83
37	BH H H	145	220	220	220	201	217	73	110	99	110	83
38	BH H H	145	220	220	220	201	217	73	110	99	110	83
39	BH H H	145	220	220	220	201	217	73	110	99	110	83
40	BH H H	145	220	220	220	201	217	73	110	99	110	83
41	BH H H	145	220	220	220	201	217	73	110	99	110	83

CHECKS: 9681
 PARBHAT 11
 GANGA 2324
 SEEDTEC 311
 PRO-LOCATION 5%
 C.V. AT =
 F. (Prob)

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)		KARN	KAMP	ZN			HYDE NAGA	HYDE JKSE		KARI	BANG POCE	BANG PROA	MAND
		BAJA	KARN			MEAN	AMBI	JKSE		KARI					
1	B H H H	172	205	200	203	222	210	220	202	180	163	217	243	242	183
2	B H H H	195	255	189	222	218	222	222	222	208	182	233	207	244	202
3	B H H H	184	233	209	218	216	222	222	222	216	181	237	247	236	194
4	B H H H	197	245	183	206	214	222	222	222	208	180	243	207	237	194
5	B H H H	180	222	199	206	214	222	222	222	208	180	243	207	237	194
6	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
7	B H H H	156	228	170	189	206	214	222	222	208	180	243	207	237	194
8	B H H H	177	220	183	189	206	214	222	222	208	180	243	207	237	194
9	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
10	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
11	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
12	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
13	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
14	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
15	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
16	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
17	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
18	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
19	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
20	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
21	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
22	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
23	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
24	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
25	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
26	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
27	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
28	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
29	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
30	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
31	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
32	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
33	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
34	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
35	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
36	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
37	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
38	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
39	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
40	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194
41	B H H H	176	215	183	189	206	214	222	222	208	180	243	207	237	194

TABLE NO. 1 (CONT.)

S1 No	PEDIGREE	UNIFORMITY *										OV'L MEAN		
		ZN 1 BAJA	ZN 2 KANP	ZN 3 AMBI	HYDE JKSE	KARI	BANG POCB	MAND	COIM	KOLH	ZN 4 MEAN		ZN 5 UDAI	
1	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
2	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
3	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
4	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
5	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
6	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
7	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
8	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
9	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
10	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
11	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
12	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
13	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
14	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
15	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
16	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
17	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
18	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
19	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
20	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
21	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
22	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
23	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
24	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
25	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
26	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
27	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
28	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
29	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
30	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
31	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
32	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
33	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
34	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
35	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
36	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
37	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
38	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
39	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
40	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1
41	B H H H	2	2	2	1	1	1	1	2	2	1	2	2	1

CHECKS: 9681
 BIO - 9681
 PARBHAT - 11
 GANGA - 11
 SEEDTEC - 2324
 PRO - 311
 MEAN LOCATION
 C.D. AT 5%
 F. (Prob) =

TABLE NO. 1 (CONT.)

S1 No	PEDIGREE	HUSK COVER *		ZN 3 AMBI	HYDE JKSE	KARI	MAND	COIM	KOLH	ZN 4		ZN 5 UDAI	OV'L MEAN
		ZN 1 BAJA	ZN 2 KAND							MEAN	UDAI		
1	B H H	3294	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
2	B B H	3300	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
3	B B H	3306	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
4	B B H	3309	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
5	B B H	3315	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
6	B B H	3337	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
7	B B H	3437	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
8	H H H	1259	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
9	H H H	1168	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
10	ZA WH	1211	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
11	T H	10655	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
12	J DMRFG	225	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
13	K M H	25	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
14	SMS 013	9961	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
15	A H R O	23065	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
16	P P O	363	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
17	B I S C O	911	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
18	SEEDTEC	661	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
19	S G M H	1902	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
20	V A X 1282	531	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
21	X P L H	86	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
22	A X 1282	013	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
23	T K M H	13	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
24	N K M H	1257	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
25	J K M H	3437	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
26	S S F	86	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
27	S S F	86	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
28	S S F	86	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
29	S S F	86	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
30	S S F	86	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
31	M C H	13	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
32	M C H	13	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
33	M C H	13	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
34	M C H	13	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
35	M C H	13	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
36	G F	2008	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
37	G F	2012	0.3	2.2	1.1	3.3	3.3	3.4	3.2	3.3	3.3	3.5	3.3
38	CHECKS: 9681												
39	BIO												
40	PAPRHAT												
41	GANGA	11	2324										
42	SEEDTEC	311											
43	PRO	5%											
44	MEAN LOCATION												
45	C.V. AT 5%												
46	F (Prob)												

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *										OV/1 MEAN		
		ZN 1	ZN 2	ZN 3	HYDE	HYDE	KARI	BANG	MAND	COIM	KOLH		ZN 4	ZN 5
		BAJA	KANP	AMBI	NAGA	JKSE	POCB	MAND	COIM	KOLH	MEAN	UDAI		
1	B H H H	3294	3555	3555	3300	3555	3555	3555	3555	3555	3555	3555	3555	3555
2	B H H H	3300	3555	3555	3300	3555	3555	3555	3555	3555	3555	3555	3555	3555
3	B B B H	3306	3555	3555	3306	3555	3555	3555	3555	3555	3555	3555	3555	3555
4	B B B H	3309	3555	3555	3309	3555	3555	3555	3555	3555	3555	3555	3555	3555
5	B B B H	3315	3555	3555	3315	3555	3555	3555	3555	3555	3555	3555	3555	3555
6	B B B H	3437	3555	3555	3437	3555	3555	3555	3555	3555	3555	3555	3555	3555
7	H H H H	12559	3555	3555	12559	3555	3555	3555	3555	3555	3555	3555	3555	3555
8	H H H H	1168	3555	3555	1168	3555	3555	3555	3555	3555	3555	3555	3555	3555
9	Z A W H	1211	3555	3555	1211	3555	3555	3555	3555	3555	3555	3555	3555	3555
10	J A W H	2	3555	3555	2	3555	3555	3555	3555	3555	3555	3555	3555	3555
11	J A W H	10655	3555	3555	10655	3555	3555	3555	3555	3555	3555	3555	3555	3555
12	D M R F G	222	3555	3555	222	3555	3555	3555	3555	3555	3555	3555	3555	3555
13	D M R F G	25	3555	3555	25	3555	3555	3555	3555	3555	3555	3555	3555	3555
14	K M H	9661	3555	3555	9661	3555	3555	3555	3555	3555	3555	3555	3555	3555
15	S M S	013	3555	3555	013	3555	3555	3555	3555	3555	3555	3555	3555	3555
16	A R H	23065	3555	3555	23065	3555	3555	3555	3555	3555	3555	3555	3555	3555
17	P R H	3063	3555	3555	3063	3555	3555	3555	3555	3555	3555	3555	3555	3555
18	P R H	20228	3555	3555	20228	3555	3555	3555	3555	3555	3555	3555	3555	3555
19	S E E D T E C	911	3555	3555	911	3555	3555	3555	3555	3555	3555	3555	3555	3555
20	S E E D T E C	661	3555	3555	661	3555	3555	3555	3555	3555	3555	3555	3555	3555
21	V A T A	1902	3555	3555	1902	3555	3555	3555	3555	3555	3555	3555	3555	3555
22	X T N K S	531	3555	3555	531	3555	3555	3555	3555	3555	3555	3555	3555	3555
23	X T N K S	013	3555	3555	013	3555	3555	3555	3555	3555	3555	3555	3555	3555
24	X T N K S	1257	3555	3555	1257	3555	3555	3555	3555	3555	3555	3555	3555	3555
25	X T N K S	3437	3555	3555	3437	3555	3555	3555	3555	3555	3555	3555	3555	3555
26	X T N K S	86	3555	3555	86	3555	3555	3555	3555	3555	3555	3555	3555	3555
27	X T N K S	2007	3555	3555	2007	3555	3555	3555	3555	3555	3555	3555	3555	3555
28	X T N K S	3049	3555	3555	3049	3555	3555	3555	3555	3555	3555	3555	3555	3555
29	X T N K S	0324	3555	3555	0324	3555	3555	3555	3555	3555	3555	3555	3555	3555
30	X T N K S	9	3555	3555	9	3555	3555	3555	3555	3555	3555	3555	3555	3555
31	X T N K S	8	3555	3555	8	3555	3555	3555	3555	3555	3555	3555	3555	3555
32	X T N K S	13	3555	3555	13	3555	3555	3555	3555	3555	3555	3555	3555	3555
33	X T N K S	2008	3555	3555	2008	3555	3555	3555	3555	3555	3555	3555	3555	3555
34	X T N K S	2012	3555	3555	2012	3555	3555	3555	3555	3555	3555	3555	3555	3555
35	X T N K S	2012	3555	3555	2012	3555	3555	3555	3555	3555	3555	3555	3555	3555
36	X T N K S	2012	3555	3555	2012	3555	3555	3555	3555	3555	3555	3555	3555	3555
37	X T N K S	9681	3555	3555	9681	3555	3555	3555	3555	3555	3555	3555	3555	3555
38	X T N K S	11	3555	3555	11	3555	3555	3555	3555	3555	3555	3555	3555	3555
39	X T N K S	11	3555	3555	11	3555	3555	3555	3555	3555	3555	3555	3555	3555
40	X T N K S	2324	3555	3555	2324	3555	3555	3555	3555	3555	3555	3555	3555	3555
41	X T N K S	311	3555	3555	311	3555	3555	3555	3555	3555	3555	3555	3555	3555
	X T N K S	5%	3555	3555	5%	3555	3555	3555	3555	3555	3555	3555	3555	3555
	X T N K S	10.00	3555	3555	10.00	3555	3555	3555	3555	3555	3555	3555	3555	3555

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	PLANT ASPECT *					HYDE JKSE	KARI	BANG POGB	MAND	COIM	KOLH	ZN			OV'L MEAN
		ZN 1 BAJA	ZN 2 KANP	ZN 3 AMBI	ZN 4 MEAN	ZN 5 UDAI										
1	H H H	2294	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
2	H H H	3300	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
3	H H H	3306	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
4	H H H	3309	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
5	H H H	3315	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
6	H H H	3437	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
7	H H H	1259	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
8	H H H	1168	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
9	H H H	1211	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
10	Z A WH	2555	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
11	J DMRFG	10655	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
12	H H H	2222	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
13	DMRFG	2222	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
14	K M H	9961	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
15	SWS	013	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
16	A R O	23065	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
17	P R O	3633	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
18	B I S C O	20228	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
19	S E D T E C	911	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
20	S S V A	1282	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
21	X H X	531	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
22	S S H A	1902	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
23	S S H A	1902	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
24	X H X	531	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
25	S S H A	1257	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
26	T K M H	13437	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
27	K M H	86	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
28	S S X F	2007	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
29	M G X K	3049	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
30	M G X K	0324	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
31	M G X K	9	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
32	E A G L E	8	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
33	M C C H	13	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
34	M C C H	2008	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
35	M C C H	2012	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
36	C H E C K S :	9681	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
37	B I O	11	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
38	P A R B H A T	2324	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
39	G A N G A	11	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
40	S E E D T E C	311	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
41	P R O	311	2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
	M E A N L O C A T I O N		2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
	C . V . %		2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222
	F . (P r o b)		2222	2222	2222	2222	500	275	070	334	302	302	335	222	335	222

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	MOISTURE %		AT HARVEST			BANG		MAND	KOLH	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
		BAJA	KANP	VARA	HYDE	POCB	PROA						
1	BH	27.2	15.6	3.6	13.4	2.9	3.3	1.8	1.5	1.8	1.5	1.1	1.1
2	BH	26.3	15.5	3.2	14.4	2.7	3.4	1.9	1.8	1.9	1.6	1.1	1.1
3	BH	24.7	15.3	3.0	14.5	2.8	3.5	2.0	1.9	2.0	1.7	1.1	1.1
4	BH	22.4	15.1	2.9	14.3	2.6	3.3	2.0	1.8	2.0	1.6	1.1	1.1
5	BH	22.3	15.0	2.8	14.4	2.7	3.4	2.0	1.9	2.0	1.7	1.1	1.1
6	BH	22.7	15.2	3.1	14.3	2.9	3.3	2.0	1.8	2.0	1.7	1.1	1.1
7	BH	22.5	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
8	BH	22.0	15.0	2.9	14.3	2.7	3.3	2.0	1.8	2.0	1.6	1.1	1.1
9	BH	22.5	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
10	NA WH	22.5	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
11	JH	22.6	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
12	DMRFG	22.3	15.0	2.9	14.3	2.7	3.3	2.0	1.8	2.0	1.6	1.1	1.1
13	H	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
14	KM	22.6	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
15	SWS	22.0	15.0	2.9	14.3	2.7	3.3	2.0	1.8	2.0	1.6	1.1	1.1
16	AR	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
17	P	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
18	B	22.4	15.0	2.9	14.3	2.7	3.3	2.0	1.8	2.0	1.6	1.1	1.1
19	B	22.5	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
20	SEEDTEC	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
21	S	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
22	V	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
23	A	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
24	X	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
25	A	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
26	J	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
27	K	22.5	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
28	N	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
29	S	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
30	X	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
31	M	22.5	15.0	2.9	14.3	2.7	3.3	2.0	1.8	2.0	1.6	1.1	1.1
32	C	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
33	M	22.7	15.2	3.1	14.5	2.9	3.5	2.0	1.9	2.0	1.7	1.1	1.1
34	C	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
35	F	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
36	F	22.6	15.1	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
37	BIO	25.3	16.7	4.6	13.9	5.8	3.0	1.7	1.9	1.8	1.5	0.9	2.1
38	PARBHAT	25.0	16.5	4.5	14.0	5.7	2.9	1.7	1.9	1.8	1.5	0.9	2.1
39	GANGA	26.4	15.5	3.7	14.5	7.9	4.2	1.9	2.0	1.9	1.6	1.1	2.1
40	SEEDTEC	24.5	15.0	3.2	14.4	3.6	3.3	1.8	1.9	1.8	1.5	0.9	2.1
41	PRO	24.1	15.6	3.6	14.3	3.9	3.6	1.9	1.9	1.8	1.5	0.9	2.1
	MEAN	22.5	15.0	3.0	14.4	2.8	3.4	2.0	1.9	2.0	1.7	1.1	1.1
	LOCATION	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C.V. AT 5% =	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	F (Prob)	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	DAYS TO ZN 1 BAJA	TO ZN 2 KARN	50% DRY VARA	HUSK AMBI	ZN 3 MEAN	KARI	BANG PROA	MAND	COIM	KOLH	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
1	BH	113	86	0	89	85	90	0	3	101	88	7	5	93
2	BH	106	85	0	91	82	89	0	3	101	85	7	5	93
3	BH	105	88	0	87	85	90	0	3	101	85	7	5	93
4	BH	108	84	0	88	82	88	0	3	101	85	7	5	93
5	BH	106	83	0	87	82	88	0	3	101	85	7	5	93
6	BH	105	84	0	87	82	88	0	3	101	85	7	5	93
7	BH	106	83	0	87	82	88	0	3	101	85	7	5	93
8	BH	107	84	0	87	82	88	0	3	101	85	7	5	93
9	BH	107	84	0	87	82	88	0	3	101	85	7	5	93
10	ZA WH	108	84	0	87	82	88	0	3	101	85	7	5	93
11	DMRFG	107	84	0	87	82	88	0	3	101	85	7	5	93
12	DMRFG	107	84	0	87	82	88	0	3	101	85	7	5	93
13	DMRFG	107	84	0	87	82	88	0	3	101	85	7	5	93
14	DMRFG	107	84	0	87	82	88	0	3	101	85	7	5	93
15	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
16	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
17	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
18	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
19	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
20	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
21	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
22	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
23	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
24	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
25	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
26	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
27	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
28	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
29	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
30	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
31	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
32	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
33	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
34	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
35	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
36	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
37	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
38	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
39	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
40	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93
41	KMH	105	84	0	87	82	88	0	3	101	85	7	5	93

CHECKS: 9681
 BIO - 11
 PARBHAT - 11
 GANGA - 11
 SEEDTEC - 2324
 PRO - 311
 MEAN LOCATION
 C.D. AT 5%
 C.V. % =
 F. (Prob)

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	DAYS HYDE NAGA	TO 50% HYDE JKSE	SILKING KARI	BANG POCH	BANG PROA	MAND	COIM	KOLH	JAIN MAHY	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
1	B H H H	56.0	58.1	53.2	54.6	60.3	50.4	58.5	57.9	57.9	23.3	38.3	58.3
2	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
3	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
4	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
5	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
6	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
7	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
8	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
9	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
10	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
11	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
12	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
13	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
14	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
15	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
16	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
17	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
18	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
19	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
20	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
21	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
22	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
23	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
24	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
25	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
26	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
27	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
28	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
29	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
30	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
31	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
32	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
33	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
34	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
35	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
36	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
37	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
38	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
39	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
40	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3
41	B B H H	59.0	58.3	52.2	56.3	57.1	49.1	59.0	58.4	58.3	33.6	49.3	57.3

CHECKS:
 BIO - 9681
 PARBHAT - 11
 GANGA - 11
 SEEDTEC - 311
 PRO - 311
 MEAN LOCATION
 C.D. AT 5% =
 C.V. (%) =
 F. (Prob) =

TABLE NO. 1 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50%		POLLEN SHED		DAYS TO 50%		SILKING		ZNI MEAN
		COIM	KOLH	JAIN MAHY	ZN 4 MEAN	ZN 1 BAJA	ZN 2 KARN	VARA	AMBI	
1	BH	3294	370	54	71	57	70	44	68	56
2	BH	3300	370	55	71	57	70	44	68	56
3	BH	3306	370	55	71	57	70	44	68	56
4	BH	3309	370	55	71	57	70	44	68	56
5	BH	3315	370	55	71	57	70	44	68	56
6	BH	3437	370	55	71	57	70	44	68	56
7	BH	1235	370	55	71	57	70	44	68	56
8	BH	1168	370	55	71	57	70	44	68	56
9	BH	1211	370	55	71	57	70	44	68	56
10	BH	1065	370	55	71	57	70	44	68	56
11	BH	1055	370	55	71	57	70	44	68	56
12	BH	22	370	55	71	57	70	44	68	56
13	BH	25	370	55	71	57	70	44	68	56
14	BH	961	370	55	71	57	70	44	68	56
15	BH	Y-6	370	55	71	57	70	44	68	56
16	BH	013	370	55	71	57	70	44	68	56
17	BH	23	370	55	71	57	70	44	68	56
18	BH	065	370	55	71	57	70	44	68	56
19	BH	202	370	55	71	57	70	44	68	56
20	BH	2022	370	55	71	57	70	44	68	56
21	BH	91	370	55	71	57	70	44	68	56
22	BH	2022	370	55	71	57	70	44	68	56
23	BH	661	370	55	71	57	70	44	68	56
24	BH	102	370	55	71	57	70	44	68	56
25	BH	531	370	55	71	57	70	44	68	56
26	BH	1282	370	55	71	57	70	44	68	56
27	BH	X	370	55	71	57	70	44	68	56
28	BH	013	370	55	71	57	70	44	68	56
29	BH	125	370	55	71	57	70	44	68	56
30	BH	343	370	55	71	57	70	44	68	56
31	BH	86	370	55	71	57	70	44	68	56
32	BH	X	370	55	71	57	70	44	68	56
33	BH	8	370	55	71	57	70	44	68	56
34	BH	13	370	55	71	57	70	44	68	56
35	BH	2012	370	55	71	57	70	44	68	56
36	BH	2018	370	55	71	57	70	44	68	56
37	BH	9681	370	55	71	57	70	44	68	56
38	BH	11	370	55	71	57	70	44	68	56
39	BH	2324	370	55	71	57	70	44	68	56
40	BH	311	370	55	71	57	70	44	68	56
41	BH	5%	370	55	71	57	70	44	68	56
42	BH	5%	370	55	71	57	70	44	68	56
43	BH	1.000	370	55	71	57	70	44	68	56
44	BH	1.000	370	55	71	57	70	44	68	56

TABLE NO. 1 (CONT.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED		VARA	AMBI	ZN 3 MEAN	HYDE NAGA	HYDE JKSE	KARI	BANG POGB	BANG PROA	MAND
		BAJA	KARN									
1	BH	3294	50	0	5.8	3.2	3.0	3.3	3.0	7.7	3.0	4.8
2	BH	3300	50	0	5.4	2.5	3.0	3.3	3.0	7.7	3.0	4.8
3	BH	3306	50	0	5.1	2.3	3.0	3.3	3.0	7.7	3.0	4.8
4	BH	3309	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
5	BH	3315	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
6	BH	3437	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
7	BH	1259	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
8	BH	1168	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
9	BH	1211	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
10	BH	1065	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
11	BH	255	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
12	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
13	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
14	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
15	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
16	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
17	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
18	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
19	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
20	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
21	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
22	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
23	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
24	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
25	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
26	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
27	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
28	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
29	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
30	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
31	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
32	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
33	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
34	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
35	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
36	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
37	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
38	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
39	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
40	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8
41	BH	225	50	0	5.0	2.2	3.0	3.3	3.0	7.7	3.0	4.8

CHECKS: 9681
 BIO - 11
 PARBHA - 11
 GANGA - 11
 SEEDTEC - 11
 PRO - 311
 MEAN LOCATION
 C.D. AT 5%
 F. (Prob)

TABLE NO. 1 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD										OV'L MEAN			
		KARI	BANG POCB	% BANG PROA	SUPERIORITY MAND	OVER THE COIM	PRO - KOLH	311 JAIN MAHY	ZN 4 MEAN	ZN 5 UDAI					
1	B H -	3294	-	-	-	-	-	-	-	-	-	-	-	-	-
2	B H -	3300	-	-	-	-	-	-	-	-	-	-	-	-	-
3	B H -	3306	-	-	-	-	-	-	-	-	-	-	-	-	-
4	B H -	3309	-	-	-	-	-	-	-	-	-	-	-	-	-
5	B H -	3315	4.98	2.24	7.06	1.28	-	-	-	-	-	-	2.37	27.36	4.18
6	B H -	3437	-	-	-	-	-	-	-	-	-	-	-	-	-
7	E H -	1259	-	-	-	-	-	-	-	-	-	-	-	-	-
8	H K H -	1168	-	-	-	-	-	-	-	-	-	-	-	-	-
9	H K H -	1211	-	-	-	-	-	-	-	-	-	0.97	-	10.39	-
10	ZA WH -	2	-	-	-	-	-	-	-	-	-	-	-	-	-
11	J H -	10655	4.18	6.99	-	-	-	-	9.49	30.08	-	-	3.47	-	4.46
12	DMRFG -	22	-	-	-	-	-	-	-	-	-	-	-	-	-
13	DMRFG -	25	-	-	-	-	-	-	-	-	-	-	-	-	-
14	K M H -	9961	-	-	-	-	-	-	-	-	-	-	-	-	-
15	SWS 013 Y-6	NORMAL	-	-	-	-	-	-	-	-	-	-	-	-	-
16	A H -	23065	-	-	-	-	-	-	-	-	-	-	-	-	-
17	P R O -	363	19.19	9.92	5.49	-	-	-	-	7.33	16.98	-	6.41	4.43	8.47
18	B I S C O -	20228	-	-	-	-	-	-	-	25.80	10.20	-	2.48	12.34	3.14
19	B I S C O -	911	0.63	5.49	0.92	-	-	-	-	20.76	10.20	-	-	-	-
20	SEEDTEC -	661	-	-	-	-	-	-	-	6.57	-	-	-	-	-
21	S G M H -	102	-	-	-	-	-	-	-	-	-	-	-	-	-
22	S I A M H -	1902	-	-	-	-	-	-	-	-	-	-	-	-	-
23	A X 1282 X	531	-	-	-	-	-	-	-	-	-	-	-	-	-
24	J K M H -	013	-	19.23	6.40	-	-	-	-	10.76	12.94	-	5.55	13.33	8.27
25	N K M H -	125	19.29	-	-	-	-	-	-	14.73	10.48	-	0.55	20.87	2.13
26	E C H -	3437	-	-	-	-	-	-	-	2.59	-	-	-	-	-
27	K D M H -	86	1.51	2.77	-	-	-	-	-	5.05	7.90	-	-	0.62	-
28	S S F -	X	-	-	-	-	-	-	-	26.05	-	-	-	13.43	0.74
29	S X -	2007	-	-	-	-	-	-	-	8.67	4.10	-	-	-	-
30	G K -	3049	11.67	0.07	-	-	-	-	-	8.67	4.10	-	-	-	-
31	M -	0324	-	-	-	-	-	-	-	-	-	-	-	-	-
32	EAGLE -	9	-	-	-	-	-	-	-	-	-	-	-	-	-
33	M C H -	8	-	-	-	-	-	-	-	-	-	-	-	-	-
34	M C H -	13	0.22	-	7.07	-	-	-	-	20.17	33.25	-	4.02	-	4.94
35	G F -	2008	-	-	-	-	-	-	-	4.25	5.72	-	-	-	-
36	G F -	2012	1.15	0.07	-	-	-	-	-	-	-	-	-	2.18	2.40
CHECKS:															
37	BIO -	9681	-	-	-	-	-	-	4.20	14.40	-	-	-	-	1.01
38	PARBHAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	GANGA	11	-	-	-	-	-	-	-	-	-	-	-	-	-
40	SEEDTEC -	2324	1.69	2.54	0.71	-	-	-	-	-	12.48	-	-	3.53	-
41	PRO -	311	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE NO. 1 (CONT.)

SI No	PEDIGREE	GRAIN YIELD		% SUPERIORITY OVER THE PRO	PRIORITY MEAN		VARA	AMBI	311		HYDE NAGA	HYDE JKSE
		ZN 1 BAJA	KARN		ZN 2 MEAN	VARA			ZN 3 MEAN	HYDE		
1	B H H	2.64	27.47	-	11.50	-	-	-	-	-	-	-
2	B H H	1.25	56.13	20.98	40.76	-	-	17.42	2.02	15.58	-	8.68
3	B H H	24.78	42.57	-	19.93	-	-	14.40	-	17.40	-	-
4	B H H	14.05	37.75	-	13.71	-	-	2.80	-	21.02	-	-
5	B H H	7.53	59.92	-	24.10	-	-	5.76	-	23.43	-	6.88
6	B H H	12.51	-	-	-	-	-	-	-	-	-	-
7	B H H	4.82	52.55	-	19.93	-	-	12.71	-	24.84	-	2.23
8	H K H	24.78	-	-	21.87	-	-	14.66	-	16.71	-	-
9	H K H	20.95	35.91	3.79	21.87	-	-	7.04	-	23.65	-	-
10	J H H	10655	-	-	-	-	-	-	-	-	-	-
11	Z A W H	2	-	-	-	-	-	-	-	-	-	-
12	D M R F G	22	2.11	-	13.42	-	-	9.75	-	11.71	-	26.09
13	D M R F G	25	32.29	-	27.89	-	-	11.04	-	10.57	-	-
14	K M H	9961	3.16	26.15	2.43	-	-	14.42	-	11.71	-	0.13
15	S W S	013 Y-6	8.78	-	0.62	-	-	29.87	-	11.71	-	-
16	A P R O	23065	17.04	48.66	38.82	-	5.28	6.99	26.98	1.83	6.32	-
17	A P R O	363	14.71	52.56	27.89	-	7.34	40.93	0.50	24.65	6.32	-
18	B I S C O	20228	11.63	19.78	1.27	-	-	23.50	13.15	2.60	22.43	-
19	B I S C O	911	3.81	4.50	2.92	-	1.97	21.10	0.39	29.09	5.71	-
20	S E E D T E C	661	39.53	17.73	8.97	-	-	13.33	-	4.85	4.25	-
21	S E E D T E C	1902	37.97	27.21	12.70	-	-	5.77	-	18.97	7.19	-
22	V A M H	531	17.56	38.66	18.49	-	-	21.86	13.72	5.90	-	-
23	A A M H	1902	4.93	2.97	13.04	-	-	9.24	-	4.85	-	-
24	X K M H	013	4.48	39.21	4.03	-	-	21.86	13.72	18.97	-	-
25	J K M H	125	22.59	17.03	9.79	-	2.27	21.86	13.72	5.90	-	-
26	K D M H	3437	60.44	21.91	9.79	-	-	9.24	-	4.85	-	-
27	S X K	2007	4.80	20.88	16.00	-	-	21.86	13.72	18.97	-	-
28	S X K	3049	0.48	20.88	16.00	-	-	9.24	-	4.85	-	-
29	G K	0324	6.19	40.90	11.36	-	-	21.86	13.72	5.90	-	-
30	M	9	15.07	0.19	49.85	-	-	1.02	-	19.77	-	-
31	E A G L E	8	1.69	64.03	27.75	-	-	20.68	3.63	4.70	-	-
32	M C H	13	-	15.37	31.61	-	-	17.88	28.27	5.57	-	-
33	M C H	2008	-	29.29	25.76	-	-	26.57	-	5.57	-	-
34	G F	2012	-	-	-	-	-	-	-	-	-	-
35	G F	2012	-	-	-	-	-	-	-	-	-	-
36	G F	2012	-	-	-	-	-	-	-	-	-	-
37	C H E C K S	9681	8.91	68.09	37.13	-	-	19.87	-	15.58	-	-
38	B I O	9681	0.74	12.78	-	-	-	-	-	-	-	-
39	P A R B H A T	11	-	13.12	-	-	-	-	-	-	-	-
40	G A N G A	2324	-	-	-	-	-	-	-	-	-	-
41	S E E D T E C	311	-	-	-	-	-	-	-	-	-	-
41	P R O	311	-	-	-	-	-	-	-	-	-	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD	% SUPERIORITY OVER THE SEEDTEC	MAND	COIM	KOLH	JAIN MAHY	ZN 4 MEAN	ZN 5 UDAI	OV/I MEAN
		KARI	BANG PROA	MAND	COIM	KOLH	JAIN MAHY	ZN 4 MEAN	ZN 5 UDAI	OV/I MEAN
1	B H - 3294	-	-	15.50	-	3.92	-	-	-	-
2	B H H - 3300	-	-	5.46	-	2.22	-	-	-	-
3	B H H - 3306	-	-	0.91	-	-	-	-	-	-
4	B B H H - 3309	-	-	-	-	-	-	-	-	-
5	B B H H - 3315	3.24	6.31	33.11	-	26.53	-	4.98	23.02	4.51
6	B B H H - 3437	-	-	1.38	-	-	-	-	-	-
7	B H H H - 1259	-	-	7.98	-	-	-	-	-	-
8	H H K H - 1168	-	-	0.39	-	-	-	-	6.63	-
9	H H K H - 1211	-	-	-	-	-	-	-	-	-
10	Z A W H - 2	2.45	-	4.45	20.17	40.00	-	6.10	-	4.80
11	T H - 10655	-	-	-	-	-	-	-	-	-
12	D M R F G - 22	-	-	19.30	-	-	-	-	-	-
13	D M R F G - 25	-	-	4.11	-	4.46	-	-	-	-
14	K M H H - 9961	-	-	30.18	4.59	0.74	-	-	-	-
15	S W S 013 Y-6 NORMAL	-	-	10.28	-	-	-	-	-	-
16	A H H - 23065	-	-	27.80	-	15.52	3.99	9.12	0.87	8.82
17	P R O - 363	17.21	7.19	25.49	-	35.40	-	9.12	8.51	8.82
18	B I O - 20228	-	-	14.62	-	29.96	-	5.10	-	3.47
19	B I O - 911	-	-	8.77	-	14.70	-	-	-	-
20	SEEDTEC - 661	-	0.21	30.22	-	-	-	-	-	-
21	S G M H - 102	-	-	8.46	-	0.86	-	-	-	-
22	V I P H - 1902	-	-	28.79	-	19.20	0.41	8.24	9.47	8.62
23	A A 1282 X	-	-	7.69	-	23.48	-	-	-	-
24	X X 013	-	5.65	14.10	-	10.42	-	-	-	-
25	J K M H H - 125	-	-	28.92	-	13.06	-	-	-	-
26	N E C H - 3437	17.31	-	5.04	-	35.67	-	1.84	-	2.46
27	K D S - 86	-	-	34.80	-	16.96	-	-	-	-
28	S S F - X	-	-	28.69	-	-	-	1.53	9.57	1.07
29	X X 2007	-	0.23	3.02	-	6.94	-	-	-	-
30	G K - 3049	-	-	5.49	-	29.34	18.46	6.67	-	5.28
31	M G 0324	9.82	-	0.21	-	12.20	-	-	-	2.73
32	EAGLE - 9	-	-	16.87	-	4.31	-	-	-	-
33	M C H - 8	-	-	20.00	-	-	-	-	-	-
34	M C H - 13	-	6.31	3.02	-	-	-	-	-	-
35	G F - 2008	-	-	5.49	-	-	-	-	-	-
36	G F - 2012	-	-	16.87	-	-	-	-	-	-
CHECKS:										
37	BIO - 9681	-	-	3.02	14.37	23.12	-	-	-	1.34
38	PARBHAT	-	-	5.49	-	-	-	-	-	-
39	GANGA - 11	-	-	0.21	-	-	-	-	-	-
40	SEEDTEC - 2324	-	-	12.20	9.76	7.63	-	2.55	-	0.32
41	PRO - 311	-	-	20.00	-	-	-	-	-	-

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD		% SUPERIORITY OVER THE SEEDTEC		OVER THE SEEDTEC		2324		HYDE JKSE
		ZN 1 BAJA	KARN	KAMP	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN	NAGA	
1	B H H	29.28	12.68	0.64	8.07	-	-	0.17	-	
2	B H H	27.53	38.02	33.89	36.44	-	-	24.99	4.69	
3	B H H	57.16	26.03	0.48	16.25	-	-	26.96	-	
4	B B H	43.65	21.77	-	-	-	-	30.88	-	
5	B B H	35.44	41.37	-	10.22	-	-	33.49	2.95	
6	B H H	41.72	-	-	20.29	-	-	-	-	
7	E H H	10.18	-	-	-	-	-	-	-	
8	H H H	32.02	-	-	-	-	-	-	-	
9	H H H	57.16	34.86	-	16.25	-	-	35.01	-	
10	Z A W H	18.10	20.15	6.50	18.12	-	-	0.01	-	
11	J H H	52.34	-	14.87	-	-	-	26.21	-	
112	D M R F G	21.05	-	8.33	-	-	-	-	-	
113	D M R F G	9.15	-	-	-	-	-	-	-	
114	K M H	30.12	16.94	-	9.94	-	-	33.72	-	
115	S W S	37.02	-	2.41	-	-	-	-	-	
116	A H O	47.68	31.42	39.61	34.56	-	-	4.74	21.45	
117	P R O	44.41	34.86	6.38	23.96	-	-	20.81	-	
118	B I S C O	40.60	5.89	-	-	-	-	5.82	-	
119	B I S C O	30.75	23.35	10.40	8.48	-	-	-	-	
20	S E E D T E C	16.42	4.08	8.11	5.62	-	-	10.12	2.41	
21	S V I P L	22.71	12.46	4.06	9.24	-	-	34.80	-	
22	A A M H	48.07	22.58	2.41	14.85	-	-	19.96	17.93	
23	X X 1282 X	32.16	23.07	-	-	-	-	17.89	1.82	
24	J K M H	31.60	3.46	-	9.57	-	-	39.60	0.42	
25	N E M H	24.68	7.77	-	6.42	-	-	28.66	3.25	
26	K D M H	54.40	-	-	-	-	-	14.52	-	
27	S S F X	102.09	7.77	4.25	6.42	-	-	14.52	-	
28	S S F X	32.00	6.86	21.43	12.44	-	-	10.76	12.75	
29	X K 3007	26.56	24.56	-	7.94	-	-	29.53	-	
30	M K 3049	44.94	45.00	45.65	45.25	-	-	13.22	2.54	
31	M K 0324	33.74	14.30	39.18	23.82	-	-	14.17	-	
32	E A G L E	33.74	-	-	-	-	-	-	-	
33	M C H	44.94	45.00	45.65	45.25	-	-	10.76	12.75	
34	M C H	12.74	1.99	-	-	-	-	13.22	-	
35	C F	28.08	14.30	39.18	23.82	-	-	14.17	-	
36	C F	18.58	-	-	-	-	-	-	-	
CHECKS:										
37	B I O	37.18	48.59	7.65	32.92	-	-	25.00	-	
38	P A R B H A T	26.88	-	-	-	-	-	2.51	-	
39	G A N G A	20.72	-	-	-	-	-	-	-	
40	S E E D T E C	-	-	-	-	-	-	-	-	
41	P R O	25.95	-	10.67	-	-	-	8.14	-	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN KARI	YIELD BANG POCH	% SUPERIORITY BANG PROA	OVER THE MAND	COIM	KOLH	JAIN MAHY	ZN 4 MEAN	ZN 5 UDAI	OV/L MEAN
1	BH - 3294	27.18	44.86	20.31	20.62	-	25.07	37.86	20.09	33.47	20.49
2	BH - 3300	13.55	27.26	29.64	10.13	-	18.15	37.30	23.00	24.76	22.10
3	BH - 3306	22.68	35.93	30.29	5.39	-	23.02	46.65	22.67	30.20	22.18
4	BH - 3309	36.83	49.18	54.15	39.01	1.01	18.81	52.98	46.64	69.10	26.79
5	BH - 3437	25.56	29.57	17.36	5.88	-	15.57	28.16	26.00	-	41.51
6	EH - 1259	-	-	-	12.77	-	-	5.38	-	-	25.41
7	HH - 1168	16.84	13.69	8.44	4.84	13.42	13.91	60.26	25.64	7.03	1.53
8	HH - 1211	2.68	19.68	11.79	9.08	79.97	0.78	31.02	10.11	46.57	27.14
9	ZA WH - 10655	35.78	56.11	36.84	0.41	-	68.49	55.21	47.62	29.41	10.46
10	JH - 22	-	-	0.55	24.59	-	19.41	16.64	7.67	8.50	6.61
11	DMRFG - 25	-	20.78	31.07	15.17	-	25.72	26.61	17.05	8.62	17.19
12	DMRFG - 25	-	8.79	9.9	33.05	-	21.24	8.11	38.13	-	30.35
13	KMH - 9961	3.41	38.57	26.21	8.73	-	41	16.64	17.05	8.62	6.61
14	SWS 013 Y-6NORMAL	18.69	20.78	31.07	15.17	-	25.72	26.61	17.05	8.62	17.19
15	AH - 23065	55.35	60.38	51.89	33.46	44.02	32.03	85.67	51.82	38.66	47.34
16	PH - 363	18.48	32.04	35.79	33.05	44.16	62.95	34.48	34.01	49.16	43.09
17	PR - 20228	31.15	23.93	45.30	19.70	35.72	56.41	74.91	46.22	27.29	30.09
18	BISCO - 911	10.80	23.31	6.44	36.00	34.22	15.93	34.98	21.23	0.90	19.64
19	SEEDTEC - 661	10.32	43.26	25.57	13.59	48.18	5.04	36.06	25.70	1.09	18.64
20	SV - 1902	1.37	21.32	18.54	2.50	41.25	3.61	26.94	15.83	3.09	27.06
21	AV - 531	10.32	23.52	12.54	13.26	8.66	5.39	51.94	25.02	19.30	42.73
22	TX - 013	10.65	19.28	19.19	12.47	3.96	43.61	79.26	50.59	60.49	22.79
23	AX - 013	12.95	17.98	34.27	19.46	25.94	48.61	35.45	43.46	13.82	34.89
24	JK - 013	55.48	37.90	37.95	19.16	25.94	32.18	75.36	43.36	33.61	34.18
25	TK - 1257	13.02	41.49	38.15	9.70	18.91	21.07	71.26	41.69	50.61	36.84
26	KS - 3437	32.31	49.96	22.75	40.77	1.03	36.28	42.49	37.74	33.61	34.18
27	SS - 86	26.17	43.86	43.96	34.39	38.85	13.28	56.71	41.25	7.30	36.84
28	XS - 86	26.17	43.86	43.96	34.39	38.85	13.28	56.71	41.25	7.30	36.84
29	GM - 3049	45.55	42.22	37.26	7.59	21.60	40.76	65.23	36.87	-	31.80
30	M - 0324	26.18	18.97	23.99	10.17	31.04	28.71	15.20	27.91	-	22.02
31	EAGLE - 9	30.63	32.95	54.15	4.65	13.14	55.03	45.86	48.47	-	42.54
32	CC - 13	21.26	47.55	39.96	22.05	15.38	35.03	67.84	37.07	-	31.09
33	CF - 2008	31.84	46.02	34.11	25.31	48.26	25.54	53.84	38.08	-	39.48
34	GF - 2012	18.30	40.57	37.91	10.82	71.28	48.18	47.63	39.00	24.48	37.20
35	G F - 9681	-	-	10.38	-	-	17.39	25.50	10.69	19.81	8.55
37	BIO - 9681	-	-	45.00	4.43	49.76	20.35	78.54	39.13	37.46	35.39
38	PARBHAT - 11	32.53	49.62	43.98	37.25	64.37	29.53	58.72	42.67	32.78	35.83
39	GANGA - 2324	-	-	-	-	-	-	-	-	-	-
40	SEEDTEC - 311	-	-	-	-	-	-	-	-	-	-
41	PRO - 311	-	-	-	-	-	-	-	-	-	-

TABLE NO. 1 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD			% SUPERIORITY OVER THE GANGA			HYDE JKSE		
		ZN 1 BAJA	KARN	KAMP	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN	NAGA	JKSE
1	BH	7.09	32.04	13.91	24.95	32.13	12.05	18.92	17.07	12.24
2	BH	5.65	61.74	51.54	57.75	30.24	-	5.04	31.77	23.39
3	BH	30.19	47.68	13.73	34.40	26.38	35.18	32.17	64.42	50.30
4	BH	19.00	8.46	11.46	17.27	17.27	31.71	26.77	67.01	35.73
5	BH	33.15	42.70	3.69	27.44	35.23	18.36	24.13	72.17	21.57
6	BH	17.40	65.66	7.83	39.08	35.70	21.76	26.53	75.60	47.81
7	BH	12.59	0.27	7.83	3.23	18.65	29.76	18.81	24.83	20.27
8	BH	9.37	58.03	3.65	34.41	24.07	23.30	18.26	31.56	41.37
9	BH	30.19	2.72	20.55	3.08	30.56	23.05	12.59	27.79	20.57
10	BH	26.19	40.79	30.01	36.58	35.00	32.00	22.76	66.03	29.30
11	BH	0.28	0.97	20.95	7.78	18.52	14.53	2.15	21.04	18.84
12	BH	7.79	5.77	10.95	9.44	3.00	23.35	6.51	28.79	18.84
13	BH	0.28	0.97	20.95	7.78	18.52	14.53	2.15	21.04	18.84
14	BH	7.79	5.77	10.95	9.44	3.00	23.35	6.51	28.79	18.84
15	BH	13.50	10.73	15.92	12.76	22.50	26.35	17.03	25.90	37.68
16	BH	22.11	54.00	58.02	55.57	19.82	24.83	23.37	26.11	74.36
17	BH	19.69	24.08	20.41	43.32	31.18	49.52	16.45	37.78	29.14
18	BH	16.47	8.25	24.96	14.79	24.21	31.81	43.25	58.92	38.47
19	BH	8.31	44.25	24.96	22.42	31.21	30.58	29.21	39.20	12.27
20	BH	-	44.96	22.37	25.42	65.56	9.04	4.18	21.89	16.48
21	BH	-	21.78	17.78	22.30	21.21	23.17	22.50	44.86	18.98
22	BH	1.65	43.64	15.92	26.79	68.81	62.26	64.50	57.33	47.03
23	BH	22.66	6.67	11.59	32.59	7.14	42.19	30.19	57.44	36.81
24	BH	9.48	44.21	9.35	26.68	29.23	30.48	46.58	41.93	69.31
25	BH	9.02	21.24	9.35	16.59	34.39	21.77	30.09	83.64	46.18
26	BH	3.28	26.28	17.99	23.04	39.73	40.29	26.09	49.24	44.17
27	BH	27.91	26.28	17.99	23.04	39.73	40.29	26.09	49.24	44.17
28	BH	67.41	13.54	3.09	9.45	60.84	11.71	47.30	69.16	48.23
29	BH	9.35	125.22	37.45	30.00	19.40	25.77	23.59	50.65	38.25
30	BH	4.84	45.96	8.24	24.80	11.52	16.30	14.67	45.70	29.32
31	BH	10.79	69.92	64.86	5.53	11.01	38.94	29.38	70.39	61.87
32	BH	20.06	19.51	57.53	9.97	31.43	35.71	34.25	48.94	47.21
33	BH	6.10	33.94	57.53	43.17	105.49	45.72	66.11	50.18	31.57
34	BH	-	-	-	-	-	-	-	-	-
35	BH	-	-	-	-	-	-	-	-	-
36	BH	-	-	-	-	-	-	-	-	-
37	BH	-	-	-	-	-	-	-	-	-
38	BH	-	-	-	-	-	-	-	-	-
39	BH	-	-	-	-	-	-	-	-	-
40	BH	-	-	-	-	-	-	-	-	-
41	BH	-	-	-	-	-	-	-	-	-

CHECKS:
BIO - 9681
PARBHAT - 11
GANGA - 11
SEEDTEC - 2324
PRO - 311

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	MOISTURE & AT HARVEST				BANG				ZNI MEAN	OV'T MEAN
		BAJA	LUDH	KAMP	ZNI MEAN	POCB	PROA	MAND			
1	FILLER	21.7	24.0	15.7	19.8	30.9	24.3	19.4	23.4	4.0	23.1
2	BH	22.1	24.9	15.3	19.2	29.7	23.3	18.9	23.3	3.4	22.5
3	BH	23.7	26.1	16.3	20.0	27.7	23.3	19.0	23.3	3.0	22.5
4	BH	29.1	33.0	15.0	22.0	30.0	26.5	20.8	24.4	4.7	25.0
5	BH	10.8	23.8	16.0	20.5	29.8	25.5	19.8	24.4	3.7	24.4
6	BH	1.4	27.7	15.6	21.0	29.0	26.5	19.8	24.4	3.7	24.4
7	BH	4.7	24.4	16.0	20.5	29.8	25.5	19.8	24.4	3.7	24.4
8	BH	1.4	27.7	15.6	21.0	29.0	26.5	19.8	24.4	3.7	24.4
9	BH	2.4	25.5	15.5	20.5	29.8	25.5	19.8	24.4	3.7	24.4
10	BH	2.4	25.5	15.5	20.5	29.8	25.5	19.8	24.4	3.7	24.4
11	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
12	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
13	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
14	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
15	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
16	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
17	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
18	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
19	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
20	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
21	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
22	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
23	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
24	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
25	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
26	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
27	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
28	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
29	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
30	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
31	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
32	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
33	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
34	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
35	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
36	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
37	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
38	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
39	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4
40	JH	9.9	22.2	15.0	19.2	29.8	25.5	19.8	24.4	3.7	24.4

CHECKS:
 BIO - 9681
 PARBHAT - 11
 GANGA - 2324
 SEBDETC - 311
 PRO - LOCATION
 MEAN AT 5%
 C.V. % =
 F. (Prob)

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY		KARN	ZNI	ZNI	ZNI	HYDE	KARI	BANG	MAND	COIM	ZNI	OV'L
		BAJA	LUJH											
1	FILLER	3297	106.3	82.3	81.0	81.0	81.0	80.3	86.0	0.3	83.3	96.0	83.3	91.0
2	H H H	3301	105.7	83.3	81.5	81.5	81.5	80.5	86.5	0.5	83.5	96.5	83.5	91.5
3	H H H	3307	109.0	89.0	85.5	85.5	85.5	84.5	91.5	0.5	84.5	97.5	84.5	92.5
4	H H H	3313	105.3	84.3	82.5	82.5	82.5	81.5	89.5	0.5	82.5	95.5	82.5	90.5
5	H H H	3439	108.7	86.7	83.5	83.5	83.5	82.5	90.5	0.5	83.5	96.5	83.5	91.5
6	H H H	3439	108.7	86.7	83.5	83.5	83.5	82.5	90.5	0.5	83.5	96.5	83.5	91.5
7	H H H	3439	108.7	86.7	83.5	83.5	83.5	82.5	90.5	0.5	83.5	96.5	83.5	91.5
8	H H H	H-12017	112.7	85.7	83.0	83.0	83.0	82.0	89.0	0.0	83.0	95.0	83.0	90.0
9	H H H	H-12017	112.7	85.7	83.0	83.0	83.0	82.0	89.0	0.0	83.0	95.0	83.0	90.0
10	H H H	H-10589	108.0	84.0	82.5	82.5	82.5	81.5	88.5	0.5	82.5	94.5	82.5	90.5
11	H H H	H-12017	106.0	84.0	82.5	82.5	82.5	81.5	88.5	0.5	82.5	94.5	82.5	90.5
12	H H H	H-12017	106.0	84.0	82.5	82.5	82.5	81.5	88.5	0.5	82.5	94.5	82.5	90.5
13	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
14	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
15	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
16	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
17	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
18	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
19	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
20	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
21	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
22	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
23	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
24	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
25	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
26	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
27	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
28	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
29	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
30	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
31	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
32	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
33	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
34	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
35	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
36	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
37	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
38	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
39	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5
40	H H H	C-1441	107.0	85.0	83.5	83.5	83.5	82.5	89.5	0.5	83.5	95.5	83.5	91.5

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% HYDE	KARI	SILKING BANG POCH	BANG PROA	MAND	COIM	JAIN MAHY	ZN 4 MEAN	OV'T MEAN
1	FILLER	56.5	49.8	50.7	60.0	51.3	57.0	51.5	8.5	4.4
2	BH	57.0	52.8	52.3	60.7	51.7	58.0	55.0	3.5	5.6
3	BH	57.0	52.8	52.3	60.7	51.7	58.0	55.0	3.5	5.6
4	BH	57.0	52.8	52.3	60.7	51.7	58.0	55.0	3.5	5.6
5	BH	56.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
6	BH	56.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
7	BH	56.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
8	BH	57.0	54.8	54.7	60.0	51.1	57.8	54.2	4.4	4.9
9	BH	55.0	54.1	53.6	60.0	50.0	57.0	52.0	3.9	3.7
10	BH	55.0	54.1	53.6	60.0	50.0	57.0	52.0	3.9	3.7
11	BH	55.0	54.1	53.6	60.0	50.0	57.0	52.0	3.9	3.7
12	BH	57.0	53.0	53.7	60.0	50.0	57.0	52.0	3.9	3.7
13	DMRFG	57.0	53.0	53.7	60.0	50.0	57.0	52.0	3.9	3.7
14	DMRFG	56.0	53.0	53.7	60.0	50.0	57.0	52.0	3.9	3.7
15	MCH	56.0	53.0	53.7	60.0	50.0	57.0	52.0	3.9	3.7
16	MCH	56.0	53.0	53.7	60.0	50.0	57.0	52.0	3.9	3.7
17	AEH	58.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
18	AEH	58.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
19	AEH	58.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
20	AEH	56.0	54.8	54.7	61.3	53.3	57.8	57.7	3.0	3.1
21	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
22	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
23	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
24	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
25	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
26	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
27	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
28	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
29	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
30	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
31	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
32	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
33	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
34	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
35	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
36	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
37	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
38	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
39	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
40	SEDTFC	57.0	51.0	52.0	60.0	50.0	57.0	52.0	3.9	3.7
	MEAN LOCATION	56.8	52.8	53.7	61.6	53.7	57.8	54.1	3.9	3.8
	C.D. AT 5% =	3.9	3.3	3.7	1.6	2.2	1.0	1.1	0.1	0.1
	C.V. AT 5% =	6.8	6.2	6.9	2.6	3.3	1.7	2.4	0.3	0.3
	F (Prob)	384	000	000	100	000	100	100	0	0
	CHECKS:									
	BIO - 9681	56.5	51.3	52.1	58.7	50.3	59.5	53.0	4.9	5.7
	PARBHAT	57.3	53.5	54.3	62.3	53.3	59.3	55.7	5.5	7.3
	GANGA - 11	58.0	54.0	54.7	63.3	54.3	60.3	56.7	5.7	7.3
	SEDTFC - 2324	58.0	54.0	54.7	63.3	54.3	60.3	56.7	5.7	7.3
	PRO - 311	58.0	54.0	54.7	63.3	54.3	60.3	56.7	5.7	7.3
	MEAN LOCATION	56.8	52.8	53.7	61.6	53.7	57.8	54.1	3.9	3.8
	C.D. AT 5% =	3.9	3.3	3.7	1.6	2.2	1.0	1.1	0.1	0.1
	C.V. AT 5% =	6.8	6.2	6.9	2.6	3.3	1.7	2.4	0.3	0.3
	F (Prob)	384	000	000	100	000	100	100	0	0

TABLE NO. 2 (CONT.)

SL NO	PEDIGREE	DAYS TO 50% MAND	TO 50% COIM	POLLIN JAIN MAHY	SHED ZN 4 MEAN	OV'L MEAN	DAYS TO 50% BAJA	LUDH	SIKING KARN	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN
1	FILLER	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
2	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
3	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
4	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
5	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
6	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
7	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
8	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
9	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
10	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
11	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
12	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
13	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
14	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
15	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
16	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
17	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
18	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
19	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
20	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
21	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
22	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
23	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
24	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
25	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
26	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
27	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
28	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
29	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
30	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
31	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
32	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
33	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
34	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
35	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
36	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
37	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
38	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
39	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5
40	B H H	50.0	54.0	49.5	5.8	8.5	63.0	54.0	49.0	5.1	6.0	53.0	54.5

CHECKS:
 BIO - 9681
 PARBHAT - 11
 GANGA - 11
 SEEDTEC - 2324
 PRO - 311
 MEAN LOCATION
 C.D. AT 5%
 F (Prob)

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED		VARA	AMBI	ZN 3 MEAN	HYDE	KARI	BANG POCB	BANG PROA
		BAJA	IJDH							
1	FILLER	3297	7	59.7	0	50.6	51.7	45.8	3.7	59.7
2	BH	3301	7	59.3	0	50.6	51.7	45.8	3.7	59.7
3	BH	3307	7	59.3	0	50.6	51.7	45.8	3.7	59.7
4	BH	3313	7	59.3	0	50.6	51.7	45.8	3.7	59.7
5	BH	3316	7	59.3	0	50.6	51.7	45.8	3.7	59.7
6	BH	3439	7	59.3	0	50.6	51.7	45.8	3.7	59.7
7	BH	1129	7	59.3	0	50.6	51.7	45.8	3.7	59.7
8	BH	1201	7	59.3	0	50.6	51.7	45.8	3.7	59.7
9	BH	1217	7	59.3	0	50.6	51.7	45.8	3.7	59.7
10	BH	10589	7	59.3	0	50.6	51.7	45.8	3.7	59.7
11	BH	1441	7	59.3	0	50.6	51.7	45.8	3.7	59.7
12	BH	1441	7	59.3	0	50.6	51.7	45.8	3.7	59.7
13	DMRPG	26	7	59.3	0	50.6	51.7	45.8	3.7	59.7
14	DMRFG	26	7	59.3	0	50.6	51.7	45.8	3.7	59.7
15	DMRPG	26	7	59.3	0	50.6	51.7	45.8	3.7	59.7
16	AH	2304	7	59.3	0	50.6	51.7	45.8	3.7	59.7
17	AH	310101	7	59.3	0	50.6	51.7	45.8	3.7	59.7
18	PH	360	7	59.3	0	50.6	51.7	45.8	3.7	59.7
19	PH	235	7	59.3	0	50.6	51.7	45.8	3.7	59.7
20	BISCO	715	7	59.3	0	50.6	51.7	45.8	3.7	59.7
21	SEEDTEC	662	7	59.3	0	50.6	51.7	45.8	3.7	59.7
22	V A P H	1806	7	59.3	0	50.6	51.7	45.8	3.7	59.7
23	V A P H	475	7	59.3	0	50.6	51.7	45.8	3.7	59.7
24	X X 1282	370-2	7	59.3	0	50.6	51.7	45.8	3.7	59.7
25	X X 1282	370-2	7	59.3	0	50.6	51.7	45.8	3.7	59.7
26	X X 1282	370-2	7	59.3	0	50.6	51.7	45.8	3.7	59.7
27	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
28	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
29	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
30	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
31	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
32	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
33	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
34	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
35	M S - 2004	1033	7	59.3	0	50.6	51.7	45.8	3.7	59.7
36	BIO	9681	3	63.0	0	50.6	51.7	45.8	3.7	59.7
37	PARBHAT	11	3	63.0	0	50.6	51.7	45.8	3.7	59.7
38	GANGA	11	3	63.0	0	50.6	51.7	45.8	3.7	59.7
39	SEEDTEC	2324	3	63.0	0	50.6	51.7	45.8	3.7	59.7
40	PRO	311	3	63.0	0	50.6	51.7	45.8	3.7	59.7
	MEAN LOCATION									
	C.D. AT 5% =									
	C.V. % =									
	F. (Prob)									

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	HYDE	GRAIN YIELD	SUPERIORITY OVER THE PRO - 311		MAND	COIM	TALN MAHY	ZN 4 MEAN	OV'1 MEAN
				BANG POCB	BANG PROA					
1	FILLER	28.13	-	-	-	35.10	-	-	-	-
2	B H	45.80	32.11	-	-	27.04	-	2.23	3.13	6.85
3	B H	16.18	22.05	-	-	19.94	-	-	-	-
4	B H	-	64.22	4.24	-	11.64	-	-	-	-
5	B H	-	40.62	4.43	-	26.49	-	-	-	-
6	B H	6.56	49.12	3.06	4.94	6.68	-	3.31	5.87	8.00
7	B H	18.66	-	-	-	16.88	-	-	-	5.15
8	B H	-	-	-	-	-	-	-	-	2.25
9	H H	11.29	-	-	-	-	-	-	-	-
10	J C	11.40	-	-	-	32.14	-	-	-	-
11	H H	9.32	11.71	-	-	2.60	-	-	-	-
12	H H	-	18.66	-	-	13.84	-	-	-	-
13	DMRFG	-	-	-	-	5.79	-	-	-	-
14	DMRFG	23	-	-	-	-	-	-	-	-
15	M C	03-1	-	-	-	-	-	-	-	-
16	A H	23049	84.35	-	-	7.22	-	-	-	-
17	V H	310101	5.90	21.68	9.07	40.75	13.18	16.56	8.23	6.99
18	P R	360	41.98	43.63	11.16	40.89	-	7.94	10.90	3.91
19	P M	235	-	13.90	-	19.19	-	-	-	-
20	BISCO	715	31.40	23.42	19.39	44.43	-	20.14	18.37	15.02
21	SEDTBC	662	8.02	36.41	-	19.76	-	-	-	-
22	V I	1806	9.03	28.72	-	0.01	0.22	16.57	12.69	12.42
23	A A	475	20.15	59.19	5.76	30.62	-	-	-	-
24	X 1282 T	370-2	16.72	34.03	7.91	50.52	1.81	23.57	5.56	15.18
25	J K	124	9.12	19.21	25.54	53.90	-	27.49	9.02	9.23
26	N C	11	-	31.01	-	8.78	-	-	-	-
27	M C	11	-	24.52	3.24	39.26	-	-	-	-
28	S S	X 2002	-	30.92	14.43	39.26	-	-	-	-
29	X N	2004	2.92	12.07	-	1.14	-	-	-	-
30	M H	1033	42.65	11.71	-	47.94	-	-	-	0.41
31	G K	3050	-	36.86	-	24.52	-	-	-	1.26
32	M -	0327	-	29.36	-	33.37	-	-	-	-
33	M C	13	-	4.39	-	33.18	-	16.24	2.38	-
34	G F	2007	-	37.41	-	47.08	-	-	0.83	-
35	G F	2009	-	-	-	-	-	-	-	-
CHECKS:										
36	BIO	9681	0.29	-	-	46.48	-	0.72	-	-
37	PARBHAT	-	25.69	1.65	-	9.64	-	-	-	-
38	GANGA	11	47.04	1.46	-	-	-	-	-	-
39	SEDTBC	2324	-	24.97	-	15.77	6.38	7.33	8.16	7.57
40	PRO	311	-	-	-	-	-	-	-	-

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRO - 311		KARN	KAMP	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN	
		ZN 1 BAUA	LUDH							
1	FILLER			15.29	-	0.95	3.64	-	-	
2	B H	3297	-	5.11	-	21.07	83.51	-	-	
3	B H	3301	9.38	2.79	17.66	5.11	38.27	-	4.09	
4	B H	3307	-	17.66	-	27.94	54.69	-	7.96	
5	B H	3313	-	36.02	11.90	19.39	17.39	-	-	
6	B H	3316	-	21.19	11.31	29.19	39.04	-	-	
7	B H	3439	23.34	25.04	18.42	29.19	28.81	-	-	
8	H K H	1129	-	-	-	-	8.96	-	-	
9	H K H	1201	-	-	1.50	-	50.30	-	-	
10	H K H	1217	-	-	-	-	24.40	-	-	
11	J C	10589	-	-	-	-	-	-	-	
12	J C	1441	-	-	21.42	-	-	-	-	
13	DMRFG	23	-	-	-	-	-	-	-	
14	DMRFG	26	-	-	-	-	-	-	-	
15	M C	03-1	-	-	3.30	-	1.64	-	-	
16	A H	23049	-	-	-	-	13.13	-	-	
17	V E H	310101	-	-	-	-	24.47	-	-	
18	P M Z	360	-	-	17.76	9.08	2.98	15.96	13.67	
19	P M Z	235	-	-	4.59	1.56	6.83	-	-	
20	BISCO	715	18.07	27.60	8.94	6.68	36.39	0.36	6.71	
21	SEDTFC	662	14.97	-	16.10	-	14.36	-	-	
22	V I P L	1806	-	-	11.27	-	49.65	-	-	
23	A A M H	475	-	-	11.27	17.39	9.89	0.64	1.90	
24	X 1282 T	-	9.78	21.42	17.44	7.07	5.50	0.64	2.27	
25	J K M H	370-2	-	-	11.93	7.07	7.91	16.43	14.93	
26	N E C H	124	16.84	14.50	11.93	13.63	14.91	-	-	
27	M C H	11	13.49	10.69	8.08	0.70	56.81	-	-	
28	S S P	X 2002	-	-	0.23	-	-	3.11	-	
29	X M H	2004	9.88	9.63	-	-	-	-	-	
30	N M H	1033	-	-	-	-	-	-	-	
31	G K	3050	4.42	4.67	-	0.53	22.14	1.39	5.05	
32	M C H	0327	-	-	4.81	-	3.92	-	-	
33	M C H	13	-	-	-	-	46.43	-	-	
34	G F	2007	-	-	-	-	47.02	-	6.74	
35	G F	2009	-	15.92	-	-	-	-	-	
CHECKS:										
36	BIO	9681	-	-	-	-	5.18	12.69	11.55	
37	PARBHAT	-	-	-	-	-	65.01	-	-	
38	GANGA	11	-	-	-	-	64.60	-	-	
39	SEDTFC	2324	13.69	17.16	1.44	-	122.35	0.44	21.91	
40	PRO	311	-	-	-	-	-	-	-	

TABLE NO. 2 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD &		SUPERIORITY OVER THE SEEDTEC - 2324		MAND	COIM	JAIN MAHY	ZN 4 MEAN	OV'L MEAN
		HYDE	KARI	BANG POCB	BANG PROA					
1	FILLER	-	-	0.29	-	16.69	-	-	-	-
2	BH	3297	5.71	6.08	-	9.73	-	-	-	-
3	BH	3301	-	14.26	-	3.60	-	-	-	-
4	BH	3307	-	14.47	-	9.26	-	-	-	-
5	BH	3313	31.40	12.97	8.10	0.95	-	-	-	0.39
6	BH	3316	12.52	-	-	-	-	-	-	-
7	BH	3439	19.32	-	-	-	-	-	-	-
8	BH	1129	-	-	-	14.14	-	-	-	-
9	BH	1201	-	-	-	-	-	-	-	-
10	BH	1217	-	-	-	-	-	-	-	-
11	BH	10589	-	5.96	-	-	-	-	-	-
12	JHC	1441	C3 FS	-	-	-	-	-	-	-
13	DMRFG	23	-	-	-	-	-	-	-	-
14	DMRFG	26	-	-	-	-	-	-	-	-
15	MC	03-1	25.37	-	-	-	-	-	-	-
16	MAH	23049	-	-	-	-	-	-	-	-
17	VEH	310101	-	-	-	-	-	-	-	-
18	PRO	360	-	19.55	-	21.58	6.39	8.60	0.07	-
19	P M Z	235	14.93	4.52	-	21.70	-	0.57	2.53	-
20	BISCO	715	-	30.86	8.94	2.95	-	11.94	9.44	6.92
21	SEDTFC	1806	-	5.09	-	3.45	-	-	-	-
22	V I P L	475	-	8.15	1.24	12.83	-	8.61	4.18	4.51
23	A A M H	1806	-	27.38	-	18.28	-	-	-	-
24	X 1282 T	370-2	-	7.25	0.73	30.01	-	15.14	8.39	7.07
25	J K M H	124	-	37.61	6.35	32.93	-	18.79	0.80	1.54
26	N E C H	11	4.83	3.97	-	20.29	-	-	-	-
27	M C H	11	4.83	25.43	-	-	-	-	-	-
28	S S F	X 2002	-	4.27	-	-	-	-	-	-
29	X M H	2004	4.76	-	-	-	-	-	-	-
30	N M H	1033	-	-	-	-	-	-	-	-
31	G K	3050	-	-	-	27.79	-	-	-	-
32	M -	0327	9.52	6.70	-	7.56	-	-	-	-
33	M C H	13	3.51	-	-	15.20	-	8.31	-	-
34	G F	2007	-	-	-	15.03	-	-	-	-
35	G F	2009	9.95	-	-	27.04	-	-	-	-
CHECKS:										
36	BIO	9681	-	-	-	26.52	-	-	-	-
37	PARBHAT	-	-	-	-	-	-	-	-	-
38	GANGA	11	-	-	-	-	-	-	-	-
39	SEDTFC	2324	-	-	-	-	-	-	-	-
40	PRO	311	-	9.61	3.01	-	-	-	-	-

TABLE NO. 2 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD %		SUPERIORITY OVER THE		SEEDTEC -	VARA	AMBI	ZN 3 MEAN
		ZN 1 BADA	LUDH	KARN	KAND	2324			
1	FILLER	-	-	-	-	5.05	-	-	-
2	BH	3297	-	64.40	-	-	-	-	-
3	BH	3301	-	49.89	-	-	-	-	-
4	BH	3307	20.08	46.58	15.99	25.99	-	-	-
5	BH	3313	-	67.78	-	9.38	-	-	-
6	BH	3316	11.78	93.96	10.31	33.14	-	-	-
7	BH	3439	5.04	72.82	9.74	24.24	-	-	-
8	BH	1129	8.49	78.31	16.74	34.44	-	-	-
9	BH	1201	-	34.09	0.06	-	-	-	-
10	BH	1217	-	53.92	-	-	-	-	-
11	BH	10589	-	21.32	-	-	-	-	-
12	BH	1441	-	26.48	-	2.79	-	-	-
13	DMRFG	23	-	9.40	19.70	4.04	-	-	-
14	DMRFG	26	-	11.25	-	-	-	-	-
15	MC	03-1	-	-	1.84	-	-	-	-
16	VA	23049	-	-	-	-	-	-	-
17	VA	310101	-	-	-	-	-	-	-
18	PR	360	-	35.28	16.09	13.51	-	-	15.45
19	PR	235	-	-	-	-	-	-	-
20	BISCO	715	3.85	55.35	3.11	5.69	-	-	-
21	SEDTFC	662	1.13	34.35	14.46	11.01	-	-	-
22	VA	1806	-	-	-	-	-	-	-
23	AA	475	-	-	-	-	-	-	-
24	X	1282T	-	67.46	9.69	22.16	-	-	0.20
25	X	370-2	-	33.75	-	-	-	-	-
26	N	124	2.77	36.65	10.34	11.42	-	-	15.93
27	M	11	-	88.55	-	18.25	-	-	-
28	S	X	-	21.47	6.55	4.79	-	-	-
29	S	2004	-	-	-	-	-	-	-
30	X	1033	-	-	-	-	-	-	2.66
31	G	3050	-	36.50	-	-	-	-	-
32	M	0327	-	32.83	3.32	4.61	-	-	0.95
33	M	13	-	28.74	-	-	-	-	-
34	G	2007	-	25.34	-	-	-	-	-
35	G	2009	-	6.80	-	0.37	-	-	-
CHECKS:									
36	BIO	9681	-	29.94	-	-	-	-	12.20
37	PARBHAT	-	-	28.21	-	-	-	-	-
38	GANGA	11	-	7.53	-	-	-	-	-
39	SEDTFC	2324	-	-	-	-	-	-	-
40	PRO	311	-	42.60	-	4.06	-	-	-

TABLE NO. 2 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD		% SUPERIORITY OVER THE GANGA - 11		JAIN MAHY	ZN 4 MEAN	OV' L MEAN		
		HYDE	KARI	BANG POCB	BANG PROA				MAND	COIM
1	FILLER	1.94	-	55.25	19.57	35.36	35.91	37.84	22.87	24.40
2	BH	15.99	-	33.98	22.56	27.29	-	32.49	17.32	17.53
3	BH	-	-	64.20	62.13	20.18	-	60.39	34.74	39.49
4	BH	-	-	76.86	0.76	11.85	-	44.32	21.41	26.15
5	BH	-	-	61.85	59.35	26.74	-	42.98	39.06	40.99
6	BH	-	-	38.59	74.18	6.88	-	62.08	38.32	37.27
7	BH	-	-	46.97	34.06	17.10	-	39.32	24.10	33.49
8	BH	-	-	30.18	24.74	-	-	14.30	4.08	5.95
9	BH	-	-	55.60	23.68	32.40	-	20.12	11.84	10.36
10	BH	-	-	64.02	59.40	2.80	-	18.82	25.61	25.09
11	BH	-	-	38.01	30.07	14.06	31.41	38.87	14.32	15.05
12	JH	-	-	14.40	14.93	5.99	-	17.08	-	-
13	JH	-	-	15.70	20.47	0.14	-	12.06	-	-
14	DMRFG	-	-	0.76	5.60	-	-	0.69	-	-
15	MC	-	-	24.97	22.30	7.43	-	1.19	6.49	4.19
16	AH	-	-	36.84	35.84	41.03	-	17.67	0.71	39.68
17	VH	-	-	85.06	52.81	41.17	56.92	82.86	41.41	35.66
18	PH	-	-	88.60	47.47	19.42	-	69.34	44.90	27.99
19	PM	-	-	61.78	77.27	44.71	36.65	40.45	24.11	50.16
20	BISCO	-	-	102.56	30.08	20.00	21.81	39.66	26.19	23.45
21	SEDTFC	-	-	62.66	13.47	0.21	38.95	30.38	11.89	13.07
22	V A P L	-	-	23.20	64.75	30.88	3.89	82.88	47.23	46.76
23	I A M H	-	-	67.41	54.45	50.81	41.15	54.65	37.92	25.76
24	X A 1282 T	-	-	83.08	63.91	54.19	41.15	82.87	53.17	50.36
25	J K M H	-	-	113.00	73.05	8.99	25.64	90.82	42.44	42.59
26	N C H	-	-	94.16	51.32	39.53	15.02	44.53	28.24	27.06
27	S S F	-	-	61.41	38.97	1.34	33.97	45.02	29.89	28.74
28	S S F	-	-	33.43	16.75	48.23	33.97	30.82	4.43	2.65
29	X X -	-	-	27.67	55.37	24.76	33.81	43.73	33.43	31.08
30	N M H	-	-	10.46	27.63	33.63	37.67	55.97	31.73	32.20
31	G K	-	-	10.10	65.17	33.63	37.67	82.37	11.76	29.12
32	M K	-	-	34.89	52.15	33.43	37.67	35.90	11.76	14.22
33	C H	-	-	27.50	33.89	47.37	22.34	49.24	29.38	25.56
34	M C H	-	-	2.88	48.66	-	-	-	-	-
35	G F	-	-	35.43	60.99	46.76	28.95	58.02	28.14	27.56
CHECKS:										
36	BIO	-	-	0.18	24.31	9.85	-	27.80	0.32	3.10
37	PARBHAT	-	-	34.32	60.99	46.76	28.95	58.02	28.14	27.56
38	GANGA	-	-	24.31	13.19	9.85	-	27.80	0.32	3.10
39	SEDTFC	-	-	54.79	62.72	16.00	47.49	68.38	41.32	40.43
40	PRO	-	-	69.67	67.62	0.19	38.64	56.89	30.65	30.55

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD %			SUPERIORITY OVER THE GANGA - 11			ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN
		BAJA	LUDH	KARN	KAMP	ZN 1	ZN 2				
1	FILLER	71.13	30.93	52.89	3.12	30.55	18.62	0.64			
2	BH	45.04	20.21	39.40	-	18.20	0.70	4.18			
3	BH	88.71	96.99	36.32	32.73	56.58	31.31	16.02			
4	BH	65.42	44.99	56.04	20.74	35.94	32.93	20.34			
5	BH	56.52	83.38	80.38	25.85	65.47	17.76	2.75			
6	BH	52.93	72.32	60.72	25.19	54.41	17.76	-			
7	BH	112.81	96.44	65.83	33.18	67.08	4.81	-			
8	BH	12.30	24.40	24.70	9.85	20.25	1.02	-			
9	BH	34.06	30.18	43.15	14.15	16.04	6.86	1.83			
10	BH	24.03	51.49	12.82	4.68	16.57	17.27	-			
11	BH	64.34	50.88	17.63	11.32	22.74	8.42	-			
12	BH	19.11	6.06	1.74	36.56	3.13	-	-			
13	DMRFG	35.91	0.33	3.47	5.52	-	-	-			
14	DMRFG	37.79	1.41	-	16.18	-	-	-			
15	MC	12.19	8.67	-	6.07	41.07	57.33	26.71			
16	AH	47.67	63.50	25.81	32.44	16.10	9.39	10.05			
17	VPH	7.81	51.12	44.48	10.51	31.35	34.66	18.94			
18	PMZ	38.26	29.57	24.95	4.60	37.97	26.99	8.41			
19	PMZ	67.11	78.63	24.95	30.58	10.29	24.40	13.58			
20	BISCO	103.71	14.63	55.74	25.14	51.82	36.54	14.00			
21	SEDTFC	98.36	11.61	24.39	1.00	18.96	57.98	28.12			
22	AIPL	65.31	70.01	27.08	25.88	38.48	28.94	9.83			
23	AMH	64.53	28.43	27.35	2.99	46.96	12.52	6.95			
24	X1282T	89.40	60.32	12.97	21.56	30.24	39.90	11.33			
25	JKM	49.52	54.99	24.39	12.72	17.52	39.90	11.33			
26	NCH	101.59	53.50	26.95	5.73	15.29	37.57	17.10			
27	MSH	95.81	34.20	23.33	17.87	16.75	31.84	9.64			
28	SS	41.11	21.31	19.72	1.20	30.01	15.39	6.85			
29	X	89.93	46.56	16.57	10.10	21.17	33.15	18.99			
30	NM	29.93	39.17	-	-	5.77	13.56	-			
31	GK	80.16	5.99	-	-	24.74	13.56	-			
32	M	65.47	62.30	-	-	24.74	13.56	-			
33	MC	68.81	21.20	-	-	24.74	13.56	-			
34	GF	67.47	26.95	-	-	24.74	13.56	-			
35	GF	42.13	23.33	-	-	24.74	13.56	-			
36	BIO	59.41	26.95	-	-	24.74	13.56	-			
37	PARBHAT	20.24	19.72	-	-	24.74	13.56	-			
38	GANGA	17.42	16.57	-	-	24.74	13.56	-			
39	SEDTFC	96.15	24.39	-	-	24.74	13.56	-			
40	PRO	72.53	40.02	-	-	24.74	13.56	-			

TABLE NO. 2 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARBHAT									
		HYDE	KARI	BANG POCB	BANG PROA	MAND	COIM	JALN MAHY	ZN 4 MEAN	OV'L MEAN	
1	FILLER	103.24	-	24.89	5.64	23.22	71.48	7.86	22.47	20.67	
2	BH	131.27	-	7.78	8.28	15.88	25.73	3.67	16.94	14.00	
3	BH	84.28	29.97	32.09	43.23	9.40	33.79	25.50	34.30	35.30	
4	BH	53.24	20.07	42.28	40.78	1.82	53.08	20.75	21.01	22.36	
5	BH	52.86	61.56	40.53	55.40	15.38	61.75	13.44	37.88	33.15	
6	BH	69.03	38.34	47.67	18.44	6.60	48.40	26.82	38.61	33.75	
7	BH	88.22	46.71	4.72	10.20	6.60	30.84	9.01	23.69	29.48	
8	BH	51.42	-	4.72	10.20	20.52	8.54	-	3.75	2.77	
9	BH	76.71	-	25.17	9.26	-	12.38	-	11.48	7.05	
10	BH	73.41	9.90	31.94	40.82	-	14.99	-	25.20	21.34	
11	BH	35.22	16.74	11.02	14.91	3.83	20.44	8.66	13.95	11.60	
12	JH	-	-	-	6.43	-	23.83	-	-	-	
13	DMRFG	8.46	-	-	-	-	16.66	-	-	-	
14	DMRFG	-	-	-	-	-	19.21	-	-	-	
15	MCH	192.42	-	0.53	8.05	-	7.94	-	6.15	1.06	
16	AH	67.98	19.71	10.87	20.01	28.38	10.71	-	0.39	35.48	
17	PH	125.22	41.31	48.07	35.00	28.51	97.99	43.08	44.43	31.58	
18	PR	13.82	12.06	51.72	30.28	8.71	22.52	32.50	44.43	24.14	
19	PZO	108.44	21.42	30.14	56.61	31.74	72.42	39.89	23.71	24.14	
20	BISCO	71.35	34.20	62.95	14.92	9.24	74.26	47.48	25.16	45.65	
21	SEDTFC	90.59	56.61	30.85	0.24	19.14	24.35	2.24	11.52	19.74	
22	IA	72.95	26.64	4.67	45.54	19.14	75.31	43.09	46.75	42.36	
23	AMH	90.59	31.86	47.28	36.45	-	29.80	21.00	37.47	21.99	
24	XK	73.09	17.28	29.35	44.88	37.29	78.09	51.69	52.67	45.85	
25	JM	85.14	22.89	29.46	52.81	40.37	58.53	56.50	41.98	38.31	
26	CE	25.60	22.50	56.19	33.68	-	23.79	13.09	27.83	23.24	
27	CH	35.59	28.80	29.84	22.77	27.02	45.13	13.47	29.47	24.88	
28	SX	63.26	10.26	7.33	37.15	-	30.45	12.36	4.46	27.14	
29	NM	-	9.90	2.67	3.26	34.94	69.04	22.44	33.00	27.14	
30	GH	126.28	34.65	2.87	35.61	13.58	70.09	22.04	33.33	28.23	
31	MK	46.04	27.27	22.39	33.93	21.64	73.70	42.70	31.31	25.25	
32	MC	7.63	2.70	7.71	18.04	34.15	61.75	6.33	11.39	10.79	
33	CF	-	35.19	22.63	31.33	-	54.36	16.78	28.96	21.79	
34	GF	16.48	-	-	-	-	-	-	-	-	
35	F	-	-	-	-	-	-	-	-	-	
CHECKS:											
36	BIO	59.09	-	8.05	42.22	33.60	62.70	23.64	27.73	23.73	
37	PARBHAT	99.38	-	-	-	-	26.17	-	-	-	
38	GANGA	133.24	22.95	24.52	43.76	5.60	86.09	31.75	40.86	36.22	
39	SEDTFC	58.62	-	36.49	48.08	-	74.93	22.76	30.23	26.63	
40	PRO	-	-	-	-	-	-	-	-	-	

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARBHAT									
		ZN 1 BAJA	LUDH	KARN	KANP	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN		
1	FILLER	42.33	11.51	28.23	-	13.98	-	33.63	8.82		
2	B H -	20.63	2.37	16.91	-	3.20	11.22	13.44	12.66		
3	B H H -	56.95	67.76	14.33	25.57	36.71	-	47.92	25.46		
4	B H H -	37.58	23.48	30.86	-	18.68	-	49.75	30.13		
5	B H H -	30.18	56.17	51.28	19.43	44.47	-	32.66	11.11		
6	B H H -	27.19	46.75	34.79	18.80	34.81	-	8.75	0.18		
7	B H H -	76.99	67.30	39.07	26.25	45.88	-	18.07	4.05		
8	B H H -	34.39	5.94	4.58	4.33	4.99	-	13.80	10.12		
9	B H H -	11.49	-	20.06	8.33	1.31	-	20.38	-		
10	H H K H -	3.15	10.87	-	5.64	1.78	-	32.11	5.83		
11	J H H -	10589	29.01	-	29.59	11.53	-	22.14	0.23		
12	J C H -	1441	28.49	-	-	12.89	-	-	-		
13	DMRFG -	23	-	-	-	-	-	-	-		
14	DMRFG -	26	-	-	-	-	-	-	-		
15	M C -	03-1	-	-	0.14	-	-	10.29	-		
16	A H H -	23049	22.81	-	10.25	-	-	2.62	-		
17	V R H -	310101	-	-	-	-	-	4.61	-		
18	P R O Z -	360	14.99	5.51	0.66	23.17	-	1.15	37.02		
19	P M Z -	235	38.99	28.70	4.87	1.36	-	23.23	2.75		
20	BISCO -	715	69.42	10.35	11.63	14.68	-	51.69	19.00		
21	SEDTFC -	662	54.97	21.17	4.79	20.46	-	53.40	28.62		
22	V I P L -	475	37.49	52.15	-	-	-	43.06	17.23		
23	A A M H -	475	36.83	-	23.91	-	-	40.14	22.82		
24	X 1282 T	370-2	57.52	44.79	30.61	32.55	-	53.82	23.27		
25	J K M H -	124	24.35	9.37	4.32	3.87	-	77.97	38.54		
26	N C H -	11	62.85	36.54	6.58	19.45	-	45.25	18.76		
27	M C H -	11	17.36	31.99	47.06	15.35	-	26.76	15.65		
28	S S -	X 2002	17.36	31.77	-	13.71	-	57.60	20.39		
29	X N M H -	2004	8.06	30.73	-	2.61	-	54.98	26.62		
30	G K -	1033	49.83	14.29	6.47	1.94	-	48.53	18.56		
31	M C H -	0327	37.62	3.31	3.60	13.51	-	29.99	15.54		
32	M C H -	13	40.40	18.52	0.41	5.79	-	49.99	28.66		
33	M C H -	2007	39.40	-	-	-	-	27.92	1.93		
34	G P -	2009	18.21	38.22	-	4.48	-	72.25	34.45		
35	G P -	2009	32.58	12.18	1.34	3.39	-	12.65	8.13		
36	BIO -	9681	-	-	-	-	-	53.52	46.94		
37	PARBHAT	-	-	-	-	-	-	52.85	20.54		
38	GANGA	11	63.13	39.71	-	8.51	34.75	-	-		
39	SEDTFC -	2324	43.49	19.25	11.22	6.72	-	-	-		
40	PRO -	311	-	-	-	12.92	-	-	-		

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD		% SUPERIORITY OVER THE BIO - 9681		MAND	COIM	JAIN MAHY	ZN 4 MEAN	OV/L MEAN
		HYDE	KARI	BANG POCB	BANG PROA					
1	FILLER	27.76	-	15.58	-	-	5.40	-	-	-
2	BH	45.37	-	22.25	-	-	-	-	-	-
3	BH	15.84	-	31.68	0.71	-	-	1.50	5.15	9.35
4	BH	-	45.41	31.68	-	-	-	-	-	-
5	BH	-	34.33	31.91	-	-	-	-	-	-
6	BH	6.25	80.77	30.19	9.26	-	-	2.57	8.52	10.52
7	BH	18.31	54.77	-	-	-	-	-	7.95	7.61
8	BH	-	64.14	-	-	-	-	-	-	4.64
9	BH	-	1.01	-	-	-	-	-	-	-
10	BH	-	9.87	-	-	-	-	-	-	-
11	JK	11.08	1.51	15.84	-	-	1.91	-	-	-
12	JK	9.01	22.96	22.11	-	-	-	-	-	-
13	DMRFG	-	30.61	2.75	-	-	-	-	-	-
14	DMRFG	-	9.57	-	-	-	-	-	-	-
15	WC	-	-	-	-	-	-	-	-	-
16	AH	83.81	-	-	-	-	-	-	-	-
17	VEH	-	-	1.88	-	-	-	-	-	-
18	PMZ	5.59	33.93	37.78	-	-	21.69	15.72	10.36	9.50
19	PMZ	41.57	58.10	40.41	-	-	5.98	7.17	13.07	6.35
20	BISCO	-	25.37	20.45	-	-	7.11	19.28	20.69	17.71
21	SEEDTEC	31.02	35.84	50.81	10.12	-	-	-	-	-
22	VIP	7.71	50.14	21.10	-	-	-	-	-	-
23	A1282	8.71	41.68	-	-	-	-	-	-	-
24	JKMH	19.80	47.52	24.64	2.34	-	7.75	15.74	14.90	15.05
25	JKMH	8.80	31.22	36.31	1.82	-	9.46	22.69	19.53	17.87
26	SECH	16.38	44.20	58.58	7.49	2.76	-	26.58	11.16	11.78
27	SCFH	-	37.05	44.55	-	5.06	-	-	0.08	-
28	SS	-	44.10	20.17	-	-	-	-	1.36	0.93
29	X	2.62	23.36	-	-	-	-	-	-	-
30	NMH	-	22.96	-	-	1.00	-	-	-	-
31	GK	42.24	50.65	22.97	-	-	3.90	-	4.13	2.76
32	M	-	42.39	13.27	-	-	6.76	-	4.39	3.63
33	MC	-	14.90	-	-	-	-	15.41	2.80	1.22
34	GF	-	51.25	-	-	-	-	-	-	-
35	GF	-	-	13.49	-	0.41	-	-	0.96	-
CHECKS:										
36	BIO	-	-	-	-	-	-	-	-	-
37	PARBHAT	-	-	-	-	-	-	-	-	-
38	GANGA	25.33	11.88	-	-	-	-	-	-	-
39	SEEDTEC	46.61	37.56	15.24	1.08	-	14.38	6.56	10.28	10.09
40	PRO	-	10.07	26.32	4.12	-	7.52	-	1.96	2.34

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BTO - 9681			OVER THE BTO - 9681			VARA	AMBI	ZN 3 MEAN
		ZN 1 BAJA	LUDH	KARN	KARNP	ZN 2 MEAN	VARA			
1	FILLER	7.35	-	26.53	3.71	10.25	72.84	-	-	
2	B H	3297	-	15.36	3.08	32.23	30.23	-	-	
3	B H	3301	18.38	12.81	31.32	14.80	45.69	-	-	
4	B H	3307	3.77	29.13	26.57	39.73	10.56	-	-	
5	B H	3313	-	49.27	25.91	30.40	30.95	-	-	
6	B H	3316	-	33.00	33.94	41.10	21.32	-	-	
7	B H	3439	33.50	37.23	33.94	1.55	21.62	-	-	
8	B H	1129	-	3.20	10.48	1.55	41.56	-	-	
9	H H	1201	-	18.46	14.81	14.81	17.16	-	-	
10	H H	1217	-	-	15.28	-	-	-	-	
11	J H	10589	3.09	-	11.96	7.88	-	-	-	
12	J C	1441 C3 FS	-	15.00	37.34	9.19	-	-	-	
13	DMRFG	23	-	14.54	6.13	-	-	-	-	
14	DMRFG	26	-	-	16.84	-	6.55	-	-	
15	M C	03-1	-	-	-	-	17.22	-	-	
16	A H	23049	-	-	6.68	-	-	-	-	
17	V E H	310101	-	24.12	33.19	19.13	-	-	-	
18	P R O Z	360	-	14.72	11.14	10.92	0.62	2.90	1.91	
19	P M Z	235	4.83	-	19.56	10.92	-	-	-	
20	BISCO	715	27.79	35.63	3.40	16.51	28.46	-	-	
21	SEEDTEC	662	24.43	-	-	-	7.71	-	-	
22	V I P L	1806	3.70	-	31.32	-	40.95	-	-	
23	A A M H	475	3.21	-	8.33	-	3.50	-	-	
24	X 1282 T	-	18.81	29.06	-	28.21	0.31	-	-	
25	J K M H	370-2	-	21.71	25.86	0.46	0.31	-	-	
26	N E C H	124	26.46	17.66	26.60	16.94	1.64	3.32	3.04	
27	M S	11	22.83	17.46	5.17	24.10	8.22	-	-	
28	S S	X 2002	-	16.53	22.25	9.98	47.69	-	-	
29	X M	2004	18.92	1.88	13.37	-	-	-	-	
30	N M H	1033	-	1.88	16.34	-	-	-	-	
31	G K	3050	13.01	-	5.05	-	15.04	-	-	
32	M -	0327	3.80	11.26	18.55	9.79	37.91	-	-	
33	M C H	13	5.89	5.65	1.78	2.32	38.47	-	-	
34	G F	2009	5.05	23.21	-	5.34	-	-	-	
35	CHECKS:	-	-	-	-	-	-	-	-	
36	BTO	9681	-	-	10.73	-	-	-	-	
37	PARBHAT	-	-	-	5.98	-	55.41	-	-	
38	GANGA	11	-	-	0.57	-	55.03	-	-	
39	SEEDTEC	2324	23.05	24.54	14.74	4.95	109.41	-	9.29	
40	PRO	311	8.23	6.30	13.11	9.22	-	-	-	

TABLE NO. 2 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																		
		HYDE	R	KARI	R	POCB	BANG	PROA	BANG	MAND	R	COIM	R	MAHY	R	ZN 4	MEAN	OV/L	MEAN	R
25	J K M H - 370-2	6297	15	7182	9	12545	6	12017	13	8793	-	4580	25	7793	14	8402	10	6201	21	
26	N E C H - 124	6736	11	6388	20	14595	1	12753	6	8991	2	6284	3	9770	2	9331	2	7414	1	
27	M C H - 11	4569	29	7020	11	11027	18	13464	3	8991	1	5593	16	10080	1	8678	5	7031	4	
28	S S F - X 2002	4933	27	6672	16	13304	3	11773	17	6355	26	4368	30	7284	19	7813	18	6265	19	
29	X - 2004	5939	20	7016	12	11060	17	10812	20	8136	9	5121	21	7308	17	7913	16	6348	16	
30	N M H - 1033	3354	36	6006	23	9142	30	9084	32	5909	31	4603	24	6593	28	6384	32	5061	34	
31	G K 3050	8232	4	5986	25	8745	32	12088	12	8643	3	5964	11	7243	20	8129	13	6463	13	
32	M - 0327	5313	26	7334	7	11318	12	11943	14	7275	17	6001	10	7860	13	8149	12	6518	12	
33	M C H - 13	3916	33	6932	13	10425	23	11795	16	7791	11	6129	7	9191	6	8025	14	6367	15	
34	G F - 2007	2159	39	5594	26	9174	29	10396	23	7780	12	5707	15	6848	26	6808	30	5632	28	
35	G F - 2009	4238	30	7364	6	10445	22	11566	18	8592	4	5446	17	7521	16	7882	17	6191	22	
CHECKS:																				
36	BIO - 9681	5788	21	4869	34	9204	26	12525	9	8557	5	5740	13	7963	11	7807	19	6290	18	
37	PARBHAT	3638	34	5447	27	8518	34	8807	35	6405	25	3528	40	6441	30	6112	35	5083	33	
38	GANGA - 11	7254	8	5437	28	6852	39	7780	38	5831	35	4452	26	5039	40	6092	36	4931	35	
39	SEEDTEC - 2324	8486	2	6697	15	10607	21	12660	7	6763	22	6566	2	8486	8	8609	7	6924	6	
40	PRO - 311	5771	22	5359	29	11626	10	13041	4	5842	33	6172	5	7906	12	7960	15	6437	14	
MEAN YIELD=		5703		6205		10308		10767		6836		5108		7283		7458		6035		
MEAN STAND		41		37		33		33		33		24		37		34		32		
C.D. AT 5% =		415		1733		3104		1500		1603		676		908		1420		1092		
C.V. % =		5.20		19.95		18.53		8.57		14.06		9.46		8.91		-		-		
F (Prob)		.000		.000		.000		.000		.000		.000		.000		-		-		
PLOT SIZE=		7.50		6.00		4.80		5.52		7.00		4.80		6.00		-		-		
AGRONOMY DATA:																				
SOW. DATE(2003)		10-07		18-07		1-07		22-07		3-08		11-07		16-07		-		-		
HARV. DATE(2003)		3-11		5-11		10-11		4-12		2-12		6-11		24-11		-		-		
IRRIGATION Nos		3		2		6		-		8		8		-		-		-		
FERTILIZER APP. N		120		150		120		120		150		135		120		-		-		
P		60		60		60		60		75		63		60		-		-		
K		40		40		40		40		40		50		60		-		-		

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										JAIN		ZN 4		OV'L			
		HYDE	R	KARI	R	POCB	R	PROA	R	MAND	R	COIM	R	MAHY	R	MEAN	R	MEAN	
1	FILLER	7394	7	4172	40	10638	20	9303	31	7892	10	6050	9	6947	25	7485	24	6134	24
2	B H - 3297	8414	3	4369	38	9180	28	9536	28	7422	15	4436	27	6677	27	7148	26	5795	26
3	B H - 3301	6704	12	7079	10	11251	13	12614	8	7007	18	4721	22	8083	10	8209	11	6878	8
4	B H - 3307	5575	23	6540	18	12119	8	7840	37	6522	24	5401	19	7777	15	7396	25	6220	20
5	B H - 3313	5561	24	8800	1	12141	7	12398	11	7390	16	5707	14	7306	18	8472	8	6951	5
6	B H - 3316	6149	18	7535	5	11982	9	13686	2	6232	28	5236	20	8168	9	8427	9	6768	9
7	B H - 3439	6848	10	7991	3	9186	27	10430	22	6828	21	4616	23	7021	23	7560	23	6582	11
8	H K H - 1129	5509	25	4917	33	8920	31	9705	26	5745	36	3830	38	5760	36	6341	33	5224	31
9	H K H - 1201 (W)	2792	38	5349	30	4710	40	7470	40	7720	13	3965	36	6053	32	5437	40	4815	37
10	H K H - 1217	6429	13	4942	32	10662	19	9623	27	5994	30	4057	35	5988	33	6813	29	5442	30
11	J C - 10589	6309	14	5986	24	11239	14	12401	10	5362	38	5850	12	6419	31	7652	21	6168	23
12	J C - 1441 C3 FS	4920	28	6359	21	9457	24	10119	25	6651	23	4249	32	6998	24	6965	27	5673	27
13	DMRFG - 23	1910	40	4476	37	7839	37	8942	33	6180	29	4369	29	5900	35	5659	38	4711	38
14	DMRFG - 26	3946	32	5334	31	7928	36	9373	30	4765	39	4116	34	5647	37	5873	37	4834	36
15	M C - 03-1	3553	35	4584	36	6905	38	8216	36	5839	34	4206	33	5074	39	5482	39	4514	40
16	A H - 23049	10639	1	4172	39	8563	33	7499	39	5633	37	3808	39	5099	38	6488	31	5137	32
17	V E H - 310101	3343	37	4614	35	9377	25	9516	29	6264	27	3906	37	5930	34	6136	34	4675	39
18	P R O - 360	6111	19	6520	19	12680	5	10569	21	8223	8	6986	1	9215	5	8615	6	6887	7
19	P M Z - 235	8194	5	7697	4	12923	4	11889	15	8231	7	4323	31	8534	7	8827	4	6689	10
20	BISCO - 715	4141	31	6104	22	11086	16	11473	19	6963	20	6084	8	7078	21	7561	22	6310	17
21	SHEDTBC - 662	7583	6	6614	17	13880	2	13792	1	8438	6	6148	6	9499	3	9422	1	7404	2
22	V I P L - 1806	6234	17	7310	8	11146	15	10120	24	6997	19	5423	18	6585	29	7688	20	6087	25
23	A A M H - 475	6292	16	6898	14	8442	35	8828	34	5843	32	4388	28	7024	22	6816	28	5575	29
24	X 1282 T	6934	9	8530	2	11471	11	12818	5	7631	14	6185	4	9216	4	8969	3	7236	3

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		ZN 1			ZN 2			ZN 3									
		BAJA	R	LUDH	R	KARN	R	KANP	R	MEAN	R	VARA	R	AMBI	R	MEAN	R
25	J K M H - 370-2	4831	24	5272	26	5112	18	3437	32	4607	22	1381	26	3963	37	2672	36
26	N E C H - 124	6514	3	6581	10	5223	13	4284	6	5363	8	1399	24	7061	1	4230	2
27	M C H - 11	6327	6	6362	11	7206	2	3505	30	5691	6	1490	19	5763	15	3626	15
28	S S F - X 2002	4560	28	6351	12	4643	25	4137	10	5044	13	2033	5	5029	23	3531	18
29	X - 2004	6125	7	6301	13	3516	36	3836	16	4551	25	1099	40	6253	4	3676	13
30	N M H - 1033	4198	33	5509	21	3125	39	3598	24	4077	33	1133	38	3544	40	2338	40
31	G K 3050	5821	10	4980	28	5217	14	3367	37	4521	26	1583	17	6149	5	3866	8
32	M - 0327	5347	16	6016	17	5077	19	4011	11	5035	14	1347	28	5893	13	3620	16
33	M C H - 13	5454	13	5713	20	4920	21	3444	31	4692	20	1898	10	5157	21	3528	19
34	G F - 2007	5411	14	4351	35	4791	24	3147	38	4096	32	1906	9	5951	11	3928	6
35	G F - 2009	4592	27	6663	9	4082	30	3747	20	4831	18	1149	37	5075	22	3112	28
CHECKS:																	
36	BIO - 9681	5151	21	5407	22	4966	20	3384	35	4586	23	1376	27	6834	3	4105	4
37	PARBHAT	3885	35	4820	30	4900	22	3586	26	4436	30	2139	3	3968	36	3053	31
38	GANGA - 11	3231	40	4105	38	4110	29	3403	34	3873	36	2134	4	4470	30	3302	24
39	SEEDTEC - 2324	6338	5	6734	7	3822	31	3882	15	4813	19	2882	1	6091	7	4487	1
40	PRO - 311	5575	11	5748	19	5450	12	3827	17	5008	15	1296	32	6064	9	3680	12
	MEAN YIELD=	5084		5675		4892		3791		4786		1590		5208		3399	
	MEAN STAND	29		25		23		32		27		37		33		35	
	C.D. AT 5% =	977		1311		157		703		724		183		923		553	
	C.V. % =	11.83		16.49		1.59		11.41				7.07		12.66			
	F (Prob)	.000		.000		.000		.000				.000		.000			
	PLOT SIZE=	4.80		3.90		5.60		5.40				7.50		7.50			
AGRONOMY DATA:																	
	SOWING DATE(2003)	7-07		14-07		5-07		22-07		-		8-07		10-07		-	
	HARVEST DATE(2003)	4-11		21-10		10-10		17-10		-		8-10		-		-	
	IRRIGATION Nos	3		3		4		-		-		-		-		-	
	FERTILIZER APPLIED	N 120		125		150		120		-		120		100		-	
		P 60		60		60		60		-		60		60		-	
		K 40		30		-		60		-		40		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (> 20%) : UMIA 39.4% : DELH 21.8% : DHOL 28.0% :
 KUSH 38.8% : NAGA 22.9% : KOLH 28.0% : GODH 47.5%

TABLE NO. 2

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AND COMPOSITES AT BAJAJURA, LUDDHIANA, KARNAL, KANPUR, VARANASI, AMBIKAPUR, HYDERABAD, KARIMNAGAR, POC BANGALORE, PROAGRO BANGALORE, MANDYA, COIMBATORE, MAHYCO JAINA, IN IET, TRIAL NO. TR61B DURING KHARIF (2003).

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		ZN 1			ZN 2			ZN 3			MEAN						
		BAJA	R	LUDDH	R	KARN	R	KANP	R	MEAN	R	VARA	R	AMBI	R	MEAN	R
1	FILLER	5530	12	5375	23	6283	7	3509	29	5056	12	1343	29	5302	18	3323	23
2	B H - 3297	4687	26	4934	29	5729	10	3070	40	4578	24	2379	2	4501	29	3440	20
3	B H - 3301	6098	9	8086	1	5602	11	4503	4	6064	3	1792	12	5869	14	3831	9
4	B H - 3307	5345	17	5952	18	6413	5	3429	33	5264	10	2005	6	5941	12	3973	5
5	B H - 3313	5057	22	7528	3	7413	1	4283	7	6408	2	1522	18	5263	19	3393	21
6	B H - 3316	4941	23	7074	5	6605	4	4260	8	5980	4	1802	11	4315	32	3059	30
7	B H - 3439	6876	1	8064	2	6815	3	4532	2	6470	1	1670	14	4684	27	3177	26
8	H K H - 1129	3629	37	5107	27	5125	17	3739	21	4657	21	1412	23	4515	28	2964	32
9	H K H - 1201 (W)	4332	32	3713	39	5883	9	3885	14	4494	29	1948	7	4776	26	3362	22
10	H K H - 1217	4007	34	5344	24	4637	26	3563	27	4514	27	1613	16	3883	39	2748	35
11	J H - 10589	5310	20	6219	14	4834	23	3788	18	4947	17	1221	36	5242	20	3231	25
12	J C - 1441 C3 FS	3849	36	6194	16	4181	28	4647	1	5007	16	1275	34	4846	25	3060	29
13	DMRFG - 23	4391	31	4354	34	4252	27	3376	36	3994	34	1317	31	3936	38	2627	38
14	DMRFG - 26	4452	30	4118	37	3724	32	3591	25	3811	38	1467	21	4376	31	2921	33
15	M C - 03-1	3625	38	4163	36	3376	37	3954	13	3831	37	1117	39	4071	34	2594	39
16	A H - 23049	4771	25	4461	33	3268	38	3105	39	3611	39	1613	15	4151	33	2882	34
17	V E H - 310101	3483	39	3579	40	1854	40	3610	23	3014	40	1288	33	4013	35	2650	37
18	P R O - 360	4467	29	6712	8	5170	15	4507	3	5463	7	1335	30	7032	2	4183	3
19	P M Z - 235	5400	15	6204	15	3523	35	3761	19	4496	28	1385	25	4889	24	3137	27
20	BISCO - 715	6582	2	5319	25	5937	8	4003	12	5087	11	1248	35	6019	10	3633	14
21	SEEDTEC - 662	6409	4	7334	4	5135	16	3560	28	5343	9	1768	13	6086	8	3927	7
22	V I P L - 1806	5341	18	4706	31	3664	34	4444	5	4271	31	1482	20	5676	16	3579	17
23	A A M H - 475	5316	19	4582	32	3700	33	3666	22	3982	35	1940	8	5560	17	3750	11
24	X 1282 T	6120	8	6979	6	6400	6	4259	9	5879	5	1425	22	6103	6	3764	10

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	STAND HYDE JKSE	AT KARI	HARVEST BANG POCB	BANG PROA	MAND	COIM	KOLH	JAIN MAHY	UDAI	OV'L MEAN
1	BH	42	40	34	34	34	34	34	34	34	34
2	BH	41	36	31	34	34	34	34	34	34	34
3	BH	41	36	31	34	34	34	34	34	34	34
4	BH	41	36	31	34	34	34	34	34	34	34
5	BH	42	38	33	34	34	34	34	34	34	34
6	BH	43	38	33	34	34	34	34	34	34	34
7	BH	43	38	33	34	34	34	34	34	34	34
8	BH	43	38	33	34	34	34	34	34	34	34
9	BH	43	38	33	34	34	34	34	34	34	34
10	BH	43	38	33	34	34	34	34	34	34	34
11	BH	43	38	33	34	34	34	34	34	34	34
12	BH	43	38	33	34	34	34	34	34	34	34
13	BH	43	38	33	34	34	34	34	34	34	34
14	BH	43	38	33	34	34	34	34	34	34	34
15	BH	43	38	33	34	34	34	34	34	34	34
16	BH	43	38	33	34	34	34	34	34	34	34
17	BH	43	38	33	34	34	34	34	34	34	34
18	BH	43	38	33	34	34	34	34	34	34	34
19	BH	43	38	33	34	34	34	34	34	34	34
20	BH	43	38	33	34	34	34	34	34	34	34
21	BH	43	38	33	34	34	34	34	34	34	34
22	BH	43	38	33	34	34	34	34	34	34	34
23	BH	43	38	33	34	34	34	34	34	34	34
24	BH	43	38	33	34	34	34	34	34	34	34
25	BH	43	38	33	34	34	34	34	34	34	34
26	BH	43	38	33	34	34	34	34	34	34	34
27	BH	43	38	33	34	34	34	34	34	34	34
28	BH	43	38	33	34	34	34	34	34	34	34
29	BH	43	38	33	34	34	34	34	34	34	34
30	BH	43	38	33	34	34	34	34	34	34	34
31	BH	43	38	33	34	34	34	34	34	34	34
32	BH	43	38	33	34	34	34	34	34	34	34
33	BH	43	38	33	34	34	34	34	34	34	34
34	BH	43	38	33	34	34	34	34	34	34	34
35	BH	43	38	33	34	34	34	34	34	34	34
36	BH	43	38	33	34	34	34	34	34	34	34
37	BH	43	38	33	34	34	34	34	34	34	34
38	BH	43	38	33	34	34	34	34	34	34	34
39	BH	43	38	33	34	34	34	34	34	34	34
40	BH	43	38	33	34	34	34	34	34	34	34
41	BH	43	38	33	34	34	34	34	34	34	34

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

TABLE NO. 3 (CONT.)

S1 No	PEDIGREE	DAYS TO 50% SILKING									
		BAJA	DELH	LUDH	KARN	KANP	MEAN	VARA	RANC	AMBI	MEAN
1	BH	68.0	53.7	60.9	54.5	52.7	55.3	57.5	53.0	59.8	56.4
2	BH	67.3	53.0	59.5	53.8	52.0	55.1	57.3	53.3	58.4	55.3
3	BH	65.5	51.0	55.4	53.5	50.0	54.8	56.8	52.2	57.1	54.4
4	CH	63.0	50.3	55.8	52.8	48.3	54.4	56.0	51.7	54.4	53.9
5	CH	63.7	50.7	57.7	53.8	49.0	54.4	56.8	52.2	57.1	54.4
6	CH	64.0	53.0	57.8	54.0	50.0	54.4	56.0	51.7	54.4	53.9
7	CH	65.5	53.7	57.8	54.0	50.0	54.4	56.0	51.7	54.4	53.9
8	CH	62.2	51.0	57.3	53.0	49.0	54.4	56.0	51.7	54.4	53.9
9	LH	62.2	51.0	57.3	53.0	49.0	54.4	56.0	51.7	54.4	53.9
10	LH	62.2	51.0	57.3	53.0	49.0	54.4	56.0	51.7	54.4	53.9
11	LH	62.2	51.0	57.3	53.0	49.0	54.4	56.0	51.7	54.4	53.9
12	LH	62.2	51.0	57.3	53.0	49.0	54.4	56.0	51.7	54.4	53.9
13	AH	65.5	48.1	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
14	AH	65.5	48.1	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
15	AH	65.5	48.1	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
16	AH	65.5	48.1	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
17	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
18	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
19	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
20	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
21	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
22	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
23	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
24	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
25	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
26	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
27	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
28	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
29	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
30	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
31	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
32	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
33	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
34	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
35	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
36	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
37	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
38	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
39	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9
40	PH	63.0	49.9	54.8	50.0	46.7	54.4	56.0	51.7	54.4	53.9

CHECKS:
 NAVJOT
 KH 510
 MEAN LOCATION
 C.D. AT 5%
 C.V. %
 F (Prob)

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED										Z4 MEAN	Z5 CHH1	OV'T MEAN
		KARI	ARBH	MAND	COIM	KOLH	AKOL	Z4 MEAN	Z5 CHH1	OV'T MEAN				
1	BH	3298	51.0	58.5	51.7	50.8	60.7	49.3	53.7	53.0	57.5	5.8	53.1	
2	BH	3299	51.3	57.4	50.3	52.3	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
3	BH	3443	45.5	56.8	48.0	51.0	52.0	59.0	50.3	52.2	57.0	5.8	51.0	
4	CHH	202	51.5	57.3	53.0	52.0	62.3	48.3	53.0	52.2	57.0	5.3	51.0	
5	JH	103	46.8	56.3	51.0	51.0	59.7	47.7	53.0	52.2	57.0	5.3	51.0	
6	JH	145	49.8	56.8	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
7	JH	159	44.3	51.0	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
8	LH	182	44.5	53.0	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
9	LH	134	44.8	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
10	LH	134	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
11	AH	230	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
12	AH	230	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
13	AH	240	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
14	AH	240	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
15	AH	220	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
16	BI	220	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
17	BI	220	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
18	BI	136	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
19	BI	136	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
20	SEEDTEC	010	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
21	SEEDTEC	010	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
22	SEEDTEC	663	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
23	SEEDTEC	243	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
24	VV	150	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
25	VV	150	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
26	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
27	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
28	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
29	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
30	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
31	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
32	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
33	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
34	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
35	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
36	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
37	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
38	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
39	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	
40	VV	83	44.5	51.3	46.3	51.0	57.7	47.7	53.0	52.2	57.0	5.3	51.0	

NAVJOT
 KH 510
 MEAN LOCATION
 C.D. AT 5%
 F. (Prob)

TABLE NO. 3 (CONT.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED			KARN	KAMP	ZN 2		VARA	RANC	AMBI	ZN 3
		BAJA	DEH	LUDH			MEAN	VARA				
1	BH	3298	51.7	59.5	52.0	47.7	52.7	52.5	50.0	54.8	52.6	
2	BH	3299	64.7	53.5	58.3	44.3	44.0	49.0	48.0	51.3	51.3	
3	BH	3443	60.3	47.7	54.0	44.7	48.8	50.5	50.3	50.3	50.3	
4	CHH	20262	51.0	52.8	57.0	45.0	51.5	51.0	48.3	55.4	52.2	
5	JH	1456	66.3	50.0	60.8	45.0	49.0	51.0	48.3	55.4	52.2	
6	JH	1459	62.3	49.0	56.5	45.0	49.0	51.0	48.3	55.4	52.2	
7	HK	1200	58.3	48.0	58.8	46.0	47.9	46.0	48.3	55.4	52.2	
8	LH	182	58.3	47.7	58.8	47.5	48.4	47.5	48.3	55.4	52.2	
9	LH	134	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
10	LH	23071	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
11	AH	23071	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
12	AH	23071	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
13	AH	24008	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
14	AH	24020	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
15	AH	22069	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
16	BI	22045	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
17	BI	136	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
18	BI	136	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
19	BI	101	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
20	BI	101	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
21	SEED	6637	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
22	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
23	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
24	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
25	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
26	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
27	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
28	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
29	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
30	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
31	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
32	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
33	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
34	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
35	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
36	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
37	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
38	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
39	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	
40	SEED	2437	30.7	47.7	52.8	47.5	48.4	47.5	48.3	55.4	52.2	

MEAN LOCATION
C.V. AT 5%
F. (Prob)

TABLE NO. 3 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KH 510									
		KARI	ARBH	MAND	COIM	KOLH	AKOL	ZN 4 MEAN	ZN 5 CHIT	OV'L MEAN	
1	B H -	3298	19.36	0.55	-	-	28.26	4.68	3.53	18.16	9.81
2	B H -	3299	20.23	-	-	23.08	-	-	-	20.94	8.28
3	B H -	3443	18.32	1.25	-	17.91	2.01	-	-	7.77	12.31
4	CHH -	20262	-	-	-	-	-	-	-	-	-
5	J H -	10362	2.21	2.20	-	-	-	-	0.16	1.71	-
6	J C -	1456	4.96	3.29	-	-	14.11	-	-	-	0.46
7	J C -	1459	-	-	-	-	-	-	-	-	0.01
8	H K -	1200	-	-	-	-	-	-	-	-	-
9	L -	182	-	-	-	-	-	-	-	-	-
10	L -	134	-	-	-	-	-	-	-	-	-
11	A H -	23007	-	-	-	-	-	-	-	-	-
12	A H -	23071	-	-	-	-	-	12.66	-	-	-
13	A H -	24008	-	-	-	-	0.53	-	-	-	-
14	A H -	24020	-	-	-	-	-	-	-	-	-
15	B I O -	22069	31.34	21.77	1.41	41.66	-	-	13.48	20.20	14.41
16	B I O -	22045	-	12.74	-	21.09	-	-	2.40	10.55	9.70
17	P M Z -	136	-	-	-	8.75	-	-	-	-	-
18	BISCO -	0101	-	7.36	-	12.19	-	-	-	4.46	-
19	BISCO -	0102	19.00	2.44	-	13.71	-	-	0.74	0.51	1.84
20	SEEDTEC -	663	21.57	11.79	-	17.32	-	-	4.61	14.21	8.99
21	SEEDTEC -	2437	3.24	6.80	8.14	13.71	-	-	-	6.50	5.69
22	V I P L L -	1501	-	-	-	4.34	-	-	-	-	-
23	V I P L L -	1503	-	-	-	4.15	-	-	-	-	-
24	A A M H -	831	1.53	6.54	-	17.32	-	-	1.33	15.81	7.53
25	A A M H -	574	-	4.79	-	23.04	-	-	-	1.79	2.07
26	J K M H -	207	-	10.35	-	4.15	-	-	-	3.11	-
27	J K M H -	1512	-	-	7.03	16.93	-	-	-	19.51	9.41
28	N E C H -	126	11.81	15.39	10.75	42.15	-	-	3.14	4.92	6.58
29	N E C H -	127	17.26	-	-	46.38	-	-	0.02	0.97	6.56
30	S S F -	87	5.65	-	-	17.09	-	-	4.44	13.96	11.93
31	S S F -	X 88	29.64	-	3.91	17.09	-	-	5.64	21.05	8.16
32	X X -	2005	17.12	4.95	-	8.62	-	-	-	16.42	-
33	X X -	2003	32.89	5.33	-	8.62	-	-	-	16.84	-
34	KAVERI -	A	1.51	-	-	6.08	-	-	4.04	16.84	11.85
35	N M H -	1034	9.88	6.43	-	-	-	-	-	-	-
36	S M H -	3758	-	-	-	-	-	-	-	-	-
37	MAHABEJ -	1100	-	-	-	-	-	-	-	-	-
38	MAHABEJ -	1102	-	-	-	-	-	-	-	-	-
39	CHECKS:	-	-	-	-	-	-	-	-	-	-
40	NAVJOT KH 510	-	-	-	-	-	-	-	-	-	-

TABLE NO. 3 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KH 510									
		ZN 1 HAJA	DELH	LDDH	KARN	KANP	ZN 2 MEAN	VARA	RANC	AMBI	ZN 3 MEAN
1	BH	3.95	23.52	25.54	73.40	-	23.00	9.93	4.91	7.47	7.22
2	BH	17.04	25.10	73.40	18.39	-	21.20	-	-	18.33	7.36
3	BH	27.57	43.55	68.44	57.77	-	36.73	13.20	-	54.96	24.30
4	CHH	202	10.55	18.04	-	-	-	-	1.39	6.30	2.68
5	JH	10362	26.86	40.12	14.30	-	10.68	-	-	5.58	-
6	JH	1456	12.97	34.64	25.77	-	4.39	-	-	13.14	-
7	JH	1459	10.50	34.52	35.28	-	12.32	-	44.58	1.99	8.61
8	KH	1200	12.71	-	7.51	-	-	-	-	19.69	5.99
9	LH	182	-	-	-	-	-	-	-	7.76	-
10	LH	134	-	-	-	-	-	6.27	-	16.45	3.99
11	AH	23007	-	-	-	-	-	-	-	4.85	1.02
12	AH	23071	14.08	16.89	6.89	-	2.37	50.55	-	12.30	15.28
13	AH	24008	6.49	8.52	18.16	-	1.02	31.71	9.65	4.85	-
14	AH	24020	16.96	35.50	0.14	-	16.48	4.57	-	30.15	17.17
15	BI	22069	29.45	9.18	31.91	-	14.08	18.79	-	33.04	29.90
16	BI	22045	6.52	5.12	86.72	-	3.05	-	46.20	24.88	1.83
17	BI	136	13.22	26.67	27.76	-	5.03	-	-	3.06	-
18	BI	0101	23.26	20.84	54.87	-	10.08	-	-	3.438	25.81
19	BISCO	0102	9.98	46.01	30.80	-	25.29	-	29.53	17.79	5.15
20	SEEDTEC	663	19.71	30.17	53.38	10.93	10.06	-	3.04	15.00	4.35
21	SEEDTEC	2437	3.63	1.30	10.07	-	-	12.59	-	12.05	-
22	VIP	1501	-	-	-	-	-	-	-	34.10	30.07
23	VIP	1503	-	-	-	-	-	-	-	10.27	13.36
24	AA	831	28.80	14.62	31.27	-	11.39	31.78	21.38	21.75	7.98
25	AA	574	6.81	16.32	40.84	-	4.15	28.51	8.80	16.43	-
26	AA	207	4.92	23.42	25.57	-	-	-	-	48.96	22.74
27	JK	1512	18.97	26.09	-	-	10.37	-	-	28.73	30.19
28	NE	126	14.20	16.99	50.91	0.13	11.11	21.19	39.03	28.68	30.31
29	NE	127	8.00	39.53	73.38	-	10.98	33.72	5.62	29.91	24.83
30	SS	87	53.04	37.98	57.77	-	25.89	38.58	-	19.89	12.41
31	SS	X 88	30.04	67.22	40.06	-	22.28	38.58	-	29.47	24.13
32	X	2005	36.71	43.48	68.26	-	23.67	65.94	2.53	19.47	23.61
33	X	2003	30.04	43.48	68.26	-	23.67	65.94	-	20.47	24.13
34	KAVERI	2288	26.38	26.98	25.35	-	11.15	25.85	-	48.32	23.61
35	NMH	1034	24.51	18.93	28.88	-	10.75	25.85	-	48.32	23.61
36	NMH	3758	10.26	5.03	106.71	-	17.64	46.28	-	27.30	22.92
37	MAHABERT	1100	11.30	-	-	-	-	10.90	-	11.13	6.90
38	MAHABERT	1102	11.87	-	-	-	-	-	-	20.37	5.74
39	NAVJOT	-	6.11	8.55	26.52	-	-	-	-	5.88	-
40	KH 510	-	-	-	-	-	-	-	-	-	-

TABLE NO. 3 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT									
		KARI	ARBH	MAND	COIM	KOLH	AKOL	ZN 4 MEAN	ZN 5 CHHI	OV'L MEAN	
1	B H H -	3298	64.10	21.42	39.21	2.85	91.79	49.55	44.15	69.45	37.43
2	B H H -	3299	65.29	11.68	43.33	0.78	84.03	17.00	38.23	73.44	35.51
3	B H H -	3443	62.67	22.27	12.03	8.45	76.31	45.74	36.72	54.56	40.57
4	CHH -	202	40.52	12.63	32.64	0.39	23.08	15.14	19.09	18.07	13.21
5	J T H -	10362	44.31	23.41	49.63	9.24	20.25	22.29	26.08	45.87	21.05
6	J T C C H -	1456	44.44	24.73	41.70	29.78	70.63	29.90	39.45	35.65	25.74
7	J T C C H -	1459	33.44	10.14	22.35	37.84	47.84	11.01	30.22	34.99	25.17
8	H K H -	1200	24.76	-	-	35.76	6.93	7.40	12.14	18.52	9.67
9	L L L -	182	5.91	-	-	-	26.46	13.20	3.00	4.34	-
10	L L L -	134	-	0.09	-	-	8.22	10.72	1.33	7.58	-
11	A H H -	23007	23.10	-	12.73	5.07	30.18	60.96	14.92	12.34	11.17
12	A H H -	23071	12.00	-	10.21	3.77	40.38	10.96	1.33	7.49	9.08
13	A H H -	24008	33.54	5.82	3.60	8.46	50.32	18.89	15.11	10.88	10.77
14	A H H -	24020	80.57	47.05	52.89	24.45	111.82	13.46	11.81	72.38	43.20
15	B B I O -	22069	37.76	36.14	29.63	15.08	81.06	35.89	58.00	58.55	37.39
16	B P M I O -	22045	37.46	49.20	34.85	48.77	27.63	37.22	42.57	32.45	27.71
17	P P M I O -	136	24.94	29.65	45.41	57.09	67.75	8.98	29.51	49.81	19.39
18	BISCO -	0101	63.61	23.71	40.60	28.74	31.14	4.98	40.26	63.79	32.28
19	BISCO -	0102	67.13	34.99	63.03	44.48	70.04	6.65	45.65	52.74	36.41
20	SEEDTEC -	2437	41.93	28.96	44.94	57.62	34.15	8.65	22.29	6.41	17.52
21	SEEDTEC -	1503	36.50	5.95	18.06	18.72	55.02	17.96	41.08	22.44	34.58
22	V P L L -	1503	20.71	28.65	45.34	59.70	75.43	42.31	39.00	66.97	27.75
23	V P L L -	1503	39.58	26.55	41.74	12.82	83.99	31.44	28.54	47.87	20.39
24	A A M H H -	831	35.10	33.26	61.36	19.50	37.48	13.86	38.70	74.65	20.52
25	A A M H H -	574	35.33	33.24	66.96	44.48	37.85	13.04	28.54	47.87	20.39
26	J K M H H -	207	16.51	12.24	51.03	38.24	74.85	31.44	43.61	71.39	33.36
27	J K M H H -	1512	53.71	39.34	31.03	44.48	74.85	13.86	43.61	47.87	33.36
28	E E C C H -	126	61.20	16.30	42.70	13.78	118.88	100.04	28.54	74.65	20.39
29	N S S F -	87	45.23	4.58	56.66	15.47	47.14	24.65	39.07	50.47	33.36
30	S S S F -	88	78.22	26.73	42.70	15.47	47.14	24.65	39.07	50.47	33.36
31	S S S F -	88	61.02	27.19	36.51	15.47	47.14	24.65	39.07	50.47	33.36
32	X X X -	2005	82.70	27.19	36.51	15.47	47.14	24.65	39.07	50.47	33.36
33	X X X -	2005	82.70	27.19	36.51	15.47	47.14	24.65	39.07	50.47	33.36
34	KAVERI -	2288	39.55	8.61	49.72	68.55	58.62	9.87	44.85	67.97	16.48
35	N M H -	1034	51.07	28.52	49.51	68.55	58.62	9.87	44.85	67.97	16.48
36	S M H -	3758	3.08	9.29	11.71	17.55	15.71	9.79	10.39	20.32	6.34
37	MAHABBEJ -	1100	10.36	9.29	11.71	17.55	15.71	9.79	10.39	20.32	6.34
38	MAHABBEJ -	1102	10.36	9.29	11.71	17.55	15.71	9.79	10.39	20.32	6.34
39	CHICKS: NAVJOT		37.48	20.76	50.76	41.87	49.53	42.87	39.23	43.41	25.16
40	KH 510		37.48	20.76	50.76	41.87	49.53	42.87	39.23	43.41	25.16

TABLE NO. 3 (CONT.)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT										
		ZN 1	BAJA	DELH	LUDH	KARN	KANP	ZN 2	VARA	RANC	AMBI	ZN 3
1	BH	3298	57.99	16.40	15.65	37.05	29.40	24.10	64.58	15.53	1.50	13.90
2	BH	3299	77.89	17.90	59.74	-	17.22	22.29	48.44	1.83	11.75	14.05
3	BH	3443	93.88	35.28	55.17	24.69	36.61	37.96	69.47	-	46.35	32.04
4	CHH	202	48.46	4.18	8.74	-	1.07	37.96	41.68	11.65	0.40	9.07
5	JH	10362	39.49	19.55	29.08	-	5.27	11.67	26.49	2.04	6.86	0.75
6	JH	1456	55.10	6.47	24.03	-	-	5.32	10.72	-	6.86	5.07
7	JH	1459	56.71	4.13	23.92	-	-	13.33	49.57	59.22	13.04	15.38
8	KH	1200	29.29	6.22	-	6.92	20.70	-	2.55	-	1.77	12.59
9	LH	134	21.03	-	-	-	14.49	-	43.12	-	9.98	10.47
10	LH	23007	-	-	-	-	3.94	-	59.10	-	9.98	10.47
11	AH	23071	41.09	7.51	7.68	-	2.88	3.28	125.38	-	-	7.31
12	AH	23071	-	0.36	-	-	14.56	-	97.18	20.75	6.07	22.46
13	AH	24008	-	10.22	-	-	18.56	1.93	56.55	-	-	1.90
14	AH	24020	43.90	21.99	24.82	4.26	20.03	17.52	77.84	1.14	22.92	24.47
15	BH	22069	47.98	6.38	0.58	47.58	18.38	15.10	45.77	61.00	25.65	37.99
16	BH	22045	74.23	6.69	16.68	0.98	14.11	5.97	26.54	0.88	17.94	8.17
17	BH	136	23.61	16.16	11.31	22.40	21.94	3.98	22.06	-	2.94	5.66
18	BH	0101	76.85	3.64	11.31	23.38	7.42	11.07	45.00	42.64	11.25	33.65
19	BISCO	663	10.55	12.81	34.50	21.23	11.44	26.41	37.75	-	8.61	11.70
20	SEEDTEC	2437	48.07	-	19.91	-	0.01	11.05	16.90	13.47	26.91	10.85
21	SEEDTEC	1501	26.50	-	-	-	18.60	-	97.29	33.66	4.15	38.17
22	VIP	1503	28.62	21.38	5.59	3.75	1.23	12.39	38.24	2.33	14.98	14.71
23	VIP	831	75.81	0.65	7.16	11.31	29.97	5.09	46.81	2.40	19.96	30.39
24	AA	574	37.56	-	-	-	46.72	11.36	81.43	53.11	40.68	30.30
25	AA	207	75.81	-	-	-	14.93	11.98	41.47	2.40	21.58	38.30
26	JK	1512	56.25	-	-	-	-	12.11	46.81	2.40	19.96	30.39
27	JK	1267	75.69	-	-	-	-	11.98	81.43	53.11	40.68	30.30
28	NE	1267	54.12	-	-	-	-	11.98	81.43	53.11	40.68	30.30
29	NE	1267	84.90	-	-	-	-	11.98	81.43	53.11	40.68	30.30
30	SS	87	41.12	-	-	-	-	11.98	81.43	53.11	40.68	30.30
31	SS	87	97.56	-	-	-	-	11.98	81.43	53.11	40.68	30.30
32	SS	87	41.12	-	-	-	-	11.98	81.43	53.11	40.68	30.30
33	X	2005	17.19	-	-	-	-	11.98	81.43	53.11	40.68	30.30
34	X	2003	17.19	-	-	-	-	11.98	81.43	53.11	40.68	30.30
35	KAVERI	2288	76.21	-	-	-	-	11.98	81.43	53.11	40.68	30.30
36	NMH	1034	94.10	-	-	-	-	11.98	81.43	53.11	40.68	30.30
37	MAHABEET	1100	-	-	-	-	-	11.98	81.43	53.11	40.68	30.30
38	MAHABEET	1102	-	-	-	-	-	11.98	81.43	53.11	40.68	30.30
39	NAVJOT	51.98	-	-	-	-	-	0.90	49.71	10.12	-	6.23
40	KH	510	-	-	-	-	-	0.90	49.71	10.12	-	6.23

TABLE NO. 3 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											
		COIM	R	KOLH	R	AKOL	R	ZN 4 MEAN	R	ZN 5 CHHT	R	OV/L MEAN	R
26	J K M H - 207	3881	31	7969	6	2833	35	6188	24	10171	1	5107	25
27	J K M H - 1512	4503	19	5689	28	3861	10	6180	25	8611	18	5112	24
28	N E C H - 126	5444	9	5955	25	2839	34	6904	8	9981	5	5809	8
29	N E C H - 127	5209	11	7573	11	3345	19	6695	13	8763	16	5658	14
30	S S F - X 87	4287	25	9206	2	5876	1	7071	3	8432	21	5657	15
31	S S F - X 88	3788	34	9480	1	3662	12	6991	5	9517	12	5942	3
32	X - 2005	4351	23	6373	23	3349	18	6517	20	9569	10	5742	11
33	X - 2003 A	6405	1	7583	10	2587	40	7072	2	10109	2	5939	4
34	KAVERI - 2288	5807	6	7035	16	4161	7	6615	18	9723	8	5679	13
35	N M H - 1034	5106	14	5942	26	3098	29	5595	30	8250	24	4941	27
36	S M H - 3758	6351	2	6870	17	3228	25	6964	6	9758	7	5938	5
37	MAHABEJ - 1100	3621	39	5038	35	3225	26	4685	39	5645	39	4159	37
38	MAHABEJ - 1102	4429	22	5012	36	2741	38	5307	35	7007	29	4511	35
CHECKS:													
39	NAVJOT	3768	36	4331	39	2938	31	4808	38	5823	38	4242	36
40	KH 510	5346	10	6477	21	4197	5	6694	14	8352	23	5309	21
	MEAN YIELD=	4659		6573		3466		6170		8176		5196	
	MEAN STAND	23		41		35		35		33		32	
	C.D. AT 5% =	564		2059		959		1441		977		1112	
	C.V. % =	8.64		19.27		17.02				8.54			
	F (Prob)	.000		.000		.000				.000			
	PLOT SIZE=	4.80		7.50		6.00				5.60			
AGRONOMY DATA:													
	SOWING DATE(2003)	11-07		8-07		7-07				5-07			
	HARVEST DATE(2003)	29-10		3-11		-				28-10			
	IRRIGATION NOS	8		-		-		-		-		-	
	FERTILIZER APPLIED	N 135		120		-		-		120		-	
		P 63		60		-		-		60		-	
		K 50		40		-		-		40		-	

TABLE NO. 3 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											
		COIM	R	KOLH	R	AKOL	R	ZN 4 MEAN	R	ZN 5 CHHI	R	OV'L MEAN	R
1	B H - 3298	3876	32	8307	4	4393	3	6930	7	9868	6	5830	6
2	B H - 3299	3798	33	7971	5	3437	16	6646	16	10100	3	5748	10
3	B H - 3443	4087	28	7637	8	4281	4	6573	19	9000	14	5963	2
4	CHH - 202	3783	35	5331	33	3382	17	5726	29	6876	31	4802	28
5	J H - 10362	4116	26	5208	34	3592	13	6061	26	8494	20	5135	23
6	J C - 1456	4890	15	7390	12	3228	24	6705	12	7900	25	5334	19
7	J C - 1459	5194	12	6403	22	3261	22	6261	22	7861	26	5310	20
8	H K H - 1200	5116	13	4298	40	2907	32	5392	33	6902	30	4652	32
9	L - 182	3646	38	4632	38	3155	28	4522	40	4967	40	3962	40
10	L - 134	3655	37	5477	32	3325	21	4952	36	6076	36	4142	39
11	A H - 23007	3567	40	4687	37	3252	23	4872	37	5974	37	4142	38
12	A H - 23071	3959	29	5639	30	4728	2	5525	32	6260	34	4716	30
13	A H - 24008	3910	30	6511	20	3821	11	5534	31	6542	32	4699	31
14	A H - 24020	4087	27	6080	24	3492	14	5376	34	6457	33	4627	33
15	B I O - 22069	4689	17	9174	3	3333	20	7596	1	10038	4	6074	1
16	B I O - 22045	5606	7	7842	7	3992	9	6855	9	9233	13	5824	7
17	P M Z - 136	4336	24	7044	15	4031	8	6358	21	7713	27	5149	22
18	BISCO - 0101	5919	5	5528	31	2811	36	6226	23	8724	17	5078	26
19	BISCO - 0102	4851	16	7266	14	2702	39	6617	17	8394	22	5407	18
20	SEEDTEC - 663	5444	8	5680	29	3192	27	6743	11	9538	11	5786	9
21	SEEDTEC - 2437	5939	4	7365	13	3084	30	7003	4	8894	15	5611	16
22	V I P L - 1501	4680	18	5810	27	2904	33	5879	27	6197	35	4744	29
23	V I P L - 1503	4473	20	6758	18	2750	37	5727	28	7130	28	4561	34
24	A A M H - 831	6018	3	6746	19	3465	15	6783	10	9672	9	5709	12
25	A A M H - 574	4440	21	7598	9	4181	6	6683	15	8501	19	5419	17

TABLE NO. 3 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														
		VARA	R	RANC	R	AMBI	R	MEAN	ZN 3	R	KARI	R	ARBH	R	MAND	R
26	J K M H - 207	1650	29	2440	18	5972	12	3354	16	7510	22	8745	5	-	-	-
27	J K M H - 1512	1753	22	1808	37	5711	21	3091	31	6466	31	7366	21	9193	3	-
28	N E C H - 126	1689	28	2442	17	7307	2	3813	10	8531	11	9144	2	9513	1	-
29	N E C H - 127	2166	11	3651	3	6315	9	4044	1	8946	9	7632	19	7466	23	-
30	S S F - X 87	2390	6	1724	39	5233	30	3116	29	8061	13	6863	28	8130	14	-
31	S S F - X 88	2486	4	2774	8	6372	8	3877	5	9891	3	6201	35	8926	4	-
32	X - 2005	2477	5	2117	31	5881	15	3492	14	8936	10	8316	11	7778	19	-
33	X - 2003 A	2966	1	2692	11	5909	13	3856	7	10139	1	8347	10	7368	25	-
34	KAVERI - 2288	2249	10	1994	34	7276	3	3840	8	7745	18	6554	32	8386	9	-
35	N M H - 1034	1701	26	2499	16	5798	18	3333	18	6044	34	7127	25	6251	33	-
36	S M H - 3758	2615	3	2595	14	6245	10	3818	9	8384	12	8434	9	8518	8	-
37	MAHABEET - 1100	1982	15	2528	15	5451	25	3321	20	5721	37	6223	34	4284	39	-
38	MAHABEET - 1102	1510	33	2438	19	5905	14	3285	22	6125	33	7172	24	6365	31	-
CHECKS:																
39	NAVJOT	1194	40	2384	24	5194	32	2924	37	5550	38	6562	31	5698	35	-
40	KH 510	1787	19	2626	13	4905	38	3106	30	7630	19	7924	18	8589	6	-
	MEAN YIELD=	1886		2480		5756		3374		7598		7471		7252		-
	MEAN STAND	36		13		37		29		39		41		34		-
	C.D. AT 5% =	702		512		1329		848		1763		1936		1363		-
	C.V. %	18.40		12.71		16.49		-		16.58		18.51		11.27		-
	F (Prob)	.000		.000		.000		-		.000		.000		.000		-
	PLOT SIZE=	7.50		3.50		7.50		-		6.00		7.50		7.00		-
AGRONOMY DATA:																
	SOWING DATE(2003)	10-07		9-07		4-07		-		16-07		28-08		3-08		-
	HARVEST DATE(2003)	9-10		22-10		-		-		27-10		12-01		4-12		-
	IRRIGATION NOS	-		1		-		-		1		-		8		-
	FERTILIZER APPLIED	N 100		100		100		-		150		150		150		-
		P 60		60		60		-		60		75		75		-
		K 40		40		40		-		40		38		40		-

TABLE NO. 3 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
	VARA	R	RANC	R	AMBI	R	MEAN	R	KARI	R	ARBH	R	MAND	R
1 B H - 3298	1965	16	2755	9	5272	29	3331	19	9107	6	7968	17	7932	18
2 B H - 3299	1772	21	2428	21	5804	17	3335	17	9173	5	7329	22	8166	13
3 B H - 3443	2023	13	1959	35	7601	1	3861	6	9028	8	8023	16	6383	30
4 CHH - 202	1692	27	2662	12	5214	31	3189	26	7365	26	7391	20	7102	26
5 J H - 10362	1226	38	2433	20	5179	33	2946	35	7798	16	8098	15	7555	22-
6 J C - 1456	1510	34	2157	30	5550	23	3072	33	8009	14	8185	13	8525	7
7 J C - 1459	1322	37	3797	2	5003	37	3374	15	7406	24	7228	23	8073	16
8 H K H - 1200	1786	20	2220	29	5871	16	3292	21	6924	28	6135	36	6971	27
9 L - 182	1224	39	2010	33	5286	28	2840	39	5537	39	5089	40	5073	38
10 L - 134	1900	17	2079	32	5712	20	3230	25	5877	35	6111	37	5266	37
11 A H - 23007	1709	25	2238	27	4425	40	2790	40	5524	40	6568	30	5631	36
12 A H - 23071	2691	2	1579	40	5143	34	3138	28	6831	29	5569	39	6423	29
13 A H - 24008	2354	8	2879	6	5509	24	3581	12	6216	32	6467	33	6279	32
14 A H - 24020	1869	18	2314	26	4756	39	2980	34	5746	36	6944	27	5903	34
15 B I O - 22069	2123	12	2412	22	6384	7	3640	11	10021	2	9650	1	8711	5
16 B I O - 22045	1740	23	3839	1	6526	6	4035	3	7368	25	8934	3	7386	24
17 P M Z - 136	1511	32	1853	36	6126	11	3163	27	7629	20	6838	29	8269	11
18 BISCO - 0101	1517	31	2405	23	5347	27	3090	32	6934	27	8508	6	7658	21
19 BISCO - 0102	1462	35	2221	28	5056	35	2913	38	9080	7	8118	14	7683	20
20 SEEDTEC - 663	1731	24	3401	4	6592	4	3908	4	9275	4	8858	4	8011	17
21 SEEDTEC - 2437	1645	30	2376	25	5778	19	3266	23	7877	15	8463	7	9289	2
22 V I P L - 1501	2012	14	2706	10	5006	36	3241	24	7575	21	6049	38	8258	12
23 V I P L - 1503	1396	36	1737	38	5641	22	2925	36	6699	30	6953	26	6727	28
24 A A M H - 831	2356	7	3187	5	6578	5	4040	2	7746	17	8442	8	8281	10
25 A A M H - 574	2297	9	2857	7	5409	26	3521	13	7498	23	8304	12	8076	15

TABLE NO. 3

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 2	
		BAJA	R	DELH	R	LUDDH	R	KARN	R	KANP	R	MEAN	R
26	J K M H - 207	4940	8	4162	38	3347	38	4306	21	3572	38	3847	39
27	J K M H - 1512	4390	13	4924	31	5009	17	2654	39	4747	7	4333	29
28	N E C H - 126	4936	9	5584	14	5117	15	3291	36	5359	3	4838	17
29	N E C H - 127	4330	15	5360	16	4747	21	5175	10	4198	19	4870	14
30	S S F - X 87	5195	4	5069	26	5662	7	5946	4	2781	40	4864	15
31	S S F - X 88	3965	21	7214	1	5599	8	5410	7	3848	27	5518	2
32	X - 2005	5551	1	6103	4	6786	3	4803	12	3747	31	5360	6
33	X - 2003 A	3292	30	6400	3	5822	5	5770	5	3690	34	5421	4
34	KAVERI - 2288	4951	7	5931	8	5153	13	4299	22	3930	25	4828	18
35	N M H - 1034	2709	35	5844	10	4826	19	4420	17	4503	9	4898	12
36	S M H - 3758	5453	2	5175	24	4262	30	7089	1	4100	23	5156	8
37	MAHABEJ - 1100	2011	40	4754	33	3345	39	3402	32	5149	5	4163	33
38	MAHABEJ - 1102	2409	39	5251	21	3907	34	3050	38	4342	14	4137	34
CHECKS:													
39	NAVJOT	2810	32	4980	30	4405	26	4339	19	3653	36	4344	28
40	KH 510	4270	16	4693	34	4058	32	3429	31	5352	4	4383	27
	MEAN YIELD=	3930		5313		4827		4328		4220		4672	
	MEAN STAND	33		37		26		20		34		29	
	C.D. AT 5% =	730		1509		1211		240		824		946	
	C.V. % =	11.43		17.48		17.92		2.74		12.01		-	
	F (Prob)	.000		.000		.000		.000		.000		-	
	PLOT SIZE=	4.80		7.50		3.90		5.60		5.40		-	
AGRONOMY DATA:													
	SOWING DATE(2003)	2-07		8-07		14-07		5-07		22-07		-	
	HARVEST DATE(2003)	30-10		17-10		21-10		10-10		17-10		-	
	IRRIGATION Nos	3		-		3		4		-		-	
	FERTILIZER APPLIED	N 120		120		125		150		120		-	
		P 60		80		60		60		60		-	
		K 40		40		30		-		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (l.e.> 20%) : UMIA 22.9% : DHOL 24.0% :
 KUSH 32.4% : NAGA 20.5% : GODH 39.6%

TABLE NO. 3

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BAJAJURA, DELHI, LUDHIANA, KARNAL, KANPUR, VARANASI, RANCHI, AMBIKAPUR, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOHLAPUR, AKOLA, CHHINDIWARA IN IET, TRIAL NO. TR62 DURING KHARIF (2003).

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 2	
		BAJA		DELH		LUDH		KARN		KANP		MEAN	R
1	B H - 3298	4439	11	5797	11	5095	16	5946	3	4727	8	5391	5
2	B H - 3299	4998	5	5872	9	7037	1	4060	23	4282	18	5312	7
3	B H - 3443	5447	3	6737	2	6835	2	5410	6	4990	6	5993	1
4	CHH - 202	4171	17	5188	22	4790	20	3393	33	3692	33	4266	31
5	J H - 10362	3919	23	5954	7	5686	6	3920	25	3845	28	4851	16
6	J C - 1456	4358	14	5302	19	5464	10	4313	20	3223	39	4576	22
7	J C - 1459	4403	12	5186	23	5459	11	4639	13	4409	12	4923	11
8	H K H - 1200	3632	25	5290	20	3865	35	3687	27	4182	21	4256	32
9	L - 182	3400	29	4043	39	3669	36	2258	40	5443	2	3853	37
10	L - 134	2667	37	3560	40	3335	40	3291	35	3797	29	3496	40
11	A H - 23007	2575	38	4550	36	4303	28	3367	34	3758	30	3995	36
12	A H - 23071	3964	22	5354	17	4743	22	3666	28	4184	20	4487	25
13	A H - 24008	2683	36	4998	29	3926	33	4052	24	4331	16	4327	30
14	A H - 24020	4043	20	5489	15	4404	27	3434	30	4384	13	4428	26
15	B I O - 22069	4158	19	6075	5	5499	9	4524	14	4324	17	5105	9
16	B I O - 22045	4895	10	4999	28	4430	25	6403	2	4168	22	5000	10
17	P M Z - 136	3473	28	5314	18	4266	29	4381	18	4454	10	4604	21
18	BISCO - 0101	2752	33	5785	12	5140	14	3555	29	3588	37	4517	24
19	BISCO - 0102	4969	6	5162	25	4904	18	5311	8	3924	26	4825	19
20	SEEDTEC - 663	3106	31	5618	13	5925	4	4486	16	5937	1	5492	3
21	SEEDTEC - 2437	4160	18	4684	35	5282	12	5260	9	4071	24	4824	20
22	V I P L - 1501	3554	27	4864	32	4111	31	3775	26	3653	35	4101	35
23	V I P L - 1503	2742	34	4191	37	3495	37	3275	37	4447	11	3852	38
24	A A M H - 831	3613	26	6045	6	4651	24	4502	15	4332	15	4883	13
25	A A M H - 574	3865	24	5013	27	4720	23	4830	11	3698	32	4565	23

STAND AT HARVEST

SI NO	PEDIGREE	BAJA	LUDH	KARN	KANP	VARA	AMBI	HYDE	KARI	BANG POCB	BANG PROA	MAND	COIM	JAIN MAHY
1	FILLER	29	27	26	33	37	35	40	38	34	32	37	28	39
2	BH	30	21	18	34	40	34	38	39	33	34	27	22	40
3	BH	32	28	25	30	38	33	40	40	35	34	41	27	38
4	BH	30	29	23	36	38	33	41	40	35	34	41	27	38
5	BH	34	22	21	36	37	31	42	40	34	34	41	27	38
6	BH	28	28	27	36	38	31	41	40	34	34	41	27	38
7	BH	30	28	27	36	38	31	42	40	34	34	41	27	38
8	BH	24	23	25	31	35	32	42	41	35	34	41	27	38
9	BH	25	26	26	31	39	31	42	41	35	34	41	27	38
10	BH	28	25	27	35	37	31	42	41	35	34	41	27	38
11	BH	26	25	27	35	37	31	42	41	35	34	41	27	38
12	BH	27	26	27	35	37	31	42	41	35	34	41	27	38
13	BH	24	23	25	31	35	32	42	41	35	34	41	27	38
14	BH	22	22	23	30	37	30	43	41	35	34	41	27	38
15	BH	33	29	26	37	44	36	44	41	35	34	41	27	38
16	BH	34	30	27	38	45	37	44	41	35	34	41	27	38
17	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
18	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
19	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
20	BH	30	25	22	32	39	32	41	41	35	34	41	27	38
21	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
22	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
23	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
24	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
25	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
26	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
27	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
28	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
29	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
30	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
31	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
32	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
33	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
34	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
35	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
36	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
37	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
38	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
39	BH	32	27	24	34	41	34	41	41	35	34	41	27	38
40	BH	36	29	28	40	46	38	44	41	35	34	41	27	38
	MEAN LOCATION	3.29	2.25	2.28	3.32	3.36	3.33	3.41	3.37	3.36	3.34	3.41	2.29	3.37
	C.V. AT 5%	4.5	5.4	5.2	3.3	3.8	3.3	4.1	3.9	3.7	3.7	4.1	2.9	3.7
	F. (Prob)	.000	.000	.000	.000	.178	.000	.000	.000	.000	.000	.000	.000	.000

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

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	LUDH	VARA	AMBI	HYDE	KARI	BANG POCB	BANG PROA	COIM	TAIN MAHY	H.turc. H.may.	
											BAJA	BAJA
1	PILLER	0.3	0.89	1.02	1.01	1.00	1.11	1.11	1.11	0.98	1.5	1.5
2	BH	0.98	0.88	1.03	1.02	0.96	1.90	1.01	1.00	0.97	1.5	1.5
3	BH	0.00	0.87	1.05	1.01	0.99	0.87	0.93	1.00	0.98	1.5	1.5
4	BH	0.94	0.85	1.04	1.04	0.93	0.79	1.04	1.00	0.98	1.5	1.5
5	BH	0.89	0.88	1.02	1.03	0.94	0.65	1.04	1.00	0.94	1.5	1.5
6	BH	0.96	0.92	1.02	1.02	0.99	0.74	1.09	1.00	0.95	1.5	1.5
7	BH	0.95	0.86	1.04	1.03	0.99	0.98	1.08	1.00	0.95	1.5	1.5
8	BH	0.97	0.87	1.04	1.04	0.93	0.91	1.05	1.00	0.97	1.5	1.5
9	BH	0.92	0.89	1.03	1.03	0.90	0.93	1.03	1.00	0.95	1.5	1.5
10	BH	0.98	0.90	1.05	1.05	0.93	0.98	1.07	1.00	0.97	1.5	1.5
11	BH	0.98	0.94	1.03	1.03	0.90	0.99	1.09	1.00	0.95	1.5	1.5
12	BH	0.97	0.90	1.04	1.04	0.93	0.93	1.03	1.00	0.97	1.5	1.5
13	DMRFG	0.93	0.94	1.05	1.05	0.90	0.98	1.09	1.00	0.97	1.5	1.5
14	DMRFG	0.94	0.88	1.04	1.04	0.97	0.97	1.07	1.00	0.95	1.5	1.5
15	DMRFG	0.98	0.94	1.13	1.13	0.91	0.96	1.05	1.00	0.94	1.5	1.5
16	AH	0.95	0.94	1.02	1.02	0.94	0.93	1.04	1.00	0.96	1.5	1.5
17	AH	0.01	0.88	1.01	1.01	0.91	0.96	1.05	1.00	0.94	1.5	1.5
18	PH	0.03	0.87	1.03	1.03	0.93	0.93	1.04	1.00	0.96	1.5	1.5
19	PH	0.05	0.89	1.06	1.06	0.92	0.93	1.05	1.00	0.96	1.5	1.5
20	BISCO	1.00	0.89	1.00	1.00	0.92	0.93	1.04	1.00	0.96	1.5	1.5
21	SEDT	0.04	0.86	1.16	1.16	0.86	0.93	1.10	1.00	0.96	1.5	1.5
22	SEDT	0.00	0.84	1.13	1.13	0.86	0.93	1.10	1.00	0.96	1.5	1.5
23	VA	1.00	0.84	1.16	1.16	0.86	0.93	1.10	1.00	0.96	1.5	1.5
24	AX	0.97	0.84	1.13	1.13	0.86	0.93	1.10	1.00	0.96	1.5	1.5
25	JM	0.97	0.85	1.14	1.14	0.88	0.97	1.18	1.00	0.96	1.5	1.5
26	NC	0.88	0.85	1.13	1.13	0.88	0.97	1.18	1.00	0.96	1.5	1.5
27	MS	0.97	0.81	1.03	1.03	0.90	0.99	1.08	1.00	0.94	1.5	1.5
28	XS	0.99	0.91	1.06	1.06	0.91	0.99	1.11	1.00	0.97	1.5	1.5
29	XN	0.96	0.87	1.04	1.04	0.90	0.92	1.08	1.00	0.93	1.5	1.5
30	GN	0.01	0.79	1.03	1.03	0.91	0.92	1.02	1.00	0.95	1.5	1.5
31	GM	1.01	0.79	1.06	1.06	0.91	0.92	1.11	1.00	0.97	1.5	1.5
32	MC	0.98	0.86	1.24	1.24	0.94	1.05	1.19	1.00	0.95	1.5	1.5
33	MC	0.97	0.85	1.13	1.13	0.90	0.99	1.08	1.00	0.94	1.5	1.5
34	MC	0.91	0.84	1.13	1.13	0.94	1.05	1.19	1.00	0.95	1.5	1.5
35	GP	1.00	0.92	1.10	1.10	0.91	0.92	1.02	1.00	0.95	1.5	1.5
CHECKS:												
36	BIO	0.94	0.80	1.16	1.16	0.92	1.05	1.20	1.00	0.96	1.5	1.5
37	PARBHAT	0.96	0.84	1.09	1.09	0.93	0.94	1.11	1.00	0.95	1.5	1.5
38	GANGA	1.09	0.83	1.07	1.07	0.94	0.95	1.12	1.00	0.93	1.5	1.5
39	SEDT	0.94	0.90	1.10	1.10	0.95	0.96	1.12	1.00	0.93	1.5	1.5
40	PRO	1.00	0.90	1.08	1.08	0.95	1.01	1.11	1.00	0.93	1.5	1.5
MEAN LOCATION												
C.D. AT 5% =												
F. (Prob) =												
14.22												
0.12												
8.0												
0.30												

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	VARA	AMBI	EAR HEIGHT (cm)	ZN 3 MEAN	HYDE	KARI	BANG POCB	BANG PROA	MAND	COIM	JAIN MARY	ZN 4 MEAN	OV'L MEAN
1	FILLER	78	75	76	59	93	81	93	73	90	81	84		
2	BH	70	72	71	63	100	79	96	79	96	81	81		
3	BH	78	68	73	67	90	81	92	80	98	83	87		
4	BH	73	76	74	73	100	87	100	76	109	80	87		
5	BH	90	77	84	73	110	99	108	69	113	76	95		
6	BH	88	85	86	68	90	84	87	87	118	71	100		
7	BH	90	61	69	64	90	101	88	71	90	65	93		
8	BH	80	72	81	53	93	80	87	67	99	86	88		
9	BH	73	22	22	65	103	92	96	66	104	74	104		
10	BH	80	91	82	33	93	101	89	72	123	86	99		
11	BH	75	90	77	79	113	116	108	70	113	74	123		
12	BH	80	92	83	63	93	92	96	64	103	72	104		
13	BH	75	90	79	55	123	116	110	64	113	70	113		
14	BH	80	79	84	43	90	85	102	68	110	69	110		
15	BH	95	80	84	70	120	97	101	85	110	74	114		
16	BH	80	88	84	55	107	90	102	69	114	85	103		
17	BH	80	80	84	70	107	97	101	76	109	86	103		
18	BH	80	80	84	52	123	80	95	66	109	76	114		
19	BH	80	80	84	70	107	97	101	76	109	86	103		
20	BH	80	80	84	52	123	80	95	66	109	76	114		
21	BH	80	80	84	70	107	97	101	76	109	86	103		
22	BH	80	80	84	52	123	80	95	66	109	76	114		
23	BH	80	80	84	70	107	97	101	76	109	86	103		
24	BH	80	80	84	52	123	80	95	66	109	76	114		
25	BH	80	80	84	70	107	97	101	76	109	86	103		
26	BH	80	80	84	52	123	80	95	66	109	76	114		
27	BH	80	80	84	70	107	97	101	76	109	86	103		
28	BH	80	80	84	52	123	80	95	66	109	76	114		
29	BH	80	80	84	70	107	97	101	76	109	86	103		
30	BH	80	80	84	52	123	80	95	66	109	76	114		
31	BH	80	80	84	70	107	97	101	76	109	86	103		
32	BH	80	80	84	52	123	80	95	66	109	76	114		
33	BH	80	80	84	70	107	97	101	76	109	86	103		
34	BH	80	80	84	52	123	80	95	66	109	76	114		
35	BH	80	80	84	70	107	97	101	76	109	86	103		
36	BH	80	80	84	52	123	80	95	66	109	76	114		
37	BH	80	80	84	70	107	97	101	76	109	86	103		
38	BH	80	80	84	52	123	80	95	66	109	76	114		
39	BH	80	80	84	70	107	97	101	76	109	86	103		
40	BH	80	80	84	52	123	80	95	66	109	76	114		

C.V. AT 5% =
C.D. LOCATION
PRO - 311
SEEDTEC - 2324
GANGA - 11
PARBHAT - 11
BIO - 9681
CHECKS: 2009

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)		COIM	JAIN MAHY	ZN 4 MEAN	OV'L MEAN	EAR HEIGHT (cm)		KARN	KAMP	ZN 2 MEAN
		BANG PROA	MAND					BAJA	LU DH			
1	FILLER	216	205	165	194	190	190	70	86	135	81	101
2	H H -	205	202	145	185	178	180	87	76	110	75	87
3	H H -	233	214	170	236	202	208	85	84	130	108	107
4	H H -	234	231	165	221	208	204	87	89	125	107	107
5	H H -	254	224	168	225	210	215	102	99	128	110	112
6	H H -	253	217	168	225	210	213	98	96	130	122	116
7	H H -	214	199	144	196	185	187	91	81	115	92	97
8	H H -	204	208	143	175	164	165	115	78	90	67	89
9	H H -	222	203	161	206	190	190	87	74	130	92	73
10	H H -	223	218	154	221	204	203	84	77	135	108	101
11	H H -	221	211	153	225	201	207	92	83	135	102	110
12	H H -	223	211	153	221	197	197	109	91	130	100	110
13	DMRFG	246	228	147	204	186	186	104	89	103	90	93
14	DMRFG	254	228	156	201	184	186	107	91	100	83	88
15	M C H -	229	210	145	215	196	194	90	86	100	90	90
16	A H -	222	215	156	215	199	198	90	89	115	62	90
17	V P R O Z	230	215	170	215	189	187	91	96	108	62	102
18	P R M N	222	202	150	194	189	188	90	85	115	96	96
19	P M N	231	209	155	188	178	184	105	85	105	98	102
20	BISCO	231	199	155	194	178	184	93	95	123	107	108
21	SEDTTEC	221	207	144	184	183	187	99	94	98	107	108
22	V A I M H	221	198	157	184	183	185	93	85	98	102	105
23	A X J K E C H	223	207	157	204	175	180	97	93	120	102	96
24	X K E C H	223	209	158	188	183	185	92	89	115	88	96
25	J K E C H	220	215	164	215	192	190	89	88	115	88	92
26	M S	224	214	178	201	187	199	93	89	115	90	95
27	M S	224	214	178	201	187	199	93	89	115	90	95
28	S X N S	229	210	165	198	193	202	86	86	110	90	95
29	G K	232	212	174	201	196	201	97	93	120	90	95
30	G M H	232	212	165	198	193	199	86	80	105	72	86
31	M C H	234	212	154	206	193	191	87	90	110	72	86
32	M C H	232	212	165	206	193	191	87	90	110	72	86
33	M C H	234	212	154	206	193	191	87	90	110	72	86
34	G F	198	196	154	188	169	176	88	88	113	81	95
35	G F	236	212	172	199	192	193	93	93	110	81	95
CHECKS:												
36	BIO	254	209	162	218	193	192	75	78	93	68	79
37	PARBHAT	248	214	164	200	196	195	104	101	100	85	95
38	GANGA	219	207	173	229	191	194	95	86	95	83	88
39	SEDTTEC	230	197	156	190	177	179	87	81	98	83	87
40	PRO	220	210	161	208	189	194	102	93	125	114	110
	MEAN LOCATION	230	210	161	207	191	193	91	87	114	88	110
	C.D. AT 5% =	17.6	15.7	6.2	18.1	15.7	19.3	23.6	10.6	15.6	9.0	11.7
	F (Prob)	.000	.000	.000	.000	-	-	.056	.000	.000	.000	-

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)			KARN	KAMP	ZN 2 MEAN	VARA	AMBI	ZN 3 MEAN	HYDE	KARI	BANG POCS
		ZN 1 BAJA	LUDH	KARN									
1	FILLER	157	179	225	171	192	188	218	203	173	149	230	
2	BH	179	161	200	151	171	220	205	203	133	148	227	
3	BH	185	199	245	220	220	195	221	215	160	166	233	
4	BH	187	195	245	182	207	223	221	215	135	177	250	
5	BH	204	205	233	224	221	223	245	234	163	181	233	
6	BH	189	177	240	188	188	229	221	220	178	160	207	
7	BH	198	177	205	195	219	225	215	203	135	173	230	
8	BH	212	176	205	188	188	225	218	180	145	135	230	
9	BH	173	149	163	149	154	182	214	194	145	154	230	
10	BH	182	183	220	191	190	206	232	211	150	149	233	
11	BH	174	186	220	207	206	223	226	224	145	181	233	
12	BH	196	196	225	199	207	243	234	209	180	161	233	
13	DMRFG	196	180	225	199	207	243	234	209	180	161	233	
14	DMRFG	177	191	225	199	207	243	234	209	180	161	233	
15	MCH	170	178	185	174	183	213	226	219	143	156	237	
16	AH	162	190	205	146	180	222	226	219	143	156	237	
17	VPR	185	193	222	199	207	243	234	209	180	161	233	
18	PR	187	175	205	184	188	222	226	219	143	156	237	
19	P	185	175	205	184	188	222	226	219	143	156	237	
20	BISCO	187	175	205	184	188	222	226	219	143	156	237	
21	V	188	181	195	178	186	222	226	219	143	156	237	
22	SEDT	167	177	205	184	188	222	226	219	143	156	237	
23	A	172	170	205	184	188	222	226	219	143	156	237	
24	X	182	183	210	194	196	220	214	200	199	166	230	
25	J	158	174	205	185	192	206	224	206	200	175	230	
26	K	187	171	205	185	192	206	224	206	200	175	230	
27	M	182	181	205	185	192	206	224	206	200	175	230	
28	S	187	181	205	185	192	206	224	206	200	175	230	
29	X	172	190	225	208	208	221	213	203	140	152	243	
30	N	183	185	225	208	208	221	213	203	140	152	243	
31	G	186	181	225	208	208	221	213	203	140	152	243	
32	M	183	185	225	208	208	221	213	203	140	152	243	
33	C	175	179	215	171	187	219	217	201	140	154	240	
34	H	173	175	215	171	187	219	217	201	140	154	240	
35	G	195	190	200	168	166	225	225	206	128	164	233	
CHECKS:													
36	BIO	173	186	200	169	185	193	230	211	125	146	237	
37	PARBHAT	201	196	188	166	183	193	220	206	140	160	243	
38	GANGA	191	186	185	173	182	190	227	224	128	155	223	
39	SEDT	163	165	185	173	182	190	227	224	128	155	223	
40	PRO	195	181	205	183	174	200	211	201	148	141	237	
	MEAN LOCATION	182	182	208	180	196	197	218	208	144	156	230	
	C.D. AT 5% =	29.9	12.5	17.4	15.0	15.0	26.3	19.8	23.0	9.5	15.3	27.4	
	F (Prob)	10.64	4.00	4.1	5.1	-	8.00	6.00	-	4.00	7.00	7.3	

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	UNIFORMITY *			HYDE	KARI	BANG	MAND	COIM	OV'L	
		ZN 1 HAJA	ZN 2 KANP	ZN 3 VARA						MEAN	MEAN
1	FILLER	3297	2	2	2	3	0	0	2	3	2
2	H	3301	2	2	2	3	0	0	2	3	2
3	H	3307	2	2	2	3	0	0	2	3	2
4	H	3313	2	2	2	3	0	0	2	3	2
5	H	3316	2	2	2	3	0	0	2	3	2
6	H	3433	2	2	2	3	0	0	2	3	2
7	H	1129	2	2	2	3	0	0	2	3	2
8	H	1201	2	2	2	3	0	0	2	3	2
9	H	1217	2	2	2	3	0	0	2	3	2
10	H	1058	2	2	2	3	0	0	2	3	2
11	H	1441	2	2	2	3	0	0	2	3	2
12	J C	1423	2	2	2	3	0	0	2	3	2
13	J C	26	2	2	2	3	0	0	2	3	2
14	DMRFG	23	2	2	2	3	0	0	2	3	2
15	M C	03	2	2	2	3	0	0	2	3	2
16	A H	2304	2	2	2	3	0	0	2	3	2
17	V P	101	2	2	2	3	0	0	2	3	2
18	P R	360	2	2	2	3	0	0	2	3	2
19	P M	235	2	2	2	3	0	0	2	3	2
20	V I	715	2	2	2	3	0	0	2	3	2
21	SEDTREC	662	2	2	2	3	0	0	2	3	2
22	A 1	1806	2	2	2	3	0	0	2	3	2
23	X 1	475	2	2	2	3	0	0	2	3	2
24	J M	370-2	2	2	2	3	0	0	2	3	2
25	K M	124	2	2	2	3	0	0	2	3	2
26	E C	11	2	2	2	3	0	0	2	3	2
27	S C	11	2	2	2	3	0	0	2	3	2
28	M S	X	2	2	2	3	0	0	2	3	2
29	X M	2004	2	2	2	3	0	0	2	3	2
30	N M	1033	2	2	2	3	0	0	2	3	2
31	G K	3050	2	2	2	3	0	0	2	3	2
32	M K	0327	2	2	2	3	0	0	2	3	2
33	C H	13	2	2	2	3	0	0	2	3	2
34	G F	2007	2	2	2	3	0	0	2	3	2
35	F	2009	2	2	2	3	0	0	2	3	2
CHECKS:											
36	BIO	9681	2	2	2	3	0	0	2	3	2
37	PARBHAT		2	2	2	3	0	0	2	3	2
38	GANGA	11	2	2	2	3	0	0	2	3	2
39	SEDTREC	2324	2	2	2	3	0	0	2	3	2
40	PRO	311	2	2	2	3	0	0	2	3	2
	MEAN	LOCATION									
	C.D.	AT	5%								
	F	(Prob)	=								
			12.3	13.8	16.1	11.7	27.4	21.8	23.1	6.0	
			.004	.000	.000	.027	.000	.000	.023	.000	

TABLE NO. 2 (CONT.)

S1 No	PEDIGREE	HUSK COVER *			HYDE	KARI	MAND	COIM	ZN	
		ZN 1 BAJA	ZN 2 KANP	ZN 3 VARA					MEAN	OV'L MEAN
1	FILLER	3297	37	88	55	1	1	0	1	2
2	BH	3301	27	55	38	3	3	0	2	4
3	BH	3307	33	70	45	3	2	0	2	4
4	BH	3313	33	00	55	3	3	0	2	4
5	BH	3316	34	00	55	3	3	0	2	4
6	BH	3439	37	00	55	3	3	0	2	4
7	BH	1129	37	00	55	3	3	0	2	4
8	BH	1201	37	00	55	3	3	0	2	4
9	BH	1217	37	00	55	3	3	0	2	4
10	BH	10589	37	00	55	3	3	0	2	4
11	HK	1441	37	00	55	3	3	0	2	4
12	HK	1441	37	00	55	3	3	0	2	4
13	HK	1441	37	00	55	3	3	0	2	4
14	HK	1441	37	00	55	3	3	0	2	4
15	HK	1441	37	00	55	3	3	0	2	4
16	HK	1441	37	00	55	3	3	0	2	4
17	HK	1441	37	00	55	3	3	0	2	4
18	HK	1441	37	00	55	3	3	0	2	4
19	HK	1441	37	00	55	3	3	0	2	4
20	HK	1441	37	00	55	3	3	0	2	4
21	HK	1441	37	00	55	3	3	0	2	4
22	HK	1441	37	00	55	3	3	0	2	4
23	HK	1441	37	00	55	3	3	0	2	4
24	HK	1441	37	00	55	3	3	0	2	4
25	HK	1441	37	00	55	3	3	0	2	4
26	HK	1441	37	00	55	3	3	0	2	4
27	HK	1441	37	00	55	3	3	0	2	4
28	HK	1441	37	00	55	3	3	0	2	4
29	HK	1441	37	00	55	3	3	0	2	4
30	HK	1441	37	00	55	3	3	0	2	4
31	HK	1441	37	00	55	3	3	0	2	4
32	HK	1441	37	00	55	3	3	0	2	4
33	HK	1441	37	00	55	3	3	0	2	4
34	HK	1441	37	00	55	3	3	0	2	4
35	HK	1441	37	00	55	3	3	0	2	4
36	HK	1441	37	00	55	3	3	0	2	4
37	HK	1441	37	00	55	3	3	0	2	4
38	HK	1441	37	00	55	3	3	0	2	4
39	HK	1441	37	00	55	3	3	0	2	4
40	HK	1441	37	00	55	3	3	0	2	4
	MEAN LOCATION									
	C.V. AT 5% =	11.7	12.7	13.4	11.7	28.4	22.9	3.5	1.9	2.3
	F. (Prob)	.002	.000	.000	.051	.013	.588	.000	.125	.003

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *			HYDE	KARI	BANG	MAND	COIM	ZN	
		ZN 1 BAJA	ZN 2 KAMP	ZN 3 VARA						MEAN	OV'T MEAN
1	FILLER	5.3	5.7	5.0	5.4	2.1	0.0	1.3	0.0	2.2	1.1
2	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
3	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
4	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
5	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
6	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
7	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
8	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
9	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
10	B H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
11	J H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
12	J H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
13	C H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
14	C H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
15	M C	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
16	A H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
17	V P	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
18	P M	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
19	P M	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
20	BISCO	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
21	SEEDTEC	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
22	V I	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
23	A I	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
24	X A	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
25	J K	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
26	N M	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
27	S C	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
28	S C	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
29	X N	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
30	M H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
31	G K	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
32	M H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
33	C H	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
34	G F	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
35	G F	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
36	BIO	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
37	PARBHAT	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
38	GANGA	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
39	SEEDTEC	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
40	PRO	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
	MEAN LOCATION	5.5	5.0	5.0	5.6	2.1	0.0	1.3	0.0	2.2	1.1
	C.D. AT 5%	0.7	0.5	0.5	0.4	0.9	0.2	0.3	0.3	0.2	0.3
	C.V. (%)	13.0	10.5	12.2	9.0	36.7	19.2	18.2	3.0	1.5	3.6
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *				HYDE	KARI	BANG	MAND	COIM	ZN 4 MEAN	OV/L MEAN
		ZN 1 BATA	ZN 2 KAMP	ZN 3 VARA	ZN 4							
1	FILLER	3297	3	3	0	5	5	7	1	0	0	2
2	H	3301	2	2	0	5	2	0	1	0	2	4
3	H	3307	2	2	0	5	2	0	1	0	2	4
4	H	3313	2	2	0	5	2	0	1	0	2	4
5	H	3316	2	2	0	5	2	0	1	0	2	4
6	H	3439	2	2	0	5	2	0	1	0	2	4
7	H	1129	2	2	0	5	2	0	1	0	2	4
8	H	1201	2	2	0	5	2	0	1	0	2	4
9	H	1217	2	2	0	5	2	0	1	0	2	4
10	H	10589	2	2	0	5	2	0	1	0	2	4
11	H	1441	2	2	0	5	2	0	1	0	2	4
12	J	1441	2	2	0	5	2	0	1	0	2	4
13	DMREG	23	2	2	0	5	2	0	1	0	2	4
14	DMREG	26	2	2	0	5	2	0	1	0	2	4
15	M	03-1	2	2	0	5	2	0	1	0	2	4
16	A	2304	2	2	0	5	2	0	1	0	2	4
17	V	3101	2	2	0	5	2	0	1	0	2	4
18	P	360	2	2	0	5	2	0	1	0	2	4
19	P	235	2	2	0	5	2	0	1	0	2	4
20	BISCO	715	2	2	0	5	2	0	1	0	2	4
21	SEEDTEC	662	2	2	0	5	2	0	1	0	2	4
22	V	1806	2	2	0	5	2	0	1	0	2	4
23	A	475	2	2	0	5	2	0	1	0	2	4
24	X	1282	2	2	0	5	2	0	1	0	2	4
25	J	370-2	2	2	0	5	2	0	1	0	2	4
26	N	124	2	2	0	5	2	0	1	0	2	4
27	M	11	2	2	0	5	2	0	1	0	2	4
28	S	11	2	2	0	5	2	0	1	0	2	4
29	X	2002	2	2	0	5	2	0	1	0	2	4
30	N	2004	2	2	0	5	2	0	1	0	2	4
31	G	3050	2	2	0	5	2	0	1	0	2	4
32	M	1033	2	2	0	5	2	0	1	0	2	4
33	C	0327	2	2	0	5	2	0	1	0	2	4
34	F	2007	2	2	0	5	2	0	1	0	2	4
35	G	2009	2	2	0	5	2	0	1	0	2	4
36	BIO	9681	2	2	0	5	2	0	1	0	2	4
37	PARBHAT		2	2	0	5	2	0	1	0	2	4
38	GANGA	11	2	2	0	5	2	0	1	0	2	4
39	SEEDTEC	2324	2	2	0	5	2	0	1	0	2	4
40	PRO	311	2	2	0	5	2	0	1	0	2	4
	MEAN LOCATION		2	2	0	5	2	0	1	0	2	4
	C.D. AT 5%		2	2	0	5	2	0	1	0	2	4
	C.V. %		2	2	0	5	2	0	1	0	2	4
	F. (Prob)		2	2	0	5	2	0	1	0	2	4

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK					ZIN MEAN	ZIN MEAN
		BAJA	LU DH	KARN	KANP	KANP		
1	B H	109.0	92.5	84.5	80.7	85.9	87.9	
2	B H	109.3	92.0	83.1	80.7	84.8	87.6	
3	B H	107.7	85.3	81.5	75.7	84.0	86.9	
4	CHH	106.7	85.3	81.5	78.7	82.5	86.7	
5	J J	107.7	86.3	84.5	80.7	83.8	88.1	
6	J J	109.3	87.5	85.0	80.3	83.9	89.5	
7	J J	106.7	82.0	81.0	79.3	80.9	85.7	
8	H	107.0	84.0	82.0	78.0	81.4	85.6	
9	L L	107.7	84.5	84.0	76.7	81.1	85.1	
10	L L	107.3	84.3	84.0	76.7	81.5	85.0	
11	A H	106.3	84.3	82.0	76.7	81.8	85.5	
12	A H	107.3	84.3	82.0	76.7	81.8	85.5	
13	A H	106.3	84.3	82.0	76.7	81.8	85.5	
14	A H	108.7	84.3	82.0	78.0	81.1	84.7	
15	A H	107.3	84.3	82.0	76.7	81.8	85.5	
16	B B	107.3	84.3	82.0	76.7	81.8	85.5	
17	B B	106.7	84.3	82.0	76.7	81.8	85.5	
18	B B	107.7	84.3	82.0	76.7	81.8	85.5	
19	B B	109.7	84.3	82.0	76.7	81.8	85.5	
20	B B	110.0	84.3	82.0	76.7	81.8	85.5	
21	SEEDTEC	110.7	84.3	82.0	76.7	81.8	85.5	
22	P L	107.7	84.3	82.0	76.7	81.8	85.5	
23	P L	107.7	84.3	82.0	76.7	81.8	85.5	
24	M H	107.7	84.3	82.0	76.7	81.8	85.5	
25	M H	107.7	84.3	82.0	76.7	81.8	85.5	
26	M H	107.7	84.3	82.0	76.7	81.8	85.5	
27	M H	107.7	84.3	82.0	76.7	81.8	85.5	
28	N S	107.7	84.3	82.0	76.7	81.8	85.5	
29	N S	107.7	84.3	82.0	76.7	81.8	85.5	
30	N S	107.7	84.3	82.0	76.7	81.8	85.5	
31	X X	108.7	84.3	82.0	76.7	81.8	85.5	
32	X X	107.7	84.3	82.0	76.7	81.8	85.5	
33	X X	106.7	84.3	82.0	76.7	81.8	85.5	
34	KAVERI	107.7	84.3	82.0	76.7	81.8	85.5	
35	N M H	110.0	84.3	82.0	76.7	81.8	85.5	
36	M H	110.0	84.3	82.0	76.7	81.8	85.5	
37	MAHABEJU	110.0	84.3	82.0	76.7	81.8	85.5	
38	MAHABEJU	110.0	84.3	82.0	76.7	81.8	85.5	
39	CHECKS:							
40	NAVJOT	106.7	82.0	82.0	79.0	81.2	84.9	
	KH 510	107.3	82.8	79.5	75.7	79.3	86.4	
	MEAN LOCATION	107.7	85.7	81.5	78.6	82.1	86.3	
	C.D. AT 5% =	2.0	1.7	1.9	1.5	1.7	2.7	
	C.V. %	1.2	1.0	1.0	1.0	1.0	1.0	
	F (Prob)	.000	.000	.000	.000	.000	.000	

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK							MOISTURE % AT HARVEST				OV'L MEAN	
		KARI	MAND	COIM	KOLH	AKOL	ZN 4 MEAN	ZN 5 CHHI	ZN 1 BAJA	LUDH	KANP	ZN 2 MEAN		
1	B	84	91	96	92	95	98	95	98	91	25	24	17	21
2	B	4	1	8	0	5	0	0	1	0	5	4	6	0
3	B	1	0	6	3	5	3	7	0	5	2	3	7	2
4	CH	2	1	5	0	8	5	3	3	0	7	5	3	0
5	J	4	3	5	0	5	0	0	0	0	7	0	0	1
6	J	4	2	6	0	3	0	7	0	0	2	2	0	2
7	J	4	0	5	0	5	0	7	0	0	4	2	0	0
8	J	4	0	5	0	3	0	3	0	0	2	2	0	0
9	H	182	89	96	87	85	88	89	88	88	2	3	7	2
10	L	134	0	6	7	8	8	7	6	0	5	2	3	0
11	L	23007	89	0	8	5	8	9	8	8	2	3	7	2
12	A	23071	1	3	0	5	0	7	8	8	2	3	7	2
13	A	24008	1	0	6	0	3	3	4	3	4	4	7	5
14	A	24020	1	0	3	8	3	0	7	8	2	3	7	2
15	A	22045	1	0	3	8	3	0	7	8	2	3	7	2
16	B	136	1	0	7	3	8	9	9	9	2	5	3	0
17	B	0102	1	0	7	3	8	9	9	9	2	5	3	0
18	P	0102	1	0	7	3	8	9	9	9	2	5	3	0
19	BISCO	663	7	0	7	3	8	9	9	9	2	5	3	0
20	SEEDTEC	2437	0	7	3	8	9	9	9	9	2	5	3	0
21	SEEDTEC	1501	0	7	3	8	9	9	9	9	2	5	3	0
22	V	1501	0	7	3	8	9	9	9	9	2	5	3	0
23	I	1531	0	7	3	8	9	9	9	9	2	5	3	0
24	V	1831	0	7	3	8	9	9	9	9	2	5	3	0
25	A	207	0	7	3	8	9	9	9	9	2	5	3	0
26	A	207	0	7	3	8	9	9	9	9	2	5	3	0
27	J	1512	0	7	3	8	9	9	9	9	2	5	3	0
28	J	127	0	7	3	8	9	9	9	9	2	5	3	0
29	N	127	0	7	3	8	9	9	9	9	2	5	3	0
30	S	127	0	7	3	8	9	9	9	9	2	5	3	0
31	S	127	0	7	3	8	9	9	9	9	2	5	3	0
32	X	127	0	7	3	8	9	9	9	9	2	5	3	0
33	Y	127	0	7	3	8	9	9	9	9	2	5	3	0
34	N	2003	0	7	3	8	9	9	9	9	2	5	3	0
35	N	A288	0	7	3	8	9	9	9	9	2	5	3	0
36	N	1034	0	7	3	8	9	9	9	9	2	5	3	0
37	S	3758	0	7	3	8	9	9	9	9	2	5	3	0
38	MAHABEEJ	1100	0	7	3	8	9	9	9	9	2	5	3	0
39	MAHABEEJ	1102	0	7	3	8	9	9	9	9	2	5	3	0
39	NAVJOT		80	90	95	86	88	89	88	87	23	23	16	19
40	KH 510		8	0	6	8	8	9	8	8	3	3	6	20
	MEAN LOCATION		2	0	9	3	3	5	2	1	2	5	7	2
	C.D. AT 5% =		1.6	1.00	0.6	2.00	2.3	2.5	2.00	1.4	6.00	6.00	6.00	0.59
	C.V. % =		1.00	1.00	0.6	2.00	2.3	2.5	2.00	1.4	6.00	6.00	6.00	0.59
	F (Prob)		1.00	1.00	0.6	2.00	2.3	2.5	2.00	1.4	6.00	6.00	6.00	0.59

TABLE NO. 3 (CONT.)

SL NO	PEDIGREE	MOISTURE % AT HARVEST			MAND	KOLH	AKOL	ZN 4 MEAN	ZN 5 CHHI	OV'L MEAN
		VARA	RANC	ZN 3 MEAN						
1	BH	37.6	28.1	32.8	18.8	15.9	24.0	21.0	19.1	23.7
2	BH	31.9	22.3	22.9	18.1	16.7	22.4	22.1	18.7	22.6
3	BH	37.1	22.3	22.7	18.4	17.2	22.4	22.1	18.7	22.3
4	CHH	31.3	22.3	34.1	18.4	16.7	22.4	22.1	18.7	22.3
5	JH	35.8	22.3	30.4	18.9	17.0	22.5	22.2	19.1	22.4
6	JH	38.5	22.3	32.5	18.1	18.6	22.3	22.2	18.8	22.3
7	JH	39.6	22.3	35.6	18.3	15.3	22.3	22.2	18.8	22.3
8	JH	29.7	22.3	26.7	18.3	16.3	22.4	22.2	18.8	22.3
9	HL	30.7	22.3	27.7	18.5	15.7	22.4	22.2	18.8	22.3
10	LL	26.2	22.3	27.1	19.0	14.5	22.3	22.2	18.8	22.3
11	AA	32.0	22.3	27.0	17.8	15.5	22.3	22.2	18.8	22.3
12	AA	30.8	22.3	27.5	19.8	15.5	22.3	22.2	18.8	22.3
13	AA	32.8	22.3	26.9	17.9	15.5	22.3	22.2	18.8	22.3
14	AB	31.0	22.3	26.4	19.8	15.5	22.3	22.2	18.8	22.3
15	BB	33.6	22.3	30.2	17.8	15.5	22.3	22.2	18.8	22.3
16	BB	33.3	22.3	32.9	18.0	15.5	22.3	22.2	18.8	22.3
17	BB	35.4	22.3	32.8	18.0	15.5	22.3	22.2	18.8	22.3
18	BISCO	34.1	22.3	32.8	18.0	15.5	22.3	22.2	18.8	22.3
19	SEEDTEC	35.1	22.3	32.8	18.0	15.5	22.3	22.2	18.8	22.3
20	SEEDTEC	35.1	22.3	32.8	18.0	15.5	22.3	22.2	18.8	22.3
21	VI	37.7	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
22	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
23	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
24	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
25	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
26	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
27	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
28	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
29	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
30	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
31	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
32	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
33	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
34	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
35	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
36	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
37	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
38	VA	37.2	22.3	33.1	18.0	15.5	22.3	22.2	18.8	22.3
39	NAVJOT	30.6	21.6	26.1	18.8	15.6	23.4	20.3	18.9	21.5
40	KH 510	33.5	22.9	29.1	18.3	17.8	22.3	22.1	19.0	22.2
	C.D. AT 5%	4.0	2.7	2.6	2.3	2.7	2.3	2.2	2.0	2.2
	C.V. (%)	5.9	7.3	7.0	7.3	7.0	6.0	6.0	6.6	6.0
	F (Prob)	.000	.000	.000	.326	.000	.000	.000	.000	.000

TABLE NO. 3 (CONT.)

SL NO	PEDIGREE	PLANT ASPECT *										OV'L MEAN		
		ZN 1 BAJA	DELH	KANP	ZN 2 MEAN	ZN 3 AMBI	KARI	ARBH	MAND	COIM	KOLH		AKOL	ZN 4 MEAN
1	H 3298	2	2	3	8	6	5	3	0	7	1	2	2	5
2	H 3299	2	1	3	2	2	3	3	0	5	2	2	2	2
3	H 3443	2	1	2	2	2	3	3	4	3	1	2	2	2
4	CHH 202	2	1	2	2	2	3	3	2	1	1	2	2	2
5	H 10362	2	1	2	2	2	3	3	2	1	1	2	2	2
6	H 1456	2	1	2	2	2	3	3	2	1	1	2	2	2
7	H 1459	2	1	2	2	2	3	3	2	1	1	2	2	2
8	H 1200	2	1	2	2	2	3	3	2	1	1	2	2	2
9	H 182	2	1	2	2	2	3	3	2	1	1	2	2	2
10	H 134	2	1	2	2	2	3	3	2	1	1	2	2	2
11	H 23007	2	1	2	2	2	3	3	2	1	1	2	2	2
12	H 23071	2	1	2	2	2	3	3	2	1	1	2	2	2
13	H 24008	2	1	2	2	2	3	3	2	1	1	2	2	2
14	H 24020	2	1	2	2	2	3	3	2	1	1	2	2	2
15	H 22069	2	1	2	2	2	3	3	2	1	1	2	2	2
16	H 22045	2	1	2	2	2	3	3	2	1	1	2	2	2
17	H 1361	2	1	2	2	2	3	3	2	1	1	2	2	2
18	H 0102	2	1	2	2	2	3	3	2	1	1	2	2	2
19	H BISCO	2	1	2	2	2	3	3	2	1	1	2	2	2
20	H SEEDTEC	2	1	2	2	2	3	3	2	1	1	2	2	2
21	H 2437	2	1	2	2	2	3	3	2	1	1	2	2	2
22	H 1501	2	1	2	2	2	3	3	2	1	1	2	2	2
23	H 1503	2	1	2	2	2	3	3	2	1	1	2	2	2
24	H 1531	2	1	2	2	2	3	3	2	1	1	2	2	2
25	H 574	2	1	2	2	2	3	3	2	1	1	2	2	2
26	H 207	2	1	2	2	2	3	3	2	1	1	2	2	2
27	H 1512	2	1	2	2	2	3	3	2	1	1	2	2	2
28	H 126	2	1	2	2	2	3	3	2	1	1	2	2	2
29	H 127	2	1	2	2	2	3	3	2	1	1	2	2	2
30	H 187	2	1	2	2	2	3	3	2	1	1	2	2	2
31	H 188	2	1	2	2	2	3	3	2	1	1	2	2	2
32	H 2005	2	1	2	2	2	3	3	2	1	1	2	2	2
33	H 2003	2	1	2	2	2	3	3	2	1	1	2	2	2
34	H 2288	2	1	2	2	2	3	3	2	1	1	2	2	2
35	H 1034	2	1	2	2	2	3	3	2	1	1	2	2	2
36	H 3758	2	1	2	2	2	3	3	2	1	1	2	2	2
37	H 1100	2	1	2	2	2	3	3	2	1	1	2	2	2
38	H 1102	2	1	2	2	2	3	3	2	1	1	2	2	2
39	CHCKS: NAVJOT	2	1	2	2	2	3	3	2	1	1	2	2	2
40	KH 510	2	1	2	2	2	3	3	2	1	1	2	2	2
	MEAN LOCATION	2	1	2	2	2	3	3	2	1	1	2	2	2
	C.D. AT 5% =	2	1	2	2	2	3	3	2	1	1	2	2	2
	C.V. %	2	1	2	2	2	3	3	2	1	1	2	2	2
	F (Prob)	2	1	2	2	2	3	3	2	1	1	2	2	2

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *										OV'L MEAN		
		ZN 1 BAJA	DELH	KANP	ZN 2 MEAN	ZN 3 AMBI	KARI	ARBH	MAND	COIM	KOLH		AKOL	ZN 4 MEAN
1	H	2.2	2.3	5.0	8.7	6.6	0.8	5.5	7.7	3.3	1.1	0.0	2.2	2.2
2	H	2.2	3.0	5.0	4.0	5.5	5.5	5.0	7.7	3.3	1.1	0.0	2.2	2.2
3	H	2.2	5.3	5.2	3.6	7.7	5.0	5.0	8.8	3.3	1.1	0.0	2.2	2.2
4	HH	2.2	2.5	5.2	6.8	5.8	5.0	5.0	7.7	3.3	1.1	0.0	2.2	2.2
5	J	2.2	3.3	5.2	9.9	7.7	5.0	5.0	8.8	3.3	1.1	0.0	2.2	2.2
6	JH	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
7	JH	2.2	3.7	5.3	7.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
8	JH	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
9	JH	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
10	LL	2.2	3.7	5.3	7.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
11	LA	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
12	AA	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
13	AA	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
14	AB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
15	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
16	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
17	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
18	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
19	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
20	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
21	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
22	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
23	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
24	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
25	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
26	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
27	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
28	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
29	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
30	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
31	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
32	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
33	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
34	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
35	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
36	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
37	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
38	BB	2.2	3.7	5.3	8.7	5.5	5.8	5.0	7.7	3.3	1.1	0.0	2.2	2.2
39	NAVJOT	2.2	8.3	3.2	9.8	5.6	0.3	3.0	2.8	7.3	2.2	0.0	2.2	7.4
40	KH 510	2.2	3.5	3.3	7.5	5.5	2.7	2.2	1.8	2.2	2.2	0.0	2.2	3.3
	MEAN LOCATION	2.2	5.5	3.3	7.5	5.5	2.7	2.2	1.8	2.2	2.2	0.0	2.2	3.3
	C.D. AT 5%	2.2	5.5	3.3	7.5	5.5	2.7	2.2	1.8	2.2	2.2	0.0	2.2	3.3
	C.V. %	11.6	13.5	8.6	13.5	12.2	35.6	24.8	15.3	15.3	28.5	6.1	28.5	28.5
	P (Prob)	.006	.011	.000	.011	.166	.013	.028	.002	.002	.120	.000	.120	.120

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	HUSK COVER	ZN 1 BAJA	ZN 2 KANP	ZN 3 AMBI	KARI	ARBH	MAND	COIM	KOLH	AKOL	ZN 4 MEAN	ZN 5 CHHI	OV'L MEAN
1	BH	3298	2	3	8	5	0	0	0	0	3	1	0	2
2	BH	3299	2	3	2	1	0	2	3	2	2	2	1	2
3	BH	3443	2	3	2	1	0	2	3	2	2	2	1	2
4	CHH	202	2	3	2	1	0	2	3	2	2	2	1	2
5	JH	10362	2	3	2	1	0	2	3	2	2	2	1	2
6	JH	1456	2	3	2	1	0	2	3	2	2	2	1	2
7	JH	1459	2	3	2	1	0	2	3	2	2	2	1	2
8	JH	1200	2	3	2	1	0	2	3	2	2	2	1	2
9	HL	182	2	3	2	1	0	2	3	2	2	2	1	2
10	LA	134	2	3	2	1	0	2	3	2	2	2	1	2
11	LA	3007	2	3	2	1	0	2	3	2	2	2	1	2
12	AA	23071	2	3	2	1	0	2	3	2	2	2	1	2
13	AA	24008	2	3	2	1	0	2	3	2	2	2	1	2
14	AA	24020	2	3	2	1	0	2	3	2	2	2	1	2
15	AB	22069	2	3	2	1	0	2	3	2	2	2	1	2
16	BB	22045	2	3	2	1	0	2	3	2	2	2	1	2
17	BP	136	2	3	2	1	0	2	3	2	2	2	1	2
18	BISCO	0101	2	3	2	1	0	2	3	2	2	2	1	2
19	BISCO	0102	2	3	2	1	0	2	3	2	2	2	1	2
20	SEEDTEC	6637	2	3	2	1	0	2	3	2	2	2	1	2
21	SEEDTEC	2437	2	3	2	1	0	2	3	2	2	2	1	2
22	VLP	1501	2	3	2	1	0	2	3	2	2	2	1	2
23	VLP	1503	2	3	2	1	0	2	3	2	2	2	1	2
24	VLP	1531	2	3	2	1	0	2	3	2	2	2	1	2
25	VLP	1874	2	3	2	1	0	2	3	2	2	2	1	2
26	VLP	1574	2	3	2	1	0	2	3	2	2	2	1	2
27	VLP	207	2	3	2	1	0	2	3	2	2	2	1	2
28	VLP	126	2	3	2	1	0	2	3	2	2	2	1	2
29	VLP	127	2	3	2	1	0	2	3	2	2	2	1	2
30	VLP	187	2	3	2	1	0	2	3	2	2	2	1	2
31	VLP	88	2	3	2	1	0	2	3	2	2	2	1	2
32	VLP	2005	2	3	2	1	0	2	3	2	2	2	1	2
33	VLP	2003	2	3	2	1	0	2	3	2	2	2	1	2
34	VLP	A 288	2	3	2	1	0	2	3	2	2	2	1	2
35	VLP	KAVARI - 2288	2	3	2	1	0	2	3	2	2	2	1	2
36	VLP	M M H - 1034	2	3	2	1	0	2	3	2	2	2	1	2
37	VLP	M M H - 3758	2	3	2	1	0	2	3	2	2	2	1	2
38	VLP	MAHABEJ - 1100	2	3	2	1	0	2	3	2	2	2	1	2
39	VLP	MAHABEJ - 1102	2	3	2	1	0	2	3	2	2	2	1	2
39	NAVJOT		2	3	2	1	0	2	3	2	2	2	1	2
40	KH 510		2	3	2	1	0	2	3	2	2	2	1	2
	MEAN LOCATION		2	3	2	1	0	2	3	2	2	2	1	2
	C.D. AT 5% =		2	3	2	1	0	2	3	2	2	2	1	2
	C.V. %		2	3	2	1	0	2	3	2	2	2	1	2
	F (Prob)		2	3	2	1	0	2	3	2	2	2	1	2

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)				ZN 2		ZN 3			
		BAJA	DELH	LUDH	KARN	KANP	MEAN	VARA	RANC	AMBI	MEAN
1	BH	175	238	183	220	105	186	165	157	228	184
2	HH	184	255	194	235	157	210	213	152	225	197
3	HH	175	245	169	225	157	196	178	160	228	188
4	CH	169	205	186	183	178	198	180	151	209	182
5	JH	175	215	184	198	197	207	170	156	220	174
6	JH	175	233	188	205	180	201	148	159	215	182
7	JH	181	198	177	180	174	176	170	161	232	188
8	LL	166	210	185	185	154	193	150	159	210	173
9	LL	149	203	156	188	193	193	145	159	211	159
10	LA	142	220	173	185	186	203	138	165	212	171
11	AA	149	225	163	180	236	186	152	152	207	180
12	AA	140	210	150	175	166	175	133	138	195	155
13	AA	164	225	175	195	166	196	175	153	208	177
14	AB	172	215	191	210	201	207	175	157	232	188
15	BB	176	230	188	155	177	197	168	157	224	183
16	BB	160	230	170	185	175	189	163	146	219	176
17	PM	177	218	189	185	168	190	163	154	212	188
18	BISCO	159	225	176	205	205	206	198	154	217	174
19	SEEDTEC	154	210	170	195	204	197	145	162	216	172
20	SEEDTEC	154	183	160	205	148	185	163	133	201	154
21	VV	154	203	155	165	161	169	148	143	221	173
22	IA	155	215	166	205	186	189	183	155	222	183
23	IA	162	205	166	205	176	189	180	160	216	193
24	AA	163	228	185	195	165	203	200	163	217	196
25	AA	184	198	170	145	162	181	150	160	215	196
26	AA	146	185	160	195	162	163	133	130	217	156
27	AA	181	230	171	195	217	202	148	161	228	179
28	AA	177	208	168	210	180	198	165	149	224	184
29	AA	163	223	171	220	177	194	180	156	220	184
30	AA	156	218	171	190	186	194	158	149	227	176
31	AA	157	213	168	205	166	190	175	143	211	176
32	AA	157	215	185	225	164	193	168	143	228	169
33	AA	177	203	175	195	219	207	148	150	211	169
34	AA	171	188	178	225	184	197	148	150	228	172
35	AA	130	240	178	195	202	210	183	147	190	193
36	MAHABEEJ	130	188	155	175	202	180	180	147	220	172
37	MAHABEEJ	140	201	165	165	171	176	125	139	194	153
38	CHECKS:										
39	NAVJOT	164	230	179	205	197	203	153	152	222	176
40	KH 510	166	230	174	205	208	204	163	154	215	177
	MEAN LOCATION	165	217	174	199	181	193	161	152	216	176
	C.D. AT 5% =	21.3	17.9	12.4	14.7	12.4	14.3	39.9	10.8	16.0	22.2
	C.V. % =	8.0	5.1	5.1	3.6	4.2	-	12.04	4.4	5.3	-
	F (Prob)	.000	.000	.000	.000	.000	-	.004	.000	.000	-

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	EAR HEIGHT (cm)				KARN	KANP	ZN 2 MEAN	VARA	RANC	AMBI	ZN 3 MEAN
		ZN 1 BAJA	DELH	LUJH	LUJH							
1	B H	85	100	90	118	80	97	53	63	89	68	
2	B H	86	118	86	125	78	102	70	68	92	77	
3	B H	73	83	70	115	84	88	58	57	74	63	
4	CHH	82	93	85	188	55	83	60	63	74	68	
5	JH	84	95	85	103	1	107	58	68	86	71	
6	JH	88	103	101	133	1	107	58	67	83	69	
7	JH	88	113	91	90	85	99	55	69	87	71	
8	JH	91	178	65	98	114	79	50	51	70	59	
9	HL	69	90	55	93	98	86	48	44	77	58	
10	LL	73	88	65	93	102	93	48	72	82	58	
11	LA	63	95	79	90	1	84	70	61	76	65	
12	AA	63	113	70	90	95	88	58	72	70	66	
13	AA	76	83	66	95	107	88	75	68	78	66	
14	AA	74	85	88	115	1	98	33	68	80	63	
15	BB	80	85	83	120	99	89	63	55	76	64	
16	BB	65	88	83	95	95	88	38	68	80	59	
17	BB	73	108	84	103	85	89	38	54	75	71	
18	PISCO	75	108	75	110	1	91	48	65	78	56	
19	BISCO	75	105	86	110	97	93	38	55	76	56	
20	SEEDTEC	73	88	74	110	67	76	38	55	75	60	
21	SEEDTEC	58	78	58	110	97	93	40	55	79	56	
22	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
23	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
24	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
25	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
26	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
27	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
28	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
29	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
30	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
31	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
32	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
33	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
34	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
35	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
36	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
37	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
38	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
39	SEEDTEC	58	88	53	110	67	76	38	55	75	60	
40	SEEDTEC	58	88	53	110	67	76	38	55	75	60	

CHECKS:
 NAVJOT
 KH 510
 MEAN LOCATION
 C.D. AT 5% =
 C.V. %
 F (Prob)

TABLE NO. 3 (CONT.)

Sl NO	PEDIGREE	EAR HEIGHT (cm)							OV'L MEAN
		KARI	MAND	COIM	KOLH	AKOL	ZN 4 MEAN	ZN 5 CHHI	
1	BH	77	95	78	110	92	90	103	88
2	BH	69	102	70	102	94	87	101	90
3	BH	65	91	70	93	99	83	85	80
4	CHH	70	95	67	112	107	90	81	82
5	JH	69	97	77	113	92	84	101	88
6	JH	74	97	86	113	99	84	106	92
7	JH	63	101	76	115	95	86	105	87
8	LH	52	81	70	102	96	74	76	74
9	LH	67	88	72	100	101	85	94	86
10	LH	61	73	66	100	110	78	96	81
11	LA	61	73	66	100	101	80	101	79
12	AA	63	88	63	97	104	81	93	80
13	AA	69	83	66	97	104	88	99	88
14	AA	74	97	72	107	104	91	99	86
15	BB	68	95	76	107	104	90	90	83
16	BB	74	95	86	115	99	10	85	20
17	BB	68	95	78	105	112	92	85	20
18	BISCO	80	98	70	112	96	93	99	79
19	BISCO	62	84	82	100	98	88	99	74
20	SEEDTEC	65	90	72	97	93	83	81	73
21	V	66	97	88	102	115	83	90	79
22	V	81	84	74	113	99	85	104	86
23	AA	76	102	82	90	98	74	113	92
24	AA	57	84	63	90	96	68	98	74
25	AA	47	89	77	113	96	90	108	87
26	AA	72	94	75	108	89	88	79	79
27	AA	75	94	82	102	106	89	86	78
28	AA	59	96	74	110	95	89	93	78
29	AA	63	82	75	102	100	84	98	81
30	AA	68	85	78	100	101	86	98	82
31	AA	75	93	74	108	107	90	99	87
32	AA	57	94	82	107	107	89	85	84
33	AA	62	87	73	103	98	84	89	88
34	AA	48	77	74	97	95	77	84	77
35	AA	67	82	71	95	99	83	101	88
36	AA	62	96	75	108	89	86	100	83
37	AA	66	91	74	102	100	87	100	83
38	AA	10.8	15.3	4.9	20.5	13.3	13.0	16.4	-
39	AA	11.7	10.4	4.7	12.3	8.2	-	12.6	-
40	AA	.000	.007	.000	.123	.005	-	.000	-
	NAVJOT	67	82	71	95	99	83	101	88
	KH 510	62	96	75	108	89	86	100	83
	MEAN LOCATION	66	91	74	102	100	87	100	83
	C.D. AT 5%	10.8	15.3	4.9	20.5	13.3	13.0	16.4	-
	C.V. %	11.7	10.4	4.7	12.3	8.2	-	12.6	-
	F (Prob)	.000	.007	.000	.123	.005	-	.000	-

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	EAR No. / PLANT										H. turcicum *				OV'L		H. may *	
		DELH	LUDH	VARA	RANC	AMBI	KARI	KOLH	CHHI	ZN 1 BAJA	ZN 4 KOLH	ZN 1 BAJA	ZN 4 KOLH	MEAN	MEAN	BAJA	BAJA		
1	BH	0.90	0.97	0.89	1.00	1.00	0.88	0.96	1.00	0.88	0.96	0.86	2.2	3.2	1.8	1.0			
2	BH	1.03	0.97	0.93	1.00	1.00	0.98	1.00	1.00	0.98	0.96	0.96	2.2	3.5	1.9	1.1			
3	BH	1.08	0.98	0.94	1.00	1.00	0.96	1.00	1.00	0.96	0.96	0.96	2.2	5.0	1.7	1.1			
4	CHH	1.09	1.00	0.92	1.00	1.00	0.92	1.00	1.00	0.92	0.87	0.87	2.2	2.0	1.8	1.1			
5	JHC	1.09	1.03	0.85	1.00	1.00	0.80	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
6	JCK	1.07	1.00	0.84	1.00	1.00	0.82	1.00	1.00	0.84	0.80	0.80	2.2	3.3	1.8	1.1			
7	JH	1.07	0.99	0.84	1.00	1.00	0.82	1.00	1.00	0.84	0.80	0.80	2.2	3.3	1.8	1.1			
8	LH	1.06	0.97	0.82	1.00	1.00	0.82	1.00	1.00	0.82	0.80	0.80	2.2	3.3	1.8	1.1			
9	LH	1.06	0.97	0.82	1.00	1.00	0.82	1.00	1.00	0.82	0.80	0.80	2.2	3.3	1.8	1.1			
10	LA	1.03	0.96	0.85	1.00	1.00	0.82	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
11	AH	1.03	0.96	0.85	1.00	1.00	0.82	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
12	AH	1.03	0.96	0.85	1.00	1.00	0.82	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
13	AH	1.03	0.96	0.85	1.00	1.00	0.82	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
14	AH	1.03	0.96	0.85	1.00	1.00	0.82	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
15	AH	1.03	0.96	0.85	1.00	1.00	0.82	1.00	1.00	0.85	0.80	0.80	2.2	3.3	1.8	1.1			
16	BI	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
17	BI	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
18	BI	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
19	BI	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
20	SEEDTEC	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
21	SEEDTEC	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
22	VV	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
23	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
24	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
25	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
26	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
27	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
28	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
29	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
30	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
31	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
32	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
33	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
34	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
35	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
36	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
37	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
38	AA	1.00	0.93	0.80	1.00	1.00	0.82	1.00	1.00	0.80	0.80	0.80	2.2	3.3	1.8	1.1			
39	NAVJOT	0.97	0.97	0.83	0.85	1.01	0.96	0.85	1.01	0.96	0.92	0.92	5.2	5.2	1.9	1.3			
40	KH 510	0.94	0.98	0.88	0.85	1.01	0.88	0.85	1.01	0.95	0.96	0.96	2.2	2.2	1.8	1.3			
	MEAN LOCATION	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	-	0.4			
	C.D. AT 5%	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	-	0.4			
	C.V. %	-	-	-	-	-	-	-	-	-	-	-	18.3	15.6	-	21.6			
	F (Prob)	-	-	-	-	-	-	-	-	-	-	-	1.140	1.015	-	1.578			

TABLE NO. 3 (CONT.)

Sl NO	PEDIGREE	STAND AT HARVEST								OV/L MEAN
		KARI	ARBH	MAND	COIM	KOLH	AKOL	CHHI		
1	BH	41	41	36	24	41	37	35	33	
2	BH	42	42	33	18	47	28	34	32	
3	BH	40	45	41	20	40	29	32	29	
4	CHH	36	36	33	17	39	35	28	31	
5	JJ	39	44	36	19	47	34	37	34	
6	JJC	41	48	37	26	47	34	36	33	
7	JJK	39	45	34	27	41	41	33	34	
8	JHL	41	43	37	27	37	38	33	34	
9	LL	39	43	34	18	50	33	33	33	
10	LLA	40	44	36	18	47	38	35	32	
11	AA	40	46	37	18	49	37	36	33	
12	AAH	38	44	34	18	43	39	32	33	
13	AAH	40	45	34	17	44	37	32	33	
14	AAH	40	42	38	17	47	33	36	34	
15	AB	40	44	35	23	45	34	36	34	
16	BB	40	49	38	27	46	40	32	33	
17	BBM	40	38	36	25	43	36	25	33	
18	BBM	40	33	33	28	38	32	31	30	
19	BISCO	37	42	32	27	33	29	31	30	
20	SEEDTEC	39	38	39	27	36	28	31	31	
21	SEEDTEC	38	41	35	27	39	34	31	32	
22	VV	38	42	34	23	41	40	33	34	
23	VVA	40	44	33	26	43	33	34	31	
24	VVA	39	47	33	19	47	36	33	33	
25	AJ	41	39	36	19	45	38	32	33	
26	AJ	40	46	34	26	41	33	32	33	
27	AJ	36	42	37	27	45	34	35	35	
28	JN	40	37	33	23	45	35	32	34	
29	JN	41	45	35	26	48	37	35	33	
30	SS	40	47	39	28	48	34	37	34	
31	SS	41	45	35	28	45	35	32	33	
32	SS	40	42	37	25	44	33	35	34	
33	XX	41	45	33	26	48	34	37	33	
34	X	40	45	39	28	48	37	35	33	
35	X	37	40	39	24	42	33	35	34	
36	NM	35	15	23	25	28	24	17	31	
37	NMH	36	37	36	19	41	33	30	30	
38	MAHABEEJ	40	39	38	15	41	34	17	25	
39	MAHABEEJ	38	38	25	19	46	37	32	30	
40	NAVJOT	41	45	36	27	45	40	42	34	
	KH 510	39	41	34	23	41	35	33	32	
	MEAN LOCATION									
	C.D. AT 5%	3.2	7.2	6.5	2.8	9.8	6.1	5.8	-	
	C.V. %	5.7	12.6	11.7	8.7	14.9	10.9	12.7	-	
	F (Prob)	.003	.000	.000	.000	.000	.000	.000	-	

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

TABLE NO . 4

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, KANGRA, DELHI, LUDHIANA, KARNAL, KANPUR, BELJIPAR GORAKHPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, PROAGRO BANGALORE, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, BANSWARA, CHHINDIWARA IN IET TRIAL NO. TR63 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1		ZN 2					
		ALMO	R	BAJA	R	KANG	R	DELH	R	LUDH	R	KARN	R	KANP	R	MEAN	R		
1	A H - 24007	7084	27	4457	10	3228	37	4923	28	4775	17	5075	30	4364	22	3722	30	4484	29
2	A H - 24012	5565	40	2798	37	3142	39	3835	40	4564	25	5096	29	4125	28	3379	38	4291	34
3	A H - 23015	5826	38	2661	39	3528	33	4005	39	4862	15	5038	31	3863	33	5148	6	4728	24
4	A H - 23041	6987	30	3430	30	3824	27	4747	30	4521	27	5224	25	5331	11	4565	19	4910	19
5	J H - 31005	7817	19	3818	23	4900	11	5512	14	6008	4	6854	13	5834	7	3384	37	5520	11
6	E H - 1265	6514	34	3641	24	3125	40	4427	37	4472	29	4523	35	5436	10	4897	11	4832	20
7	E H - 1297	6543	33	2662	38	4232	19	4479	36	4633	21	5351	24	3735	35	5106	7	4706	26
8	E H - 1318	7082	28	2636	40	3737	28	4485	35	3994	35	5206	27	3974	31	3419	36	4148	37
9	F H - 3259	7551	24	4105	16	4244	18	5300	21	5156	10	5570	23	4903	17	4812	12	5110	18
10	F H - 3239	8126	18	4262	13	3179	38	5189	25	4685	19	5673	21	4098	29	4386	23	4711	25
11	F H - 3246	7544	25	3224	32	3632	31	4800	29	3680	39	4264	38	4980	14	4803	13	4432	30
12	H K H - 1176	7764	20	3447	29	4898	12	5370	20	5077	11	6569	16	4965	15	4750	14	5340	16
13	CHH - 210	5727	39	3508	28	3675	30	4303	38	4425	30	4542	34	3464	38	6337	1	4692	27
14	BVM - 5 COMP.	6567	32	4850	5	4769	13	5395	19	4967	13	5214	26	4327	23	4019	27	4632	28
15	BVM - 6 COMP.	6976	31	3991	19	4913	10	5293	22	4537	26	4465	37	3605	37	3475	34	4021	38
16	R - 03/702	6345	35	3591	26	3577	32	4504	34	4637	20	4480	36	4276	27	3831	29	4306	33
17	P R O - 361	7551	23	4275	12	3900	26	5242	24	4487	28	6712	15	5544	8	4594	18	5334	17
18	P R O - 362	8865	11	4107	15	5357	5	6109	8	4128	34	7252	9	5971	6	4963	10	5578	9
19	B I O - 20171	9095	7	3018	36	3434	34	5182	26	5485	8	6526	17	6386	2	3449	35	5462	12
20	P M Z - 138	7045	29	3622	25	4169	21	4945	27	3534	40	5656	22	4279	26	4218	25	4422	31
21	BISCO - 2435	8997	9	4722	7	4053	25	5924	11	4629	23	8275	3	3837	34	5060	8	5450	13
22	BISCO - 1881	8793	12	4833	6	6073	1	6567	3	5428	9	6175	20	4288	25	3289	40	4795	23
23	SEEDTEC - 2041	9712	4	3957	22	5547	4	6405	5	4581	24	6817	14	4314	24	3498	33	4803	22
24	SEEDTEC - 2031	9704	5	6073	2	5031	8	6936	2	6926	2	8266	4	5102	13	4472	21	6191	4
25	S G M H - 101	8515	16	3582	27	4148	22	5415	18	5576	7	6399	18	4959	16	6150	2	5771	7

TABLE NO . 4 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 2			
	ALMO	BAJA	KANG	DELH	LUDH	KARN	KANP	R	MEAN	R	MEAN	R	MEAN	R	MEAN	
26 A A M H - 133	7418	26	3072	35	3391	31	3849	37	2932	40	2931	40	4160	26	3468	40
27 A A M H - 138	8304	17	4928	4	3273	15	3984	36	5157	28	4495	21	3379	39	4254	35
28 X 1182 D	8611	14	5663	3	4933	9	7017	1	7807	8	4880	19	5924	3	6407	2
29 X 1182 K	9513	6	4119	14	4248	17	5865	5	8867	1	6636	1	4702	16	6517	1
30 J K M H - 1701	8926	10	4567	9	4056	24	4862	14	6902	10	4897	18	5708	4	5592	8
31 J K M H - 062	9035	8	4071	17	5839	2	3823	38	6857	12	3935	32	4711	15	4831	21
32 M C H - 15	9957	1	6778	1	5733	3	5756	6	8246	5	4866	20	4474	20	5835	6
33 S S F - X 2098	9836	2	4578	8	5044	7	6029	3	8705	2	6049	4	4232	24	6254	3
34 X - 612	8614	13	4362	11	5169	6	4234	32	4942	32	3642	36	4452	22	4317	32
35 X - 2097	9780	3	3960	21	3708	29	4724	18	8016	6	5251	12	3505	32	5374	14
36 KAVERI - 2020	8593	15	3126	34	4083	23	5028	12	6282	19	5511	9	4604	17	5356	15
37 J H - 31036	7619	22	4050	18	4729	14	4155	33	6889	11	6198	3	5033	9	5569	10
CHECKS:																
38 MAHI KANCHAN	6143	36	3185	33	4484	16	4817	16	3174	39	3363	39	3508	31	3716	39
39 KIRAN	6137	37	3228	31	4218	20	4347	31	4790	33	3981	30	3880	28	4249	36
40 X - 3342	7630	21	3966	20	4690	15	4630	22	7827	7	6027	5	5435	5	5980	5
MEAN YIELD=	7860		3973		4298		4822		6065		4716		4436		5010	
MEAN STAND	23		35		19		39		37		21		33		33	
C.D. AT 5%=	1826		909		1286		1439		1462		202		1021		1031	
C.V. % =	14.30		14.08		18.42		18.36		17.22		2.11		11.38		-	
F (Prob)	.000		.000		.000		.001		.000		.000		.000		-	
PLOT SIZE=	3.60		4.80		3.60		7.50		5.20		5.60		5.40		-	
AGRONOMY DATA:																
SOW. DATE (2003)	14-07		2-07		29-06		8-07		9-07		30-06		22-07		-	
HAR. DATE (2003)	11-11		31-10		1-10		18-10		16-10		1-10		17-10		-	
IRRIGATION Nos	-		2		-		-		-		3		-		-	
FERTILIZER APP.N	80		120		80		120		80		150		120		-	
P	60		60		60		80		40		60		60		-	
K	40		40		40		40		-		-		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : UMIA 34.7% : KUSH 32.3% : GODH 37.5%

TABLE NO . 4 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3			
		BELI	R	VARA	R	DHOL	R	RANC	R	JASH	R	AMBI	R	MEAN	R
1	A H - 24007	1767	38	3868	24	5854	22	2613	27	2686	32	5728	35	3753	30
2	A H - 24012	1712	39	3576	28	5823	24	2486	31	3531	19	6216	20	3891	27
3	A H - 23015	1824	37	4229	19	5886	19	2446	36	3573	18	5542	37	3917	26
4	A H - 23041	2090	27	4199	20	4725	34	2343	39	3336	20	5420	39	3686	33
5	J H - 31005	2691	17	4770	14	6678	15	2936	19	3689	16	6092	22	4476	15
6	E H - 1265	2026	30	3474	35	4129	40	2506	30	2430	36	6559	11	3521	38
7	E H - 1297	2344	22	3759	26	4411	37	2688	25	2529	35	6542	12	3712	32
8	E H - 1318	2306	24	3539	33	4192	39	2439	37	3694	15	5815	30	3664	34
9	F H - 3259	2066	28	4602	17	5267	30	3301	8	2822	30	6460	15	4086	23
10	F H - 3239	2686	19	3522	34	5635	25	2461	35	2595	33	6721	8	3937	25
11	F H - 3246	1854	36	3991	22	5227	31	3110	13	3844	13	6637	9	4110	22
12	H K H - 1176	2707	13	5199	7	7902	5	2720	24	3955	9	6297	17	4797	8
13	CHH - 210	1917	34	3551	32	4670	35	3034	15	1981	40	5518	38	3445	39
14	BVM - 5 COMP.	1945	33	3757	27	5612	26	2734	23	2994	27	6821	5	3977	24
15	BVM - 6 COMP.	1951	31	3014	39	5886	20	2962	18	3118	24	5645	36	3763	29
16	R - 03/702	2055	29	3868	25	5447	29	2830	21	2261	38	5210	40	3612	35
17	P R O - 361	2695	15	5419	4	6325	17	2676	26	3881	12	6478	14	4579	13
18	P R O - 362	2949	4	5130	8	5572	27	3159	11	3041	25	6415	16	4378	17
19	B I O - 20171	2688	18	4974	11	6812	14	3756	3	5196	3	6156	21	4930	5
20	P M Z - 138	2314	23	3561	31	5047	32	3208	10	2212	39	6008	25	3725	31
21	BISCO - 2435	2988	3	4640	15	8207	2	2471	33	3824	14	5836	28	4661	11
22	BISCO - 1881	2694	16	4177	21	6858	13	3014	16	3309	22	6571	10	4437	16
23	SEEDTEC - 2041	2892	7	3948	23	6952	12	3988	2	4206	6	6507	13	4749	9
24	SEEDTEC - 2031	2922	5	4638	16	8113	4	4121	1	5487	2	6250	19	5255	2
25	S G M H - 101	2706	14	4972	12	7047	10	2609	28	2899	28	5791	32	4337	18

TABLE NO . 4 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
		HYDE	R	KARI	R	PROA	R	MAND	R	COIM	R	KOLH	R	MEAN	R
1	A H - 24007	5174	3	5903	19	5736	31	6254	23	1966	34	4771	31	4967	26
2	A H - 24012	3613	27	4588	38	6924	24	4319	40	2938	15	4085	39	4411	35
3	A H - 23015	2542	37	5440	25	6523	26	5573	33	1838	37	4437	34	4392	37
4	A H - 23041	2979	36	5711	22	6934	23	4905	38	2174	31	5094	25	4633	33
5	J H - 31005	4470	14	4959	35	7531	20	7731	6	1964	35	5701	16	5393	18
6	E H - 1265	3797	22	5389	26	7534	19	7655	9	2395	22	5046	26	5303	20
7	E H - 1297	3862	20	5117	32	6462	27	7706	7	2494	21	6330	13	5329	19
8	E H - 1318	3277	33	4586	39	7833	17	6083	27	2227	28	4139	38	4691	32
9	F H - 3259	2529	38	5245	28	5422	35	5446	35	2250	25	5530	19	4404	36
10	F H - 3239	2387	39	6528	14	6395	28	6088	26	2275	24	4798	29	4745	30
11	F H - 3246	3652	26	5675	23	5630	33	6839	16	3118	11	4354	36	4878	27
12	H K H - 1176	3339	31	6243	16	5157	36	6108	25	2232	27	5141	24	4703	31
13	CHH - 210	3181	34	4707	36	4457	38	7396	11	2661	18	4394	35	4466	34
14	BVM - 5 COMP.	3661	25	5134	31	6098	29	7292	12	2207	29	4493	33	4814	29
15	BVM - 6 COMP.	4920	6	5331	27	5648	32	7765	5	2833	16	5184	22	5280	21
16	R - 03/702	4604	11	4706	37	5604	34	6638	19	2115	32	6336	12	5001	25
17	P R O - 361	1759	40	5196	29	4572	37	7197	13	2189	30	4808	28	4287	38
18	P R O - 362	3332	32	7341	5	7358	21	7699	8	2622	19	8302	2	6109	11
19	B I O - 20171	3847	21	6361	15	8235	16	7636	10	3232	8	5446	20	5793	15
20	P M Z - 138	4467	15	6890	9	8613	14	9372	1	2345	23	6425	11	6352	4
21	BISCO - 2435	4779	9	5066	33	9215	7	7122	14	3087	13	6662	10	5989	12
22	BISCO - 1881	3717	24	7402	4	9008	11	7115	15	2984	14	7000	9	6204	9
23	SEEDTEC - 2041	4364	17	5774	20	9333	5	5944	29	4023	3	5363	21	5800	14
24	SEEDTEC - 2031	5511	1	6724	11	8834	13	8110	3	3712	6	7586	5	6746	2
25	S G M H - 101	5378	2	6588	13	9394	4	6055	28	5079	1	4812	27	6218	7

TABLE NO . 4 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
		HYDE	R	KARI	R	PROA	R	MAND	R	COIM	R	KOLH	R	MEAN	R
26	A M H - 133	3606	28	5733	21	7074	22	5210	36	2078	33	5562	18	4877	28
27	A M H - 138	5101	4	5196	30	7660	18	5558	34	1803	38	7573	6	5482	17
28	X 1182 D	4790	8	6861	10	9141	9	6624	20	2683	17	7261	8	6227	6
29	X 1182 K	4935	5	7705	3	10857	1	7820	4	3153	10	8798	1	7211	1
30	J K M H - 1701	4498	12	8124	1	9589	2	8179	2	3828	4	5148	23	6561	3
31	J K M H - 062	4871	7	7323	6	9277	6	5625	32	2607	20	7978	3	6280	5
32	M C H - 15	3424	30	7800	2	9192	8	6682	18	4087	2	6050	14	6206	8
33	S S F - X 2098	3113	35	7066	8	9481	3	5669	31	2243	26	7538	7	5852	13
34	X - 612	4035	19	5929	18	8885	12	4747	39	3296	7	4773	30	5278	22
35	X - 2097	4636	10	7087	7	9125	10	6475	21	3812	5	5622	17	6126	10
36	KAVERI - 2020	3578	29	6625	12	6922	25	5035	37	3168	9	5798	15	5188	24
37	J H - 31036	4481	13	5626	24	8592	15	6149	24	1740	40	4551	32	5190	23
CHECKS:															
38	MAHI KANCHAN	3723	23	5031	34	4196	40	6737	17	1876	36	2914	40	4079	40
39	KIRAN	4054	18	4498	40	4288	39	6339	22	1779	39	4281	37	4207	39
40	X - 3342	4443	16	6006	17	5807	30	5831	30	3096	12	7900	4	5514	16
	MEAN YIELD=	3961		5980		7363		6568		2705		5700		5380	
	MEAN STAND	37		39		33		35		24		49		36	
	C.D. AT 5% =	166		1622		1699		2363		455		2088		1399	
	C.V. % =	3.00		19.37		14.19		22.13		12.02		22.55		-	
	F (Prob)	.000		.000		.000		.012		.000		.000		-	
	PLOT SIZE=	7.50		6.00		5.52		7.00		4.80		6.00		-	
AGRONOMY DATA:															
	SOWING DATE(2003)	11-08		16-07		24-07		7-08		3-07		8-07		-	
	HARVEST DATE(2003)	17-11		22-10		14-11		10-12		23-10		17-10		-	
	IRRIGATION NOS	7		1		-		8		7		-		-	
	FERTILIZER APPLIED N	120		150		120		150		135		100		-	
	P	60		60		60		75		63		50		-	
	K	40		40		40		40		50		30		-	

TABLE NO . 4 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L			
		UDAI				BANS				CHHI				ZN 5		MEAN	R
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
26	A A M H - 133	6819	6	2864	40	6630	27	5437	19	4220	37						
27	A A M H - 138	6600	8	4226	10	7674	18	6167	10	5041	20						
28	X 1182 D	6280	10	4369	4	9691	6	6780	4	5973	3						
29	X 1182 K	7247	2	4851	1	10192	1	7430	1	6414	1						
30	J K M H - 1701	6688	7	3162	36	10055	3	6635	7	5763	6						
31	J K M H - 062	4718	22	3333	31	9718	5	5923	14	5303	14						
32	M C H - 15	3453	31	3840	14	10122	2	5805	15	5885	5						
33	S S F - X 2098	6135	12	4703	2	9802	4	6880	3	5922	4						
34	X - 612	7160	5	4533	3	8467	11	6720	5	5116	18						
35	X - 2097	4778	20	3634	22	9561	7	5991	12	5643	7						
36	KAVERI - 2020	3455	30	4149	11	8089	13	5231	20	5093	19						
37	J H - 31036	5012	18	4240	8	7901	15	5718	16	5133	17						
CHECKS:																	
38	MAHI KANCHAN	4804	19	3680	20	5075	40	4520	30	3998	40						
39	KIRAN	3773	27	2953	38	6210	32	4312	38	4089	39						
40	X - 3342	3322	35	3560	26	7351	20	4744	25	5208	16						
	MEAN YIELD=	4887		3735		7507		5376		4998							
	MEAN STAND	40		29		37		35		33							
	C.D. AT 5%=	757		836		928		840		1070							
	C.V. % =	11.06		15.99		8.82		-		-							
	F (Prob)	.000		.000		.000		-		-							
	PLOT SIZE=	6.00		6.00		5.60		-		-							
AGRONOMY DATA:																	
	SOWING DATE(2003)	3-07		3-07		27-06		-		-							
	HARVEST DATE(2003)	14-10		16-10		20-10		-		-							
	IRRIGATION Nos	-		-		-		-		-							
	FERTILIZER APPLIED	90		80		100		-		-							
	N	60		60		50		-		-							
	P	-		-		30		-		-							
	K	-		-		-		-		-							

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN										KARI
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN	HYDE			
1	A H - 24007	-	22.48	7.49	8.58	4.22	-	7.33	5.96	38.98	17.31	
2	A H - 24012	-	13.24	6.91	3.31	36.96	-	-	9.85	-	8.13	
3	A H - 23015	-	33.89	8.06	1.65	38.61	-	-	10.59	-	13.51	
4	A H - 23041	-	32.95	-	-	29.44	-	-	4.06	-	-	
5	J H - 31005	11.76	51.02	22.62	21.99	43.12	5.19	26.38	20.09	20.09	7.11	
6	E H - 1265	8.36	10.01	-	4.11	-	13.25	-	2.00	3.76	1.71	
7	E H - 1297	25.36	19.02	-	11.68	-	12.96	-	-	-	-	
8	E H - 1318	23.31	12.06	-	1.32	-	0.42	-	-	-	-	
9	F H - 3259	10.49	45.72	-	37.17	-	11.54	-	-	-	4.24	
10	F H - 3239	43.64	11.50	3.46	2.27	0.68	16.05	-	-	-	12.79	
11	F H - 3246	-	26.36	45.08	29.21	49.11	14.61	16.05	-	-	24.08	
12	H K H - 1176	44.75	64.61	-	13.03	53.42	8.74	35.43	-	-	-	
13	CHH - 210	2.50	12.44	3.03	26.05	16.13	17.78	12.29	32.17	2.04	5.95	
14	BVM - 5 COMP.	4.32	18.97	8.06	13.58	20.98	-	6.24	23.69	-	-	
15	BVM - 6 COMP.	9.89	17.57	-	17.57	-	-	1.98	-	-	-	
16	R - R O - 361	44.12	22.47	16.13	11.20	50.56	11.87	29.29	-	-	3.27	
17	P R O - 362	57.68	71.58	2.30	31.26	17.99	10.78	23.61	-	-	45.90	
18	P R O - 20171	43.74	62.44	25.07	56.07	101.59	16.30	39.21	3.35	-	26.43	
19	B I O - 138	23.71	12.76	-	33.31	-	3.74	5.18	20.00	28.38	36.93	
20	P M Z - 2435	59.75	46.91	50.69	2.67	48.36	0.77	31.60	-	-	0.68	
21	BISCO - 1881	44.04	32.26	25.92	25.25	28.38	12.46	25.28	17.23	17.23	14.76	
22	SEEDTEC - 2041	54.62	25.00	27.65	65.71	63.19	13.37	34.09	48.03	48.03	33.65	
23	SEEDTEC - 2031	56.26	46.86	48.96	71.24	112.88	7.93	48.39	44.47	44.47	30.94	
24	S G M H - 101	44.68	57.44	29.38	8.39	12.46	-	22.46	-	-	13.95	
25	A M H - 133	4.05	-	-	2.63	-	1.71	-	-	-	-	
26	A M H - 138	12.96	13.06	16.13	36.18	51.67	17.28	22.29	37.03	37.03	3.27	
27	A M H D - 138	54.11	90.97	28.80	27.57	38.91	8.45	35.81	28.68	28.68	36.37	
28	X 1182 K	73.11	83.45	49.11	19.64	114.64	4.32	48.73	32.56	32.56	53.13	
29	X 1182 K	46.96	55.22	6.91	52.74	77.27	21.35	29.81	20.82	20.82	61.47	
30	J K M H - 1701	12.24	2.74	-	29.82	11.15	1.23	8.01	30.85	30.85	45.54	
31	J K M H - 062	51.34	60.75	56.45	6.37	55.60	3.95	36.56	-	-	55.02	
32	J M S F - 15	66.18	79.18	32.98	55.38	73.93	0.56	41.44	-	-	40.43	
33	X - X 2098	41.82	13.21	7.64	48.78	50.62	19.94	19.06	8.40	8.40	17.84	
34	X - 612	54.73	68.34	31.68	45.77	55.32	18.23	43.41	24.54	24.54	40.84	
35	KAVERI - 2020	49.93	58.61	31.68	24.03	23.51	0.32	31.77	20.37	20.37	31.67	
36	J H - 31036	46.82	36.40	33.98	15.46	17.18	-	22.16	-	-	11.81	
37	CHECKS:	-	-	-	-	-	-	-	-	-	-	
38	MAHI KANCHAN	-	6.65	-	-	9.32	18.49	-	8.89	8.89	-	
39	KIRAN	-	69.55	19.58	2.68	29.43	17.26	27.31	19.35	19.35	19.37	
40	X - 3342	38.39	69.55	19.58	2.68	29.43	17.26	27.31	19.35	19.35	19.37	

TABLE NO . 4 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN										OV'L MEAN
		BANG PROA	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN		
1	A H	36.70	-	4.80	63.75	21.76	-	-	28.83	-	9.64	12.08
2	A H	65.02	-	56.60	40.21	8.13	-	15.05	16.43	-	5.76	6.99
3	A H	65.47	-	-	52.28	7.67	-	-	12.59	-	24.04	11.57
4	A H	65.25	-	15.91	74.83	13.57	-	-	23.07	-	-	30.34
5	A H	79.48	14.76	4.72	95.65	32.19	26.43	4.33	36.07	-	-	12.27
6	J E H	79.56	13.64	27.67	73.19	29.99	6.12	-	2.08	-	-	14.17
7	E H	54.00	14.39	32.97	117.25	30.62	-	-	14.53	-	-	17.32
8	E H	86.69	-	18.71	42.04	14.99	11.68	-	10.38	-	-	13.95
9	F H	29.22	-	19.92	89.79	16.33	-	-	33.28	-	-	14.28
10	F H	52.42	-	21.29	64.67	19.57	-	-	38.45	-	-	12.15
11	F H	34.18	1.51	66.22	49.43	15.30	-	0.62	21.27	-	-	22.19
12	H H	22.91	-	19.00	76.43	19.47	-	-	47.11	-	-	3.77
13	CHH	6.21	9.79	41.86	50.80	18.01	-	-	14.21	-	-	15.78
14	BVM	45.33	8.24	17.64	54.21	18.43	-	7.37	37.58	-	-	9.80
15	BVM	34.61	15.26	151.02	77.92	22.58	-	-	26.15	-	-	17.54
16	BVM	33.56	-	12.75	117.46	22.58	-	-	28.32	-	-	17.54
17	P O	8.97	6.83	16.71	65.01	49.75	-	-	40.24	-	-	36.09
18	P O	75.36	14.28	39.78	184.92	42.01	26.09	16.39	55.71	-	-	24.46
19	P O	95.28	13.35	72.31	86.92	55.71	21.17	10.28	54.85	-	-	37.90
20	P O	105.27	39.12	25.02	120.65	46.80	37.01	2.97	35.64	-	-	38.42
21	BISCO	119.62	5.72	64.58	128.23	42.18	29.44	3.83	53.06	-	-	57.19
22	BISCO	114.69	5.61	59.07	140.26	42.18	22.77	0.44	77.46	-	-	39.09
23	SEEDTEC	122.44	20.39	114.45	184.36	65.42	52.77	17.54	79.51	-	-	55.54
24	S G M H	123.88	-	170.77	65.14	52.42	49.12	16.33	62.36	-	-	26.08
25	S G M H	68.60	-	10.76	90.88	19.56	41.92	-	30.63	-	-	49.38
26	A A M H	82.57	-	-	159.93	34.38	37.37	-	51.20	-	-	60.43
27	A A M H	117.86	-	-	149.19	34.38	30.71	-	90.80	-	-	44.13
28	X J K M H	158.75	16.08	43.01	201.96	76.77	50.83	14.85	100.12	-	-	32.64
29	X J K M H	121.53	21.41	68.08	76.83	60.85	39.21	18.75	98.47	-	-	47.20
30	J K M H	121.09	-	104.07	173.67	53.13	-	-	91.47	-	-	48.11
31	J K M H	119.07	-	38.99	107.66	43.45	27.70	4.37	99.43	-	-	27.94
32	J M S F	125.96	-	117.89	158.70	29.37	49.03	23.20	66.89	-	-	41.14
33	X X	111.75	-	75.69	63.84	50.17	-	-	88.39	-	-	27.38
34	X X	117.47	-	103.20	92.98	27.17	-	-	59.37	-	-	27.38
35	X X	64.97	-	68.87	98.94	27.22	4.33	12.76	55.67	-	-	28.38
36	X X	104.77	-	-	56.19	-	-	15.22	-	-	-	-
37	J H	104.77	-	-	-	-	-	-	-	-	-	-
38	MAHI KANCHAN	2.21	-	-	46.94	3.12	-	-	22.36	-	-	2.28
39	KIRAN	38.41	-	65.07	171.13	35.17	-	-	44.83	-	-	30.26
40	X - 3342	-	-	-	-	-	-	-	-	-	-	-

CHECKS:

TABLE NO . 4 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KIRAN										ZN 2	
		ALMO	BAJA	KANG	ZN 1 MEAN	DELH	LJUDH	KARN	KANP	MEAN			
1	A H - 24007	15.44	38.05	-	8.73	9.85	5.96	9.64	-	5.52			
2	A H - 24012	-	-	-	-	4.99	6.39	3.62	-	0.98			
3	A H - 23015	-	-	-	-	11.85	5.17	-	-	11.25			
4	A H - 23041	-	-	-	4.85	4.00	9.07	33.92	32.68	15.55			
5	A H - 31005	27.38	6.26	16.19	21.74	38.21	43.09	46.57	17.66	29.90			
6	J E H - 1265	6.15	12.79	-	-	2.87	-	36.57	26.20	13.71			
7	E H - 1297	6.62	-	0.34	-	6.58	11.71	-	31.60	10.75			
8	E H - 1318	15.41	-	-	-	-	8.67	-	-	-			
9	F H - 1318	32.04	27.14	0.63	17.06	18.61	16.28	23.18	24.01	20.25			
10	F H - 3239	32.42	32.00	-	14.61	7.78	18.43	2.95	13.03	10.85			
11	F H - 3246	22.93	-	-	6.02	-	-	25.11	23.78	4.29			
12	H K H - 1176	26.52	6.78	16.13	18.60	16.79	37.14	24.72	22.41	25.66			
13	CHH - 210	-	8.66	-	-	1.79	-	-	63.34	10.42			
14	BVM - 5 COMP.	7.01	50.24	13.08	19.17	14.25	8.86	8.71	3.58	9.00			
15	BVM - 6 COMP.	13.68	23.62	16.50	16.92	4.36	-	-	-	-			
16	R - 361	3.39	11.24	-	15.78	6.67	-	7.43	-	1.34			
17	R O - 362	23.06	32.43	-	34.94	3.22	40.13	39.28	18.40	25.53			
18	P R O - 20171	44.45	27.21	27.01	14.46	26.17	51.40	50.00	27.90	31.27			
19	P M Z - 138	48.21	-	-	9.23	-	36.24	60.44	-	28.52			
20	P M Z - 138	14.80	12.19	-	30.84	-	18.07	7.50	8.71	4.06			
21	BISCO - 2435	46.61	46.26	-	45.04	6.47	72.74	-	30.40	28.45			
22	BISCO - 1881	43.29	49.71	-	41.47	24.86	28.90	7.71	-	12.83			
23	SEEDTEC - 2041	58.26	22.56	31.52	53.19	5.39	42.30	8.37	-	13.02			
24	SEEDTEC - 2031	58.13	88.13	19.28	19.60	59.31	72.57	28.17	15.25	45.70			
25	S G M H - 101	38.75	10.95	-	2.19	28.27	33.60	24.58	58.51	35.81			
26	A A M H - 133	20.87	-	-	-	-	-	-	7.21	-			
27	A A M H - 138	35.33	52.66	-	21.52	-	7.66	12.93	-	0.10			
28	X 1182 D	40.32	75.42	16.97	41.41	61.41	62.99	22.59	52.69	50.77			
29	X 1182 K	55.01	27.60	0.71	31.64	34.91	85.11	66.70	21.19	53.37			
30	J K M H - 1701	45.45	41.46	-	29.20	11.85	44.08	23.03	47.12	31.60			
31	J K M H - 062	47.24	26.12	38.45	39.49	-	43.14	-	21.41	13.69			
32	M C H - 15	62.26	109.96	35.94	65.42	32.40	72.13	22.24	15.30	37.31			
33	S S F - X 2098	60.28	41.80	19.58	43.25	38.69	81.73	51.97	9.08	47.17			
34	X - 612	40.37	35.12	22.56	33.59	-	3.17	14.75	14.75	1.60			
35	X - 2097	59.37	22.67	-	28.46	8.66	67.35	31.92	-	26.46			
36	KAVERI - 2020	40.02	-	-	16.34	15.65	31.15	38.46	18.66	26.05			
37	J H - 31036	24.15	25.44	12.12	20.72	-	43.81	55.69	29.72	31.04			
CHECKS:													
38	MAHI KANCHAN	0.11	-	6.31	1.69	10.81	-	-	-	-	-		
39	KIRAN	-	-	-	-	-	-	-	-	-	-		
40	X - 3342	24.33	22.85	11.20	19.90	6.52	63.39	51.41	40.09	40.72			

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	GORA BELLI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN	HYDE	KARI
1	A H - 24007	4.94	14.85	17.26	75.97	-	-	6.17	27.63	31.22
2	A H - 24012	1.67	25.18	16.64	67.42	25.28	-	10.06	-	20.00
3	A H - 23015	8.35	24.67	17.89	64.74	26.79	-	10.80	-	20.94
4	A H - 23041	24.13	41.61	33.77	97.70	18.40	-	4.26	-	26.97
5	J H H - 31005	59.85	3.15	-	68.72	30.92	-	26.62	10.29	10.24
6	J H H - 1265	20.33	11.60	-	80.98	-	-	-	-	19.81
7	E H H - 1297	39.24	36.64	-	64.21	-	-	5.01	-	13.76
8	E H H - 1318	36.96	4.55	5.49	122.30	31.08	-	3.65	-	1.95
9	F H H - 3259	22.72	18.48	12.87	65.74	0.13	-	15.60	-	16.60
10	F H H - 3239	59.54	10.10	4.70	109.40	36.39	-	11.37	-	45.13
11	F H H - 3246	10.78	54.35	58.28	83.17	40.34	-	16.28	-	26.15
12	F H H - 1176	160.78	5.44	-	104.28	-	-	35.69	-	38.79
13	CHH - 210	13.84	11.55	-	84.07	6.23	-	12.51	-	4.64
14	BVM - 5 COMP.	15.52	-	12.40	99.43	10.66	-	6.44	21.37	14.13
15	BVM - 6 COMP.	15.87	-	17.89	90.54	-	-	2.17	13.59	18.51
16	R R O - 03/702	22.07	14.84	9.10	80.20	37.72	-	29.54	-	4.62
17	P R O - 361	60.07	60.89	26.69	112.71	7.93	-	23.85	-	15.51
18	P R O - 362	75.14	52.32	11.61	152.92	84.40	-	39.48	-	63.20
19	P R O - 20171	59.66	47.76	36.45	116.04	-	-	5.38	-	41.16
20	B M Z - 138	37.41	5.75	1.09	66.39	35.71	-	31.85	10.20	53.61
21	BISCO - 2435	77.44	37.75	4.39	102.98	17.44	-	25.53	17.90	12.61
22	BISCO - 1881	59.99	24.02	37.37	168.55	49.27	-	34.35	7.66	64.55
23	SEEDTEC - 2041	71.74	17.21	39.26	177.51	94.73	-	48.67	35.94	28.36
24	SEEDTEC - 2031	73.56	47.63	62.51	175.66	2.87	-	22.70	32.67	49.49
25	S G M H H - 101	60.69	-	41.14	66.32	-	-	-	-	46.46
26	A A M H H - 15.57	15.57	6.01	26.69	120.69	38.73	-	22.53	25.84	27.45
27	A A M H H - 133	25.46	79.07	40.52	106.75	27.07	-	36.07	18.17	15.51
28	X 1182 K	71.17	72.01	62.67	93.89	96.33	-	49.02	21.73	52.28
29	X 1182 K	92.27	45.55	16.64	147.53	62.15	-	30.08	10.95	71.61
30	J K M H - 1701	63.23	50.73	-	110.39	1.68	2.31	8.22	20.16	82.79
31	J K M H - 062	24.67	68.10	-	72.39	42.33	-	36.82	-	73.40
32	M S F - 15	68.57	68.02	70.68	151.81	59.09	-	41.71	-	57.07
33	X C S - 612	84.52	6.15	17.43	141.12	37.77	-	19.29	-	31.81
34	X - 2097	57.52	57.85	56.39	136.24	42.07	1.22	43.69	14.37	57.54
35	X - 2097	71.86	48.72	43.66	101.01	12.98	-	32.02	-	47.28
36	KAVERI - 2020	66.53	27.90	46.17	87.11	7.19	-	22.40	10.54	25.06
37	J H - 31036	63.07	-	-	-	-	-	-	-	-
CHECKS:										
38	MAHI KANCHAN	11.07	-	9.10	62.06	-	-	0.19	-	11.85
39	KIRAN	-	-	-	-	-	-	-	-	-
40	X - 3342	53.71	58.99	30.46	66.40	18.39	-	27.56	9.60	33.52

TABLE NO . 4 (CONT.)

SL NO	PEDIGREE	DAYS TO 50% POLLEN SHED													
		ALMO	BAJA	KANG	ZN 1 MEAN	DELH	LU DH	KARN	KANP	ZN 2 MEAN	GORA BELI	VARA	DEOL	RANC	JASH
1	A H - 24007	53.0	57.7	48.3	53.0	47.0	45.5	49.5	48.0	47.5	49.5	44.3	51.8	46.0	44.8
2	A H - 24012	56.7	59.3	47.7	54.7	46.7	46.0	49.5	42.0	46.8	50.3	47.0	50.8	47.0	46.0
3	A H - 23015	56.0	60.0	47.3	54.2	46.0	47.0	49.5	42.0	47.3	46.8	47.0	50.3	46.0	46.0
4	A H - 31005	52.3	59.0	48.0	53.8	46.0	43.5	48.5	47.0	47.2	49.8	43.3	51.5	47.5	43.5
5	A H - 12655	51.7	59.3	48.0	52.9	43.7	44.3	47.5	43.0	44.4	46.0	42.0	50.8	45.0	42.5
6	A H - 12977	52.0	57.7	47.0	52.2	44.0	44.0	48.0	41.0	44.5	46.5	42.3	49.3	45.0	41.0
7	A H - 1318	51.3	58.0	48.0	52.3	44.0	44.0	47.5	41.0	44.3	46.0	42.3	48.3	45.0	41.0
8	A H - 3239	51.0	58.7	46.3	52.1	44.0	44.5	47.0	41.0	44.3	46.0	42.3	48.3	45.0	41.0
9	A H - 3246	51.7	59.3	48.3	52.4	46.0	46.8	49.5	41.0	44.3	46.0	42.3	48.3	45.0	41.0
10	F H K - 1176	51.0	59.0	47.0	52.1	44.0	44.0	47.5	41.0	44.3	46.0	42.3	48.3	45.0	41.0
11	F H K - 210	51.7	59.3	47.0	52.4	46.0	46.8	49.5	41.0	44.3	46.0	42.3	48.3	45.0	41.0
12	CHH - 5	55.0	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
13	BVM - 6	55.3	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
14	BVM - 9/702	55.3	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
15	BVM - 361	55.3	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
16	R - 362	55.3	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
17	R - 362	55.3	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
18	R - 20171	55.3	59.3	46.0	53.3	44.0	43.8	49.5	43.0	46.5	50.3	44.7	51.8	47.0	44.5
19	P - 138	52.7	57.0	47.0	52.4	45.0	46.3	48.0	46.0	46.8	47.5	48.0	48.0	47.5	45.0
20	P - 2435	51.0	57.0	47.0	52.4	45.0	46.3	48.0	46.0	46.8	47.5	48.0	48.0	47.5	45.0
21	P - 1881	51.0	57.0	47.0	52.4	45.0	46.3	48.0	46.0	46.8	47.5	48.0	48.0	47.5	45.0
22	BISCO - 2041	55.0	57.0	49.0	54.0	47.0	49.0	52.0	43.0	49.0	52.0	49.0	51.0	48.0	45.0
23	BISCO - 2031	55.0	57.0	49.0	54.0	47.0	49.0	52.0	43.0	49.0	52.0	49.0	51.0	48.0	45.0
24	SEEDTEC - 101	56.7	61.0	47.0	54.0	47.0	49.0	52.0	43.0	49.0	52.0	49.0	51.0	48.0	45.0
25	SEEDTEC - 133	56.7	61.0	47.0	54.0	47.0	49.0	52.0	43.0	49.0	52.0	49.0	51.0	48.0	45.0
26	S A M H - 138	56.7	61.0	47.0	54.0	47.0	49.0	52.0	43.0	49.0	52.0	49.0	51.0	48.0	45.0
27	S A M H - 182 D	56.7	61.0	47.0	54.0	47.0	49.0	52.0	43.0	49.0	52.0	49.0	51.0	48.0	45.0
28	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
29	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
30	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
31	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
32	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
33	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
34	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
35	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
36	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
37	X X I 182 K	58.0	60.0	46.0	54.8	48.0	48.5	50.5	43.0	48.8	50.5	46.0	50.3	48.0	46.8
38	MAHI KANCHAN	50.3	58.7	48.3	52.4	44.7	45.3	50.5	47.0	46.9	48.0	43.3	51.0	44.5	42.0
39	KIRAN	51.0	59.3	48.0	53.3	46.0	45.0	48.0	43.0	45.7	48.0	43.3	51.0	44.5	42.0
40	X - 3342	53.5	59.6	47.0	53.6	46.0	46.2	49.5	44.0	45.9	48.0	43.3	51.0	44.5	42.0
	MEAN LOCATION	1.6	3.0	1.9	2.2	2.0	1.2	1.5	0.3	1.2	1.2	2.3	2.8	2.3	1.4
	C.D. AT 5% =	1.8	3.1	2.4	2.2	2.6	1.9	1.5	0.3	1.2	1.2	2.3	2.8	2.3	1.4
	C.V. % =	1.00	3.00	2.00	2.2	2.00	1.00	1.00	0.00	1.00	1.00	3.00	3.95	2.00	2.00
	F (Prob)	0.00	0.00	0.02	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.05	0.00	0.00

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED		BANG PROA	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
		AMBI	ZN 3 MEAN										
1	A H	47.8	47.3	53.0	48.3	53.0	52.3	49.3	50.5	41.3	51.8	47.8	48.8
2	A H	46.5	47.9	53.7	50.3	55.0	54.7	50.6	50.3	39.0	53.0	47.6	49.1
3	A H	48.8	46.8	55.0	49.0	55.6	54.7	48.1	52.0	40.3	53.0	48.8	49.4
4	A H	48.3	46.1	55.3	49.3	51.9	52.7	47.5	47.8	43.0	49.5	48.0	49.2
5	J E	47.0	45.1	50.3	48.7	49.0	50.0	47.6	49.3	40.8	49.3	45.7	46.8
6	E E	47.0	45.4	51.8	48.3	52.0	52.0	47.9	48.3	38.2	49.8	45.9	47.1
7	E E	46.5	45.5	50.0	48.7	51.5	53.0	47.6	48.3	42.1	49.3	46.0	47.2
8	F F	47.8	45.5	50.3	48.0	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.9
9	F F	46.0	47.7	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
10	F H	49.0	47.7	52.7	48.0	52.0	53.7	48.9	50.0	40.8	50.3	47.1	48.9
11	CHH	49.5	47.7	52.7	48.0	52.0	53.7	48.9	50.0	40.8	50.3	47.1	48.9
12	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
13	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
14	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
15	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
16	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
17	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
18	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
19	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
20	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
21	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
22	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
23	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
24	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
25	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
26	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
27	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
28	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
29	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
30	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
31	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
32	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
33	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
34	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
35	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
36	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
37	BVM	46.5	46.4	50.0	48.7	50.0	54.0	48.0	49.8	40.5	50.3	46.0	47.8
38	MAH RANCHAN	47.5	46.1	51.7	46.0	49.8	52.0	48.0	50.0	43.0	50.3	47.8	47.9
39	KIRAN	46.0	46.8	52.2	51.7	48.8	52.0	48.9	48.5	40.5	50.3	46.1	47.3
40	X - 3342	46.3	47.2	52.7	46.9	49.1	52.3	49.4	48.5	41.3	51.3	46.1	47.8
	MEAN LOCATION	3.22	2.2	1.58	4.8	1.0	3.4	2.9	0.77	1.3	1.3	1.1	-
	C.D. AT 5%	4.29	1.00	1.00	6.87	1.00	3.01	2.00	1.00	2.00	1.00	1.1	-
	C.V. %	.620	.100	.000	.687	.000	.301	.200	.000	.200	.000	.11	-
	F (Prob)												

CHECKS:
 MAH RANCHAN
 KIRAN
 X - 3342
 MEAN LOCATION
 C.D. AT 5%
 C.V. %
 F (Prob)

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING				ZN 1 MEAN	DELH	LUDH	KARN	KARNP	ZN 2 MEAN	GORA BELI	VARA	DHOL	RANC	JASH
		ALMO	BAJA	KANG	ZN											
1	A H	54.7	61.7	52.0	56.1	49.3	46.8	52.0	53.0	50.3	52.3	51.7	54.0	49.0	47.5	
2	A H	53.0	63.3	51.7	57.0	50.7	47.0	55.1	46.0	48.3	49.5	53.3	53.0	50.5	49.0	
3	A H	57.0	63.0	52.3	56.8	48.0	46.0	51.0	47.0	48.0	49.0	53.0	54.0	49.0	46.0	
4	A H	53.3	62.7	52.3	55.9	48.0	46.0	51.0	48.0	49.0	49.0	54.0	54.0	52.0	48.0	
5	J E	52.7	62.0	52.3	56.3	47.3	44.0	55.0	44.0	47.0	47.0	51.0	52.0	49.0	45.0	
6	E H	51.3	63.7	54.0	56.0	47.0	45.0	51.0	46.0	47.0	48.0	49.0	52.0	48.0	45.0	
7	E H	52.0	63.0	51.0	55.6	47.0	45.0	51.0	45.0	47.0	48.0	49.0	52.0	48.0	45.0	
8	E H	51.3	63.0	51.0	55.6	47.0	45.0	51.0	45.0	47.0	48.0	49.0	52.0	48.0	45.0	
9	F P	52.0	63.0	51.0	55.6	47.0	45.0	51.0	45.0	47.0	48.0	49.0	52.0	48.0	45.0	
10	F P	52.0	63.0	51.0	55.6	47.0	45.0	51.0	45.0	47.0	48.0	49.0	52.0	48.0	45.0	
11	F H	52.0	63.0	51.0	55.6	47.0	45.0	51.0	45.0	47.0	48.0	49.0	52.0	48.0	45.0	
12	F H	52.0	63.0	51.0	55.6	47.0	45.0	51.0	45.0	47.0	48.0	49.0	52.0	48.0	45.0	
13	H K	53.3	63.0	51.0	56.7	47.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
14	CH	56.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
15	BVM	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
16	BVM	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
17	R R	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
18	R R	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
19	P P	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
20	P P	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
21	P P	55.0	63.0	52.0	56.7	49.0	46.0	52.0	47.0	49.0	52.0	53.0	54.0	50.0	47.0	
22	BISCO	56.0	64.0	52.0	57.0	49.0	47.0	53.0	48.0	51.0	54.0	55.0	56.0	51.0	48.0	
23	SEEDTEC	57.0	64.0	52.0	57.0	49.0	47.0	53.0	48.0	51.0	54.0	55.0	56.0	51.0	48.0	
24	SEEDTEC	57.0	64.0	52.0	57.0	49.0	47.0	53.0	48.0	51.0	54.0	55.0	56.0	51.0	48.0	
25	S A	55.7	64.0	52.0	57.0	49.0	47.0	53.0	48.0	51.0	54.0	55.0	56.0	51.0	48.0	
26	S A	55.7	64.0	52.0	57.0	49.0	47.0	53.0	48.0	51.0	54.0	55.0	56.0	51.0	48.0	
27	A A	54.9	63.3	50.7	56.7	47.7	45.8	55.0	45.0	48.9	51.1	53.4	55.0	49.0	46.0	
28	X X	54.9	63.3	50.7	56.7	47.7	45.8	55.0	45.0	48.9	51.1	53.4	55.0	49.0	46.0	
29	X X	56.4	63.3	50.7	56.7	47.7	45.8	55.0	45.0	48.9	51.1	53.4	55.0	49.0	46.0	
30	J J	58.0	65.7	51.0	58.0	49.0	47.0	54.0	48.0	52.0	55.0	57.0	58.0	53.0	50.0	
31	J J	58.0	65.7	51.0	58.0	49.0	47.0	54.0	48.0	52.0	55.0	57.0	58.0	53.0	50.0	
32	S S	56.0	63.7	52.0	56.0	48.0	46.0	52.0	46.0	49.0	52.0	53.0	54.0	49.0	46.0	
33	X X	58.0	63.7	52.0	56.0	48.0	46.0	52.0	46.0	49.0	52.0	53.0	54.0	49.0	46.0	
34	X X	58.0	63.7	52.0	56.0	48.0	46.0	52.0	46.0	49.0	52.0	53.0	54.0	49.0	46.0	
35	X X	55.7	64.0	52.0	56.7	49.0	47.0	53.0	48.0	51.0	54.0	55.0	56.0	51.0	48.0	
36	J H	53.7	62.0	52.0	55.7	48.0	47.0	53.0	47.0	49.0	52.0	53.0	54.0	49.0	46.0	
37	K AVERI	55.7	62.0	52.0	55.7	48.0	47.0	53.0	47.0	49.0	52.0	53.0	54.0	49.0	46.0	
CHECKS:																
38	MAHI KANCHAN	52.0	62.0	52.0	55.0	48.0	46.0	52.0	46.0	49.0	52.0	53.0	54.0	49.0	46.0	
39	KIRAN	52.0	61.7	51.0	55.0	48.0	46.0	52.0	46.0	49.0	52.0	53.0	54.0	49.0	46.0	
40	X - 3342	54.6	63.1	52.0	56.6	49.0	47.0	53.0	49.0	51.0	54.0	55.0	56.0	51.0	48.0	
MEAN LOCATION																
C.D. AT 5% =																
C.V. % =																
F (Prob)																

TABLE NO . 4 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50%		SILKING			BANG PROA	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
		AMBI	ZN 3 MEAN	HYDE	KARI	PROA										
1	A H	52.8	51.1	47.0	48.3	54.3	50.3	56.0	53.7	6.4	52.8	45.3	54.0	50.7	51.7	
2	A H	50.5	51.5	45.0	48.5	55.5	52.0	57.3	56.5	5.4	53.5	44.3	55.2	50.3	52.6	
3	A H	50.0	50.4	44.5	48.0	55.5	50.7	58.3	55.7	4.2	53.3	44.5	55.4	51.5	52.8	
4	A H	52.5	52.0	49.5	48.3	54.7	49.3	55.2	55.1	4.3	53.5	48.4	54.9	51.7	52.9	
5	J E	51.8	50.4	44.8	46.8	55.1	49.7	54.4	55.1	4.9	53.0	44.8	54.9	50.9	52.1	
6	E H	51.0	49.2	43.8	46.3	52.0	49.0	53.3	54.7	5.0	53.8	44.5	54.9	50.9	52.1	
7	E H	52.8	51.0	46.8	46.0	55.2	51.0	54.4	55.5	4.9	53.0	44.4	54.9	50.9	52.1	
8	F H	50.8	49.1	46.8	46.0	55.2	48.0	54.4	55.5	4.8	53.0	44.4	54.9	50.9	52.1	
9	F H	53.8	51.8	45.5	46.5	55.3	46.3	54.4	55.5	4.6	53.5	44.5	54.9	50.9	52.1	
10	F H	51.3	51.1	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
11	H H	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
12	BVM	53.8	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
13	BVM	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
14	BVM	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
15	R P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
16	R P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
17	R P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
18	R P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
19	R P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
20	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
21	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
22	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
23	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
24	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
25	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
26	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
27	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
28	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
29	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
30	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
31	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
32	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
33	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
34	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
35	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
36	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
37	B P	51.3	51.3	48.5	46.5	55.2	46.7	54.4	55.5	4.5	53.5	44.5	54.9	50.9	52.1	
38	MAHI KANCHAN	51.8	50.1	47.3	47.8	52.7	47.3	51.8	54.3	4.1	52.7	45.8	51.5	49.8	50.3	
39	X - 3342	50.0	50.6	46.0	47.5	53.9	49.7	52.0	55.5	5.1	50.6	44.5	51.5	48.0	51.3	
40	MEAN LOCATION	51.7	51.3	46.9	47.4	54.7	50.7	53.4	55.5	5.2	51.3	45.1	51.5	48.0	51.3	
	C.D. AT 5%	3.8	2.2	1.0	1.4	1.8	1.4	1.4	3.0	1.1	2.2	1.2	1.1	1.1	1.1	
	C.V. %	4.388	2.2	1.0	1.4	1.8	1.4	1.4	3.0	1.1	2.2	1.2	1.1	1.1	1.1	
	F (Prob)															

CHECKS:
 MAHI KANCHAN
 KIRAN
 X - 3342
 MEAN LOCATION
 C.D. AT 5%
 C.V. %
 F (Prob)

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	DAYS	TO 50% ZIN MEAN	DRY HUSK	HYDE	KARI	BANG PROA	MAND	COIM	KOLH	ZN MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
1	A H	84.5	80.0	89.5	78.8	88.0	88.3	88.7	97.8	83.0	87.6	82.5	70.8	89.0	80.8	85.0
2	A H	85.3	81.9	88.0	80.5	93.0	83.7	88.7	97.8	83.7	88.7	85.5	65.5	92.3	81.1	86.2
3	A H	82.3	82.7	89.0	80.3	93.7	82.0	88.0	99.3	84.0	89.1	84.3	68.3	89.8	83.1	87.0
4	A H	82.3	82.7	89.0	80.3	93.7	82.0	88.0	99.3	84.0	89.1	84.3	68.3	89.8	83.1	87.0
5	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
6	A H	82.4	78.8	88.0	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
7	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
8	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
9	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
10	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
11	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
12	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
13	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
14	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
15	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
16	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
17	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
18	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
19	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
20	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
21	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
22	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
23	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
24	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
25	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
26	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
27	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
28	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
29	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
30	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
31	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
32	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
33	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
34	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
35	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
36	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
37	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
38	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
39	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1
40	A H	84.0	79.4	87.7	80.0	87.0	87.3	88.9	92.8	82.3	86.6	84.0	72.0	85.0	81.1	83.1

CHECKS:
MAHI RANCHAN
KIRAN
X - 3342
MEAN LOCATION
C.D. AT 5% =
C.V. % =
F (Prob) = .970

TABLE NO . 4 (CONT.)

SL NO	PEDIGREE	EAR ASPECT *							ZN 1 MEAN	DELH	KANP	ZN 2 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN
		ALMO	BAJA	ZN 1	DELH	KANP	ZN 2	GORA BELI										
1	A H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
2	A H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
3	A H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
4	A H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
5	J H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
6	E H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
7	E H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
8	E H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
9	E H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
10	F H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
11	F H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
12	F H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
13	H H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
14	H H	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
15	BVM	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
16	BVM	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
17	R P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
18	R P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
19	P P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
20	P P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
21	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
22	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
23	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
24	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
25	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
26	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
27	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
28	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
29	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
30	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
31	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
32	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
33	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
34	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
35	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
36	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
37	B P	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
38	MAHI KANCHAN	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
39	X	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
40	X	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
	MEAN LOCATION	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
	C.D. AT 5%	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
	C.V. %	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2
	F (Prob)	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2

TABLE NO . 4 (CONT.)

Sl No	PEDIGREE	EAR ASPECT *										OV'L MEAN
		HYDE	KARI	MAND	KOLH	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN		
1	A H - 24007	2.5	2.0	2.0	2.0	2.2	2.3	2.2	1.0	1.5	1.8	2.5
2	A H - 24012	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
3	A H - 23015	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
4	A H - 23041	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
5	A H - 31005	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
6	J E H - 1265	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
7	E H - 1297	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
8	E H - 1318	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
9	E H - 13159	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
10	E H - 3239	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
11	F H - 3246	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
12	H K - 1176	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
13	CHH - 210	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
14	BVM - 5 COMP.	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
15	BVM - 6 COMP.	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
16	R - 03/702	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
17	R - 361	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
18	R - 20171	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
19	P I O - 138	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
20	P I O - 2435	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
21	BISCO - 1881	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
22	BISCO - 2041	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
23	SEEDTEC - 2031	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
24	SEEDTEC - 101	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
25	S G M H - 133	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
26	S A M H - 138	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
27	A A M H - 182 D	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
28	X X - 1701	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
29	X X - 062	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
30	K M H - 15	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
31	J J K S - 2098	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
32	M S F - 612	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
33	X X - 2097	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
34	X X - 2020	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
35	KAVERI - 31036	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
36	J H - 31036	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
37	CHECKS:	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
38	MAHI KANCHAN	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
39	KIRAN	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
40	X - 3342	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
	MEAN LOCATION	16.6	20.9	31.1	17.0	22.0	22.7	22.4	22.2	22.2	22.2	22.2
	C.D. AT 5% =	1.9	2.084	3.161	1.000	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	C.V. % =	16.70	20.84	31.61	17.00	22.00	22.70	22.40	22.20	22.20	22.20	22.20
	F (Prob)	19.10	20.84	31.61	17.00	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TABLE NO . 4 (CONT..)

Sl NO	PEDIGREE	HUSK COVER *		UNIFORMITY *					ZN 1 MEAN		ZN 2 KANP	GORA BELI	VARA	DHOL
		UDAI	BANS	ALMO	BAJA	OV'L MEAN	ZN 5 MEAN	ZN 1 MEAN	ZN 1 MEAN					
1	A H	2	4	2	2	7	5	2	6	3	4	2	0	3
2	A H	2	1	2	2	6	4	2	2	3	2	2	1	2
3	A H	2	3	2	2	6	4	2	2	3	2	2	1	3
4	A H	2	4	2	2	6	4	2	2	3	2	2	1	2
5	J E	2	6	2	2	6	5	2	2	3	2	2	1	3
6	E E	2	1	2	2	6	3	2	2	3	2	2	1	2
7	E E	2	3	2	2	6	3	2	2	3	2	2	1	3
8	E E	2	4	2	2	6	3	2	2	3	2	2	1	2
9	E E	2	3	2	2	6	3	2	2	3	2	2	1	3
10	F H	2	1	2	2	6	3	2	2	3	2	2	1	2
11	F H	2	3	2	2	6	3	2	2	3	2	2	1	3
12	H H	2	1	2	2	6	3	2	2	3	2	2	1	2
13	CHH	2	3	2	2	6	3	2	2	3	2	2	1	3
14	BVM	3	1	2	2	6	3	2	2	3	2	2	1	2
15	BVM	3	4	2	2	6	3	2	2	3	2	2	1	3
16	R P	2	3	2	2	6	3	2	2	3	2	2	1	2
17	R P	2	8	2	2	6	3	2	2	3	2	2	1	3
18	R R	2	1	2	2	6	3	2	2	3	2	2	1	2
19	P I	2	3	2	2	6	3	2	2	3	2	2	1	3
20	P M	2	0	2	2	6	3	2	2	3	2	2	1	2
21	BISCO	2	1	2	2	6	3	2	2	3	2	2	1	2
22	BISCO	2	1	2	2	6	3	2	2	3	2	2	1	2
23	SEEDTEC	2	0	2	2	6	3	2	2	3	2	2	1	2
24	SEEDTEC	2	0	2	2	6	3	2	2	3	2	2	1	2
25	G M	2	1	2	2	6	3	2	2	3	2	2	1	2
26	M H	2	9	2	2	6	3	2	2	3	2	2	1	3
27	M H	2	0	2	2	6	3	2	2	3	2	2	1	2
28	A A	2	8	2	2	6	3	2	2	3	2	2	1	3
29	A A	2	1	2	2	6	3	2	2	3	2	2	1	2
30	X X	2	3	2	2	6	3	2	2	3	2	2	1	3
31	K K	2	3	2	2	6	3	2	2	3	2	2	1	3
32	K K	2	3	2	2	6	3	2	2	3	2	2	1	3
33	M S	2	3	2	2	6	3	2	2	3	2	2	1	3
34	S S	2	0	2	2	6	3	2	2	3	2	2	1	2
35	X X	2	5	2	2	6	3	2	2	3	2	2	1	3
36	X X	2	6	2	2	6	3	2	2	3	2	2	1	3
37	KAVERI	2	0	2	2	6	3	2	2	3	2	2	1	2
38	J H	2	3	2	2	6	3	2	2	3	2	2	1	3
39	CHECKS:	2	6	2	2	6	3	2	2	3	2	2	1	3
40	MAHI KANCHAN	2	3	2	2	6	3	2	2	3	2	2	1	3
	KIRAN	2	4	2	2	6	3	2	2	3	2	2	1	3
	X - 3342	2	2	2	2	6	3	2	2	3	2	2	1	3
	MEAN LOCATION	2	0	2	2	6	3	2	2	3	2	2	1	2
	C.D. AT 5% =	2	4	2	2	6	3	2	2	3	2	2	1	3
	C.V. % =	12.3	11.8	2	2	6	3	2	2	3	2	2	1	3
	F (Prob)	.000	.416	2	2	6	3	2	2	3	2	2	1	3

TABLE NO . 4 (CONT..)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)										ZN 1 MEAN	DELH	LUDH	KARN	KANP	ZN 2 MEAN	GORA BELI	VARA	DHOL	RANC
		ALMO	BAJA	KANG	ZN 1	DELH	LUDH	KARN	KANP	ZN 2	GORA BELI										
1	A H	194	167	196	185	223	173	185	173	173	173	173	173	173	173	173	173	173	173	173	173
2	A H	211	152	192	185	195	190	190	185	185	185	185	185	185	185	185	185	185	185	185	185
3	A H	198	163	210	190	213	185	190	185	185	185	185	185	185	185	185	185	185	185	185	185
4	A H	236	160	208	202	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203
5	A H	232	147	212	195	205	188	195	186	186	186	186	186	186	186	186	186	186	186	186	186
6	J E	215	151	218	202	208	181	194	193	193	193	193	193	193	193	193	193	193	193	193	193
7	E E	224	155	227	194	208	170	184	175	175	175	175	175	175	175	175	175	175	175	175	175
8	E E	207	165	212	189	210	179	184	175	175	175	175	175	175	175	175	175	175	175	175	175
9	F F	210	154	189	184	178	166	170	183	183	183	183	183	183	183	183	183	183	183	183	183
10	F F	238	143	196	190	178	169	180	183	183	183	183	183	183	183	183	183	183	183	183	183
11	F F	228	152	211	197	213	170	185	180	180	180	180	180	180	180	180	180	180	180	180	180
12	H H	194	193	211	189	213	170	185	180	180	180	180	180	180	180	180	180	180	180	180	180
13	CHH	234	182	224	212	200	188	200	210	210	210	210	210	210	210	210	210	210	210	210	210
14	BVM	230	182	224	212	200	188	200	210	210	210	210	210	210	210	210	210	210	210	210	210
15	BVM	235	165	229	198	223	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186
16	R P	222	162	205	196	198	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189
17	R O	220	157	205	196	198	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189
18	R O	210	146	195	191	195	177	195	190	190	190	190	190	190	190	190	190	190	190	190	190
19	P R	216	163	211	198	185	173	195	190	190	190	190	190	190	190	190	190	190	190	190	190
20	P R	223	171	205	196	198	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189
21	MISCO	210	146	195	191	195	177	195	190	190	190	190	190	190	190	190	190	190	190	190	190
22	BISCO	216	163	211	198	185	173	195	190	190	190	190	190	190	190	190	190	190	190	190	190
23	SEEDTEC	240	171	205	196	198	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189
24	SEEDTEC	238	163	211	198	185	173	195	190	190	190	190	190	190	190	190	190	190	190	190	190
25	S G	226	154	201	198	200	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189
26	S G	234	163	208	198	203	188	193	190	190	190	190	190	190	190	190	190	190	190	190	190
27	A A	209	175	224	203	208	185	195	195	195	195	195	195	195	195	195	195	195	195	195	195
28	A A	252	180	203	212	208	183	193	190	190	190	190	190	190	190	190	190	190	190	190	190
29	X X	201	145	181	176	178	170	185	185	185	185	185	185	185	185	185	185	185	185	185	185
30	X X	212	149	193	191	195	178	190	190	190	190	190	190	190	190	190	190	190	190	190	190
31	J K	222	174	219	207	210	181	195	195	195	195	195	195	195	195	195	195	195	195	195	195
32	J K	244	160	217	207	205	183	198	198	198	198	198	198	198	198	198	198	198	198	198	198
33	S S	236	164	219	207	205	183	198	198	198	198	198	198	198	198	198	198	198	198	198	198
34	X X	218	156	217	197	193	180	188	188	188	188	188	188	188	188	188	188	188	188	188	188
35	X X	236	164	219	207	205	183	198	198	198	198	198	198	198	198	198	198	198	198	198	198
36	X X	217	157	219	197	193	180	188	188	188	188	188	188	188	188	188	188	188	188	188	188
37	J H	227	168	211	202	185	165	193	193	193	193	193	193	193	193	193	193	193	193	193	193
CHECKS:																					
38	MAHI KANCHAN	242	166	221	210	245	179	203	177	201	201	184	188	188	218	162	184	184	184	184	184
39	KIRAN	218	166	218	201	225	180	193	173	195	195	183	194	194	215	162	184	184	184	184	184
40	X - 3342	222	162	200	195	238	215	198	196	212	212	196	196	196	238	173	184	184	184	184	184
MEAN LOCATION																					
C.D. AT 5% =																					
C.V. % =																					
F (Prob) =																					

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)		BANG PROA	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
		JASH AMBI	ZN 3 MEAN										
1	A H	150	180	229	199	129	192	182	183	201	191	192	185
2	A H	146	186	228	189	150	168	170	185	183	184	184	183
3	A H	145	185	223	187	137	165	160	185	181	183	183	176
4	A H	142	184	221	187	139	167	173	189	190	190	184	179
5	A H	145	187	220	199	146	165	166	188	161	185	178	179
6	E H	132	174	228	189	157	172	174	194	184	185	184	185
7	E H	147	190	219	198	137	176	172	178	181	183	183	177
8	E H	141	173	222	193	151	163	166	189	200	178	175	173
9	F H	134	172	209	179	146	178	170	160	159	189	181	178
10	F H	134	191	236	198	138	180	178	180	178	191	183	185
11	F H	134	174	227	197	167	202	189	180	196	191	183	181
12	F H	134	192	217	200	143	187	189	190	178	191	183	185
13	CHH	155	197	232	203	152	195	196	185	199	211	201	198
14	BVM	142	175	242	186	147	168	176	196	203	209	194	195
15	BVM	133	180	222	196	154	178	175	186	181	193	186	187
16	R R	133	188	227	196	146	198	181	190	183	184	185	185
17	R R	136	178	241	198	134	172	181	175	183	188	183	184
18	P P	137	188	235	208	167	157	180	185	180	188	184	187
19	B M	137	178	239	196	138	173	179	191	170	186	198	187
20	B M	156	186	237	196	152	197	187	185	211	190	198	184
21	B M	134	182	232	203	166	172	173	195	175	185	182	187
22	B M	137	184	233	199	146	190	182	189	168	189	183	193
23	B M	134	191	246	201	160	192	187	195	189	195	182	187
24	B M	155	198	248	199	146	190	190	185	185	195	193	194
25	B M	165	198	252	206	158	177	186	200	209	205	210	206
26	B M	133	187	218	199	142	168	173	185	198	178	173	185
27	B M	147	197	237	202	160	177	187	185	195	178	179	181
28	B M	142	195	247	201	154	187	185	190	175	178	190	187
29	B M	146	188	233	188	144	165	186	185	201	204	203	190
30	B M	151	185	233	198	147	185	174	178	176	196	183	181
31	B M	122	173	213	198	150	178	184	180	208	171	185	178
32	B M	145	185	238	192	128	178	173	185	175	181	180	183
33	B M	137	178	241	203	130	185	184	190	188	184	185	185
34	B M	142	182	230	197	148	180	186	189	185	190	188	185
35	B M	151	182	233	194	144	185	177	185	190	196	185	181
36	B M	122	173	213	198	150	178	184	180	208	171	185	178
37	B M	138	176	213	200	147	185	174	175	173	189	180	183
38	MAHI KANCHAN	145	185	238	192	128	178	173	185	175	181	180	187
39	X	137	178	241	203	130	185	184	190	188	184	185	185
40	X	142	182	230	197	148	180	186	189	185	190	188	185
	MEAN	142	182	230	197	148	180	186	189	185	190	188	185
	LOCATION	5.6	19.1	18.9	19.4	8.6	33.9	16.6	10.8	28.4	14.0	17.8	-
	C.D. AT 5%	2.8	3.4	5.0	6.26	4.1	11.6	-	4.1	11.00	5.00	-	-
	C.V. %	2.00	3.00	5.00	6.26	4.1	11.6	-	4.1	11.00	5.00	-	-
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.276	-	0.00	0.00	0.00	-	-

TABLE NO . 4 (CONT.)

SL NO	PEDIGREE	ALMO	BAJA	KANG	ZN MEAN	DELH	LUDH	KARN	KANP	ZN 2 MEAN	GORA BELI	VARA	DHOL	RANC
1	A H 24007	95	88	103	95	93	96	98	91	94	96	83	86	83
2	A H 24012	109	69	114	91	85	100	100	102	98	98	77	85	91
3	A H 23041	125	63	110	102	108	105	115	102	106	96	105	88	88
4	A H 31005	111	59	112	98	88	94	90	50	81	98	75	71	85
5	J H 12977	115	67	112	109	108	104	100	108	109	99	80	86	88
6	J H 13159	103	77	119	88	80	108	03	88	30	105	88	76	78
7	J H 32339	97	58	126	88	65	69	55	57	75	70	53	62	98
8	F H 32246	116	69	105	97	103	91	85	77	69	81	30	74	88
9	F H 32246	116	69	105	97	103	91	85	77	69	81	30	74	88
10	H 210	116	69	105	97	103	91	85	77	69	81	30	74	88
11	H 210	116	69	105	97	103	91	85	77	69	81	30	74	88
12	CHH	116	69	105	97	103	91	85	77	69	81	30	74	88
13	BVM	122	94	129	96	120	94	85	67	89	91	30	74	88
14	BR	112	89	124	112	98	101	115	103	104	104	20	88	78
15	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
16	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
17	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
18	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
19	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
20	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
21	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
22	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
23	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
24	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
25	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
26	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
27	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
28	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
29	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
30	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
31	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
32	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
33	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
34	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
35	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
36	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
37	RR	112	89	124	112	98	101	115	103	104	104	20	88	78
38	MAHI KANCHAN	127	82	115	108	123	94	115	92	106	98	87	74	83
39	KIRAN	113	73	101	93	108	98	110	87	104	102	87	78	81
40	X - 3342	106	71	109	97	89	110	110	83	104	91	81	86	81
	MEAN LOCATION	112	16	109	14.5	15.4	14.2	14.1	8.1	12.9	13.2	24.4	17.2	12.5
	C.D. AT 5% =	9.9	13.8	18.3	-	15.0	11.0	14.1	4.0	-	10.0	18.0	16.0	17.0
	C.V. % =	4.0	13.8	18.3	-	15.0	11.0	14.1	4.0	-	10.0	18.0	16.0	17.0
	F (Prob)	4.0	13.8	18.3	-	15.0	11.0	14.1	4.0	-	10.0	18.0	16.0	17.0

TABLE NO . 4 (CONT.)

SL NO	PEDIGREE	EAR HEIGHT (CM)	JASH AMBI	ZN 3 MEAN	HYDE KARI	BANG PROA	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
1	A 24007	64	79	82	75	97	86	60	103	79	74	104	94	90	88
2	A 24012	55	85	88	61	95	44	76	89	76	85	103	103	98	88
3	A 23015	60	77	88	64	88	46	70	88	77	99	99	89	90	88
4	A 31005	55	84	80	73	89	33	73	87	76	99	97	89	95	84
5	J 5566	55	81	78	58	82	56	67	102	77	88	115	83	88	88
6	E 5534	46	77	86	55	89	60	67	88	70	87	94	88	80	77
7	F 5536	46	77	86	55	89	60	67	88	70	87	94	88	80	77
8	F 5546	46	77	86	55	89	60	67	88	70	87	94	88	80	77
9	F 5532	46	77	86	55	89	60	67	88	70	87	94	88	80	77
10	F 5533	46	77	86	55	89	60	67	88	70	87	94	88	80	77
11	H 210	55	78	77	59	86	23	74	99	72	85	94	88	80	77
12	H 211	55	78	77	59	86	23	74	99	72	85	94	88	80	77
13	H 212	55	78	77	59	86	23	74	99	72	85	94	88	80	77
14	H 213	55	78	77	59	86	23	74	99	72	85	94	88	80	77
15	H 214	55	78	77	59	86	23	74	99	72	85	94	88	80	77
16	H 215	55	78	77	59	86	23	74	99	72	85	94	88	80	77
17	H 216	55	78	77	59	86	23	74	99	72	85	94	88	80	77
18	H 217	55	78	77	59	86	23	74	99	72	85	94	88	80	77
19	H 218	55	78	77	59	86	23	74	99	72	85	94	88	80	77
20	H 219	55	78	77	59	86	23	74	99	72	85	94	88	80	77
21	H 220	55	78	77	59	86	23	74	99	72	85	94	88	80	77
22	H 221	55	78	77	59	86	23	74	99	72	85	94	88	80	77
23	H 222	55	78	77	59	86	23	74	99	72	85	94	88	80	77
24	H 223	55	78	77	59	86	23	74	99	72	85	94	88	80	77
25	H 224	55	78	77	59	86	23	74	99	72	85	94	88	80	77
26	H 225	55	78	77	59	86	23	74	99	72	85	94	88	80	77
27	H 226	55	78	77	59	86	23	74	99	72	85	94	88	80	77
28	H 227	55	78	77	59	86	23	74	99	72	85	94	88	80	77
29	H 228	55	78	77	59	86	23	74	99	72	85	94	88	80	77
30	H 229	55	78	77	59	86	23	74	99	72	85	94	88	80	77
31	H 230	55	78	77	59	86	23	74	99	72	85	94	88	80	77
32	H 231	55	78	77	59	86	23	74	99	72	85	94	88	80	77
33	H 232	55	78	77	59	86	23	74	99	72	85	94	88	80	77
34	H 233	55	78	77	59	86	23	74	99	72	85	94	88	80	77
35	H 234	55	78	77	59	86	23	74	99	72	85	94	88	80	77
36	H 235	55	78	77	59	86	23	74	99	72	85	94	88	80	77
37	H 236	55	78	77	59	86	23	74	99	72	85	94	88	80	77
38	H 237	55	78	77	59	86	23	74	99	72	85	94	88	80	77
39	H 238	55	78	77	59	86	23	74	99	72	85	94	88	80	77
40	H 239	55	78	77	59	86	23	74	99	72	85	94	88	80	77

1701
 1062
 15
 2098
 61097
 2020
 31036
 CHECKS:
 MAHI KANCHAN
 KIRAN
 X - 3
 MEAN LOCATION
 C.D. AT 5%
 C.V. (Prob)

TABLE NO . 4 (CONT.)

SL NO	PEDIGREE	EAR No. / PLANT		H. turcicum										OV'I MEAN	ZN 1 MEAN	ZN 4 KOLH	OV'I MEAN		
		BANG PROA	MAND	KOLH	UDAI	BANS	CHHI	OV'I MEAN	ALMO	BAJA	ZN 1 MEAN	ZN 4 KOLH							
1	A H H	0	97	0	97	0	92	0	74	0	92	0	88	1	75	1	22	3	4
2	A H H	1	98	0	98	0	93	0	97	0	97	0	85	1	57	1	22	2	0
3	A H H	1	93	0	92	0	85	0	88	0	92	0	88	1	12	1	22	2	9
4	A H H	1	99	0	99	0	85	0	88	0	97	0	88	1	7	1	22	2	5
5	A H H	1	91	0	92	0	84	0	84	0	97	0	84	1	5	1	22	2	2
6	E E E	1	99	0	95	0	72	0	81	0	99	0	81	1	7	1	22	2	5
7	E E E	1	97	0	95	0	72	0	81	0	99	0	81	1	7	1	22	2	5
8	E E E	1	99	0	93	0	84	0	84	0	99	0	84	1	7	1	22	2	5
9	E E E	1	98	0	93	0	84	0	84	0	99	0	84	1	7	1	22	2	5
10	E E E	1	98	0	93	0	84	0	84	0	99	0	84	1	7	1	22	2	5
11	F F H	1	97	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
12	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
13	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
14	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
15	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
16	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
17	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
18	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
19	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
20	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
21	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
22	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
23	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
24	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
25	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
26	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
27	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
28	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
29	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
30	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
31	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
32	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
33	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
34	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
35	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
36	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
37	F F H	1	98	0	97	0	85	0	85	0	99	0	85	1	7	1	22	2	6
38	MAHI KANCHAN	0	98	1	96	0	98	0	7	0	99	0	4	1	5	1	22	2	6
39	X - 342	0	95	1	96	0	98	0	7	0	99	0	4	1	5	1	22	2	6
40	MEAN LOCATION C.V. AT 5% (Prob)	0	91	1	96	0	98	0	7	0	99	0	4	1	5	1	22	2	6

TABLE NO . 4 (CONT.)

SI NO	PEDIGREE	STAND GORA BELI	VARA	AT HARVEST	DHOL	RANC	JASH	AMBI	HYDE	KARI	BANG PROA	MAND	COIM	KOLH	UDAI	BANS	CHHI	OV'L MEAN
1	A H	37	38	40	2	0	7	37	38	7	0	39	20	50	41	4	33	23
2	A H	33	57	40	2	29	28	33	34	3	4	33	12	54	5	3	37	30
3	A H	36	78	40	2	29	29	33	43	3	3	34	22	50	4	3	33	30
4	A H	33	49	40	2	28	27	33	35	4	3	33	22	48	2	3	33	30
5	A H	34	39	40	2	28	28	33	36	4	3	33	22	56	2	3	33	30
6	A H	32	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
7	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
8	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
9	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
10	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
11	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
12	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
13	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
14	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
15	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
16	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
17	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
18	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
19	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
20	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
21	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
22	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
23	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
24	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
25	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
26	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
27	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
28	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
29	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
30	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
31	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
32	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
33	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
34	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
35	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
36	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
37	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
38	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
39	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30
40	A H	33	49	40	2	28	27	33	36	4	3	33	22	56	2	3	33	30

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

176
 COMP.
 COMP.
 03/7021
 3621
 20171
 1385
 14881
 2031
 201
 133
 133
 133
 1701
 062
 15
 2098
 61297
 2020
 31036
 CHECKS:
 MAHL KANCHAN
 KIRAN 342
 MEAN LOCATION
 C.D. AT 5# =
 C.V. % =
 F (Prob)

TABLE NO. 5

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, UMIA BARAPANI, DELHI, LUDHIANA, KARNAL, PANTNAGAR, BELIPAR GORAKHPUR, VARANASI, DEOLI, RANCHI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, BANSWARA, CHHINDIWARA IN IET TRIAL NO. TR64 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											
		ALMO			BAJA			UMIA			RAN		
		R	R	R	R	R	R	R	R	R	R	R	R
1	A H - 23021	7923	7	7485	3	4009	7	6472	7	6472	7	6472	7
2	A H - 23025	8796	3	5774	8	5060	3	6543	6	6543	6	6543	6
3	A H - 23029	8592	5	7145	6	4461	4	6733	4	6733	4	6733	4
4	A H - 23035	8520	6	7297	5	4379	5	6732	5	6732	5	6732	5
5	A H - 23039	8707	4	7753	2	5195	2	7219	3	7219	3	7219	3
6	F H - 3211	10412	1	7445	4	4052	6	7303	2	7303	2	7303	2
7	DEH - 10103	6455	13	5005	11	2266	13	4575	13	4575	13	4575	13
8	DEH - 10303	6553	11	4775	13	2733	11	4687	11	4687	11	4687	11
9	DEH - 10503	6716	10	4519	14	2756	9	4664	12	4664	12	4664	12
10	DEH - 11303	6308	14	4459	15	1750	15	4172	15	4172	15	4172	15
11	H K H - 1183	6477	12	5773	9	2176	14	4809	10	4809	10	4809	10
12	BVM - 7 COMP.	7527	8	5000	12	3164	8	5230	8	5230	8	5230	8
13	J K M H - 204-1	10079	2	9244	1	5579	1	8301	1	8301	1	8301	1
CHECKS:													
14	SURYA	5788	15	5324	10	2502	12	4538	14	4538	14	4538	14
15	HIM - 129	6734	9	5936	7	2747	10	5139	9	5139	9	5139	9
	MEAN YIELD=	7706		6196		3522		5808		5808		5808	
	MEAN STAND	22		36		23		27		27		27	
	C.D. AT 5% =	1002		1224		1117		1114		1114		1114	
	C.V. % =	9.12		11.83		22.26		-		-		-	
	F (Prob)	.000		.000		.000		-		-		-	
	PLOT SIZE=	3.60		4.80		6.00		-		-		-	
AGRONOMY DATA:													
	SOWING DATE (2003)	9-07		30-06		4-08		-		-		-	
	HARVEST DATE (2003)	3-11		18-10		14-11		-		-		-	
	IRRIGATION Nos	-		-		-		-		-		-	
	FERTILIZER APPLIED N	80		90		80		-		-		-	
	P	60		45		40		-		-		-	
	K	40		30		20		-		-		-	

LOCATIONS REJECTED DUE TO LOW YIELD (i.e. < 1000 kg/ha) : GODH 729 kg/ha

TABLE NO. 5 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 2	
		DELH	R	LUDH	R	KARN	R	PANT	R	MEAN	R				
1	A H - 23021	2827	13	6637	2	5366	7	2400	14	4308	6				
2	A H - 23025	2941	11	5560	6	6505	2	2638	10	4411	4				
3	A H - 23029	3425	4	5142	7	6127	3	2404	13	4274	7				
4	A H - 23035	3219	7	5652	5	6082	4	2832	5	4446	2				
5	A H - 23039	2754	14	5987	3	5905	5	3014	2	4415	3				
6	F H - 3211	3561	3	5737	4	5496	6	2654	9	4362	5				
7	DEH - 10103	3330	6	3961	13	5094	9	2576	8	3765	10				
8	DEH - 10303	3048	10	4429	10	4730	12	2523	12	3682	12				
9	DEH - 10503	2925	12	4184	11	4593	14	2592	11	3574	13				
10	DEH - 11303	3157	8	3697	14	5258	8	2866	4	3745	11				
11	H K H - 1183	4248	1	4798	9	4682	13	2677	7	4101	8				
12	BVM - 7 COMP.	3340	5	4946	8	4783	11	2394	15	3866	9				
13	J K M H - 204-1	3653	2	6721	1	6779	1	3109	1	5066	1				
CHECKS:															
14	SURYA	3140	9	4044	12	3677	15	2746	6	3402	15				
15	HIM - 129	2665	15	3677	15	4842	10	2902	3	3521	14				
	MEAN YIELD=	3216		5012		5328		2695		4063					
	MEAN STAND	31		37		28		22		29					
	C.D. AT 5%	1387		1070		158		1065		920					
	C.V. %	25.83		14.98		1.77		27.73		-					
	F (Prob)	.560		.000		.000		.948		-					
	PLOT SIZE=	7.50		5.20		5.60		7.50		-					
AGRONOMY DATA:															
	SOWING DATE (2003)	8-07		9-07		30-06		8-07		-					
	HARVEST DATE (2003)	18-10		16-10		1-10		9-10		-					
	IRRIGATION NOS	-		-		-		-		-					
	FERTILIZER APPLIED N	120		80		150		120		-					
	P	80		40		60		60		-					
	K	40		-		-		-		-					

TABLE NO. 5 (CONT.)

SI		GRAIN YIELD (kg/ha) AT 15% MOISTURE																		ZN 3	
NO PEDIGREE		GORA																		MEAN	
		BELI	R	VARA	R	DHOL	R	RANC	R	KUSH	R	JASH	R	AMBI	R		R				
1	A H - 23021	6039	1	3595	7	4686	3	3533	6	2273	2	4036	3	4652	7	4116	3				
2	A H - 23025	4993	5	3049	12	3551	11	3225	10	2478	1	3330	6	4749	5	3625	7				
3	A H - 23029	5387	4	3883	6	4326	6	3468	8	2245	3	4488	1	4262	11	4008	4				
4	A H - 23035	4484	6	4812	2	4299	7	3084	12	2042	5	2678	12	4161	12	3652	6				
5	A H - 23039	5556	3	4111	4	5625	2	3194	11	1724	11	4256	2	5767	2	4319	2				
6	F H - 3211	3890	12	3199	10	4517	4	4034	1	1813	9	3008	9	4885	4	3621	8				
7	DEH - 10103	4047	9	3035	13	3443	13	2916	15	1818	8	2148	15	4001	14	3059	15				
8	DEH - 10303	3998	11	3304	8	3751	9	3084	13	1689	13	2487	13	4640	8	3279	11				
9	DEH - 10503	3426	15	3014	14	3606	10	3535	5	1786	10	2362	14	4689	6	3203	13				
10	DEH - 11303	3430	14	4041	5	3266	15	3330	9	2040	6	2692	11	4141	13	3277	12				
11	H K H - 1183	4036	10	3210	9	3906	8	3598	4	1530	14	3258	8	3834	15	3339	9				
12	BVM - 7 COMP.	4267	7	4866	1	4420	5	3727	3	1701	12	3755	5	4893	3	3947	5				
13	J K M H - 204-1	5752	2	4344	3	6758	1	3821	2	1489	15	3872	4	6387	1	4632	1				
CHECKS:																					
14	SURYA	4085	8	3127	11	3341	14	2960	14	2090	4	3297	7	4395	10	3328	10				
15	HIM - 129	3531	13	2501	15	3476	12	3497	7	1824	7	2848	10	4425	9	3158	14				
	MEAN YIELD=	4461		3606		4198		3400		1903		3234		4659		3637					
	MEAN STAND	36		36		-		30		37		30		33		34					
	C.D. AT 5%=	416		301		952		304		777		286		987		575					
	C.V. % =	6.55		5.00		15.90		5.35		28.64		6.20		14.86		-					
	F (Prob)	.000		.000		.000		.025		.761		.000		.000		-					
	PLOT SIZE=	6.00		7.50		7.50		7.00		7.50		6.00		6.00		-					
AGRONOMY DATA:																					
	SOWING DATE(2003)	30-06		1-07		6-07		7-07		7-07		9-07		30-06		-					
	HARVEST DATE(2003)	9-10		29-09		23-10		14-10		22-10		20-10		-		-					
	IRRIGATION NOS	-		-		-		1		-		-		-		-					
	FERTILIZER APPLIED	N	120	80		100		100		120		120		80		-					
		P	60	40		60		60		60		60		50		-					
		K	60	40		40		40		40		60		30		-					

TABLE NO. 5 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
		HYDE	R	KARI	R	MAND	R	COIM	R	KOLH	R	MEAN	R		
1	A H - 23021	3427	11	5059	10	5638	11	2276	12	5790	1	4438	10		
2	A H - 23025	3662	8	5394	8	7181	3	2775	6	5551	2	4913	4		
3	A H - 23029	3174	12	6779	3	5550	12	3585	2	5212	4	4860	5		
4	A H - 23035	4547	2	5735	6	6767	4	2349	11	4748	8	4829	6		
5	A H - 23039	3562	9	6334	5	8044	2	2663	7	4485	13	5018	3		
6	F H - 3211	3963	4	6869	2	6658	6	2404	9	5338	3	5046	2		
7	DEH - 10103	2792	14	4673	13	6292	7	2868	5	5181	5	4361	11		
8	DEH - 10303	3800	5	6578	4	5370	14	2932	4	4420	14	4620	8		
9	DEH - 10503	3968	3	4709	12	5519	13	2378	10	4597	11	4234	12		
10	DEH - 11303	3483	10	4602	15	5669	10	1999	14	4639	10	4078	14		
11	H K H - 1183	3751	6	5188	9	6692	5	1904	15	3595	15	4226	13		
12	BVM - 7 COMP.	5343	1	5691	7	6162	8	2012	13	4727	9	4787	7		
13	J K M H - 204-1	2956	13	8421	1	9426	1	3851	1	5125	6	5956	1		
CHECKS:															
14	SURYA	2091	15	4624	14	4074	15	2650	8	4591	12	3606	15		
15	HIM - 129	3705	7	4992	11	6119	9	3230	3	4785	7	4566	9		
	MEAN YIELD=	3615		5710		6344		2658		4852		4636			
	MEAN STAND	33		38		36		21		48		35			
	C.D. AT 5% =	465		1338		1551		325		1881		1112			
	C.V. % =	9.02		16.44		14.64		8.57		23.21		-			
	F (Prob)	.000		.000		.000		.000		.562		-			
	PLOT SIZE=	7.50		6.00		7.00		4.80		5.00		-			
AGRONOMY DATA:															
	SOWING DATE (2003)	11-08		17-07		4-08		11-07		8-07		-			
	HARVEST DATE (2003)	17-11		20-10		6-12		27-10		17-10		-			
	IRRIGATION Nos	7		1		8		7		8		-			
	FERTILIZER APPLIED N	120		150		150		135		100		-			
	P	60		60		75		63		50		-			
	K	40		40		40		50		30		-			

TABLE NO. 5 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L	
		UDAI	R	BANS	R	CHHI	R	ZN 5	MEAN	R	MEAN	R	MEAN	R	
1	A H - 23021	4578	4	4363	1	7169	4	5370	4	4716	5				
2	A H - 23025	3554	7	2934	8	7159	5	4549	6	4585	7				
3	A H - 23029	3837	6	2577	13	6888	6	4434	7	4680	6				
4	A H - 23035	6042	1	3734	4	6717	7	5498	3	4735	4				
5	A H - 23039	5339	2	3916	2	7657	3	5637	1	5070	2				
6	F H - 3211	4466	5	2098	15	7687	2	4750	5	4736	3				
7	DEH - 10103	3226	9	3759	3	4814	12	3933	9	3809	12				
8	DEH - 10303	2315	14	3431	5	5106	11	3617	12	3895	10				
9	DEH - 10503	1915	15	2779	11	4792	13	3162	15	3698	14				
10	DEH - 11303	2761	12	3186	7	4634	15	3527	13	3700	13				
11	H K H - 1183	2798	11	2900	9	5580	9	3759	10	3937	9				
12	BVM - 7 COMP.	2961	10	2815	10	6614	8	4130	8	4323	8				
13	J K M H - 204-1	4781	3	3317	6	8430	1	5509	2	5632	1				
CHECKS:															
14	SURYA	2447	13	2633	12	4651	14	3244	14	3558	15				
15	HIM - 129	3298	8	2421	14	5146	10	3622	11	3877	11				
	MEAN YIELD=	3621		3124		6203		4316		4330					
	MEAN STAND	38		27		37		34		32					
	C.D. AT 5% =	578		659		832		689		849					
	C.V. % =	11.20		14.80		9.41		-		-					
	F (Prob) =	.000		.000		.000		-		-					
	PLOT SIZE=	6.00		6.00		5.60		-		-					
AGRONOMY DATA:															
	SOWING DATE(2003)	3-07		3-07		27-06		-		-					
	HARVEST DATE(2003)	12-10		15-10		21-10		-		-					
	IRRIGATION NOS	-		-		-		-		-					
	FERTILIZER APPLIED N	90		80		100		-		-					
	P	60		60		50		-		-					
	K	-		-		30		-		-					

TABLE NO. 5 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE SURYA												
SI NO	PEDIGREE	ALMO	BAJA	UMIA	ZN 1 MEAN	DELH	LUJDH	KARN	PANT	ZN 2 MEAN		
1	A H - 23021	36.88	40.59	60.20	42.62	-	64.12	45.97	-	26.64		
2	A H - 23025	51.95	8.44	102.20	44.17	-	37.48	76.94	-	29.68		
3	A H - 23029	48.44	34.20	78.29	48.36	9.07	27.16	66.65	-	25.66		
4	A H - 23035	47.19	37.05	74.98	48.33	2.50	39.77	65.44	3.16	30.72		
5	A H - 23039	50.43	45.61	107.62	59.06	-	48.04	60.62	9.76	29.79		
6	F H - 3211	79.87	39.83	61.91	60.91	13.40	41.88	49.50	-	28.25		
7	DEH - 10103	11.51	-	9.20	0.82	6.04	9.53	38.55	-	10.70		
8	DEH - 10303	13.21	-	10.12	3.27	-	3.47	24.94	-	8.26		
9	DEH - 10503	16.02	-	-	2.76	-	-	43.00	4.40	5.06		
10	DEH - 11303	8.99	-	-	-	0.55	-	27.34	-	10.09		
11	H K H - 1183	11.90	8.43	26.45	5.96	35.29	18.66	30.10	-	20.58		
12	BVM - 7 COMP.	30.05	73.62	122.96	15.25	6.38	22.32	84.38	-	13.66		
13	J K M H - 204-1	74.13	-	-	82.90	16.33	66.21	-	13.23	48.92		
CHECKS:												
14	SURYA	-	-	-	-	-	-	-	-	-		
15	HIM - 129	16.34	11.49	9.78	13.23	-	-	31.69	5.69	3.53		

GRAIN YIELD & SUPERIORITY OVER THE SURYA												
SI NO	PEDIGREE	GORA BELI	VARA	DHOL	RANC	KUSH	JASH	AMBI	ZN 3 MEAN			
1	A H - 23021	47.84	14.94	40.28	19.38	8.74	22.44	5.83	23.69			
2	A H - 23025	22.23	-	6.28	8.96	18.56	1.02	8.04	8.93			
3	A H - 23029	31.87	24.15	29.48	17.16	7.41	36.14	-	20.45			
4	A H - 23035	9.78	53.88	28.68	4.20	-	-	-	9.73			
5	A H - 23039	36.01	31.44	68.38	7.90	-	29.10	31.21	29.78			
6	F H - 3211	-	2.30	35.19	36.29	-	-	11.13	8.80			
7	DEH - 10103	-	-	3.07	4.19	-	-	5.57	-			
8	DEH - 10303	-	5.64	12.27	19.44	-	-	6.69	-			
9	DEH - 10503	-	-	7.95	12.52	-	-	-	-			
10	DEH - 11303	-	29.22	-	21.55	-	-	-	-			
11	H K H - 1183	-	2.64	16.92	25.92	-	-	-	0.33			
12	BVM - 7 COMP.	4.46	55.58	32.31	25.92	-	13.92	11.33	18.60			
13	J K M H - 204-1	40.82	38.91	102.30	29.08	-	17.46	45.32	39.19			
CHECKS:												
14	SURYA	-	-	-	-	-	-	-	-			
15	HIM - 129	-	-	4.03	18.15	-	-	0.67	-			

TABLE NO. 5 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE SURYA														
SI NO	PEDIGREE	HYDE	KARI	MAND	COIM	KOLH	ZN 4			UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
							MEAN	MEAN	MEAN					
1	A H - 23021	63.87	9.41	38.39	-	26.11	23.07	87.12	65.69	54.12	65.55	32.56		
2	A H - 23025	75.14	16.67	76.25	4.72	20.92	36.24	45.28	11.42	53.92	40.25	28.85		
3	A H - 23029	51.80	46.62	36.22	35.28	13.53	34.78	56.82	-	48.08	36.70	31.53		
4	A H - 23035	117.43	24.04	66.10	-	3.42	33.92	146.95	41.80	44.41	69.49	33.09		
5	A H - 23039	170.34	36.99	97.44	0.50	-	39.15	118.23	48.73	64.62	73.80	42.50		
6	F H - 3211	89.52	48.57	63.42	-	16.27	39.95	82.53	-	65.26	46.45	33.10		
7	DEH - 10103	33.52	1.08	54.45	8.20	12.85	20.94	31.87	42.77	3.49	21.25	7.06		
8	DEH - 10303	81.72	42.26	31.81	10.63	-	28.12	-	30.30	9.77	11.52	9.47		
9	DEH - 10503	89.75	1.84	35.46	-	0.12	17.41	-	5.55	3.03	-	3.94		
10	DEH - 11303	66.55	-	39.14	-	1.03	13.09	12.86	21.00	-	8.74	4.00		
11	H K H - 1183	79.40	12.22	64.26	-	-	17.20	14.35	10.13	19.96	15.89	10.65		
12	BVM - 7 COMP.	155.50	23.08	51.24	-	2.96	32.74	21.02	6.92	42.19	27.32	21.50		
13	J K M H - 204-1	41.35	82.13	131.37	45.29	11.62	65.16	95.42	25.97	81.23	69.85	58.28		
CHECKS:														
14	SURYA	-	-	-	-	-	-	-	-	-	-	-	-	
15	HIM - 129	77.19	7.98	50.20	21.87	4.21	26.63	34.79	-	10.62	11.65	8.97	-	

GRAIN YIELD % SUPERIORITY OVER THE HIM - 129													
SI NO	PEDIGREE	ALMO	BAJA	UMIA	ZN 1			LUDH	KARN	PANT	ZN 2 MEAN		
					MEAN	MEAN	MEAN						
1	A H - 23021	17.66	26.10	45.93	25.95	6.08	80.48	10.84	-	22.32			
2	A H - 23025	30.61	-	84.18	27.32	10.36	51.18	34.36	-	25.26			
3	A H - 23029	27.60	20.37	62.40	31.02	28.50	39.83	26.54	-	21.38			
4	A H - 23035	26.52	22.93	59.39	31.00	20.77	53.70	25.62	-	26.26			
5	A H - 23039	29.31	30.61	89.13	40.47	3.34	62.79	21.96	3.86	25.37			
6	F H - 3211	54.61	25.42	47.49	42.11	33.61	56.02	13.52	-	23.88			
7	DEH - 10103	-	-	-	-	24.94	7.72	5.21	-	6.92			
8	DEH - 10303	-	-	0.31	-	14.36	20.44	-	-	4.57			
9	DEH - 10503	-	-	-	-	9.73	13.78	-	-	1.48			
10	DEH - 11303	-	-	-	-	18.48	0.53	8.59	-	6.34			
11	H K H - 1183	-	-	-	-	59.40	30.49	-	-	16.47			
12	BVM - 7 COMP.	11.78	-	15.18	1.78	25.34	34.51	-	-	9.79			
13	J K M H - 204-1	49.67	55.73	103.10	61.53	37.07	82.78	40.01	7.14	43.85			
CHECKS:													
14	SURYA	-	-	-	-	-	-	-	-	-	-	-	-
15	HIM - 129	-	-	-	-	17.82	9.97	-	-	-	-	-	-

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					DELH
		UDAI	BANS	GODH	CHHI	ZN 5 MEAN	OV'L MEAN	ALMO	BAJA	UMIA	ZN 1 MEAN	
1	A H 021	47	40	41	50	44	47	53	60	44	56	48
2	A H 230	47	39	39	50	44	47	54	59	55	56	49
3	A H 230	47	42	43	55	45	47	55	55	55	56	49
4	A H 230	47	42	43	55	45	47	55	55	55	56	49
5	A H 230	47	42	43	55	45	47	55	55	55	56	49
6	A H 230	47	42	43	55	45	47	55	55	55	56	49
7	A H 230	47	42	43	55	45	47	55	55	55	56	49
8	A H 230	47	42	43	55	45	47	55	55	55	56	49
9	A H 230	47	42	43	55	45	47	55	55	55	56	49
10	A H 230	47	42	43	55	45	47	55	55	55	56	49
11	A H 230	47	42	43	55	45	47	55	55	55	56	49
12	A H 230	47	42	43	55	45	47	55	55	55	56	49
13	A H 230	47	42	43	55	45	47	55	55	55	56	49
14	A H 230	47	42	43	55	45	47	55	55	55	56	49
15	A H 230	47	42	43	55	45	47	55	55	55	56	49

SI NO	PEDIGREE	DAYS TO 50% SILKING					ZNA 3 MEAN
		LUDH	KARN	PANT	ZN 2 MEAN	GORA BELI	
1	A H 021	45	50	48	50	3	49
2	A H 230	45	49	48	50	3	49
3	A H 230	45	49	48	50	3	49
4	A H 230	45	49	48	50	3	49
5	A H 230	45	49	48	50	3	49
6	A H 230	45	49	48	50	3	49
7	A H 230	45	49	48	50	3	49
8	A H 230	45	49	48	50	3	49
9	A H 230	45	49	48	50	3	49
10	A H 230	45	49	48	50	3	49
11	A H 230	45	49	48	50	3	49
12	A H 230	45	49	48	50	3	49
13	A H 230	45	49	48	50	3	49
14	A H 230	45	49	48	50	3	49
15	A H 230	45	49	48	50	3	49

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	PLANT ASPECT*					EAR ASPECT*					VARA	DHOL	KUSH	
		UDAI	BANS	GODH	ZN 5 MEAN	OV'L MEAN	ALMO	BAJA	ZN 1 MEAN	ZN 2 DELH	GORA BELI				
1	A H 21	3	1	3	3	6	3	4	2	8	2	1	3	2	2
2	A H 23	3	4	2	2	5	2	2	2	2	2	3	3	2	2
3	A H 25	3	4	2	2	5	2	2	2	2	2	3	3	2	2
4	A H 29	3	4	2	2	5	2	2	2	2	2	3	3	2	2
5	A H 33	3	4	2	2	5	2	2	2	2	2	3	3	2	2
6	A H 35	3	4	2	2	5	2	2	2	2	2	3	3	2	2
7	A H 39	3	4	2	2	5	2	2	2	2	2	3	3	2	2
8	A H 41	3	4	2	2	5	2	2	2	2	2	3	3	2	2
9	A H 43	3	4	2	2	5	2	2	2	2	2	3	3	2	2
10	A H 45	3	4	2	2	5	2	2	2	2	2	3	3	2	2
11	A H 47	3	4	2	2	5	2	2	2	2	2	3	3	2	2
12	A H 49	3	4	2	2	5	2	2	2	2	2	3	3	2	2
13	A H 51	3	4	2	2	5	2	2	2	2	2	3	3	2	2
14	A H 53	3	4	2	2	5	2	2	2	2	2	3	3	2	2
15	A H 55	3	4	2	2	5	2	2	2	2	2	3	3	2	2
	MEAN LOCATION	4.0	3.4	3.3	3.3	3.0	3.8	3.7	3.7	3.0	7.7	7.5	6.5	6.5	5.4
	C.V. AT 5% =	8.0	8.1	8.0	8.3	11.9	10.4	11.9	11.9	10.4	1.9	1.0	1.4	1.4	1.7
	F (Prob)	.000	.002	.075	.30	.2	.3	.2	.2	.3	.001	.001	.006	.006	.031

Sl NO	PEDIGREE	EAR ASPECT*					EAR ASPECT*					CHHI	GODH	BANS	UDAI	Zn 5 OV'L MEAN	
		JASH	AMBI	ZN 3 MEAN	HYDE	KARI	MAND	KOLH	ZN 4 MEAN	BANS	GODH						
1	A H 21	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
2	A H 23	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
3	A H 25	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
4	A H 29	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
5	A H 33	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
6	A H 35	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
7	A H 39	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
8	A H 41	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
9	A H 43	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
10	A H 45	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
11	A H 47	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
12	A H 49	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
13	A H 51	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
14	A H 53	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
15	A H 55	2	6	2	2	2	2	1	1	1	1	1	0	4	2	2	2
	MEAN LOCATION	3.3	3.4	3.3	3.3	3.0	3.8	3.7	3.7	3.0	7.7	7.5	6.5	6.5	5.4	5.4	5.4
	C.V. AT 5% =	16.0	16.8	16.0	16.0	24.0	24.0	24.0	24.0	24.0	1.9	1.0	1.4	1.4	1.7	1.7	1.7
	F (Prob)	.000	.000	.000	.001	.580	.580	.580	.580	.580	.001	.001	.006	.006	.031	.031	.031

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)										ZN 3 MEAN	HYDE	KARI	MAND
		GORA	BELI	VARA	DHOL	RANC	KUSH	JASH	AMBI	AMBI	AMBI				
1	A H	173	202	161	192	143	148	197	174	111	181	182			
2	A H	174	213	163	196	142	156	203	177	120	162	164			
3	A H	168	222	155	190	143	155	197	178	138	174	167			
4	A H	147	227	157	195	137	165	205	178	108	173	35.9			
5	A H	147	218	146	187	157	145	196	161	88	169	12.6			
6	F DEH	161	187	160	152	139	144	188	163	110	174	170			
7	F DEH	167	192	142	161	140	146	194	169	138	171	156			
8	F DEH	170	185	144	175	140	149	189	168	123	175	170			
9	F DEH	174	195	142	183	140	146	191	165	110	171	156			
10	H K	145	172	144	150	140	149	185	183	120	175	170			
11	H K	183	238	174	183	149	150	201	174	140	175	170			
12	BVM M H	173	218	156	184	140	149	201	174	110	175	170			
13	J K	166	218	156	184	140	149	201	174	110	175	170			
14	CHECKS:														
15	SURYA	161	218	136	191	135	161	202	176	143	169	172			
16	HIM	166	205	152	179	142	148	192	164	106	162	167			
17	MEAN LOCATION	23.8	34.9	18.6	18.3	18.1	15.8	19.6	171	7.8	174	35.8			
18	C.D. AT 5% =	10.1	0.15	0.10	0.15	0.10	0.00	0.04	18.1	4.5	12.3	12.6			
19	F (Prob)	1.15	0.15	0.10	0.15	0.10	0.00	0.04	18.1	4.5	12.3	12.6			

Sl NO	PEDIGREE	PLANT HEIGHT (cm)										ZN 5 MEAN	OV'L MEAN
		COIM	KOLH	UDAI	BANS	GODH	CHHI	CHHI	CHHI	CHHI	CHHI		
1	A H	139	160	155	183	174	106	184	166	178	178	178	
2	A H	158	168	175	183	173	103	201	159	177	177	177	
3	A H	159	165	155	184	166	104	175	160	171	173	173	
4	A H	153	155	153	178	168	105	188	164	165	159	159	
5	A H	162	165	151	191	174	109	174	152	162	162	162	
6	F DEH	144	148	146	153	168	103	168	157	155	155	155	
7	F DEH	134	155	147	180	165	100	169	154	162	162	162	
8	F DEH	141	157	148	190	165	103	169	157	155	155	155	
9	F DEH	160	144	144	175	153	110	160	147	157	157	157	
10	H K	149	142	141	184	174	113	174	167	171	171	171	
11	BVM M H	172	170	159	184	180	111	174	167	171	171	171	
12	J K	168	180	164	190	153	100	176	155	173	173	173	
13	CHECKS:												
14	SURYA	155	180	164	190	153	100	176	155	173	173	173	
15	HIM	168	143	149	188	167	105	171	157	161	161	161	
16	MEAN LOCATION	15.4	15.7	15.4	18.3	16.7	10.7	17.3	15.9	16.8	16.8	16.8	
17	C.D. AT 5% =	6.9	26.3	17.7	18.0	3.0	22.4	16.4	16.5	16.8	16.8	16.8	
18	F (Prob)	2.00	10.93	17.7	18.0	3.0	22.4	16.4	16.5	16.8	16.8	16.8	

TABLE NO. 5 (CONT.)

SL NO	PEDIGREE	EAR HEIGHT (cm)										KUSH			
		ALMO	BAJA	UMIA	ZN 1 MEAN	DELH	LUDH	KARN	PANT	ZN 2 MEAN	GORA BELI		VARA	DHOL	RANC
1	A H 23021	107	95	73	92	68	96	110	73	87	87	73	86	78	63
2	A H 23025	115	79	74	88	88	94	117	87	91	89	80	85	91	65
3	A H 23029	109	78	74	88	88	94	119	82	91	89	82	87	89	65
4	A H 23039	107	81	69	88	85	91	103	87	92	93	85	74	87	68
5	A H 32011	108	84	66	89	80	78	105	94	22	85	85	59	70	66
6	F DEH 10303	101	88	66	85	80	81	90	75	25	67	55	53	83	67
7	F DEH 10303	101	88	66	85	80	81	90	75	25	67	55	53	83	67
8	F DEH 10303	101	88	66	85	80	81	90	75	25	67	55	53	83	67
9	F DEH 11303	88	60	69	60	78	86	88	77	11	56	71	67	80	66
10	H K 1183	83	60	69	60	78	86	88	77	11	56	71	67	80	66
11	H K 1183	83	60	69	60	78	86	88	77	11	56	71	67	80	66
12	BVM 7 COMP.	105	50	79	82	68	94	95	81	89	88	82	89	80	71
13	JKMH 7 204-1	105	50	79	82	68	94	95	81	89	88	82	89	80	71
CHECKS:															
14	SURYA 129	107	71	67	85	78	96	90	81	86	71	83	78	80	52
15	HIM LOCATION	101	44	67	79	80	78	82	78	80	75	68	56	84	64
	MEAN	5.6	13.0	16.6	11.4	12.8	13.4	7.9	14.0	12.7	17.2	17.6	17.4	8.3	13.4
	C.D. AT 5%	3.6	11.4	16.6	11.4	9.0	13.4	4.0	12.0	12.7	15.7	17.6	17.4	8.3	13.4
	C.V. (%)	3.0	11.4	16.6	11.4	9.0	13.4	4.0	12.0	12.7	15.7	17.6	17.4	8.3	13.4
	F (Prob)	0.00	0.00	0.83	-	0.00	0.15	0.00	0.11	-	0.66	0.03	0.02	0.28	0.34

SL NO	PEDIGREE	EAR HEIGHT (cm)										OV'L MEAN			
		JASH	AMBI	ZN 3 MEAN	HYDE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	UDAI		BANS	GODH	CHHI
1	A H 23021	61	74	75	53	63	76	55	82	66	95	81	49	81	77
2	A H 23025	66	75	78	48	71	90	67	93	73	95	70	48	93	80
3	A H 23029	73	73	78	63	69	65	65	75	67	93	73	55	74	78
4	A H 23039	73	73	78	63	69	65	65	75	67	93	73	55	74	78
5	F DEH 32011	45	79	59	34	55	74	67	82	59	100	79	44	71	68
6	F DEH 32011	45	79	59	34	55	74	67	82	59	100	79	44	71	68
7	F DEH 10303	53	62	66	49	61	66	73	80	69	83	61	44	71	68
8	F DEH 10303	53	62	66	49	61	66	73	80	69	83	61	44	71	68
9	F DEH 10303	53	62	66	49	61	66	73	80	69	83	61	44	71	68
10	H K 1183	60	62	66	39	63	66	73	80	69	83	61	44	71	68
11	H K 1183	60	62	66	39	63	66	73	80	69	83	61	44	71	68
12	BVM 7 COMP.	63	67	67	54	69	75	77	92	73	84	74	49	72	69
13	JKMH 7 204-1	63	67	67	54	69	75	77	92	73	84	74	49	72	69
CHECKS:															
14	SURYA 129	68	73	72	58	67	73	70	103	74	88	63	49	81	76
15	HIM LOCATION	61	60	68	49	55	69	68	72	60	88	69	46	78	68
	MEAN	5.3	8.1	13.1	4.9	10.0	18.3	4.3	22.8	12.0	18.0	8.0	6.3	18.0	12.8
	C.D. AT 5%	3.2	8.1	13.1	4.9	10.0	18.3	4.3	22.8	12.0	18.0	8.0	6.3	18.0	12.8
	C.V. (%)	6.0	8.1	13.1	4.9	10.0	18.3	4.3	22.8	12.0	18.0	8.0	6.3	18.0	12.8
	F (Prob)	0.00	0.00	-	0.00	0.12	0.97	0.00	0.10	-	0.00	0.00	0.00	-	-

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	H.maydis *										OV'L MEAN				
		ALMO	BAJA	ZN	GORA	OV'L	RUST	STAND	AT	HARVEST	DELH		LUDH	KARN	PANT	BELI
1	A H 1	1.7	1.1	4.7	1.8	1.5	1.0	3.8	2.6	3.0	3.6	3.0	3.0	3.0	3.0	3.0
2	A H 1	1.8	1.1	5.4	1.3	1.4	1.1	4.6	2.8	3.2	3.5	3.2	3.2	3.2	3.2	3.2
3	A H 1	1.4	1.1	4.0	1.9	1.0	1.0	3.8	2.2	3.5	3.8	3.5	3.5	3.5	3.5	3.5
4	A H 1	1.5	1.1	5.0	1.5	1.1	1.1	4.0	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
5	A H 1	1.4	1.1	4.6	1.5	1.0	1.0	3.8	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
6	A H 1	1.7	1.1	5.7	1.0	1.5	1.0	4.8	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
7	A H 1	1.6	1.1	5.0	1.4	1.6	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
8	A H 1	1.2	1.1	4.0	1.5	1.6	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
9	A H 1	1.0	1.1	5.7	1.2	1.1	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
10	A H 1	1.2	1.1	4.0	1.5	1.6	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
11	A H 1	1.0	1.1	5.7	1.2	1.1	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
12	A H 1	1.0	1.1	4.0	1.5	1.6	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
13	A H 1	1.0	1.1	5.7	1.2	1.1	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
14	A H 1	1.0	1.1	4.0	1.5	1.6	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2
15	A H 1	1.0	1.1	5.7	1.2	1.1	1.0	3.3	2.2	3.2	3.8	3.2	3.2	3.2	3.2	3.2

SI NO	PEDIGREE	STAND AT HARVEST										OV'L MEAN				
		RANC	KUSH	JASH	AMBI	HYDE	KARI	MAND	COIM	KOLH	UDAI		BANS	GODH	CHHI	
1	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	5.0	4.2	3.6	3.2	3.4	3.9	3.5
2	A H 1	3.7	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
3	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
4	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
5	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
6	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
7	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
8	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
9	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
10	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
11	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
12	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
13	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
14	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5
15	A H 1	3.2	3.7	3.3	3.2	3.1	3.5	3.6	1.6	4.8	3.3	3.2	3.2	3.4	3.9	3.5

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

TABLE NO. 6

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR IN AET 1st YEAR, TRIAL NO. TR65Z4 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																ZN 4	
		HYDE	R	KARI	R	ARBH	R	MAND	R	COIM	R	KOLH	R	MEAN	R				
1	B H - 2355	6386	14	6424	19	8608	16	7263	26	5924	22	6111	21	6786	22				
2	B H - 2358	5500	18	7983	4	9294	5	9690	8	6803	11	6970	10	7707	8				
3	B H - 2523	5423	20	7355	12	8975	11	8853	18	5870	23	6814	12	7215	17				
4	B H - 2528	4470	23	6571	16	9111	7	9657	9	6690	12	7314	6	7302	15				
5	B H - 2356	4076	24	5091	26	8075	18	8906	17	6076	20	-	-	6445	24				
6	B H - 2202	8573	2	6326	20	9039	9	7309	25	7089	6	6676	15	7502	13				
7	B I O - 20212	8334	6	7708	7	8803	12	7978	21	6637	14	-	-	7892	6				
8	ROBUST	5634	17	6434	18	7688	22	7819	22	7191	4	6654	17	6903	20				
9	BISCO - 902	6991	10	7914	6	8739	13	10807	4	6872	10	6465	18	7965	5				
10	A A M H - 459	8842	1	6159	22	8709	14	7753	23	7458	2	6663	16	7597	11				
11	P A C - 71061	3873	25	5581	24	7289	25	9452	13	5799	24	5613	23	6268	25				
12	P A C - 71062	7167	9	7110	14	6096	27	8486	20	6361	17	6117	20	6889	21				
13	X 1231 H	6719	12	6836	15	10283	1	-	-	6069	21	-	-	7477	14				
14	POOJA	3276	26	7483	10	7675	23	9457	12	6934	8	7148	8	6996	19				
15	N E C H - 117	5373	21	7679	8	9506	4	9563	11	7566	1	5720	22	7568	12				
16	N E C H - 118	4837	22	6561	17	9055	8	11724	3	6440	16	7608	4	7705	9				
17	M C H - 1	8368	5	7650	9	9280	6	9621	10	7188	5	7842	3	8325	3				
18	M C H - 2	8231	7	8051	3	9823	2	13181	1	6877	9	8640	1	9134	1				
19	M C H - 3	5875	15	8463	1	9574	3	10520	5	6653	13	6877	11	7994	4				
20	M C H - 4	8500	4	8444	2	8981	10	-	-	7335	3	8467	2	8345	2				

TABLE NO. 6 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4		
		HYDE	R	KARI	R	ARBH	R	MAND	R	COIM	R	KOLH	R	MEAN	R	
21	X - 2001	8504	3	7924	5	8615	15	8815	19	6347	18	7142	9	7891	7	
22	G K - 3046	6634	13	6248	21	7975	19	9238	15	5682	25	6413	19	7032	18	
23	SEEDTEC - C 11	3201	27	4140	28	4338	28	12924	2	4089	28	6737	14	5905	28	
24	SEEDTEC - C 12	6908	11	7473	11	7726	21	10481	6	6448	15	7174	7	7702	10	
CHECKS:																
25	BIO - 9681	3033	28	5944	23	8164	17	9712	7	7007	7	6775	13	6773	23	
26	PARBHAT	5430	19	5532	25	7386	24	9297	14	5039	27	4829	25	6252	26	
27	GANGA - 11	5635	16	4316	27	6310	26	8947	16	5136	26	5131	24	5913	27	
28	PRO - 311	7236	8	7326	13	7756	20	7670	24	6076	19	7362	5	7238	16	
	MEAN YIELD=	6180		6812		8317		8754		6416		6045		7087		
	MEAN STAND	70		75		86		59		50		81		70		
	C.D. AT 5%=	471		1514		1076		2536		775		1967		1390		
	C.V. % =	4.66		15.80		9.20		16.41		8.59		17.71		-		
	F (Prob)	.000		.000		.000		.005		.000		.016		-		
	PLOT SIZE=	15.00		12.00		15.00		10.50		9.60		15.00		-		
AGRONOMY DATA:																
	SOWING DATE(2003)	29-08		17-07		1-08		3-08		19-06		9-07		-		
	HARVEST DATE(2003)	3-01		29-10		15-12		5-12		20-10		4-11		-		
	IRRIGATION Nos	8		1		10		8		8		-		-		
	FERTILIZER APPLIED N	120		150		150		150		135		120		-		
	P	60		60		75		75		63		60		-		
	K	40		40		38		40		50		40		-		

TABLE NO. 6 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681									
Sl No	PEDIGREE	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	
1	B H - 2355	110.57	8.08	5.44	-	-	-	0.20	
2	B H - 2358	81.35	34.31	13.85	-	-	2.87	13.79	
3	B H - 2523	78.79	23.75	9.93	-	-	0.57	6.53	
4	B H - 2528	47.38	10.56	11.60	-	-	7.95	7.82	
5	B H - 2356	34.38	-	-	-	-	-	-	
6	B H - 2202	182.67	6.43	10.71	-	1.17	-	10.77	
7	B I O - 20212	174.77	29.69	7.83	-	-	-	16.53	
8	ROBUST	85.76	8.25	-	-	2.63	-	1.93	
9	BISCO - 902	130.49	33.16	7.04	11.28	-	-	17.60	
10	A A M H - 459	191.54	3.63	6.67	-	6.44	-	12.18	
11	P A C - 71061	27.68	-	-	-	-	-	-	
12	P A C - 71062	136.29	19.63	-	-	-	-	1.73	
13	X 1231 H	121.55	15.01	25.96	-	-	-	10.40	
14	POOJA	8.01	25.90	-	-	-	5.50	3.29	
15	N E C H - 117	77.17	29.20	16.44	-	7.97	-	11.74	
16	N E C H - 118	59.50	10.40	10.92	20.72	-	12.29	13.76	
17	M C H - 1	175.90	28.70	13.67	-	2.58	15.75	22.92	
18	M C H - 2	171.38	35.47	20.32	35.72	-	27.51	34.87	
19	M C H - 3	93.72	42.39	17.27	8.32	-	1.50	18.03	
20	M C H - 4	180.28	42.06	10.01	-	4.68	24.96	23.22	
21	X - 2001	180.40	33.32	5.52	-	-	5.42	16.52	
22	G K - 3046	118.73	5.12	-	-	-	-	3.83	
23	SEEDTEC - C 11	5.55	-	-	33.07	-	-	-	
24	SEEDTEC - C 12	127.77	25.74	-	7.92	-	5.89	13.72	
CHECKS:									
25	BIO - 9681	-	-	-	-	-	-	-	
26	PARBHAT	79.04	-	-	-	-	-	-	
27	GANGA - 11	85.80	-	-	-	-	-	-	
28	PRO - 311	138.57	23.26	-	-	-	8.66	6.87	

TABLE NO. 6 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PARBHAT								Zn 4 MEAN
		HYDE	KARI	ARBH	MAND	COIM	KOLH	MEAN		
1	B H - 2355	17.61	16.12	16.55	-	17.57	26.54	8.54		
2	B H - 2358	1.29	44.30	25.84	4.23	35.03	44.33	23.27		
3	B H - 2523	-	32.96	21.51	-	16.49	41.11	15.40		
4	B H - 2528	-	18.78	23.35	3.87	32.77	51.46	16.79		
5	B H - 2356	-	-	9.33	-	20.59	-	3.08		
6	B H - 2202	57.88	14.35	22.37	-	40.70	38.25	19.99		
7	B I O - 20212	53.47	39.35	19.18	-	31.72	-	26.23		
8	ROBUST	3.75	16.30	4.09	-	42.73	37.80	10.42		
9	BISCO - 902	28.74	43.07	18.32	16.25	36.39	33.88	27.39		
10	A A M H - 459	62.83	11.34	17.91	-	48.03	37.98	21.52		
11	P A C - 71061	-	0.89	-	1.66	15.09	16.24	0.25		
12	P A C - 71062	31.98	28.53	-	-	26.24	26.67	10.19		
13	X 1231 H	23.74	23.57	39.23	-	20.44	-	19.59		
14	POOJA	-	35.27	3.92	1.72	37.62	48.03	11.89		
15	N E C H - 117	-	38.81	28.70	2.86	50.15	18.45	21.04		
16	N E C H - 118	-	18.61	22.60	26.11	27.82	57.56	23.23		
17	M C H - 1	54.09	38.28	25.64	3.49	42.67	62.41	33.15		
18	M C H - 2	51.57	45.55	32.99	41.78	36.50	78.91	46.09		
19	M C H - 3	8.20	52.99	29.62	13.16	32.04	42.42	27.86		
20	M C H - 4	56.54	52.64	21.59	-	45.58	75.33	33.48		
21	X - 2001	56.61	43.24	16.64	-	25.97	47.91	26.22		
22	G K - 3046	22.16	12.94	7.97	-	12.78	32.81	12.47		
23	SEEDTEC - C 11	-	-	-	39.01	-	39.51	-		
24	SEEDTEC - C 12	27.22	35.10	4.60	12.74	27.97	48.57	23.19		
CHECKS:										
25	BIO - 9681	-	7.44	10.53	4.47	39.07	40.31	8.32		
26	PARBHAT	-	-	-	-	-	-	-		
27	GANGA - 11	3.77	-	-	-	1.93	6.26	-		
28	PRO - 311	33.25	32.43	5.01	-	20.60	52.46	15.76		

TABLE NO. 6 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE GANGA - 11									
Sl No	PEDIGREE	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4	MEAN
1	B H - 2355	13.33	48.82	36.42	-	15.34	19.08	14.77	
2	B H - 2358	-	84.93	47.30	8.31	32.46	35.83	30.34	
3	B H - 2523	-	70.40	42.23	-	14.28	32.80	22.03	
4	B H - 2528	-	52.23	44.39	7.94	30.25	42.53	23.50	
5	B H - 2356	-	17.93	27.98	-	18.30	-	9.00	
6	B H - 2202	52.14	46.55	43.25	-	38.03	30.10	26.88	
7	B I O - 20212	47.89	78.58	39.51	-	29.22	-	33.48	
8	ROBUST	-	49.05	21.84	-	40.02	29.68	16.76	
9	BISCO - 902	24.06	83.35	38.49	20.80	33.80	25.99	34.71	
10	A A M H - 459	56.91	42.69	38.02	-	45.22	29.85	28.50	
11	P A C - 71061	-	29.30	15.52	5.64	12.91	9.40	6.01	
12	P A C - 71062	27.18	64.73	-	-	23.85	19.21	16.52	
13	X 1231 H	19.24	58.36	62.97	-	18.16	-	26.45	
14	POOJA	-	73.36	21.64	5.70	35.01	39.31	18.32	
15	N E C H - 117	-	77.90	50.65	6.88	47.30	11.47	27.99	
16	N E C H - 118	-	52.01	43.51	31.05	25.40	48.27	30.31	
17	M C H - 1	48.49	77.22	47.07	7.54	39.96	52.84	40.80	
18	M C H - 2	46.06	86.53	55.67	47.33	33.91	68.37	54.48	
19	M C H - 3	4.26	96.07	51.73	17.59	29.53	34.02	35.20	
20	M C H - 4	50.85	95.61	42.33	-	42.82	65.00	41.15	
21	X - 2001	50.92	83.58	36.53	-	23.58	39.19	33.47	
22	G K - 3046	17.72	44.74	26.39	3.26	10.64	24.98	18.93	
23	SEEDTEC - C 11	-	-	-	44.46	-	31.29	-	
24	SEEDTEC - C 12	22.59	73.13	22.43	17.15	25.54	39.82	30.26	
CHECKS:									
25	BIO - 9681	-	37.70	29.38	8.56	36.43	32.04	14.54	
26	PARBHAT	-	28.16	17.06	3.92	-	-	5.74	
27	GANGA - 11	-	-	-	-	-	-	-	
28	PRO - 311	28.40	69.72	22.92	-	18.31	43.47	22.41	

TABLE NO. 6 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST					ZN 4 MEAN
		HYDE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	HYDE	ARBH	MAND	KOLH	
1	B H - 2355	92.0	87.8	90.3	102.0	90.0	92.4	20.8	18.9	18.6	20.0	19.6
2	B H - 2358	91.3	89.8	90.3	103.5	94.3	93.9	24.0	23.1	18.6	21.6	21.8
3	B H - 2523	91.0	88.0	91.0	100.8	89.3	92.0	20.0	19.0	17.5	22.8	19.8
4	B H - 2528	95.3	87.5	91.0	103.5	89.7	93.4	25.3	19.5	17.1	21.0	20.7
5	B H - 2356	94.3	91.5	92.3	104.3	-	95.6	22.2	21.3	19.6	-	21.0
6	B H - 2202	92.0	92.8	91.3	104.5	94.3	95.0	25.9	21.5	17.0	21.4	21.4
7	B I O - 20212	89.3	88.3	90.0	102.3	-	92.5	22.6	20.3	18.5	-	20.5
8	ROBUST	90.7	87.8	90.7	102.8	90.7	92.5	24.0	18.3	18.9	18.0	19.8
9	BISCO - 902	93.7	87.5	92.0	103.3	93.7	94.0	22.2	20.0	17.2	19.4	19.7
10	A A M H - 459	91.7	91.3	91.0	103.8	94.7	94.5	23.1	19.8	17.2	20.2	20.1
11	P A C - 71061	95.0	87.3	90.0	101.5	93.7	93.5	19.8	16.6	19.1	19.3	18.7
12	P A C - 71062	93.3	88.8	91.3	103.5	93.7	94.1	21.8	18.0	18.7	20.7	19.8
13	X 1231 H	91.0	90.3	-	103.8	-	95.0	21.1	18.6	-	-	19.8
14	POOJA	94.3	89.8	92.3	102.5	93.0	94.4	24.4	23.0	19.3	19.3	21.5
15	N E C H - 117	93.0	87.5	91.0	102.8	93.7	93.6	20.6	20.6	18.2	20.8	20.1
16	N E C H - 118	94.3	86.3	92.0	106.0	94.3	94.6	20.5	22.0	18.6	21.2	20.6
17	M C H - 1	94.0	88.0	92.0	103.5	93.3	94.2	24.9	24.1	15.9	20.8	21.4
18	M C H - 2	92.0	87.5	92.3	102.3	93.3	93.5	21.0	22.2	18.3	20.3	20.4
19	M C H - 3	93.0	87.0	91.7	102.5	93.7	93.6	22.5	22.5	18.3	21.1	21.1
20	M C H - 4	94.0	89.0	-	103.3	94.7	95.2	17.5	24.9	-	22.7	21.7
21	X - 2001	95.7	86.5	90.3	103.5	93.0	93.8	22.0	18.7	19.1	18.8	19.6
22	G K - 3046	91.7	86.8	90.0	102.5	91.7	92.5	17.1	17.9	20.1	20.5	18.9
23	SEEDTEC - C 11	91.7	92.5	93.0	109.0	94.3	96.1	26.0	17.6	17.9	20.8	20.6
24	SEEDTEC - C 12	91.7	87.0	92.0	102.8	94.7	93.6	24.8	20.3	18.9	20.5	21.1
CHECKS:												
25	BIO - 9681	93.3	86.8	89.7	101.8	89.7	92.2	19.5	18.5	17.8	22.8	19.7
26	PARBHAT	90.7	89.3	91.0	104.3	91.3	93.3	15.7	19.5	17.7	22.4	18.8
27	GANGA - 11	92.0	89.0	91.0	103.5	92.7	93.6	20.1	23.8	20.4	20.6	21.2
28	PRO - 311	89.3	87.5	90.3	103.3	93.7	92.8	23.1	19.3	18.7	19.4	20.1
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												
		.000	.000	.196	.000	.000	-	.000	.000	.638	.000	-
		1.9	2.5	2.2	1.0	2.2	2.0	0.7	1.4	3.1	1.7	1.7
		1.3	2.0	1.5	0.7	1.4	-	2.0	4.8	10.3	5.1	-

TABLE NO. 6 (CONT.)

S1 NO	PEDIGREE	PLANT ASPECT *						EAR ASPECT *						ZN 4	
		HYDE	KARI	ARBH	MAND	KOLH	MEAN	HYDE	KARI	ARBH	MAND	KOLH	MEAN	KOLH	MEAN
1	B H - 2355	2.0	2.3	2.5	2.0	2.3	2.2	2.5	2.0	2.8	3.7	1.8	2.5		
2	B H - 2358	2.0	2.0	2.0	2.3	2.0	2.1	2.5	1.0	2.0	1.7	1.8	1.8		
3	B H - 2523	2.3	1.5	2.3	2.3	1.8	2.0	2.3	1.5	2.3	2.3	2.0	2.1		
4	B H - 2528	2.0	2.5	2.0	2.7	2.0	2.2	2.3	1.0	2.5	2.0	1.7	1.9		
5	B H - 2356	2.2	2.8	2.3	2.0	-	2.3	2.3	2.3	2.8	2.0	-	2.3		
6	B H - 2202	1.7	2.3	2.3	2.0	1.7	2.0	1.7	1.3	2.0	1.7	1.5	1.6		
7	B I O - 20212	2.0	2.3	2.5	2.0	-	2.2	2.2	2.3	2.8	2.0	-	2.3		
8	ROBUST	2.3	2.5	2.5	2.0	2.0	2.3	2.5	2.1	2.8	2.3	1.5	2.2		
9	BISCO - 902	2.5	2.3	2.0	2.0	2.3	2.2	2.5	1.0	2.5	2.0	1.7	1.9		
10	A A M H - 459	1.7	2.5	2.0	2.0	1.7	2.0	2.2	1.5	2.0	2.3	1.5	1.9		
11	P A C - 71061	2.2	3.0	2.3	2.0	2.2	2.3	2.5	1.5	3.0	2.7	2.0	2.3		
12	P A C - 71062	2.2	1.5	2.5	2.0	2.0	2.0	2.2	1.3	3.0	2.3	2.2	2.2		
13	X 1231 H	2.0	2.5	2.0	-	-	2.2	2.3	2.0	2.3	-	-	2.2		
14	POOJA	2.5	2.0	2.5	2.0	1.8	2.2	2.3	1.3	2.3	2.0	1.7	1.9		
15	N E C H - 117	2.0	2.3	2.3	2.3	2.5	2.3	2.3	1.0	2.3	2.0	1.8	1.9		
16	N E C H - 118	2.2	2.3	2.3	2.3	1.5	2.1	2.5	1.3	2.0	1.7	1.8	1.9		
17	M C H - 1	1.7	2.0	2.5	2.0	1.8	2.0	1.8	1.3	2.0	2.3	1.5	1.8		
18	M C H - 2	1.5	2.3	2.5	2.0	1.7	2.0	1.8	1.3	2.3	2.0	1.5	1.8		
19	M C H - 3	2.5	1.3	2.3	2.0	1.8	2.0	2.5	1.0	2.3	1.7	1.7	1.8		
20	M C H - 4	2.0	2.0	2.5	-	1.5	2.0	2.5	1.0	2.0	-	1.5	1.8		
21	X - 2001	2.0	1.8	2.3	2.0	2.2	2.0	2.0	1.5	2.5	2.7	2.0	2.1		
22	G K - 3046	2.0	2.8	2.3	2.0	2.2	2.2	2.2	1.8	2.8	3.0	1.7	2.3		
23	SEEDTEC - C 11	2.3	3.3	2.5	2.3	2.7	2.6	2.3	2.8	3.0	2.0	2.7	2.5		
24	SEEDTEC - C 12	2.2	1.8	2.0	2.0	2.0	2.0	2.2	1.0	2.0	1.3	1.8	1.7		
CHECKS:															
25	BIO - 9681	2.0	2.3	2.5	2.0	1.8	2.1	2.5	2.5	3.0	2.7	1.7	2.5		
26	PARBHAT	2.5	3.3	2.5	3.0	2.5	2.8	2.2	1.8	2.3	2.3	2.2	2.1		
27	GANGA - 11	2.0	2.8	2.3	2.3	2.0	2.3	2.0	2.8	3.0	3.0	1.8	2.5		
28	PRO - 311	2.5	2.5	2.0	2.0	2.2	2.2	2.5	1.8	3.0	3.3	1.8	2.5		
MEAN LOCATION															
C.D. AT 5% =		0.3	0.8	0.3	0.5	0.6	0.5	0.4	0.8	0.2	0.8	0.5	0.5	-	
C.V. % =		8.7	26.0	8.0	14.2	18.5	-	9.6	36.9	5.5	20.3	17.1	-	-	
F (Prob)		.000	.000	.000	.015	.018	-	.000	.000	.000	.000	.005	-	-	

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 4			
		HYDE	KARI	ARBH	MAND	KOLH	MEAN	HYDE	KARI	ARBH	MAND	KOLH	MEAN
1	B H - 2355	2.3	2.8	3.0	2.7	2.3	2.6	2.0	1.3	2.0	2.3	2.0	1.9
2	B H - 2358	2.2	1.5	2.3	2.7	1.8	2.1	2.0	1.5	2.0	3.0	2.0	2.1
3	B H - 2523	2.0	1.3	2.3	2.0	2.3	2.0	2.2	1.0	2.5	2.0	2.0	1.9
4	B H - 2528	2.2	1.8	2.0	2.0	2.0	2.0	2.0	1.8	2.3	2.3	1.8	2.0
5	B H - 2356	2.3	2.5	2.3	2.3	-	2.4	2.2	2.3	2.0	2.0	-	2.1
6	B H - 2202	2.3	1.3	2.0	3.0	1.7	2.0	2.2	2.0	2.5	2.3	1.8	2.2
7	B I O - 20212	2.2	1.5	2.3	2.7	-	2.1	2.3	2.0	2.3	2.3	-	2.2
8	ROBUST	2.2	1.8	2.5	2.0	2.2	2.1	2.2	2.3	3.0	2.0	2.2	2.3
9	BISCO - 902	2.2	1.3	2.0	2.3	1.8	1.9	2.3	2.3	2.3	2.0	2.0	2.2
10	A A M H - 459	2.2	2.3	2.3	2.7	2.2	2.3	2.0	2.3	2.3	2.0	2.0	2.1
11	P A C - 71061	2.0	1.5	2.3	2.0	2.0	2.0	2.0	1.8	2.0	2.0	1.8	2.1
12	P A C - 71062	2.3	1.5	2.3	2.3	2.0	2.1	2.0	1.5	3.0	2.0	2.2	2.2
13	X 1231 H	2.2	1.0	2.0	-	-	1.7	2.2	1.5	2.3	-	-	2.0
14	POOJA	2.2	1.5	2.0	2.0	2.0	1.9	2.2	1.8	2.5	2.0	2.0	2.1
15	N E C H - 117	2.5	1.8	2.5	2.3	2.2	2.3	2.2	2.3	2.5	2.3	2.5	2.3
16	N E C H - 118	2.3	1.3	2.3	2.0	1.7	1.9	2.3	2.0	2.8	2.0	1.8	2.2
17	M C H - 1	2.0	1.3	2.3	2.0	1.8	1.9	2.0	1.5	2.8	2.7	1.7	2.1
18	M C H - 2	2.0	1.3	2.3	2.0	2.0	1.9	2.0	1.5	2.8	2.0	2.0	2.0
19	M C H - 3	2.3	1.3	2.0	2.3	2.0	2.0	2.2	1.3	2.3	2.0	2.2	2.0
20	M C H - 4	2.2	1.3	2.5	-	1.7	1.9	2.2	2.0	2.3	-	1.7	2.0
21	X - 2001	2.2	1.5	2.0	2.0	2.0	1.9	2.2	1.5	2.5	2.3	2.0	2.1
22	G K - 3046	2.3	1.5	2.5	2.7	2.3	2.3	2.2	2.5	2.5	2.7	2.2	2.4
23	SEEDTEC - C 11	2.2	1.5	2.3	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.3	2.1
24	SEEDTEC - C 12	2.0	1.0	2.3	2.0	1.8	1.8	2.2	1.5	2.5	2.0	2.0	2.0
CHECKS:													
25	BIO - 9681	2.0	1.8	2.3	2.7	2.2	2.2	2.0	2.0	2.5	2.0	2.3	2.2
26	PARBHAT	2.2	2.0	2.3	2.7	2.5	2.3	2.2	3.0	3.0	3.0	2.8	2.8
27	GANGA - 11	2.3	2.3	2.5	3.0	2.0	2.4	2.2	3.3	2.5	2.7	2.5	2.6
28	PRO - 311	2.2	1.5	2.0	2.0	2.2	2.0	2.5	2.0	2.0	2.3	2.3	2.2
MEAN LOCATION													
C.D. AT 5% =		0.4	0.7	0.3	0.6	0.6	0.5	0.3	1.0	0.4	0.6	0.6	0.6
C.V. % =		11.3	32.1	8.2	17.0	17.5	-	9.9	37.1	11.0	16.1	17.6	-
F (Prob)		.627	.000	.000	.006	.327	-	.354	.008	.000	.005	.067	-

TABLE NO. 6 (CONT.)

Sl NO	PEDIGREE	EAR No. / PLANT	H.turc. *	STAND AT HARVEST	MAND	COIM	KOLH	ZN 4 MEAN				
		HYDE	KARI	COIM	KOLH	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN
1	B H - 2355	0.98	0.92	1.00	2.2	75	82	87	64	46	88	74
2	B H - 2358	1.01	0.97	0.98	1.8	79	82	88	58	54	93	75
3	B H - 2523	0.99	0.98	0.98	2.2	69	76	85	65	49	96	73
4	B H - 2528	0.98	0.95	0.99	2.0	66	78	88	64	52	91	73
5	B H - 2356	0.98	0.98	0.98	-	68	79	84	57	44	-	67
6	B H - 2202	1.03	0.95	1.00	1.8	77	78	88	62	54	100	76
7	B I O - 20212	0.97	0.95	1.00	-	62	74	92	64	52	-	69
8	ROBUST	1.01	0.99	1.00	2.0	67	78	91	62	54	87	73
9	BISCO - 902	1.03	0.97	0.99	1.8	65	76	90	64	55	93	74
10	A A M H - 459	1.06	0.92	1.00	1.8	59	76	79	66	50	91	70
11	P A C - 71061	1.01	0.99	0.98	1.8	64	72	91	66	52	92	73
12	P A C - 71062	1.02	0.95	0.98	2.0	72	75	68	66	46	94	70
13	X 1231 H	1.01	0.98	1.00	-	77	79	104	-	42	-	75
14	POOJA	1.01	0.96	0.99	2.2	69	75	83	65	53	85	72
15	N E C H - 117	0.99	0.91	0.99	2.2	65	77	88	63	58	85	73
16	N E C H - 118	0.98	0.97	0.99	1.7	59	72	92	56	52	92	70
17	M C H - 1	0.99	0.89	0.99	1.7	65	74	92	67	51	94	74
18	M C H - 2	0.99	0.97	0.98	1.8	73	74	88	65	52	98	75
19	M C H - 3	1.04	0.96	0.99	2.0	63	75	87	58	52	91	71
20	M C H - 4	1.03	0.96	0.99	1.7	71	76	84	-	51	90	74
21	X - 2001	1.02	0.96	0.99	1.8	73	75	76	64	50	80	70
22	G K - 3046	0.98	0.94	1.00	2.3	76	74	87	65	47	92	73
23	SEEDTEC - C 11	1.05	0.94	1.00	2.7	65	61	65	55	47	73	61
24	SEEDTEC - C 12	1.00	0.96	0.96	2.0	69	69	78	73	54	92	72
CHECKS:												
25	BIO - 9681	1.00	0.93	0.99	2.0	72	78	89	68	55	99	77
26	PARRHAT	1.02	0.99	0.97	2.3	76	76	82	64	43	87	71
27	GANGA - 11	1.00	0.98	0.99	2.2	73	68	80	58	45	97	70
28	PRO - 311	1.06	0.96	0.99	2.0	79	77	97	62	53	96	77
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												
* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)												

TABLE NO. 7

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, KHEDBRAMHA, CHHINDIWARA IN AET 1st YEAR, TRIAL NO. TR65Z5 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 5	
		UDAI	R	BANS	R	KHED	R	CHHI	R	CHHI	R	MEAN	R
1	A H - 01410	6116	14	4071	20	2731	29	6514	33	4858	29		
2	A H - 01415	4907	23	2466	34	2946	26	6380	34	4174	34		
3	B H - 2355	3983	29	3509	26	2817	28	7592	30	4475	33		
4	B H - 2358	8154	4	4966	11	4574	9	10601	3	7074	2		
5	B H - 2523	3764	32	4234	17	3983	15	8681	23	5165	24		
6	B H - 2528	8723	3	4197	18	3768	19	9599	12	6572	5		
7	B H - 2348	3735	33	4271	16	2522	31	9047	19	4894	27		
8	B H - 2356	4277	27	3935	21	2529	30	8786	22	4882	28		
9	B H - 2854	4503	24	3798	23	3494	20	8576	25	5093	25		
10	B H - 2202	7364	5	4928	12	2824	27	9961	10	6269	10		
11	H K H - 1215	2129	35	3137	27	534	35	8665	24	3616	35		
12	B I O - 20212	6379	12	5341	7	4324	11	9219	17	6316	9		
13	ROBUST	6563	11	5439	6	3322	23	8892	20	6054	14		
14	BISCO - 902	6989	6	2960	30	4726	8	10196	8	6218	11		
15	ZAURI - 2009	5504	20	2868	32	3318	24	6276	35	4492	32		
16	A A M H - 459	6706	9	2917	31	4041	14	9961	11	5906	17		
17	X 1280 B	3930	30	3809	22	3784	18	10522	4	5511	21		
18	X 1231 H	6829	7	3063	28	3959	16	10244	7	6024	15		
19	POOJA	2993	34	4704	14	3334	22	10014	9	5261	22		
20	N E C H - 117	9270	2	5304	8	6701	1	10754	2	8008	1		
21	N E C H - 118	6056	16	6372	2	4165	13	9583	13	6544	6		
22	M C H - 1	3925	31	4357	15	5756	4	9432	15	5867	18		
23	M C H - 2	6074	15	2357	35	6044	3	10288	5	6191	12		

TABLE NO. 7 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 5	
		UDAI	R	BANS	R	KHED	R	CHHI	R	MEAN	R		
24	M C H - 3	4500	25	3009	29	6141	2	11002	1	6163	13		
25	M C H - 4	4152	28	4177	19	4869	6	10266	6	5866	19		
26	G K - 3046	6626	10	5821	5	1971	34	8174	27	5648	20		
27	G K - 3047	6799	8	3538	25	3080	25	7629	29	5261	23		
28	P A C - 71061	5375	21	6845	1	4295	12	8888	21	6351	8		
29	P A C - 71062	4446	26	5093	10	2122	33	7289	32	4738	30		
30	X - 2001	9718	1	5235	9	4823	7	8296	26	7018	3		
31	SEEDTEC - C 12	5908	18	5861	4	5637	5	9460	14	6716	4		
CHECKS:													
32	BIO - 9681	5905	19	4741	13	3833	17	9186	18	5916	16		
33	PARBHAT	6033	17	2746	33	3337	21	7652	28	4942	26		
34	GANGA - 11	5200	22	3743	24	2408	32	7456	31	4702	31		
35	PRO - 311	6141	13	6154	3	4533	10	9323	16	6538	7		
	MEAN YIELD=	5705		4285		3807		8983		5695			
	MEAN STAND	74		42		87		71		68			
	C.D. AT 5% =	276		875		627		963		685			
	C.V. % =	3.45		14.57		11.75		7.64		-			
	F (Prob) =	.000		.000		.000		.000		-			
	PLOT SIZE=	12.00		12.00		12.00		11.20		-			
AGRONOMY DATA:													
	SOWING DATE(2003)	3-07		3-07		5-07		27-06		-			
	HARVEST DATE(2003)	14-10		16-10		9-10		22-10		-			
	IRRIGATION NOS	-		-		-		-		-			
	FERTILIZER APPLIED N	100		80		100		120		-			
	P	60		60		50		60		-			
	K	-		-		-		40		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 24.3% : DAHO 28.4%

TABLE NO. 7 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681					ZN 5 MEAN
		UDAI	BANS	KHED	CHHI		
1	A H - 01410	3.56	-	-	-	-	-
2	A H - 01415	-	-	-	-	-	-
3	B H - 2355	-	-	-	-	-	-
4	B H - 2358	38.09	4.74	19.33	15.40	19.56	19.56
5	B H - 2523	-	-	3.91	-	-	-
6	B H - 2528	47.72	-	-	4.50	11.08	11.08
7	B H - 2348	-	-	-	-	-	-
8	B H - 2356	-	-	-	-	-	-
9	B H - 2854	-	-	-	-	-	-
10	B H - 2202	24.70	3.95	-	8.44	5.97	5.97
11	H K H - 1215	-	-	-	-	-	-
12	B I O - 20212	8.02	12.66	12.82	0.36	6.75	6.75
13	ROBUST	11.14	14.71	-	-	2.33	2.33
14	BISCO - 902	18.35	-	23.30	10.99	5.09	5.09
15	ZAURI - 2009	-	-	-	-	-	-
16	A A M H - 459	13.55	-	5.44	8.43	-	-
17	X 1280 B	-	-	-	14.54	-	-
18	X 1231 H	15.64	-	3.28	11.52	1.82	1.82
19	POOJA	-	-	-	9.02	-	-
20	N E C H - 117	56.98	11.88	74.82	17.07	35.34	35.34
21	N E C H - 118	2.55	34.39	8.66	4.32	10.61	10.61
22	M C H - 1	-	-	50.19	2.67	-	-
23	M C H - 2	2.85	-	57.68	11.99	4.63	4.63
24	M C H - 3	-	-	60.23	19.77	4.17	4.17
25	M C H - 4	-	-	27.02	11.76	-	-
26	G K - 3046	12.21	22.78	-	-	-	-
27	G K - 3047	15.14	-	-	-	-	-
28	P A C - 71061	-	44.39	12.06	-	7.34	7.34
29	P A C - 71062	-	7.42	-	-	-	-
30	X - 2001	64.57	10.43	25.84	-	18.62	18.62
31	SEEDTEC - C 12	0.04	23.61	47.06	2.98	13.52	13.52
CHECKS:							
32	BIO - 9681	-	-	-	-	-	-
33	PARBHAT	2.15	-	-	-	-	-
34	GANGA - 11	-	-	-	-	-	-
35	PRO - 311	3.99	29.79	18.26	1.49	10.50	10.50

TABLE NO. 7 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARBHAT					ZN 5 MEAN
		UDAI	BANS	KHED	CHHI		
1	A H - 01410	1.38	48.28	-	-	-	-
2	A H - 01415	-	-	-	-	-	-
3	B H - 2355	-	27.82	-	-	-	43.14
4	B H - 2358	35.17	80.86	37.07	38.54	-	4.52
5	B H - 2523	-	54.20	19.35	13.45	-	32.99
6	B H - 2528	44.60	52.86	12.91	25.45	-	-
7	B H - 2348	-	55.55	-	18.24	-	-
8	B H - 2356	-	43.32	-	14.82	-	-
9	B H - 2854	-	38.33	4.72	12.07	-	3.06
10	B H - 2202	22.07	79.50	-	30.18	-	26.87
11	H K H - 1215	-	14.25	-	13.24	-	-
12	B I O - 20212	5.75	94.55	29.59	20.48	-	27.81
13	ROBUST	8.80	98.09	-	16.21	-	22.51
14	BISCO - 902	15.85	7.80	41.62	33.25	-	25.82
15	ZAURI - 2009	-	4.46	-	-	-	-
16	A M H - 459	11.16	6.24	21.11	30.17	-	19.52
17	X 1280 B	-	38.75	13.39	37.51	-	11.53
18	X 1231 H	13.21	11.57	18.63	33.88	-	21.90
19	POOJA	-	71.32	-	30.88	-	6.47
20	N E C H - 117	53.67	93.20	100.81	40.55	-	62.04
21	N E C H - 118	0.38	132.08	24.81	25.24	-	32.42
22	M C H - 1	-	58.68	72.51	23.26	-	18.73
23	M C H - 2	-	-	81.12	34.45	-	25.27
24	M C H - 3	-	-	84.05	43.78	-	24.71
25	M C H - 4	0.68	-	45.90	34.17	-	18.70
26	G K - 3046	-	9.59	-	6.82	-	14.29
27	G K - 3047	9.84	52.12	-	-	-	6.47
28	P A C - 71061	12.71	112.02	28.72	16.15	-	28.51
29	P A C - 71062	-	28.85	-	-	-	-
30	X - 2001	61.10	149.33	44.55	8.41	-	42.02
31	SEEDTEC - C 12	-	85.50	68.93	23.63	-	35.91
	CHECKS:		113.46				
32	BIO - 9681	-	72.68	14.87	20.05	-	19.72
33	PARBHAT	-	-	-	-	-	-
34	GANGA - 11	-	36.32	-	-	-	-
35	PRO - 311	1.80	124.13	35.84	21.84	-	32.29

TABLE NO. 7 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE GANGA - 11					Zn 5 MEAN
		UDAI	BANS	KHED	CHHI		
1	A H - 01410	17.62	8.77	13.40	-	-	3.32
2	A H - 01415	-	-	22.31	-	-	-
3	B H - 2355	-	-	16.96	1.82	-	50.45
4	B H - 2358	56.83	32.67	89.93	42.18	-	9.86
5	B H - 2523	-	13.11	65.38	16.43	-	39.78
6	B H - 2528	67.77	12.13	56.45	28.75	-	4.09
7	B H - 2348	-	14.10	4.72	21.34	-	3.83
8	B H - 2356	-	5.14	5.00	17.84	-	8.32
9	B H - 2854	-	1.47	45.11	15.02	-	33.35
10	B H - 2202	41.63	31.67	17.27	33.60	-	16.21
11	H K H - 1215	-	-	-	16.21	-	34.34
12	B I O - 20212	22.69	42.71	79.57	23.65	-	28.77
13	ROBUST	26.23	45.31	37.95	19.27	-	32.24
14	BISCO - 902	34.41	-	96.24	36.75	-	-
15	ZAURI - 2009	5.86	-	37.77	-	-	25.62
16	A A M H - 459	28.96	-	67.82	33.59	-	17.22
17	X 1280 B	-	1.78	57.11	41.13	-	28.12
18	X 1231 H	31.34	-	64.38	37.40	-	11.91
19	POOJA	-	25.67	38.45	34.32	-	70.31
20	N E C H - 117	78.29	41.72	178.25	44.24	-	39.18
21	N E C H - 118	16.47	70.24	72.94	28.53	-	24.80
22	M C H - 1	-	16.40	139.04	26.50	-	31.67
23	M C H - 2	16.81	-	150.97	37.99	-	31.08
24	M C H - 3	-	-	155.02	47.56	-	24.76
25	M C H - 4	-	11.59	102.16	37.69	-	20.13
26	G K - 3046	27.44	55.52	-	9.62	-	11.90
27	G K - 3047	30.76	-	27.89	2.32	-	35.08
28	P A C - 71061	3.37	82.89	78.36	19.20	-	0.76
29	P A C - 71062	-	36.08	-	-	-	49.27
30	X - 2001	86.91	39.88	100.29	11.26	-	42.85
31	SEEDTEC - C 12	13.62	56.58	134.07	26.88	-	25.84
CHECKS:							
32	BIO - 9681	13.57	26.67	59.16	23.21	-	5.11
33	PARBHAT	16.02	-	38.56	2.63	-	-
34	GANGA - 11	-	-	-	-	-	-
35	PRO - 311	18.10	64.41	88.22	25.04	-	39.05

TABLE NO. 7 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRO - 311					Zn 5 MEAN
		UDAI	BANS	KHED	CHHI		
1	A H - 01410	-	-	-	-	-	-
2	A H - 01415	-	-	-	-	-	-
3	B H - 2355	-	-	-	-	-	-
4	B H - 2358	32.79	-	0.91	13.71	8.20	-
5	B H - 2523	-	-	-	-	-	-
6	B H - 2528	42.05	-	-	2.97	0.52	-
7	B H - 2348	-	-	-	-	-	-
8	B H - 2356	-	-	-	-	-	-
9	B H - 2854	-	-	-	-	-	-
10	B H - 2202	19.92	-	-	6.85	-	-
11	H K H - 1215	-	-	-	-	-	-
12	B I O - 20212	3.88	-	-	-	-	-
13	ROBUST	6.88	-	-	-	-	-
14	BISCO - 902	13.81	-	4.26	9.37	-	-
15	ZAURI - 2009	-	-	-	-	-	-
16	A A M H - 459	9.20	-	-	6.84	-	-
17	X 1280 B	-	-	-	12.86	-	-
18	X 1231 H	11.21	-	-	9.88	-	-
19	POOJA	-	-	-	7.42	-	-
20	N E C H - 117	50.96	-	47.83	15.35	22.49	-
21	N E C H - 118	-	3.55	-	2.79	0.10	-
22	M C H - 1	-	-	27.00	1.17	-	-
23	M C H - 2	-	-	33.34	10.35	-	-
24	M C H - 3	-	-	35.49	18.01	-	-
25	M C H - 4	-	-	7.41	10.12	-	-
26	G K - 3046	7.90	-	-	-	-	-
27	G K - 3047	10.72	-	-	-	-	-
28	P A C - 71061	-	11.25	-	-	-	-
29	P A C - 71062	-	-	-	-	-	-
30	X - 2001	58.26	-	6.41	-	7.35	-
31	SEEDTEC - C 12	-	-	24.36	1.47	2.73	-
CHECKS:							
32	BIO - 9681	-	-	-	-	-	-
33	PARBHAT	-	-	-	-	-	-
34	GANGA - 11	-	-	-	-	-	-
35	PRO - 311	-	-	-	-	-	-

TABLE NO. 7 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST					ZN 5 MEAN
		UDAI	BANS	KHED	CHHI	ZN 5 MEAN	UDAI	BANS	KHED	CHHI	ZN 5 MEAN	
1	A H - 01410	86.8	79.5	79.0	92.5	84.4	15.4	16.5	16.1	17.8	16.5	16.5
2	A H - 01415	89.5	82.3	78.0	91.0	85.2	15.9	16.5	16.0	18.5	16.7	16.3
3	B H - 2355	87.5	80.5	79.8	94.8	85.6	14.3	16.0	15.0	19.8	16.3	16.8
4	B H - 2358	95.0	81.8	80.3	95.3	88.1	18.4	17.1	15.6	20.0	17.8	16.4
5	B H - 2523	88.8	81.5	77.8	93.8	85.4	15.8	15.9	14.6	19.3	16.4	16.6
6	B H - 2528	89.3	82.5	81.5	93.5	86.7	15.2	16.7	15.5	19.0	16.6	16.6
7	B H - 2348	89.5	82.3	79.8	95.0	86.8	16.8	16.8	15.3	20.0	17.2	17.2
8	B H - 2356	90.0	81.5	80.0	95.5	86.9	16.8	16.9	16.0	19.9	17.6	17.0
9	B H - 2854	91.5	81.5	79.3	95.5	86.9	17.8	16.9	15.3	20.2	17.0	17.0
10	B H - 2202	91.0	81.8	79.8	99.3	87.9	16.3	16.5	14.9	20.7	16.7	16.7
11	H K H - 1215	78.8	82.3	78.0	98.0	84.3	13.3	16.6	16.2	20.7	16.7	16.7
12	B I O - 20212	87.8	79.3	78.5	93.3	84.7	16.1	17.1	16.2	18.8	17.0	17.0
13	ROBUST	89.0	77.5	78.5	95.8	85.2	13.6	16.9	16.1	19.5	16.5	16.5
14	BISCO - 902	88.5	80.3	80.8	96.5	86.5	15.9	16.8	15.5	19.7	17.0	17.0
15	ZAURI - 2009	89.3	81.5	81.8	98.0	87.6	16.1	16.4	15.6	19.5	16.9	16.9
16	A A M H - 459	91.5	80.5	77.8	98.0	86.9	15.6	16.5	15.1	19.3	16.6	16.6
17	X 1280 B	86.3	81.0	81.0	98.8	86.8	18.0	16.9	15.0	19.1	17.3	17.3
18	X 1231 H	90.0	81.0	80.3	97.3	87.2	16.7	16.7	15.3	19.5	17.1	17.2
19	POOJA	87.8	81.8	81.0	97.3	86.9	16.7	16.7	15.3	20.0	17.2	17.2
20	N E C H - 117	90.8	81.8	83.5	97.0	88.3	15.4	17.0	16.5	19.3	17.1	17.1
21	N E C H - 118	89.3	81.3	77.3	97.8	86.4	16.1	18.0	16.3	19.5	17.5	17.5
22	M C H - 1	87.8	81.3	78.5	99.3	86.7	16.6	16.3	16.4	19.8	17.3	17.3
23	M C H - 2	91.0	81.3	80.5	98.0	87.7	16.6	16.5	16.1	19.8	17.1	17.1
24	M C H - 3	87.8	83.3	80.8	98.5	87.6	16.0	16.9	15.5	20.7	17.4	17.4
25	M C H - 4	86.8	79.8	78.5	98.0	85.8	16.0	17.0	16.2	20.3	17.4	17.4
26	G K - 3046	87.5	81.0	78.5	91.5	85.8	15.9	16.8	16.0	18.8	16.9	16.9
27	G K - 3047	87.8	81.0	76.5	92.3	84.4	15.3	17.4	15.6	18.3	16.7	16.7
28	P A C - 71061	89.3	83.3	81.0	92.5	86.5	13.0	17.5	15.1	18.4	16.0	16.0
29	P A C - 71062	86.0	82.0	78.8	94.0	85.2	12.9	16.4	15.0	19.1	15.8	15.8
30	X - 2001	89.8	81.5	79.8	96.5	86.9	16.1	16.6	16.0	19.0	17.0	17.0
31	SEEDTEC - C 12	90.8	80.5	79.8	99.0	87.5	15.3	17.3	15.3	18.9	16.7	16.7
CHECKS:												
32	BIO - 9681	86.3	78.5	77.5	91.8	83.5	15.4	17.3	15.5	18.0	16.5	16.5
33	PARBHAT	90.0	81.5	78.3	96.3	86.5	16.4	16.9	16.7	18.7	17.2	17.2
34	GANGA - 11	88.5	81.3	79.0	97.3	86.5	15.1	16.8	16.1	19.5	16.9	16.9
35	PRO - 311	88.5	79.0	79.0	91.0	84.4	16.5	17.7	16.1	19.1	17.4	17.4
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												

TABLE NO. 7 (CONT.)

Sl NO	PEDIGREE	PLANT ASPECT *				EAR ASPECT *				ZN 5 MEAN
		UDAI	BANS	KHED	ZN 5 MEAN	UDAI	BANS	KHED	CHHI	
1	A H - 01410	2.0	2.1	2.8	2.3	1.9	2.0	4.0	2.0	2.5
2	A H - 01415	2.3	2.4	2.8	2.5	1.9	2.3	3.8	2.0	2.5
3	B H - 2355	2.4	2.1	2.5	2.3	2.5	2.0	3.5	2.0	2.5
4	B H - 2358	1.8	2.1	3.0	2.3	1.5	2.1	2.8	1.0	1.8
5	B H - 2523	2.9	2.3	2.8	2.6	2.8	2.1	3.5	2.0	2.6
6	B H - 2528	1.8	2.1	2.8	2.4	1.4	2.1	4.0	1.0	1.6
7	B H - 2348	2.3	2.3	2.8	2.4	2.6	2.1	3.8	1.5	2.6
8	B H - 2356	2.1	2.4	3.0	2.5	2.3	2.1	3.3	1.0	2.2
9	B H - 2854	1.6	2.1	3.0	2.2	1.8	2.1	3.3	1.0	2.0
10	B H H - 1215	4.3	2.3	4.0	3.5	1.4	2.3	5.0	2.0	3.4
11	B H H - 20212	1.8	2.0	2.5	2.1	1.7	2.1	3.8	2.0	2.4
12	H I O - 20212	1.8	2.1	3.0	2.3	1.8	1.9	3.5	1.0	2.0
13	ROBUST	1.7	2.0	2.0	1.9	1.7	1.2	3.0	1.0	2.0
14	BISCO - 902	1.8	2.4	2.5	2.2	1.7	2.3	3.8	1.5	2.1
15	ZAURI - 2009	1.8	2.5	2.8	2.4	1.5	2.1	3.5	1.0	2.2
16	A A M H - 459	1.8	2.4	3.5	2.5	2.2	2.0	3.0	1.0	2.0
17	X 1280 B	1.9	2.4	2.8	2.4	2.2	2.1	3.8	1.0	2.1
18	X 1231 H	2.8	2.3	2.3	2.4	1.9	1.9	3.3	1.0	1.3
19	POOJA	2.0	2.0	2.5	2.4	1.8	1.9	3.3	1.0	2.0
20	N E C H - 117	1.8	2.1	3.3	2.4	1.7	1.9	3.5	1.0	1.9
21	N E C H - 118	2.2	2.1	3.3	2.5	2.0	2.1	3.5	1.0	2.0
22	M C H - 1	2.3	2.3	2.5	2.3	2.3	2.1	3.3	1.0	1.9
23	M C H - 2	2.4	2.1	2.5	2.3	1.9	2.1	3.0	1.0	1.9
24	M C H - 3	2.0	2.4	2.3	2.6	1.9	2.3	4.0	1.5	2.5
25	M C H - 4	1.9	2.4	2.8	2.4	1.7	2.3	4.0	1.0	2.4
26	M G K - 3046	2.0	2.3	2.8	2.4	2.5	2.1	3.8	1.5	2.4
27	G K - 3047	2.1	2.3	3.3	2.5	2.5	2.0	3.8	2.0	2.4
28	P A C - 71061	2.0	2.3	2.8	2.4	2.5	2.1	3.8	1.5	2.4
29	P A C - 71062	2.1	2.3	3.3	2.5	2.5	2.0	3.8	1.5	2.4
30	X - 2001	1.9	2.1	2.8	2.3	2.5	2.1	3.8	1.5	2.4
31	SEEDTEC - C 12	2.0	2.1	2.5	2.2	2.0	1.8	2.5	1.0	1.8
CHECKS:										
32	BIO - 9681	2.0	2.3	3.0	2.4	1.9	2.0	3.8	1.5	2.3
33	PARBHAT	2.1	2.3	3.3	2.5	2.3	2.0	3.8	1.0	2.3
34	GANGA - 11	2.0	1.8	2.8	2.3	1.8	1.9	4.0	2.0	2.7
35	PRO - 311	2.1	2.2	2.8	2.4	2.1	2.1	3.4	1.4	2.2
MEAN LOCATION										
C.D. AT 5% =										
C.V. % =										
F (Prob) =										
		18.2	11.3	31.2	0.7	15.8	13.1	17.1	10.8	-
		.000	.074	.807	-	.000	.651	.000	.000	-

TABLE NO. 7 (CONT.)

Sl No	PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 5 MEAN
		UDAI	BANS	KHED	CHHI	UDAI	BANS	KHED	CHHI	
1	A H - 01410	1.5	2.4	2.8	1.8	1.9	2.4	3.3	1.3	2.2
2	A H - 01415	1.8	2.3	3.0	1.5	1.8	2.3	3.3	1.0	2.1
3	B H - 2355	2.0	2.3	3.0	1.5	2.2	2.3	3.5	1.0	2.2
4	B H - 2358	1.6	2.4	3.5	1.5	1.8	2.3	2.8	1.0	2.0
5	B H - 2523	1.9	2.1	3.0	1.0	1.8	2.0	3.5	1.0	2.2
6	B H - 2528	1.9	2.3	4.0	1.3	1.5	2.3	3.0	1.3	2.2
7	B H - 2356	1.9	2.3	3.3	1.5	2.2	2.4	3.0	1.0	2.2
8	B H - 2854	1.6	2.1	3.0	1.5	1.5	2.3	3.0	1.0	1.9
9	B H H - 1215	1.9	2.3	3.8	1.0	2.0	2.5	3.0	1.3	2.5
10	H K H - 2202	1.4	2.3	3.8	1.0	2.0	2.5	3.0	1.3	2.0
11	H K H - 1215	1.7	2.1	3.8	1.3	1.9	1.9	3.0	1.5	2.0
12	H I O - 20212	1.9	2.0	3.0	1.0	1.9	1.1	3.0	1.5	2.0
13	ROBUST	1.6	2.1	3.3	1.3	1.9	2.2	3.0	1.5	2.2
14	BISCO - 902	1.7	2.6	3.3	1.5	1.8	2.4	3.0	1.0	2.2
15	ZAURI - 2009	1.9	2.3	3.3	1.2	1.8	2.2	3.0	1.5	2.2
16	A M H - 459	1.9	2.5	4.0	1.5	2.0	2.5	4.0	1.3	2.1
17	X 1280 B	1.7	2.4	3.5	1.0	1.9	2.4	4.0	1.0	2.3
18	X 1231 H	1.7	2.3	3.3	1.0	1.9	2.4	3.5	1.0	2.1
19	POOJA H - 117	1.6	2.0	3.3	1.0	1.9	2.4	3.5	1.0	1.8
20	N E C H - 118	1.8	2.4	3.3	1.0	2.0	2.6	3.5	1.0	1.9
21	N E C H - 1	1.8	2.4	3.3	1.0	1.6	2.0	3.5	1.0	2.0
22	M C H - 2	1.8	2.4	3.3	1.0	1.7	2.3	3.5	1.0	1.9
23	M C H - 3	1.5	2.3	3.5	1.0	1.6	2.0	3.5	1.0	2.2
24	M C H - 4	1.5	2.3	3.5	1.0	1.6	2.0	3.5	1.0	2.2
25	M C K - 3046	1.5	2.3	4.0	1.5	2.0	2.3	3.5	1.0	2.2
26	G K - 3047	1.8	2.4	4.3	1.5	1.9	2.3	3.5	1.0	2.1
27	P A C - 71061	1.6	2.3	4.3	1.3	1.9	2.1	3.5	1.0	2.1
28	P A C - 71062	1.6	2.3	3.5	1.0	1.9	2.1	3.5	1.0	2.1
29	P A C - 71062	1.6	2.3	3.5	1.0	1.9	2.1	3.5	1.0	2.1
30	X - 2001	1.8	2.1	4.3	1.3	1.9	2.1	3.5	1.0	2.2
31	SEEDTEC - C 12	1.7	1.9	3.3	1.3	1.9	2.1	3.5	1.0	1.9
CHECKS:										
32	BIO - 9681	1.8	2.4	3.5	1.3	1.8	2.1	3.5	1.3	2.2
33	PARBHAT	2.0	2.3	3.8	1.3	2.2	2.1	3.8	1.3	2.3
34	GANGA - 11	1.7	2.4	3.5	1.3	2.2	2.1	3.5	1.3	2.1
35	PRO - 311	1.9	2.2	3.5	1.3	2.0	2.2	3.1	1.1	2.1
MEAN LOCATION										
C.D. AT 5% =										
C.V. % =										
F (Prob) =										

TABLE NO. 7 (CONT.)

S1 NO	PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 5 MEAN
		UDAI	BANS	KHED	CHHI	ZN 5 MEAN	UDAI	BANS	KHED	CHHI	ZN 5 MEAN	
1	A H - 01410	205	193	181	185	191	108	106	95	93	100	
2	A H - 01415	173	164	197	183	179	86	71	91	79	82	
3	B H - 2355	230	185	185	193	191	90	86	91	88	89	
4	B H - 2358	203	208	190	226	213	121	110	95	113	110	
5	B H - 2523	195	200	186	195	194	105	81	91	75	88	
6	B H - 2528	203	205	176	215	200	94	101	88	95	95	
7	B H - 2348	189	200	191	200	195	89	83	92	86	87	
8	B H - 2356	214	199	182	210	201	103	84	94	98	94	
9	B H - 2854	199	188	175	203	191	93	100	88	89	92	
10	B H - 2202	205	203	186	214	202	101	101	96	109	102	
11	H K H - 1215	153	181	183	179	174	85	96	96	98	94	
12	B I O - 20212	199	194	193	206	198	99	85	93	90	92	
13	ROBUST	196	175	184	194	187	106	84	88	94	91	
14	BISCO - 902	205	183	183	199	192	98	83	88	105	96	
15	ZAURI - 2009	171	169	164	181	171	86	70	90	86	83	
16	A M H - 459	209	203	184	209	201	103	98	94	114	102	
17	X 1280 B	219	204	191	211	206	99	95	88	90	93	
18	X 1231 H	253	216	210	204	221	128	105	95	101	107	
19	POOJA	184	214	183	193	193	99	108	81	91	95	
20	N E C H - 117	218	185	183	208	198	126	83	91	109	102	
21	N E C H - 118	230	201	174	203	202	119	103	90	105	104	
22	N E C H - 1	196	186	194	198	193	96	88	95	93	93	
23	M C H - 2	209	154	193	195	188	90	70	96	91	87	
24	M C H - 3	193	178	192	193	189	98	93	96	101	97	
25	M C H - 4	195	165	188	186	184	103	81	83	98	91	
26	G K - 3046	206	204	193	201	201	88	99	91	88	91	
27	G K - 3047	219	189	186	201	199	110	86	91	85	93	
28	P A C - 71061	181	195	192	190	190	101	101	95	84	90	
29	P A C - 71062	205	183	194	199	195	103	75	98	93	92	
30	X - 2001	219	203	192	191	201	106	99	89	84	94	
31	SEEDTEC - C 12	205	183	186	194	192	108	90	96	93	97	
CHECKS:												
32	BIO - 9681	209	194	191	196	197	88	85	89	85	87	
33	PARBHAT	205	188	189	206	197	100	91	95	111	99	
34	GANGA - 11	230	226	193	215	216	111	120	94	109	109	
35	PRO - 311	184	175	186	203	187	99	83	94	111	97	
MEAN LOCATION												
C.D. AT 5% =		24.4	6.7	20.7	22.4	18.5	17.8	8.3	13.9	14.2	13.5	
C.V. % =		8.6	2.5	7.9	8.0	-	12.7	6.5	10.8	10.6	-	
F (Prob)		.000	.000	.295	.016	-	.000	.000	.958	.000	-	

TABLE NO. 7 (CONT.)

Sl No	PEDIGREE	EAR NO. / PLANT				STAND AT HARVEST				ZN 5 MEAN
		UDAI	BANS	KHED	CHHI	UDAI	BANS	KHED	CHHI	
1	A H - 01410	0.99	0.89	0.96	0.91	80	48	85	65	70
2	A H - 01415	1.02	0.95	0.96	0.97	70	25	88	76	65
3	B H - 2355	1.00	1.04	0.95	0.97	78	39	90	70	69
4	B H - 2358	1.00	0.83	0.77	0.95	89	58	84	70	75
5	B H - 2523	1.01	0.84	0.88	0.96	79	54	91	79	76
6	B H - 2528	1.02	0.73	0.96	0.95	80	38	86	72	69
7	B H - 2348	1.02	0.94	0.93	0.96	60	44	85	75	66
8	B H - 2356	1.01	0.72	0.93	0.93	76	38	83	71	67
9	B H - 2854	1.00	0.81	0.97	0.96	84	37	88	70	70
10	B H - 2202	1.01	0.87	0.96	0.95	74	30	90	80	70
11	H K H - 1215	1.03	0.93	0.97	0.98	43	37	88	59	55
12	B I O - 20212	1.02	0.97	0.96	0.96	85	42	86	80	73
13	ROBUST	1.04	0.96	0.78	0.99	83	51	88	70	73
14	BISCO - 902	1.04	0.85	0.89	0.95	81	46	87	70	71
15	ZAURI - 2009	1.01	0.95	0.93	0.97	71	25	89	44	57
16	A M H - 459	1.00	0.84	0.95	0.94	74	36	80	61	63
17	X 1280 B	1.00	0.85	0.95	0.93	74	39	89	79	70
18	X 1231 H	1.02	0.94	0.96	0.97	73	39	95	76	71
19	POOJA	1.01	1.11	0.99	0.94	66	41	91	76	68
20	N E C H - 117	1.01	1.11	0.93	0.96	78	45	91	75	72
21	N E C H - 118	1.03	1.00	0.96	0.98	76	51	88	73	72
22	M C H - 1	1.00	0.97	0.96	0.98	80	38	83	70	68
23	M C H - 2	1.03	1.05	0.92	0.96	69	33	86	67	63
24	M C H - 3	1.03	1.11	0.74	0.91	68	33	86	78	66
25	M C H - 4	1.01	1.10	0.88	0.94	71	48	88	70	69
26	G K - 3046	1.02	1.05	0.95	0.94	83	44	83	69	69
27	G K - 3047	1.00	1.01	0.95	0.86	76	45	85	67	68
28	P A C - 71061	1.01	1.04	0.96	0.94	70	44	90	75	70
29	P A C - 71062	1.10	1.02	0.96	1.02	69	51	84	58	65
30	X - 2001	1.02	0.98	0.94	0.92	73	42	90	80	71
31	SEEDTEC - C 12	1.00	1.08	0.71	0.92	64	49	85	71	67
CHECKS:										
32	BIO - 9681	1.05	1.01	0.94	0.92	70	49	91	80	73
33	PARBHAT	1.01	1.09	0.96	0.97	82	27	86	59	64
34	GANGA - 11	1.02	1.12	0.95	0.95	55	49	93	75	68
35	PRO - 311	1.01	1.03	0.99	0.99	75	49	87	81	73
MEAN LOCATION										
C.D. AT 5% =										
C.V. =										
F (Prob) =										
5.7 6.9 7.9 9.9										
5.5 11.8 6.5 9.9										
.000 .000 .174 .000										

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

TABLE NO. 8

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT POONCH, ALMORA, KANGRA, IN AET 1st YEAR, TRIAL NO. TR66Z1 DURING KHARIF (2003).

S1 NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE NAVJOT			Zn 1 MEAN		
	POON	R	ALMO	R	KANG	R	Zn 1 R	POON	ALMO		KANG	
1 P M Z-131 (RETEST.)	8727	4	8761	4	3421	4	6969	4	17.22	26.05	-	14.80
2 ZAURI - 2027	9097	2	9283	3	3674	3	7352	3	22.19	33.57	-	21.10
3 ZAURI - 2021	10003	1	10709	1	3407	5	8040	1	34.36	54.08	-	32.43
CHECKS:												
4 NAVJOT	7445	5	6950	5	3817	2	6071	5	-	-	-	-
5 KH - 510	8948	3	9876	2	4767	1	7863	2	20.18	42.10	24.87	29.53
MEAN YIELD=	8844		9116		3817		7259					
MEAN STAND	70		35		51		52					
C.D. AT 5% =	1289		1668		911		1289					
C.V. % =	9.61		12.06		15.74		-					
F (Prob)	.014		.002		.015		-					
PLOT SIZE=	12.00		5.85		13.00		-					
AGRONOMY DATA:												
SOWING DATE (2003)	24-06		8-07		21-06		-					
HARVEST DATE (2003)	14-10		5-11		25-09		-					
IRRIGATION NOS	-		-		-		-					
FERTILIZER APPLIED N	150		100		80		-					
P	100		60		60		-					
K	50		40		40		-					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : BAJA 28.4% : UMIA 29.2%

TABLE NO. 8 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KH - 510			DAYS TO 50% POLLEN SHED		
	POON	ALMO	KANG	POON	ALMO	KANG
1 P M Z-131 (RETEST.)	-	-	-	61.3	57.0	52.8
2 ZAURI - 2027	1.67	-	-	61.8	56.5	54.0
3 ZAURI - 2021	11.80	8.43	2.24	62.5	58.8	54.5
CHECKS:						
4 NAVJOT	-	-	-	60.8	55.5	53.0
5 KH - 510	-	-	-	60.5	57.0	53.8
MEAN LOCATION	-	-	-	61.3	57.0	53.6
C.D. AT 5% =	-	-	-	1.4	0.9	1.2
C.V. % =	-	-	-	1.5	1.0	1.5
F (Prob)	-	-	-	.053	.000	.051

S1 NO PEDIGREE	DAYS TO 50% SILKING			DRY HUSK			MOISTURE% AT		
	POON	ALMO	KANG	POON	ALMO	KANG	ALMO	KANG	MEAN
1 P M Z-131 (RETEST.)	64.3	58.3	56.5	104.5	109.5	90.3	38.0	25.7	31.9
2 ZAURI - 2027	64.8	58.0	57.3	104.8	108.5	87.3	36.8	25.5	31.1
3 ZAURI - 2021	65.3	60.0	57.8	108.5	108.8	86.3	38.0	28.1	33.1
CHECKS:									
4 NAVJOT	63.8	57.0	57.8	103.8	104.5	88.0	31.5	26.0	28.7
5 KH - 510	63.5	58.0	56.8	102.8	104.0	88.3	34.0	25.5	29.8
MEAN LOCATION	64.3	58.3	57.2	104.8	107.1	88.0	35.7	26.1	30.9
C.D. AT 5% =	1.2	1.1	1.1	1.5	1.0	0.9	1.8	2.6	2.2
C.V. % =	1.3	1.3	1.2	1.0	0.6	0.7	3.2	6.5	-
F (Prob)	.055	.002	.076	.000	.000	.000	.000	.195	-

TABLE NO. 8 (CONT.)

Sl No	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *				
		POON	ALMO	KANG	POON	ALMO	KANG	POON	ALMO	KANG		
		ZN 1 MEAN			ZN 1 MEAN			ZN 1 MEAN				
1	P M Z-131 (RETEST.)	1.3	2.5	2.5	2.1	1.8	2.4	2.5	2.2	1.0	2.0	1.5
2	ZAURI - 2027	1.0	2.5	2.3	1.9	1.0	2.2	2.5	1.9	1.3	2.3	1.8
3	ZAURI - 2021	1.3	2.5	2.5	2.1	1.0	2.3	2.5	1.9	1.0	2.5	1.8
	CHECKS:											
4	NAVJOT	1.3	2.7	2.5	2.2	1.5	2.7	2.0	2.1	1.8	2.0	1.9
5	KH - 510	1.0	2.5	3.0	2.2	1.3	2.5	2.3	2.0	1.0	2.2	1.6
	MEAN LOCATION	1.1	2.5	2.5	2.1	1.3	2.4	2.3	2.0	1.2	2.2	1.7
	C.D. AT 5% =	0.4	0.1	0.7	0.4	0.6	0.2	0.8	0.5	0.5	0.1	0.3
	C.V. % =	23.8	2.6	18.9	-	30.6	5.0	22.0	-	25.2	3.5	-
	F (Prob)	.445	.001	.329	-	.083	.001	.577	-	.017	.000	-

Sl No	PEDIGREE	UNIFORMITY *			PLANT HEIGHT (cm)			EAR HEIGHT (cm)				
		POON	ALMO	KANG	POON	ALMO	KANG	POON	ALMO	KANG		
		ZN 1 MEAN			ZN 1 MEAN			ZN 1 MEAN				
1	P M Z-131 (RETEST.)	2.0	2.8	2.4	229	254	218	234	120	128	107	118
2	ZAURI - 2027	1.3	2.7	2.0	216	243	198	219	117	127	97	114
3	ZAURI - 2021	1.3	2.7	2.0	227	257	209	231	122	130	103	118
	CHECKS:											
4	NAVJOT	2.0	2.8	2.4	228	248	221	232	128	129	113	123
5	KH - 510	1.8	2.8	2.3	219	248	219	228	118	129	111	119
	MEAN LOCATION	1.7	2.8	2.2	224	250	213	229	121	128	106	118
	C.D. AT 5% =	0.5	0.2	0.3	10.2	9.4	18.3	12.6	13.7	6.7	7.3	9.3
	C.V. % =	19.2	3.7	-	3.0	2.5	5.6	-	7.4	3.4	4.5	-
	F (Prob)	.013	.403	-	.044	.045	.086	-	.459	.934	.004	-

TABLE NO. 8 (CONT.)

S1 NO PEDIGREE	EAR NO. / PLANT				H.turc. * H.maydis *			ZN 1
	POON	ALMO	KANG	MEAN	ALMO	KANG	ALMO	MEAN
1 P M Z-131 (RETEST.)	1.03	1.05	0.99	1.02	1.7	2.2	1.8	2.0
2 ZAURI - 2027	1.02	1.03	0.96	1.00	1.5	2.2	1.8	2.0
3 ZAURI - 2021	0.95	1.01	1.06	1.01	1.8	2.2	1.3	1.7
CHECKS:								
4 NAVJOT	1.06	1.03	1.03	1.04	2.0	2.2	3.3	2.7
5 KH - 510	1.03	1.02	1.09	1.05	1.5	2.3	1.8	2.0
MEAN LOCATION								
C.D. AT 5% =	-	-	-	-	1.7	2.2	2.0	2.1
C.V. % =	-	-	-	-	0.3	0.3	0.8	0.6
F (Prob)	-	-	-	-	11.2	9.5	26.5	-
					.010	.976	.002	-

S1 NO PEDIGREE	STAND AT HARVEST				H.turc. * H.maydis *			ZN 1
	POON	ALMO	KANG	MEAN	ALMO	KANG	ALMO	MEAN
1 P M Z-131 (RETEST.)	72	37	52	54				
2 ZAURI - 2027	70	34	50	51				
3 ZAURI - 2021	70	34	51	51				
CHECKS:								
4 NAVJOT	70	35	50	51				
5 KH - 510	71	36	55	54				
MEAN LOCATION								
C.D. AT 5% =	4.5	2.6	6.9	4.7				
C.V. % =	4.2	4.8	8.7	-				
F (Prob)	.825	.052	.454	-				

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

TABLE NO. 9

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, GURDASPUR, KARNAL, MAINPURI KANPUR IN AET 1st YEAR, TRIAL No. TR66Z2 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												
		DELH	R	LUDH	R	GURD	R	KARN	R	KANP	MAIN	R	ZN 2	R
1	B H - 2359	5568	3	8539	1	7316	2	5463	1	2550	1	5887	1	
2	B H - 2809	5495	4	6104	4	4470	7	4971	3	2377	7	4683	5	
3	H K H - 1203	5246	5	6249	3	5575	3	4554	5	2446	4	4814	4	
4	H K H - 1208	4965	6	4897	8	4553	6	3302	8	2410	5	4025	8	
5	SEEDTEC - 1081	6154	1	7450	2	8267	1	5036	2	2451	2	5872	2	
6	ZAURI - 2027	3894	8	5368	6	4956	5	3768	7	2449	3	4087	7	
7	NAVJOT	4856	7	4901	7	4390	8	4392	6	2378	6	4183	6	
8	KH - 510	6083	2	5978	5	5036	4	4632	4	2355	8	4817	3	
	MEAN YIELD=	5283		6186		5570		4515		2427		4796		
	MEAN STAND	66		72		79		37		65		64		
	C.D. AT 5%=	1743		1215		1404		119		294		955		
	C.V. % =	18.95		13.43		17.24		1.51		8.27		-		
	F (Prob)	.127		.000		.000		.000		.023		-		
	PLOT SIZE=	15.00		10.40		10.40		11.20		12.00		-		
	AGRONOMY DATA:													
	SOWING DATE (2003)	8-07		28-06		3-07		30-06		18-07		-		
	HARVEST DATE (2003)	20-10		9-10		1-10		1-10		13-10		-		
	IRRIGATION Nos	-		3		2		3		-		-		
	FERTILIZER APPLIED N	120		125		125		150		120		-		
	P	80		60		60		60		60		-		
	K	40		30		30		-		60		-		

TABLE NO. 9 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT						ZIN 2 MEAN
	DELH	LUDH	GURD	KARN	KANP MAIN	KANP MAIN	
1 B H - 2359	14.67	74.22	66.66	24.40	7.24	40.73	
2 B H - 2809	13.17	24.54	1.84	13.18	-	11.96	
3 H K H - 1203	8.04	27.50	27.00	3.69	2.88	15.08	
4 H K H - 1208	2.24	-	3.73	-	1.33	-	
5 SEEDTEC - 1081	26.73	52.01	88.34	14.69	3.06	40.36	
6 ZAURI - 2027	-	9.52	12.91	-	2.98	-	
CHECKS:							
7 NAVJOT	-	-	-	-	-	-	
8 KH - 510	25.27	21.97	14.73	5.47	-	15.15	

S1 NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KH - 510						ZIN 2 MEAN
	DELH	LUDH	GURD	KARN	KANP MAIN	KANP MAIN	
1 B H - 2359	-	42.83	45.26	17.95	8.28	22.22	
2 B H - 2809	-	2.10	-	7.31	0.92	-	
3 H K H - 1203	-	4.53	10.69	-	3.88	-	
4 H K H - 1208	-	-	-	-	2.31	-	
5 SEEDTEC - 1081	1.17	24.62	64.16	8.73	4.07	21.90	
6 ZAURI - 2027	-	-	-	-	3.98	-	
CHECKS:							
7 NAVJOT	-	-	-	-	0.97	-	
8 KH - 510	-	-	-	-	-	-	

TABLE NO. 9 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 2	
		DELH	LUDH	GURD	KARN	DELH	LUDH	GURD	KARN	MEAN	MEAN
1	B H - 2359	44.7	52.5	54.3	49.3	49.0	54.5	60.3	52.0	53.9	53.9
2	B H - 2809	48.3	53.5	52.8	49.7	50.7	54.5	58.8	51.7	53.9	53.9
3	H K H - 1203	46.3	52.3	52.5	51.7	48.0	53.3	57.8	54.0	53.3	53.3
4	H K H - 1208	45.0	50.0	50.3	51.7	47.7	52.0	56.3	54.0	52.5	52.5
5	SEEDTEC - 1081	48.0	54.3	51.3	49.7	50.0	56.8	57.5	53.0	54.3	54.3
6	ZAURI - 2027	47.7	54.5	51.5	50.7	50.0	55.8	57.3	53.7	54.2	54.2
CHECKS:											
7	NAVJOT	44.7	50.5	48.8	48.7	47.7	52.5	54.5	51.0	51.4	51.4
8	KH - 510	47.0	53.3	52.0	50.3	49.3	54.3	56.8	52.3	53.2	53.2
MEAN LOCATION											
	C.D. AT 5% =	1.0	1.2	4.3	1.0	1.2	1.0	3.8	0.6	1.7	1.7
	C.V. % =	1.2	1.5	5.7	1.1	1.5	1.2	4.5	0.7	-	-
	F (Prob)	.000	.000	.304	.000	.001	.000	.157	.000	-	-

S1 NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE & AT HARVEST				PLANT ASPECT *		
		LUDH	GURD	KARN	MEAN	LUDH	GURD	MEAN	DELH	DELH	KANP	ZN 2
1	B H - 2359	95.0	83.0	84.7	87.6	23.0	23.5	16.3	20.9	2.0	2.4	2.2
2	B H - 2809	96.0	83.3	86.0	88.4	23.6	24.2	15.8	21.2	1.5	3.0	2.3
3	H K H - 1203	93.3	82.8	89.0	88.3	22.6	21.6	16.5	20.2	2.2	2.8	2.5
4	H K H - 1208	91.3	82.3	89.0	87.5	22.4	22.2	16.0	20.2	1.7	2.9	2.3
5	SEEDTEC - 1081	95.8	83.0	89.0	89.3	23.1	24.5	16.0	21.2	1.7	2.8	2.2
6	ZAURI - 2027	95.8	82.3	88.0	88.7	23.5	23.5	16.0	21.0	2.3	3.0	2.7
CHECKS:												
7	NAVJOT	91.8	82.3	87.3	87.1	22.6	23.0	16.5	20.7	2.3	2.6	2.5
8	KH - 510	95.0	82.5	87.0	88.2	23.6	23.0	16.5	21.1	1.7	2.6	2.1
MEAN LOCATION												
	C.D. AT 5% =	0.6	1.0	1.2	1.0	0.5	0.8	1.0	0.8	0.4	0.6	0.5
	C.V. % =	0.5	0.8	0.8	-	1.6	2.4	4.1	-	13.4	15.1	-
	F (Prob)	.000	.262	.000	-	.000	.000	.610	-	.005	.437	-

TABLE NO. 9 (CONT.)

S1 NO	PEDIGREE	EAR ASPECT *		Zn 2 MEAN	HUSK COV. *	UNIF. MAIN	PLANT HEIGHT (cm)				KARNP MAIN	Zn 2 MEAN
		DELH	KANP MAIN				DELH	LU DH	GURD	KARN		
1	B H - 2359	2.0	2.4	2.2	2.4	2.4	205	174	223	187	133	184
2	B H - 2809	1.8	3.1	2.4	3.3	3.3	205	165	216	175	131	178
3	H K H - 1203	2.0	2.9	2.4	2.8	2.6	215	175	220	188	135	187
4	H K H - 1208	2.0	3.0	2.5	3.1	3.1	180	153	198	170	124	165
5	SEEDTEC - 1081	1.5	2.9	2.2	2.8	2.8	220	166	220	190	138	187
6	ZAURI - 2027	2.0	3.0	2.5	3.0	2.9	204	161	205	183	134	177
CHECKS:												
7	NAVJOT	2.0	2.6	2.3	2.8	2.5	215	183	210	188	147	189
8	KH - 510	1.8	2.4	2.1	2.5	2.5	220	176	211	193	142	189
MEAN LOCATION												
	C.D. AT 5%	0.2	0.5	0.4	0.6	0.6	14.1	13.0	16.8	10.6	15.8	14.1
	C.V. %	6.2	12.6	-	15.3	15.4	3.9	5.2	5.4	3.3	8.0	-
	F (Prob)	.001	.036	-	.114	.077	.001	.003	.071	.004	.161	-

S1 NO	PEDIGREE	EAR HEIGHT (cm)		Zn 2 MEAN	KARNP MAIN	KARN	EAR NO. / PLANT				Zn 2 MEAN	
		DELH	LU DH				GURD	KARN	DELH	LU DH		GURD
1	B H - 2359	85	78	85	56	97	1.00	0.95	0.94	0.94	0.97	
2	B H - 2809	98	79	88	60	98	1.01	0.98	0.90	0.90	0.96	
3	H K H - 1203	95	83	90	64	98	0.97	0.99	0.84	0.84	0.93	
4	H K H - 1208	78	71	79	59	85	0.98	0.97	0.83	0.83	0.93	
5	SEEDTEC - 1081	88	78	84	63	93	0.93	0.98	0.77	0.77	0.89	
6	ZAURI - 2027	93	83	89	59	100	1.01	1.02	0.90	0.90	0.98	
CHECKS:												
7	NAVJOT	90	99	92	63	102	0.95	1.01	0.85	0.85	0.94	
8	KH - 510	85	89	87	61	102	0.97	1.05	0.89	0.89	0.97	
MEAN LOCATION												
	C.D. AT 5%	13.2	12.1	11.5	10.1	7.5	-	-	-	-	-	
	C.V. %	8.5	10.0	9.3	4.4	4.4	-	-	-	-	-	
	F (Prob)	.103	.005	.535	.005	.005	-	-	-	-	-	

TABLE NO. 9 (CONT.)

Sl No	PEDIGREE	H. LEAF & STAND AT HARVEST		BLIGHT*		KARN MAIN	KARN MEAN
		maydis GURD	SHEATH GURD	DELH GURD	LUDH GURD		
1	B H - 2359	2.5	2.3	68	77	45	68
2	B H - 2809	2.1	2.8	61	66	40	60
3	H K H - 1203	2.0	2.5	62	72	33	63
4	H K H - 1208	2.4	2.9	64	62	27	59
5	SEEDTEC - 1081	1.6	2.3	73	77	31	65
6	ZAURI - 2027	1.6	2.5	62	74	35	63
CHECKS:							
7	NAVJOT	2.3	2.5	76	73	36	66
8	KH - 510	2.0	2.1	64	75	50	67
MEAN LOCATION							
	C.D. AT 5%	0.4	0.5	14.8	7.8	3.9	6.9
	C.V. %	14.2	14.6	12.7	7.4	5.9	-
	F (Prob)	.002	.098	.375	.005	.000	.012

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

TABLE NO. 10

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI RANCHI, JASHIPUR, AMBIKAPUR IN AET 1st YEAR, TRIAL No. TR66Z3 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															ZN 3		
		BELI	VARA	DHOL	RANC	JASH	AMBI	R	MEAN	R	MEAN	R	MEAN	R	MEAN	R	MEAN	R	MEAN
1	B H - 2359	4081	9	5333	4	5095	6	4312	8	4820	8	4537	7	4697	8				
2	B H - 2809	5668	3	4164	6	6190	3	5825	1	5519	3	4913	5	5380	3				
3	E H - 30624	4114	6	3314	10	3337	11	3258	12	3872	11	3948	12	3640	11				
4	H K H - 1208	3571	12	3242	11	4607	9	4233	10	4187	10	4049	11	3981	9				
5	B I O - 22027	4956	4	6036	2	4851	7	5582	2	6425	1	5199	1	5508	2				
6	P M Z-131(RETEST.)	6141	1	3575	9	5716	5	4813	6	5423	4	4471	8	5023	5				
7	SEEDTEC - 1081	4770	5	4818	5	6702	2	5202	5	5739	2	4996	3	5371	4				
8	ZAURI - 2027	3602	11	3948	7	2746	12	4239	9	4666	9	4245	9	3907	10				
9	A A M H - 513	4091	8	3655	8	5888	4	5524	4	5032	7	4650	6	4807	7				
10	N E C H - 120	5682	2	5357	3	7226	1	5532	3	5079	6	5114	2	5665	1				
CHECKS:																			
11	NAVJOT	3722	10	2752	12	3549	10	3845	11	3603	12	4078	10	3592	12				
12	KH - 510	4104	7	6115	1	4733	8	4462	7	5364	5	4923	4	4950	6				
	MEAN YIELD=	4542		4359		5053		4736		4977		4593		4710					
	MEAN STAND	68		70		-		39		53		72		60					
	C.D. AT 5%=	427		216		1188		662		184		622		550					
	C.V. % =	6.55		3.45		16.34		9.74		2.57		9.44		-					
	F (Prob)	.000		.000		.000		.000		.000		.000		-					
	PLOT SIZE=	12.00		15.00		15.00		10.50		12.00		15.00		-					
AGRONOMY DATA:																			
	SOWING DATE(2003)	2-07		26-06		1-07		4-07		12-07		26-06		-					
	HARVEST DATE(2003)	13-10		28-09		20-10		30-10		3-11		-		-					
	IRRIGATION Nos	-		-		-		1		-		-		-					
	FERTILIZER APPLIED N	120		100		100		100		120		100		-					
	P	60		60		60		60		60		60		60					
	K	60		40		40		40		60		40		40					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : KUSHMOHOT 35.8%

TABLE NO. 10 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED							ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI		
1	B H - 2359	53.5	47.0	52.0	47.5	47.3	50.5	49.6	
2	B H - 2809	52.3	49.3	52.3	54.0	49.0	51.5	51.4	
3	E H - 30624	50.0	45.7	49.5	48.3	46.0	46.5	47.7	
4	H K H - 1208	52.5	48.0	51.3	51.5	46.0	50.3	50.0	
5	B I O - 22027	54.3	49.0	51.8	51.5	45.5	51.3	50.5	
6	P M Z-131 (RETEST.)	52.3	48.7	52.0	50.8	46.3	52.5	50.4	
7	SEEDTEC - 1081	54.3	48.0	53.5	53.3	46.8	52.0	51.3	
8	ZAURI - 2027	52.3	48.3	51.3	49.8	45.8	51.5	49.8	
9	A A M H - 513	53.8	47.0	51.5	50.5	47.0	52.5	50.4	
10	N E C H - 120	53.3	51.0	51.5	53.3	46.3	52.0	51.2	
CHECKS:									
11	NAVJOT	50.3	49.0	50.3	50.0	44.5	48.5	48.8	
12	KH - 510	52.5	47.7	52.0	51.3	46.3	50.0	49.9	
MEAN LOCATION									
	C.D. AT 5% =	0.7	2.9	1.4	3.0	1.7	1.3	1.8	
	C.V. % =	0.9	4.1	1.9	4.1	2.6	1.8	-	
	F (Prob)	.000	.081	.001	.002	.003	.000	-	

Sl No	PEDIGREE	DAYS TO 50% SILKING							ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI		
1	B H - 2359	55.5	51.3	54.3	54.0	51.3	54.5	53.5	
2	B H - 2809	54.5	55.3	54.5	56.8	52.0	55.3	54.7	
3	E H - 30624	52.5	50.3	52.0	50.5	49.3	51.3	51.0	
4	H K H - 1208	55.0	51.7	54.3	55.5	49.5	55.0	53.5	
5	B I O - 22027	56.5	54.3	54.5	55.5	48.8	55.5	54.2	
6	P M Z-131 (RETEST.)	54.5	54.0	54.8	54.5	49.0	55.8	53.7	
7	SEEDTEC - 1081	56.5	53.3	56.3	57.0	49.5	55.5	54.7	
8	ZAURI - 2027	54.3	53.0	53.5	53.5	49.3	55.5	53.2	
9	A A M H - 513	55.8	52.7	54.3	54.5	50.0	56.3	53.9	
10	N E C H - 120	55.3	54.7	53.8	55.3	49.5	55.3	53.9	
CHECKS:									
11	NAVJOT	52.8	53.3	53.0	53.8	47.8	53.5	52.3	
12	KH - 510	54.8	52.7	55.0	54.8	48.8	54.8	53.4	
MEAN LOCATION									
	C.D. AT 5% =	1.0	3.2	1.6	1.5	1.7	1.0	1.7	
	C.V. % =	1.3	4.2	2.1	1.9	2.3	1.3	-	
	F (Prob)	.000	.115	.003	.000	.001	.000	-	

TABLE NO. 10 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST					ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	GORA BELI	VARA	RANC	JASH	ZN 3 MEAN	
1	B H - 2359	88.3	84.3	79.0	90.3	90.8	25.0	33.7	22.6	21.2	86.3	25.6
2	B H - 2809	85.8	84.7	80.0	91.0	88.5	25.7	35.2	21.6	24.0	86.1	26.6
3	E H - 30624	80.3	80.7	76.8	88.3	86.3	24.8	27.8	21.8	20.7	82.7	23.8
4	H K H - 1208	83.3	81.3	77.3	89.0	87.8	23.6	30.5	21.5	21.1	84.0	24.2
5	B I O - 22027	89.3	84.0	78.3	90.0	90.0	25.6	31.2	22.1	21.3	86.1	25.0
6	P M Z-131 (RETEST.)	86.0	83.3	79.0	89.8	88.8	25.7	35.8	21.8	20.6	85.3	26.7
7	SEEDTEC - 1081	86.3	82.3	78.8	91.8	88.8	26.0	33.5	22.7	20.6	85.4	26.0
8	ZAURI - 2027	87.0	81.3	77.3	90.3	89.0	25.1	34.2	23.1	21.3	84.9	25.9
9	A A M H - 513	86.3	81.0	78.8	91.0	88.8	24.2	34.6	21.3	22.3	85.3	25.6
10	N E C H - 120	87.8	84.3	79.8	91.0	89.0	25.4	32.8	22.3	20.4	86.3	25.2
CHECKS:												
11	NAVJOT	84.3	84.0	77.3	90.0	86.5	23.4	30.1	22.7	20.8	84.3	24.3
12	KH - 510	84.5	82.3	76.8	90.5	88.0	24.9	32.9	21.7	21.0	84.3	25.1
MEAN LOCATION												
C.D. AT 5% =		2.0	3.1	1.2	90.2	88.5	25.0	32.7	22.1	21.3	85.1	25.3
C.V. % =		1.7	2.6	1.1	1.3	1.4	2.1	0.7	0.4	0.4	2.1	0.9
F (Prob) =		.000	.078	.000	.021	.001	.170	.000	.000	.000	-	-

SI NO	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 3 MEAN
		GORA BELI	VARA	DHOL	JASH	AMBI	GORA BELI	VARA	DHOL	JASH	AMBI	
1	B H - 2359	2.3	1.5	2.8	1.0	2.5	2.6	1.5	3.3	1.5	2.5	2.3
2	B H - 2809	2.8	1.5	2.4	1.3	2.4	2.0	1.5	2.4	1.0	2.6	1.9
3	E H - 30624	3.0	3.0	2.9	2.0	2.6	2.8	2.0	3.1	2.0	2.7	2.5
4	H K H - 1208	2.8	2.5	2.8	2.0	2.8	2.5	2.0	3.0	2.0	2.7	2.5
5	B I O - 22027	2.5	1.5	2.9	1.0	2.4	2.1	1.5	2.8	1.0	2.4	2.0
6	P M Z-131 (RETEST.)	1.6	2.3	1.8	1.0	2.8	2.1	2.3	2.0	1.5	2.5	2.1
7	SEEDTEC - 1081	2.5	2.0	1.9	1.0	2.6	2.6	2.0	2.8	1.5	2.4	2.1
8	ZAURI - 2027	2.5	2.0	3.8	2.0	2.5	2.6	2.0	2.8	2.0	2.5	2.4
9	A A M H - 513	2.8	2.0	2.5	2.0	2.5	2.3	2.0	2.5	2.0	2.7	2.3
10	N E C H - 120	2.5	3.0	2.1	1.0	2.5	2.2	3.0	2.0	1.0	2.4	2.1
CHECKS:												
11	NAVJOT	3.1	2.5	3.0	2.0	2.6	3.0	2.0	2.5	2.5	2.5	2.5
12	KH - 510	2.5	2.0	3.1	1.0	2.3	2.3	1.5	3.3	1.0	2.3	2.1
MEAN LOCATION												
C.D. AT 5% =		2.6	2.1	2.6	1.4	2.5	2.4	2.0	2.6	1.5	2.5	2.2
C.V. % =		0.5	0.1	0.9	0.2	0.3	0.4	0.1	0.7	0.4	0.4	0.4
F (Prob) =		14.0	2.7	23.9	10.0	8.3	12.6	4.4	19.0	18.7	9.9	-
		.000	.000	.005	.000	.150	.001	.000	.003	.000	.507	-

TABLE NO. 10 (CONT.)

SI NO	PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 3 MEAN	ZN 3 AMBI	ZN 3 JASH	ZN 3 DHOL	ZN 3 RANC	ZN 3 JASH	ZN 3 AMBI	ZN 3 MEAN					
		GORA BELI	VARA	JASH	AMBI	GORA BELI	VARA	DHOL	JASH													
1	B H - 2359	2.1	1.8	1.8	2.3	2.0	2.1	1.8	3.0	2.0	2.8	2.3	2.3	2.0	2.3	2.8	2.3					
2	B H - 2809	2.0	1.5	1.5	2.3	1.8	2.4	1.8	2.6	2.3	2.5	2.3	2.3	2.3	2.7	2.5	2.3					
3	E H - 30624	2.0	2.0	2.0	2.7	2.2	2.6	2.5	3.4	2.5	2.7	2.7	2.7	2.8	2.7	2.7	2.7					
4	H K H - 1208	2.6	3.0	2.0	2.8	1.8	2.4	2.5	2.9	2.0	2.4	2.4	2.4	2.0	2.4	2.4	2.2					
5	H I O - 22027	2.1	1.5	1.3	2.2	1.6	2.1	1.5	2.9	2.0	2.4	2.2	2.2	2.0	2.4	2.2	2.2					
6	P M Z-131 (RETEST.)	1.6	2.0	1.5	2.5	1.9	2.0	2.0	2.5	2.0	2.5	2.3	2.3	2.0	2.5	2.7	2.6					
7	SEEDTEC - 1081	1.9	2.0	1.5	2.6	2.0	2.4	2.3	3.3	2.3	2.7	2.3	2.3	2.3	2.7	2.6	2.4					
8	ZAURI - 2027	2.0	1.5	2.0	2.7	2.0	2.4	2.3	3.0	2.3	2.6	2.4	2.4	2.3	2.7	2.4	2.4					
9	A A M H - 513	2.5	2.5	2.0	2.5	2.4	1.9	2.3	3.0	2.5	2.6	2.4	2.4	2.5	2.6	2.4	2.4					
10	N E C H - 120	2.0	2.3	1.3	2.5	2.0	2.4	2.5	2.3	2.3	2.5	2.3	2.3	2.3	2.5	2.5	2.4					
CHECKS:																						
11	NAVJOT	2.4	2.3	2.0	2.5	2.3	2.6	2.3	2.8	3.0	2.5	2.6	2.6	3.0	2.5	2.5	2.6					
12	KH - 510	1.6	1.5	1.3	2.3	1.7	1.9	1.8	3.3	2.0	2.3	2.3	2.3	2.0	2.3	2.3	2.2					
MEAN LOCATION																						
C.D. AT 5% =																						
C.V. % =																						
F (Prob) =																						
PLANT HEIGHT (cm)																						
SI NO	PEDIGREE	GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN
1	B H - 2359	188	217	176	175	166	223	191	85	73	74	77	64	82	76	85	73	74	77	64	82	76
2	B H - 2809	181	235	173	173	174	224	193	86	77	86	78	70	86	81	86	77	86	78	70	86	81
3	E H - 30624	175	210	176	174	167	216	186	81	92	95	76	71	80	82	81	92	95	76	71	80	82
4	H K H - 1208	161	182	146	157	143	190	163	83	68	68	60	54	63	66	83	68	68	60	54	63	66
5	H I O - 22027	175	227	167	169	165	225	188	78	67	73	71	62	76	71	78	67	73	71	62	76	71
6	P M Z-131 (RETEST.)	183	225	169	173	160	217	188	95	85	81	76	68	85	81	95	85	81	76	68	85	81
7	SEEDTEC - 1081	179	207	171	168	158	218	183	81	70	81	72	67	77	75	81	70	81	72	67	77	75
8	ZAURI - 2027	162	180	154	164	155	198	169	78	67	82	66	63	68	71	78	67	82	66	63	68	71
9	A A M H - 513	183	212	179	165	170	222	188	73	63	85	73	65	73	72	73	63	85	73	65	73	72
10	N E C H - 120	171	213	180	179	171	223	190	93	87	94	75	67	85	83	93	87	94	75	67	85	83
CHECKS:																						
11	NAVJOT	182	215	182	169	168	218	189	85	72	92	74	76	77	79	85	72	92	74	76	77	79
12	KH - 510	174	218	167	167	165	221	185	80	75	79	74	62	77	75	80	75	79	74	62	77	75
MEAN LOCATION																						
C.D. AT 5% =																						
C.V. % =																						
F (Prob) =																						

TABLE NO. 10 (CONT.)

S1	EAR NO. / PLANT				STAND AT HARVEST				ZN 3			
	GORA	VARA	RANC	AMBI	ZN 3	H. may. *	GORA	ZN 3				
No PEDIGREE	BELI	VARA	RANC	AMBI	MEAN	BELI	BELI	VARA	RANC	JASH	AMBI	MEAN
1 B H - 2359	0.98	-	1.12	1.00	1.03	1.6	67	74	41	51	72	61
2 B H - 2809	0.97	-	1.10	1.01	1.03	1.8	67	70	43	55	78	63
3 E H - 30624	0.98	-	1.05	0.98	1.00	1.6	67	67	44	47	76	60
4 H K H - 1208	0.98	0.93	1.04	0.99	0.98	2.0	55	63	22	45	55	48
5 B I O - 22027	0.98	0.87	1.08	0.97	0.98	1.3	74	78	47	59	79	67
6 P M Z-131 (RETEST.)	0.98	0.89	1.01	0.99	0.97	1.5	76	72	46	58	76	65
7 SEEDTEC - 1081	0.99	0.98	0.96	1.03	0.99	1.4	68	69	32	50	64	56
8 ZAURI - 2027	0.98	1.00	1.05	1.00	1.01	1.6	65	66	35	51	72	58
9 A A M H - 513	0.97	0.89	1.02	0.99	0.97	1.5	70	66	43	49	70	60
10 N E C H - 120	0.97	0.96	1.05	1.01	1.00	1.6	72	77	42	58	71	64
CHECKS:												
11 NAVJOT	0.97	0.97	1.05	0.98	0.99	2.8	64	67	36	53	71	58
12 KH - 510	0.97	0.89	1.07	0.98	0.98	1.8	71	69	40	58	78	63
MEAN LOCATION												
C.D. AT 5% =	-	-	-	-	-	0.5	5.7	4.3	7.5	6.5	6.4	6.1
C.V. % =	-	-	-	-	-	21.3	5.9	4.2	13.2	8.5	6.2	-
F (Prob)	-	-	-	-	-	.000	.000	.000	.000	.000	.000	.000

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

TABLE NO. 11

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, IN AET 1st YEAR, TRIAL NO. TR66Z4 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 4	
		KARI	R	ARBH	R	MAND	R	COIM	R	MEAN	R		
1	B H - 2359	9220	5	3308	23	-	3513	17	5347	18			
2	B H - 2809	8021	13	5592	25	7002	3208	20	5956	14			
3	E C - 3121	5671	22	4627	17	6313	3208	21	4955	20			
4	WC - 14 - 1 (DBM)	6475	19	4630	16	-	3630	15	4911	21			
5	H K H - 1203	6986	18	4947	13	-	3597	16	5177	19			
6	H K H - 1208	5818	21	5225	11	-	2904	23	4649	22			
7	L - 166	7548	15	4614	18	6679	3825	13	5666	17			
8	P M Z - 237	6255	20	4381	19	8738	4312	9	5921	15			
9	P M Z - 131 (RETESTING)	9238	4	5348	10	8468	4088	12	6786	14			
10	BISCO - 1102	8561	10	5367	8	9180	4817	6	6981	3			
11	SEEDTEC - 201	8683	8	5363	9	7546	4976	5	6642	7			
12	SEEDTEC - 1081	8620	9	6213	2	7575	4257	10	6666	6			
13	SEEDTEC - 168	9069	6	3933	21	7594	3697	14	6073	13			
14	ZAURI - 2027	9037	7	5205	12	8097	3385	18	6431	8			
15	A A M H - 513	7572	14	5586	6	6950	3212	19	5830	16			
16	X 1280 A	10639	1	7661	1	-	4981	4	7760	1			
17	J K M H - 1001	9324	3	4764	15	6920	4187	11	6299	11			
18	N E C H - 120	10193	2	6211	3	6980	5195	2	7145	2			
19	X - 26	7453	16	5420	7	8625	5558	1	6764	5			
20	N M H - 20507	7209	17	4921	14	7432	5005	3	6142	12			
21	M C H - 7	8107	12	4183	20	8677	4389	8	6339	10			
22	NAVJOT	5459	23	3739	22	-	2948	22	4049	23			
23	KH - 510	8453	11	6040	4	-	4760	7	6418	9			
	MEAN YIELD=	7983		5099		5338	4072		5623				
	MEAN STAND	76		69		43	48		59				
	C. D. AT 5% =	1576		1148		1976	389		1272				
	C. V. % =	13.99		15.96		15.46	6.77		-				
	F. (Prob)	0.000		0.000		0.091	0.000		-				
	PLOT SIZE=	12.00		15.00		10.50	9.60		-				
	AGRONOMY DATA:												
	SOWING DATE (2003)	16-07		12-08		3-08	19-06		-				
	HARVEST DATE (2003)	28-10		16-12		6-12	15-10		-				
	IRRIGATION NOS	1		9		8	8		-				
	FERTILIZER APPLIED	N 150		150		150	135		-				
		P 60		75		75	63		-				
		K 40		38		40	50		-				

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

TABLE NO. 11 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD %			SUPERIORITY			OVER THE			Zn 4 MEAN	Zn 4 MEAN
	NAVJOT KARI	ARBH	MAND	COIM	MAND	COIM	KARI	ARBH	MAND		
1 B H - 2359	68.90	-	-	19.19	-	-	9.08	-	-	-	-
2 B H - 2809	46.95	49.53	-	8.84	-	-	-	-	-	-	-
3 E C - 3121	3.88	23.75	-	8.82	-	-	-	-	-	-	-
4 WC - 14 - 1 (DBM)	18.61	23.81	-	23.13	-	-	-	-	-	-	-
5 H K H - 1203	27.98	32.30	-	22.01	-	-	-	-	-	-	-
6 H K H - 1208	6.59	39.73	-	-	-	-	-	-	-	-	-
7 L - 166	38.28	23.38	-	29.76	-	-	-	-	-	-	-
8 P M Z - 237	14.58	17.15	-	46.28	-	-	-	-	-	-	-
9 P M Z-131(RETESTING)	69.24	43.02	-	38.68	-	-	9.30	-	-	-	5.73
10 BISCO - 1102	56.83	43.53	-	63.41	-	-	1.28	-	-	1.19	8.78
11 BISCO - 201	59.06	43.41	-	68.79	-	-	2.72	-	-	4.53	3.49
12 SEEDTEC - 1081	57.91	66.16	-	44.42	-	-	1.98	2.87	-	-	3.88
13 SEEDTEC - 168	66.14	5.18	-	25.40	-	-	7.29	-	-	-	-
14 ZAURI - 2027	65.56	39.18	-	14.83	-	-	6.92	-	-	-	0.21
15 A A M H - 513	38.71	49.39	-	8.95	-	-	-	-	-	-	-
16 X 1260 A	94.91	104.86	-	68.99	-	-	25.87	26.83	-	4.65	20.92
17 J K M H - 1001	70.81	27.40	-	42.03	-	-	10.30	-	-	-	-
18 N E C H - 120	86.73	66.09	-	76.23	-	-	20.59	2.83	-	9.13	11.33
19 X - 26	36.53	44.95	-	88.55	-	-	-	-	-	16.76	5.40
20 N M H - 20507	32.07	31.60	-	69.80	-	-	-	-	-	5.15	-
21 M C H - 7	48.53	11.87	-	48.90	-	-	-	-	-	-	-
CHECKS:											
22 NAVJOT	-	-	-	-	-	-	-	-	-	-	-
23 KH - 510	54.85	61.53	-	61.48	-	-	-	-	-	-	-

TABLE NO. 11 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING					
	KARI	ARBH	MAND	COIM	ZN 4 MEAN	KARI	ARBH	MAND	COIM	ZN 4 MEAN
1 B H - 2359	46.8	55.3	-	52.5	51.5	51.5	57.3	-	56.5	55.1
2 B H - 2809	49.0	57.3	49.7	55.5	52.9	53.3	58.8	50.3	58.5	55.2
3 E C - 3121	44.5	53.0	46.7	51.5	48.9	48.8	53.3	47.3	53.5	50.7
4 WC - 14 - 1 (DBM)	47.8	57.0	-	54.5	53.1	51.5	58.5	-	56.5	55.5
5 H K H - 1203	45.5	56.0	-	52.8	51.4	50.0	55.5	-	53.8	53.1
6 H K H - 1208	45.8	55.3	-	52.3	51.1	49.0	56.0	-	54.3	53.1
7 L - 166	46.0	55.8	46.7	52.8	50.3	51.3	58.3	49.0	55.8	53.6
8 P M Z - 237	45.8	56.3	47.7	53.3	50.7	49.0	57.0	49.3	56.5	53.0
9 P M Z-131(RETESTING)	46.8	55.8	48.3	55.3	51.5	50.0	56.8	50.0	58.0	53.7
10 BISCO - 1102	51.8	59.0	51.0	56.5	54.6	55.3	59.0	52.0	58.5	56.2
11 BISCO - 201	47.3	57.5	48.7	55.5	52.2	49.3	57.5	49.7	58.5	53.7
12 SEEDTEC - 1081	47.8	55.8	48.3	55.5	51.8	50.5	56.0	50.7	56.5	53.4
13 SEEDTEC - 168	46.5	59.3	48.0	54.0	51.9	50.3	60.0	50.0	57.0	54.3
14 ZAURI - 2027	45.5	54.8	47.7	54.0	50.5	49.3	57.0	49.0	56.8	53.0
15 A A M H - 513	45.0	55.3	48.3	52.8	50.3	49.3	57.0	50.0	56.5	53.2
16 X 1280 A	45.3	55.8	-	53.8	51.6	50.3	54.3	-	54.8	53.1
17 J K M H - 1001	44.5	56.3	49.0	53.5	50.8	48.8	57.3	50.0	54.5	52.6
18 N E C H - 120	46.8	55.0	48.3	52.3	50.6	50.5	55.8	50.3	53.3	52.5
19 X - 26	44.8	54.5	45.0	53.8	49.5	49.3	56.0	49.7	56.8	52.9
20 N M H - 20507	46.8	57.0	49.3	54.8	52.0	51.5	58.3	50.7	57.8	54.5
21 M C H - 7	48.0	56.5	50.0	54.3	52.2	52.0	56.8	52.3	55.3	54.1
CHECKS:										
22 NAVJOT	45.5	54.0	-	53.3	50.9	49.0	55.5	-	56.3	53.6
23 KH - 510	46.0	55.3	-	53.0	51.4	48.8	55.8	-	55.0	53.2
MEAN LOCATION										
C.D. AT 5% =	2.5	2.0	2.0	0.8	1.8	2.6	2.2	2.7	0.8	2.1
C.V. % =	3.8	2.6	2.5	1.1	-	3.7	2.8	3.3	1.1	-
F (Prob)	.000	.000	.000	.000	-	.000	.000	.168	.000	-

TABLE NO. 11 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT ASPECT *			
	KARI	MAND	COIM	ZN 4 MEAN	ARBH	MAND	ZN 4 MEAN	KARI	ARBH	MAND	COIM	ZN 4 MEAN
1 B H - 2359	85.5	-	98.3	91.9	17.8	-	17.8	1.5	3.0	-	3.0	2.5
2 B H - 2809	84.5	90.0	100.0	91.5	25.7	20.0	22.8	2.5	2.3	2.3	4.0	2.8
3 E C - 3121	82.0	91.3	94.8	89.4	19.8	20.2	20.0	2.8	3.0	2.0	3.0	2.7
4 WC - 14 - 1 (DBM)	85.0	-	97.5	91.3	22.7	-	22.7	2.8	3.0	-	4.0	3.3
5 H K H - 1203	83.8	-	102.3	93.0	23.1	-	23.1	2.0	3.0	-	4.0	3.0
6 H K H - 1208	83.8	-	95.8	89.8	21.0	-	21.0	2.5	2.8	-	4.0	3.1
7 L - 166	84.3	92.3	96.8	91.1	20.6	19.7	20.2	2.8	3.0	2.0	3.1	2.7
8 P M Z - 237	83.0	91.0	97.8	90.6	17.7	20.1	18.9	3.3	3.0	2.0	3.0	2.8
9 P M Z-131 (RETEST.)	84.3	92.0	99.0	91.8	26.0	19.7	22.8	2.3	2.3	2.0	3.0	2.4
10 BISCO - 1102	86.0	92.0	100.5	92.8	24.0	19.8	21.9	2.0	2.0	2.3	1.0	1.8
11 BISCO - 201	84.3	91.0	100.0	91.8	25.3	17.9	21.6	3.0	2.3	2.0	2.0	2.3
12 SEEDTEC - 1081	85.0	92.0	97.0	91.3	23.7	19.3	21.5	2.5	2.8	2.0	3.0	2.6
13 SEEDTEC - 168	84.8	93.0	98.5	92.1	24.0	18.3	21.1	3.0	3.0	2.0	3.0	2.8
14 ZAURI - 2027	83.5	93.0	98.0	91.5	23.6	18.1	20.9	2.5	2.8	2.3	3.0	2.6
15 A A M H - 513	83.0	89.0	97.5	89.8	18.2	19.0	18.6	2.8	2.3	2.0	4.0	2.8
16 X 1280 A	83.8	-	95.8	89.8	27.0	-	27.0	2.0	1.8	-	2.0	1.9
17 J K M H - 1001	83.0	92.3	96.3	90.5	20.3	19.3	19.8	2.0	2.8	2.0	2.0	2.2
18 N E C H - 120	85.0	92.3	95.3	90.9	28.0	18.2	23.1	2.8	2.5	2.7	1.0	2.2
19 X - 26	82.8	88.7	98.8	90.1	17.9	19.4	18.6	2.3	2.5	2.0	2.0	2.2
20 N M H - 20507	84.5	93.7	98.8	92.3	24.5	18.3	21.4	2.5	2.3	2.3	2.0	2.3
21 M C H - 7	85.0	92.0	96.8	91.3	18.0	19.1	18.5	2.3	2.8	2.0	1.0	2.0
CHECKS:												
22 NAVJOT	83.5	-	97.3	90.4	19.9	-	19.9	2.8	3.0	-	4.0	3.3
23 KH - 510	84.3	-	96.8	90.5	23.1	-	23.1	2.3	2.3	-	2.0	2.2
MEAN LOCATION												
C.D. AT 5% =	84.1	91.6	97.8	91.2	22.2	19.2	20.7	2.5	2.6	2.1	2.7	2.5
C.V. % =	1.9	2.5	1.8	2.1	2.5	2.0	2.3	0.9	0.2	0.5	0.1	0.4
F (Prob)	1.6	1.6	1.3	-	7.9	6.3	-	25.3	6.1	15.4	1.9	-
	.016	.010	.000	-	.000	.307	-	.050	.000	.327	.000	-

TABLE NO. 11 (CONT.)

S1 NO PEDIGREE	EAR ASPECT *				HUSK COVER *				ZN 4 MEAN	
	KARI	ARBH	MAND	COIM	ZN 4 MEAN	KARI	ARBH	MAND		COIM
1 B H - 2359	1.5	3.8	-	3.0	2.8	1.8	2.8	-	3.0	2.5
2 B H - 2809	2.0	2.8	2.0	4.0	2.7	1.5	2.0	2.0	3.0	2.1
3 E C - 3121	2.3	3.3	2.3	3.0	2.7	2.3	2.8	2.0	3.0	2.5
4 WC - 14 - 1 (DEM)	1.5	3.3	-	4.0	2.9	1.5	3.0	-	3.0	2.5
5 H K H - 1203	1.3	3.0	-	4.0	2.8	2.8	3.0	-	3.0	2.9
6 H K H - 1208	1.3	2.5	-	4.0	2.6	2.8	2.5	-	4.0	3.1
7 L - 166	2.0	3.0	2.0	3.1	2.5	1.8	3.0	2.7	3.1	2.6
8 P M Z - 237	2.0	3.3	2.0	3.0	2.6	2.3	2.3	2.3	2.0	2.2
9 P M Z-131(RETESTING)	1.5	2.5	1.7	3.0	2.2	1.8	2.0	2.0	2.0	1.9
10 BISCO - 1102	1.3	2.3	1.3	1.0	1.5	1.3	2.0	1.7	1.0	1.5
11 BISCO - 201	1.5	2.3	2.0	2.0	1.9	1.5	2.0	2.0	2.0	1.9
12 SEEDTEC - 1081	1.3	2.3	1.3	3.0	2.0	1.3	2.0	2.7	3.0	2.2
13 SEEDTEC - 168	2.0	3.5	2.3	3.0	2.7	1.5	2.5	2.0	3.0	2.3
14 ZAURI - 2027	1.3	3.0	2.0	3.0	2.3	1.8	2.3	2.0	3.0	2.3
15 A A M H - 513	1.8	3.3	2.7	4.0	2.9	1.8	2.3	2.0	3.0	2.3
16 X 1280 A	1.5	2.3	-	2.0	1.9	1.3	2.5	-	2.0	1.9
17 J K M H - 1001	1.3	3.3	2.0	2.0	2.1	2.0	2.3	2.3	2.0	2.1
18 N E C H - 120	1.8	2.5	2.3	1.0	1.9	1.5	2.3	2.3	1.0	1.8
19 X - 26	1.5	3.0	2.0	2.0	2.1	1.3	2.3	2.3	2.0	2.0
20 N M H - 20507	2.5	2.8	2.7	2.0	2.5	1.8	2.0	2.0	2.0	1.9
21 M C H - 7	1.3	2.5	1.7	1.0	1.6	1.7	2.5	2.3	1.0	1.9
CHECKS:										
22 NAVJOT	1.8	3.5	-	4.0	3.1	2.0	2.8	-	3.0	2.6
23 KH - 510	1.8	2.5	-	2.0	2.1	1.8	2.5	-	2.0	2.1
MEAN LOCATION										
C.D. AT 5%	1.6	2.9	2.0	2.7	2.3	1.8	2.4	2.2	2.4	2.2
C.V. % =	1.0	0.3	0.7	0.1	0.5	0.8	0.2	0.8	0.1	0.5
F (Prob)	42.6	8.1	21.6	1.9	-	33.0	6.5	22.6	2.1	-
	.394	.000	.018	.000	-	.010	.000	.544	.000	-

TABLE NO. 11 (CONT.)

S1 No PEDIGREE	UNIFORMITY *				PLANT HEIGHT (cm)				EAR HEIGHT (cm)				
	KARI	ARBH	MAND	COIM	ZN 4 MEAN	KARI	MAND	COIM	ZN 4 MEAN	KARI	MAND	COIM	ZN 4 MEAN
1 B H - 2359	1.0	3.0	-	3.0	2.3	175	-	178	176	63.3	-	74.5	68.9
2 B H - 2809	1.8	2.5	2.3	3.0	2.4	160	194	143	166	64.5	82.0	78.5	75.0
3 E C - 3121	3.5	3.0	2.0	3.0	2.9	164	193	149	169	60.0	75.3	73.0	69.4
4 WC - 14 - 1 (DBM)	3.5	3.0	-	3.0	3.2	177	-	173	175	76.3	-	78.0	77.1
5 H K H - 1203	2.0	2.8	-	3.0	2.6	162	-	166	164	62.3	-	76.0	69.1
6 H K H - 1208	3.0	2.8	-	3.0	2.9	157	-	141	149	52.5	-	65.0	58.8
7 L - 166	3.0	3.0	2.0	2.1	2.5	168	195	172	178	68.3	89.7	86.8	81.6
8 P M Z - 237	3.5	2.8	2.0	2.0	2.6	170	196	147	171	57.8	66.7	63.0	62.5
9 P M Z-131(RETEST.)	2.0	3.0	2.0	3.0	2.5	176	189	158	174	72.0	80.3	72.3	74.9
10 BISCO - 1102	1.5	2.0	1.7	2.0	1.8	147	203	159	170	64.0	89.7	76.3	76.6
11 BISCO - 201	3.5	2.5	2.0	2.0	2.5	168	197	155	173	60.5	88.7	75.8	75.0
12 SEEDTEC - 1081	2.3	2.8	2.0	3.0	2.5	165	190	156	170	60.8	79.7	77.3	72.6
13 SEEDTEC - 168	3.8	3.0	2.7	3.0	3.1	179	211	194	195	59.0	87.0	90.0	78.7
14 ZAURI - 2027	2.0	2.8	2.0	3.0	2.4	165	194	150	169	55.8	79.0	77.8	70.8
15 A A M H - 513	2.5	2.8	2.0	3.0	2.6	168	205	152	175	61.5	83.7	68.8	71.3
16 X 1280 A	1.5	1.8	-	2.0	1.8	180	-	184	182	64.5	-	84.3	74.4
17 J K M H - 1001	2.5	2.8	2.0	3.0	2.6	185	208	183	192	66.8	78.3	78.8	74.6
18 N E C H - 120	2.0	2.5	2.3	1.0	2.0	169	195	176	180	67.5	90.0	79.0	78.8
19 X - 26	1.5	3.0	2.0	2.0	2.1	166	197	178	180	58.5	71.0	81.3	70.3
20 N M H - 20507	2.5	2.8	2.0	1.0	2.1	169	202	179	183	62.5	91.0	81.0	78.2
21 M C H - 7	1.5	2.8	2.0	1.0	1.8	140	201	150	164	53.5	88.0	71.5	71.0
CHECKS:													
22 NAVJOT	3.8	3.0	-	3.0	3.3	166	-	152	159	57.5	-	66.5	62.0
23 KH - 510	2.0	2.8	-	2.0	2.3	166	-	172	169	61.3	-	76.8	69.0
MEAN LOCATION													
C.D. AT 5% =	1.4	0.2	0.7	0.1	0.6	12.7	24.0	7.2	14.6	11.5	18.2	5.2	11.6
C.V. % =	39.6	5.9	19.1	2.1	-	5.4	7.3	3.1	-	13.1	13.2	4.8	-
F (Prob)	.000	.000	.554	.000	-	.000	.657	.000	-	.026	.237	.000	-

TABLE NO. 11 (CONT.)

S1 NO PEDIGREE	EAR No./PLANT STAND AT HARVEST							ZN 4
	KARI	COIM	KARI	ARBH	MAND	COIM	MEAN	
1 B H - 2359	1.01	1.01	84	78	-	42	68	
2 B H - 2809	0.96	1.02	80	65	67	46	64	
3 E C - 3121	1.02	1.00	84	74	63	51	68	
4 WC - 14 - 1 (DEM)	0.94	1.01	74	63	-	38	58	
5 H K H - 1203	0.94	1.00	55	66	-	39	53	
6 H K H - 1208	0.95	1.00	49	45	-	35	43	
7 L - 166	0.96	1.01	86	64	60	52	65	
8 P M Z - 237	0.96	1.00	77	69	67	50	66	
9 P M Z-131 (RETESTING)	0.91	1.01	82	76	65	57	70	
10 BISCO - 1102	0.95	1.01	76	70	63	53	65	
11 BISCO - 201	0.89	1.01	72	69	55	53	62	
12 SEEDTEC - 1081	0.90	1.02	66	70	66	50	63	
13 SEEDTEC - 168	0.95	1.02	83	61	61	52	64	
14 ZAURI - 2027	0.95	1.01	75	59	58	42	58	
15 A A M H - 513	0.94	1.00	72	65	66	39	60	
16 X 1280 A	0.92	1.02	86	81	-	54	73	
17 J K M H - 1001	0.94	1.02	83	72	52	52	65	
18 N E C H - 120	0.94	1.02	82	84	59	54	70	
19 X - 26	0.97	1.00	80	77	60	53	67	
20 N M H - 20507	0.96	1.00	77	70	64	49	65	
21 M C H - 7	0.92	1.01	82	78	68	57	71	
CHECKS:								
22 NAVJOT	0.95	1.01	69	65	-	39	58	
23 KH - 510	0.94	1.00	80	72	-	49	67	
MEAN LOCATION								
C.D. AT 5%	-	-	9.0	9.5	8.2	4.6	7.8	
C.V. %	-	-	8.4	9.8	7.9	6.7	-	
F (Prob)	-	-	.000	.000	.010	.000	-	

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

TABLE NO. 12

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, PRATAPGARH, BANSWARA, DAHOD, KHEDBRAMHA, CHHINDIWARA IN AET 1st YEAR, TRIAL NO. TR66Z5 DURING KHARIF (2003).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													ZN 5	
		UDAI	R	PRAT	R	BANS	R	DAHO	R	KHED	R	CHHI	R	MEAN	R	
1	B H - 2359	3251	20	3754	20	5182	6	6324	9	5716	12	8080	11	5385	15	
2	B H - 2809	4418	17	4480	16	6121	2	5213	14	6582	1	8882	4	5949	9	
3	E C - 3121	5530	12	3927	19	3073	17	3706	20	4180	20	5799	19	4369	20	
4	E C - 3122	5227	15	4359	18	2835	20	4097	18	6467	2	6258	17	4874	17	
5	H K H - 1208	4140	18	4967	13	3063	18	4749	17	4684	17	6172	18	4629	18	
6	B I O - 22027	6170	10	6342	11	5283	5	7164	2	6123	6	8818	5	6650	4	
7	P M Z - 237	5782	11	5676	6	4516	10	5625	12	5111	16	7422	15	5689	14	
8	BISCO - 201	7578	4	5552	7	4026	14	7495	1	5290	14	8700	6	6440	5	
9	SEEDTEC - 1081	8204	3	6011	4	4665	9	6850	4	5962	7	8297	9	6655	3	
10	SEEDTEC - 168	5373	13	5773	5	4337	11	6484	7	6128	5	7796	12	5982	8	
11	ZAURI - 2027	5273	14	4789	14	4167	13	5713	11	4378	19	7251	16	5262	16	
12	A A M H - 513	6697	6	5344	10	4852	8	6163	10	4468	18	7725	13	5875	12	
13	A A M H - 511	6287	9	5017	12	4232	12	6328	8	5839	9	7712	14	5902	10	
14	X 1280 A	9649	1	5352	2	7890	1	7145	3	5841	8	9723	1	7600	1	
15	J K M H - 1001	5009	16	6183	2	5783	3	6779	5	6325	4	8526	8	6434	6	
16	N E C H - 119	9229	2	5253	11	5102	7	6582	6	5295	13	9025	2	6748	2	
17	X - 26	6587	7	5446	8	2882	19	4765	16	6366	3	8155	10	5700	13	
18	N M H - 20507	7255	5	4576	15	3185	16	5568	13	5815	10	8993	3	5899	11	
CHECKS:																
19	NAVJOT	3419	19	4416	17	3839	15	4057	19	5754	11	5364	20	4475	19	
20	KH - 510	6557	8	6114	3	5503	4	5121	15	5243	15	8543	7	6180	7	
	MEAN YIELD=	6082		5167		4527		5796		5578		7862		5835		
	MEAN STAND	76		60		50		55		90		66		66		
	C.D. AT 5% =	758		1030		612		1512		826		957		949		
	C.V. % =	8.81		14.09		9.55		18.44		10.46		8.60		-		
	F (Prob)	.000		.000		.000		.000		.000		.000		-		
	PLOT SIZE=	12.00		12.00		12.00		12.00		12.00		11.20		-		
AGRONOMY DATA:																
	SOWING DATE (2003)	3-07		27-06		3-07		30-06		4-07		27-06		-		
	HARVEST DATE (2003)	14-10		3-10		16-10		10-10		9-10		27-10		-		
	IRRIGATION NOS	-		-		-		-		-		-		-		
	FERTILIZER APPLIED	N 100		80		80		-		100		120		-		
		P 60		60		60		-		50		60		-		
		K -		-		-		-		-		40		-		

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 25.6%

TABLE NO. 12 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE NAVJOT

Sl NO	PEDIGREE	UDAI	PRAT	BANS	DAHO	KHED	CHHI	ZN 5 MEAN
1	B H - 2359	-	-	35.00	55.89	-	50.64	20.34
2	B H - 2809	29.21	1.46	59.46	28.50	14.41	65.58	32.96
3	E C - 3121	61.74	-	-	-	-	8.11	-
4	E C - 3122	52.87	-	-	0.99	12.40	16.67	8.92
5	H K H - 1208	21.09	12.48	-	17.06	-	15.07	3.45
6	B I O - 22027	80.47	43.62	37.63	76.60	6.43	64.39	48.62
7	P M Z - 237	69.12	28.53	17.65	38.66	-	38.38	27.14
8	BISCO - 201	121.64	25.72	4.88	84.77	-	62.20	43.93
9	SEEDTEC - 1081	139.94	36.12	21.53	68.85	3.63	54.69	48.95
10	SEEDTEC - 168	57.13	30.72	12.99	59.85	6.51	45.33	33.68
11	ZAURI - 2027	54.23	8.44	8.55	40.83	-	35.19	17.59
12	A A M H - 513	95.88	21.02	26.41	51.93	-	44.02	31.30
13	A A M H - 511	83.87	13.61	10.26	55.98	1.48	43.77	31.91
14	X 1280 A	182.20	21.19	105.55	76.13	1.51	81.26	69.84
15	J K M H - 1001	46.51	40.01	50.66	67.10	9.93	58.95	43.79
16	N E C H - 119	169.91	18.95	32.92	62.25	-	68.25	50.80
17	X - 26	92.64	23.33	-	17.46	10.65	52.04	27.39
18	N M H - 20507	112.19	3.62	-	37.27	1.07	67.65	31.82
CHECKS:								
19	NAVJOT	-	-	-	-	-	-	-
20	KH - 510	91.78	38.45	43.37	26.23	-	59.27	38.12

TABLE NO. 12 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 5 MEAN					
		UDAI	PRAT	BANS	DAHO	KHED	CHHI	ZN 5 MEAN	UDAI		PRAT	BANS	DAHO	KHED	CHHI
1	B H - 2359	49.8	44.0	44.5	43.0	47.5	53.5	47.0	52.3	48.0	48.3	49.5	55.3	56.8	51.7
2	B H - 2809	51.8	46.5	46.3	44.0	48.8	54.8	48.7	54.0	51.0	51.0	50.5	60.8	56.8	54.0
3	E C - 3121	47.8	41.0	41.3	43.0	47.3	52.0	45.4	49.8	44.5	45.3	48.5	56.0	53.3	49.5
4	E C - 3122	47.5	40.5	40.0	41.3	45.8	50.5	44.3	49.5	44.3	44.0	47.0	55.0	51.0	48.5
5	H K H - 1208	48.5	39.5	42.0	41.8	46.8	53.3	45.3	51.0	43.5	46.0	47.8	55.0	53.8	49.5
6	B I O - 22027	50.5	43.0	43.5	42.3	47.3	53.0	46.6	52.8	47.0	47.5	48.3	58.8	54.3	51.4
7	P M Z - 237	50.0	41.0	40.3	42.0	48.3	53.5	45.8	52.5	44.3	44.0	48.0	57.0	56.3	50.3
8	BISCO - 201	50.5	45.5	44.0	40.5	49.5	53.8	47.3	52.5	49.5	48.3	47.0	59.0	54.3	51.8
9	SEEDTEC - 1081	51.0	41.8	42.3	42.3	50.0	54.8	47.0	53.5	45.3	45.8	48.3	59.0	56.8	51.4
10	SEEDTEC - 168	49.5	46.0	45.8	41.5	48.0	55.3	47.7	51.8	49.5	49.5	47.5	56.8	56.5	51.9
11	ZAURI - 2027	50.5	42.5	43.0	41.3	46.8	53.5	46.3	52.8	46.5	47.0	47.5	53.8	55.8	50.5
12	A A M H - 513	51.5	43.0	43.0	41.3	47.5	54.5	46.8	53.5	46.8	46.8	47.5	58.5	57.0	51.7
13	A A M H - 511	52.0	42.8	41.8	46.5	51.0	57.8	48.6	54.8	46.3	45.8	52.5	59.8	58.5	52.9
14	X 1280 A	51.0	40.8	41.3	41.5	48.5	54.0	46.2	52.8	44.8	44.8	48.0	57.3	54.0	50.3
15	J K M H - 1001	50.0	45.5	44.5	40.3	47.5	53.0	46.8	52.5	49.3	48.5	47.0	56.8	53.8	51.3
16	N E C H - 119	50.3	43.3	42.3	42.5	46.3	53.8	46.4	52.5	47.3	46.5	48.0	54.0	54.5	50.5
17	X - 26	49.5	42.8	43.0	41.0	45.3	53.5	45.8	52.3	46.0	47.0	47.3	53.5	54.3	50.0
18	N M H - 20507	51.0	43.3	42.3	42.0	48.8	54.0	46.9	53.0	47.0	46.5	48.3	60.8	55.8	51.9
CHECKS:															
19	NAVJOT	48.0	44.3	45.5	40.0	46.3	50.8	45.8	50.3	45.8	49.5	47.3	58.0	52.5	50.5
20	KH - 510	50.3	46.3	46.0	42.3	46.8	53.5	47.5	53.5	49.8	49.8	46.5	57.3	53.5	51.7
MEAN LOCATION		50.0	43.2	43.1	42.0	47.7	53.6	46.6	52.4	46.8	47.1	48.1	57.1	55.0	51.1
C.D. AT 5%		1.1	1.6	2.0	2.5	2.5	1.2	1.8	1.3	2.1	2.0	2.6	3.8	1.2	2.1
C.V. %		1.5	2.7	3.2	4.2	3.7	1.5	-	1.7	3.1	3.0	3.9	4.7	1.5	-
F (Prob)		.000	.000	.000	.002	.002	.000	-	.000	.000	.000	.012	.002	.000	-

TABLE NO. 12 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST					ZN 5 MEAN	
		UDAI	PRAT	BANS	KHED	CHHI	UDAI	BANS	DAHO	KHED	CHHI		
1	B H - 2359	81.8	73.5	75.0	78.8	94.0	80.6	11.1	17.0	22.5	16.0	17.7	16.9
2	B H - 2809	86.0	81.3	78.0	80.8	95.8	84.3	13.9	16.9	23.0	16.5	17.3	17.5
3	E C - 3121	86.0	71.8	70.7	80.0	88.3	79.3	11.1	16.0	22.8	16.7	14.8	16.3
4	E C - 3122	86.0	70.3	71.7	79.0	88.8	79.1	10.7	16.3	22.5	15.9	15.1	16.1
5	H K H - 1208	86.3	64.3	73.3	79.3	89.3	78.5	11.8	16.6	23.0	16.9	15.9	16.8
6	B I O - 22027	87.0	76.5	78.0	80.3	95.3	83.4	11.7	16.9	24.0	15.9	16.4	17.0
7	P M Z - 237	87.3	72.5	71.0	79.0	92.5	80.4	11.6	16.2	23.8	15.5	15.9	16.6
8	BISCO - 201	87.3	75.8	74.0	81.5	94.3	82.6	11.8	17.0	22.5	14.9	17.0	16.6
9	SEEDTEC - 1081	88.8	71.3	73.7	79.8	92.3	81.1	11.0	16.3	22.8	15.8	17.5	16.7
10	SEEDTEC - 168	86.8	78.0	77.7	80.3	92.8	83.1	11.1	16.3	22.0	16.6	16.8	16.6
11	ZAURI - 2027	86.3	76.8	75.3	80.3	93.8	82.5	11.5	16.5	22.5	15.1	18.0	16.7
12	A A M H - 513	87.5	77.0	76.0	79.8	93.3	82.7	11.1	16.4	22.5	16.5	15.7	16.5
13	A A M H - 511	90.0	77.3	77.7	81.0	96.5	84.5	11.0	16.5	23.0	16.3	17.0	16.7
14	X 1280 A	88.0	78.5	75.3	80.3	91.0	82.6	11.9	17.8	23.8	16.4	15.4	17.0
15	J K M H - 1001	85.5	78.3	76.7	80.5	91.3	82.4	14.5	17.0	24.0	15.4	16.3	17.4
16	N E C H - 119	88.3	75.8	75.3	81.5	93.5	82.9	11.6	16.4	23.0	15.4	15.5	16.4
17	X - 26	86.5	73.3	74.0	80.0	90.8	80.9	11.0	16.3	23.8	15.5	15.3	16.4
18	N M H - 20507	88.8	72.3	70.3	80.8	96.0	81.6	11.8	16.3	24.0	16.6	17.7	17.3
CHECKS:													
19	NAVJOT	84.3	72.0	73.7	79.8	90.3	80.0	11.7	16.6	22.5	16.1	16.1	16.6
20	KH - 510	88.0	75.8	74.0	80.5	91.5	81.9	11.9	16.4	23.8	15.6	18.5	17.2
MEAN LOCATION		86.8	74.6	74.6	80.1	92.5	81.7	11.7	16.6	23.1	16.0	16.5	16.8
C.D. AT 5% =		1.8	3.3	3.9	2.5	1.8	2.7	0.3	0.7	0.0	0.6	0.6	0.5
C.V. % =		1.4	3.1	3.7	2.2	1.4	-	2.1	3.0	0.0	2.9	2.5	-
F (Prob)		.000	.000	.001	.764	.000	-	.000	.001	.000	.000	.000	-

TABLE NO. 12 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 5		
	UDAI	PRAT	BANS	DAHO	KHED	MEAN	UDAI	PRAT	BANS	DAHO	KHED	CHHI	MEAN
1 B H - 2359	3.5	2.4	2.1	1.8	3.3	2.6	2.9	2.3	2.1	2.3	2.3	2.5	2.4
2 B H - 2809	2.7	2.4	2.3	2.8	3.0	2.6	2.7	2.3	2.4	2.8	1.8	1.0	2.1
3 E C - 3121	2.5	2.4	2.1	3.0	2.8	2.5	2.4	2.4	2.1	3.0	2.8	2.5	2.5
4 E C - 3122	2.3	2.4	2.3	3.3	2.8	2.6	2.5	2.3	2.1	3.0	1.8	2.5	2.4
5 H K H - 1208	2.8	1.9	2.1	3.0	2.8	2.5	2.3	1.9	2.1	3.5	3.0	2.0	2.5
6 B I O - 22027	2.5	2.0	2.1	1.5	2.8	2.2	2.4	1.9	2.0	2.0	2.8	1.0	2.0
7 P M Z - 237	2.8	2.0	2.1	3.0	3.3	2.6	2.4	2.0	2.1	2.3	2.8	2.0	2.3
8 BISCO - 201	2.5	2.3	2.3	2.3	2.0	2.3	2.3	2.1	2.1	2.3	3.3	1.5	2.3
9 SEEDTEC - 1081	2.4	2.1	2.0	2.3	2.8	2.3	2.1	1.9	2.0	1.8	3.0	1.0	2.0
10 SEEDTEC - 168	3.0	2.1	2.0	3.0	3.0	2.6	2.6	2.0	2.0	2.8	2.8	2.0	2.4
11 ZAURI - 2027	3.0	2.5	2.1	3.0	2.8	2.7	2.3	2.1	2.1	2.8	3.5	1.5	2.4
12 A A M H - 513	2.4	2.0	2.0	2.5	2.5	2.3	2.3	2.1	2.0	3.0	3.3	1.5	2.4
13 A A M H - 511	2.2	2.1	2.0	2.0	2.8	2.2	2.6	2.1	2.1	2.0	2.3	1.5	2.1
14 X 1280 A	1.9	2.3	1.8	2.5	2.5	2.2	1.8	2.0	1.8	3.0	2.5	1.0	2.0
15 J K M H - 1001	2.8	2.3	2.1	2.5	2.8	2.5	2.5	2.4	2.3	2.5	2.3	1.5	2.2
16 N E C H - 119	1.8	2.3	2.1	2.8	2.8	2.3	2.0	2.4	2.0	2.5	2.0	1.0	2.0
17 X - 26	2.8	2.1	2.0	3.5	2.3	2.5	2.3	2.3	2.1	3.0	2.3	1.0	2.2
18 N M H - 20507	2.6	2.1	2.1	3.0	3.0	2.6	2.3	2.1	2.3	3.0	2.8	1.5	2.3
CHECKS:													
19 NAVJOT	2.8	2.5	2.3	3.8	2.8	2.8	2.9	2.5	2.1	3.5	2.3	2.5	2.6
20 KH - 510	2.2	2.5	2.3	3.3	2.5	2.5	2.3	2.3	2.4	2.5	3.3	1.5	2.4
MEAN LOCATION	2.6	2.2	2.1	2.7	2.7	2.5	2.4	2.2	2.1	2.7	2.6	1.6	2.3
C.D. AT 5% =	0.3	0.4	0.3	0.6	1.1	0.6	0.3	0.5	0.4	0.5	1.3	0.4	0.6
C.V. % =	8.7	13.6	11.2	14.9	28.4	-	8.7	15.4	13.0	14.4	35.4	19.1	-
F (Prob)	.000	.126	.373	.000	.901	-	.000	.300	.433	.000	.278	.000	-

TABLE NO. 12 (CONT.)

Sl	NO PEDIGREE	HUSK COVER *					UNIFORMITY *					ZN 5	
		UDAI	PRAT	BANS	KHED	CHHI	UDAI	PRAT	BANS	KHED	CHHI	MEAN	MEAN
1	B H - 2359	3.1	2.5	2.3	3.0	2.0	2.9	2.1	2.1	2.3	1.3	2.1	2.1
2	B H - 2809	2.6	2.3	2.3	3.0	1.0	2.7	2.0	2.3	2.8	1.0	2.1	2.1
3	E C - 3121	2.3	2.3	2.5	3.3	2.0	2.5	2.5	2.1	2.0	1.8	2.2	2.2
4	E C - 3122	2.6	2.3	2.1	3.3	1.5	2.5	2.4	2.3	3.0	1.8	2.4	2.4
5	H K H - 1208	2.8	2.1	2.3	3.5	1.8	2.9	1.8	2.3	3.0	1.8	2.3	2.3
6	B I O - 22027	2.4	2.1	2.3	3.0	1.0	2.5	2.0	2.1	3.3	1.0	2.2	2.2
7	P M Z - 237	2.7	2.3	2.3	2.5	1.5	2.7	2.1	2.3	3.3	1.5	2.4	2.4
8	BISCO - 201	2.5	2.0	2.3	2.5	1.0	2.7	2.4	2.1	3.3	1.0	2.3	2.3
9	SEEDTEC - 1081	2.4	2.1	2.4	3.5	1.3	2.3	2.1	2.1	2.8	1.3	2.1	2.1
10	SEEDTEC - 168	2.8	2.1	2.5	4.0	1.5	3.0	2.3	2.3	2.8	1.5	2.3	2.3
11	ZAURI - 2027	3.0	2.1	2.3	3.3	1.3	3.0	2.4	2.1	3.8	1.0	2.5	2.5
12	A A M H - 513	2.5	2.3	2.4	3.8	1.3	2.7	2.3	2.3	3.0	1.5	2.3	2.3
13	A A M H - 511	2.5	2.5	2.3	2.8	1.0	2.6	2.4	2.1	3.0	1.0	2.2	2.2
14	X 1280 A	2.0	2.0	1.8	3.3	1.5	2.0	2.3	1.9	3.5	1.0	2.1	2.1
15	J K M H - 1001	2.6	2.1	2.1	3.3	1.3	2.7	2.1	2.3	3.8	1.0	2.4	2.4
16	N E C H - 119	1.9	2.1	2.1	3.5	1.0	2.0	2.3	2.1	3.3	1.0	2.1	2.1
17	X - 26	2.5	2.0	2.1	3.0	1.3	2.7	2.1	2.1	3.0	1.0	2.2	2.2
18	N M H - 20507	2.5	2.3	2.3	3.3	1.0	2.6	2.4	2.3	3.5	1.0	2.3	2.3
CHECKS:													
19	NAVJOT	2.8	2.3	2.1	3.3	1.3	2.8	2.4	2.1	3.5	1.8	2.5	2.5
20	KH - 510	2.4	2.1	2.0	3.5	1.0	2.5	2.4	2.1	2.5	1.0	2.1	2.1
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob)													
		.000	.269	.109	.750	.002	.000	.592	.982	.291	.000	-	-

TABLE NO. 12 (CONT.)

Sl	No PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 5 MEAN			
		UDAI	PRAT	BANS	DAHO	KHED	CHHI	MEAN	UDAI	PRAT	BANS		DAHO	KHED	CHHI
1	B H - 2359	185	205	196	174	194	205	193	99	99	86	80	99	88	92
2	B H - 2809	198	204	193	173	193	195	192	98	113	94	81	96	84	94
3	E C - 3121	190	204	196	178	192	196	193	108	103	95	86	98	99	98
4	E C - 3122	195	181	181	178	196	199	188	108	96	91	85	97	99	96
5	H K H - 1208	175	174	171	169	160	166	169	90	88	88	74	94	66	83
6	B I O - 22027	193	203	188	174	194	188	190	90	91	86	75	96	73	85
7	P M Z - 237	186	181	181	159	188	194	181	78	90	90	70	94	74	83
8	BISCO - 201	188	173	181	175	188	191	183	93	84	85	75	99	89	87
9	SEEDTEC - 1081	204	190	203	174	192	201	194	104	98	98	78	96	88	93
10	SEEDTEC - 168	193	213	208	173	192	194	195	90	109	108	79	96	83	94
11	ZAURI - 2027	183	199	201	169	188	186	188	90	96	94	73	98	93	90
12	A A M H - 513	203	198	184	170	203	204	193	100	92	88	84	104	108	96
13	A A M H - 511	190	206	209	178	186	199	195	105	111	105	81	98	105	101
14	X 1280 A	238	224	209	195	210	239	219	115	116	94	99	102	103	105
15	J K M H - 1001	205	196	195	189	198	203	197	100	89	86	90	96	84	91
16	N E C H - 119	205	188	191	179	200	206	195	108	87	84	89	102	96	94
17	X - 26	198	187	184	178	193	200	190	93	85	80	76	98	88	86
18	N M H - 20507	209	178	171	169	192	190	185	110	86	81	65	98	84	87
CHECKS:															
19	NAVJOT	194	198	200	161	191	196	190	99	98	95	69	94	96	92
20	KH - 510	205	196	201	165	191	200	193	109	89	89	71	97	89	91
MEAN LOCATION		197	195	192	174	192	198	191	99	96	91	79	98	89	92
C.D. AT 5%		14.6	18.5	24.1	17.9	17.0	14.8	17.8	10.8	13.7	13.5	17.4	7.0	20.5	13.8
C.V. %		5.2	6.7	8.9	7.3	6.3	5.3	-	7.7	10.1	10.5	15.6	5.0	16.2	-
F (Prob)		.000	.000	.035	.059	.004	.000	-	.000	.000	.010	.049	.310	.010	-

TABLE NO. 12 (CONT.)

S1 No PEDIGREE	EAR No. / PLANT					STAND AT HARVEST					ZN 5 MEAN		
	UDAI	PRAT	DAHO	KHED	CHHI	ZN 5 MEAN	UDAI	PRAT	BANS	DAHO		KHED	CHHI
1 B H - 2359	0.94	0.86	0.91	0.94	0.95	0.92	69	50	45	59	90	65	63
2 B H - 2809	0.92	0.92	0.97	0.96	0.95	0.94	83	63	59	63	86	67	70
3 E C - 3121	0.88	0.99	1.19	0.94	0.92	0.98	78	58	54	66	89	72	69
4 E C - 3122	0.87	0.96	1.08	0.95	0.98	0.97	81	51	52	66	90	77	69
5 H K H - 1208	0.90	1.01	0.99	0.95	0.92	0.95	47	58	33	34	85	47	51
6 B I O - 22027	0.95	0.79	0.90	0.96	0.99	0.92	76	63	54	61	95	73	70
7 P M Z - 237	0.85	0.88	1.02	0.95	1.01	0.94	72	57	38	45	90	65	61
8 BISCO - 201	0.86	0.87	0.91	0.97	0.92	0.91	93	65	46	56	93	74	71
9 SEEDTEC - 1081	0.94	0.90	1.05	0.95	0.95	0.96	76	63	47	42	86	53	61
10 SEEDTEC - 168	0.89	1.05	0.98	0.96	0.93	0.96	78	57	48	38	87	52	60
11 ZAURI - 2027	0.88	0.81	1.08	0.95	0.90	0.92	62	65	59	59	93	70	68
12 A A M H - 513	0.83	0.89	1.07	0.95	0.96	0.94	85	56	43	54	92	62	65
13 A A M H - 511	0.84	0.95	0.91	0.95	0.95	0.92	71	54	46	50	87	61	62
14 X 1280 A	0.88	0.83	0.91	0.96	0.90	0.90	82	73	58	51	90	73	71
15 J K M H - 1001	0.93	1.04	0.96	0.95	0.99	0.98	95	77	61	59	94	78	77
16 N E C H - 119	0.91	1.00	0.87	0.96	0.95	0.94	79	54	54	62	91	63	67
17 X - 26	0.86	1.01	1.10	0.95	0.97	0.98	72	61	46	57	90	67	66
18 N M H - 20507	0.82	1.05	1.02	0.96	0.95	0.96	70	57	42	59	88	67	64
CHECKS:													
19 NAVJOT	0.94	0.94	0.98	0.96	0.95	0.95	77	58	52	59	85	72	67
20 KH - 510	0.84	1.03	0.93	0.95	0.97	0.95	81	54	58	59	92	70	69
MEAN LOCATION	-	-	-	-	-	-	76	60	50	55	90	66	66
C.D. AT 5%	-	-	-	-	-	-	13.1	11.3	7.7	15.2	5.1	11.8	10.7
C.V. %	-	-	-	-	-	-	12.1	13.3	10.9	19.6	4.0	12.6	-
F (Prob)	-	-	-	-	-	-	.000	.001	.000	.001	.003	.000	-

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

TABLE NO. 13

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, MAINPURI KANPUR IN AET 1st YEAR, TRIAL NO. TR67Z2 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														
		DELH	R	LUDH	R	KARN	R	KANP	MAIN	R	KANP	MAIN	R	ZN 2	MEAN	R
1	H K H - 1185	4138	10	4971	12	5043	10	2787	4	4235	11					
2	H K H - 1210	3648	12	5320	11	4281	16	2018	15	3817	13					
3	F H - 3210	2719	16	4066	16	4968	11	1732	16	3371	16					
4	P R O - 358	5723	5	7893	7	6341	6	2814	3	5693	5					
5	BISCO - 204	3848	11	6805	9	5951	7	2645	9	4812	9					
6	X 1150 Z	6662	2	8929	5	7428	2	2201	14	6305	4					
7	J K M H - 810	5774	4	8643	6	5644	8	2440	12	5625	6					
8	M C H - 5	5530	6	9469	3	4740	13	2693	7	5608	7					
9	X - 2182	5928	3	9597	1	7013	4	2728	5	6316	3					
10	X - 2185	5466	7	9559	2	7672	1	3572	1	6568	1					
11	J H - 3851	6783	1	9338	4	6568	5	2651	8	6335	2					
CHECKS:																
12	KIRAN	4260	9	5462	10	4925	12	2717	6	4341	10					
13	MAHI KANCHAN	3330	13	4616	13	4384	15	2941	2	3818	12					
14	HIM - 129	3032	14	4252	14	5253	9	2410	13	3737	14					
15	SURYA	2968	15	4067	15	4488	14	2475	11	3499	15					
16	X - 3342	4587	8	7144	8	7349	3	2500	10	5395	8					
	MEAN YIELD=	4650		6883		5753		2583		4967						
	MEAN STAND	72		70		41		63		61						
	C.D. AT 5%	1707		841		264		398		803						
	C.V. %	22.05		8.59		2.76		9.26		-						
	F (Prob)	.000		.000		.000		.000		-						
	PLOT SIZE=	15.00		10.40		8.40		12.00		-						
AGRONOMY DATA:																
	SOWING DATE (2003)	8-07		9-07		30-06		18-07		-						
	HARVEST DATE (2003)	20-10		16-10		1-10		13-10		-						
	IRRIGATION NOS	-		-		3		-		-						
	FERTILIZER APPLIED N	120		80		150		120		-						
	P	80		40		60		60		-						
	K	40		-		-		60		-						

TABLE NO. 13 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD %		SUPERIORITY		OVER THE		KARN MAIN	KARN	LUDH	MAHI DELH	KANCHAN LU DH	KARN MAIN	ZN 2 MEAN	
		DELH	LU DH	KARN	MAIN	MAHI DELH	MAHI KANCHAN								
1	H K H - 1185	-	-	2.39	2.57	24.28	7.71	-	15.03	-	-	-	-	10.93	
2	H K H - 1210	-	-	-	-	9.54	15.26	-	-	-	-	-	-	-	
3	F H - 3210	-	-	0.88	-	-	-	-	13.33	-	-	-	-	-	
4	P R O - 358	34.34	44.52	28.75	3.56	71.87	71.00	-	44.64	-	-	-	-	49.11	
5	BISCO - 204	-	24.60	20.82	-	15.57	47.43	-	35.73	-	-	-	-	26.05	
6	X 1150 Z	56.39	63.49	50.81	-	100.08	93.45	-	69.43	-	-	-	-	65.15	
7	J K M H - 810	35.54	58.26	14.59	-	73.40	87.25	-	28.74	-	-	-	-	47.35	
8	M C H - 5	29.82	73.38	-	-	66.08	105.15	-	8.13	-	-	-	-	46.90	
9	X - 2182	39.15	75.72	42.38	0.41	78.02	107.91	-	59.96	-	-	-	-	65.45	
10	X - 2185	28.31	75.03	55.77	31.48	64.15	107.10	-	75.00	-	-	-	21.46	72.03	
11	J H - 3851	59.22	70.99	33.35	-	103.69	102.32	-	49.81	-	-	-	-	65.94	
CHECKS:															
12	KIRAN	-	-	-	-	27.93	18.32	-	12.34	-	-	-	-	13.70	
13	MAHI KANCHAN	-	-	-	8.26	-	-	-	-	-	-	-	-	-	
14	HIM - 129	-	-	6.66	-	-	-	-	19.83	-	-	-	-	-	
15	SURYA	-	-	-	-	-	-	-	2.38	-	-	-	-	-	
16	X - 3342	7.67	30.81	49.21	-	37.74	54.78	-	67.63	-	-	-	-	41.31	

TABLE NO. 13 (CONT.)

Sl	No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE X - 3342				DAYS TO 50% POLLEN SHED			
		DELH	LUDH	KARN	KANP MAIN	DELH	LUDH	KARN	ZN 2 MEAN
1	H K H - 1185	-	-	-	11.48	43.0	43.3	46.7	44.3
2	H K H - 1210	-	-	-	-	44.7	44.5	48.3	45.8
3	F H - 3210	-	-	-	-	42.7	41.8	44.7	43.0
4	P R O - 358	24.78	10.48	-	12.55	44.3	44.0	46.3	44.9
5	BISCO - 204	-	-	-	5.81	47.0	46.8	49.0	47.6
6	X 1150 Z	45.25	24.99	1.07	-	48.3	46.8	48.7	47.9
7	J K M H - 810	25.88	20.98	-	-	47.3	45.5	47.7	46.8
8	M C H - 5	20.57	32.55	-	7.74	47.0	47.0	48.3	47.4
9	X - 2182	29.24	34.33	-	9.13	46.3	45.5	49.7	47.2
10	X - 2185	19.17	33.81	4.40	42.90	46.3	45.0	47.3	46.2
11	J H - 3851	47.88	30.71	-	6.05	46.3	44.0	48.3	46.2
CHECKS:									
12	KIRAN	-	-	-	8.68	44.3	43.5	47.0	44.9
13	MAHI KANCHAN	-	-	-	17.66	43.3	44.0	48.3	45.2
14	HIM - 129	-	-	-	-	41.0	40.5	42.7	41.4
15	SURYA	-	-	-	-	43.0	41.3	44.7	43.0
16	X - 3342	-	-	-	-	45.7	43.5	46.7	45.3
MEAN LOCATION									
	C.D. AT 5% =	-	-	-	-	1.9	1.0	0.9	1.2
	C.V. % =	-	-	-	-	2.5	1.5	1.1	-
	F (Prob)	-	-	-	-	.000	.000	.000	-

TABLE NO. 13 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST		
	DELH	LUDH	KARN MEAN	LUDH	KARN	MEAN	LUDH	MAIN	MEAN
1 H K H - 1185	45.0	42.5	49.0	80.0	81.7	80.8	22.3	15.7	19.0
2 H K H - 1210	48.0	44.5	50.3	78.8	83.0	80.9	21.7	15.3	18.5
3 F H - 3210	45.0	42.3	46.7	73.0	77.7	75.3	21.5	15.0	18.2
4 P R O - 358	46.7	45.3	48.7	78.3	81.0	79.6	22.0	16.3	19.1
5 BISCO - 204	49.3	47.0	51.3	79.3	79.7	79.5	21.3	15.7	18.5
6 X 1150 Z	51.7	47.5	50.7	76.3	81.3	78.8	21.4	16.0	18.7
7 J K M H - 810	49.3	45.5	49.7	78.8	80.3	79.5	24.2	15.7	19.9
8 M C H - 5	49.0	47.8	50.7	81.5	82.3	81.9	23.4	16.0	19.7
9 X - 2182	48.3	46.0	52.3	79.5	81.7	80.6	22.2	16.3	19.3
10 X - 2185	49.3	46.0	49.3	77.5	81.3	79.4	22.8	16.7	19.7
11 J H - 3851	49.3	45.3	50.3	79.5	82.7	81.1	22.9	16.0	19.5
CHECKS:									
12 KIRAN	47.7	44.5	49.3	76.8	80.7	78.7	21.8	16.0	18.9
13 MAHI KANCHAN	47.7	45.0	50.3	75.3	80.7	78.0	21.5	16.0	18.8
14 HIM - 129	44.0	41.5	45.3	72.3	76.3	74.3	20.9	15.7	18.3
15 SURYA	46.0	42.3	47.3	72.8	80.7	76.7	21.3	16.0	18.6
16 X - 3342	48.0	44.3	49.7	75.5	79.3	77.4	22.0	16.3	19.1
MEAN LOCATION									
C.D. AT 5% =	2.0	1.1	0.8	1.3	1.5	0.9	1.2	0.3	1.2
C.V. % =	2.5	1.7	1.0	-	1.4	0.7	-	1.0	4.5
F (Prob)	.000	.000	.000	-	.000	.000	-	.000	.487

TABLE NO. 13 (CONT.)

Sl	No PEDIGREE	PLANT ASPECT *		EAR ASPECT *		KANP ZN 2		HUSK COV. *	UNIF. MAIN *	PLANT HEIGHT (cm)				
		DELH	KANP MAIN MEAN	DELH	KANP MAIN MEAN	DELH	KANP MAIN MEAN			DELH	KANP MAIN MEAN	DELH	KANP MAIN MEAN	DELH
1	H K H - 1185	2.0	2.5	2.3	2.3	3.0	2.6	2.8	2.8	195	170	169	128	166
2	H K H - 1210	2.3	3.2	2.8	2.3	3.0	2.6	3.0	3.2	205	193	176	130	176
3	F H - 3210	2.5	3.2	2.8	2.5	3.3	2.9	3.0	3.2	200	183	184	130	174
4	P R O - 358	2.0	2.3	2.2	2.0	2.5	2.3	2.2	2.5	215	177	199	142	183
5	BISCO - 204	1.8	2.7	2.3	2.3	2.7	2.5	2.8	2.7	228	210	200	149	197
6	X 1150 Z	1.7	2.8	2.3	2.1	2.8	2.5	2.7	2.7	235	219	219	132	205
7	J K M H - 810	1.8	2.8	2.3	2.0	3.0	2.5	2.7	2.8	205	188	169	134	174
8	M C H - 5	2.0	2.7	2.3	2.0	2.5	2.3	2.8	2.7	210	192	185	138	181
9	X - 2182	1.8	2.5	2.2	2.0	2.5	2.3	2.5	2.3	215	203	180	139	184
10	X - 2185	2.0	2.0	2.0	2.3	2.0	2.1	2.2	2.2	218	207	206	144	194
11	J H - 3851	1.8	2.5	2.2	2.0	2.5	2.3	2.5	2.5	215	203	194	134	187
CHECKS:														
12	KIRAN	2.2	2.3	2.3	2.0	2.7	2.3	2.5	2.5	233	208	208	140	199
13	MAHI KANCHAN	2.3	2.3	2.3	2.5	2.5	2.5	2.3	2.5	215	192	201	138	186
14	HIM - 129	2.7	3.0	2.8	2.5	3.0	2.8	2.8	3.0	178	171	187	133	167
15	SURYA	2.5	2.7	2.6	2.8	2.7	2.7	2.5	2.5	218	198	196	144	189
16	X - 3342	2.0	2.5	2.3	2.3	2.5	2.4	2.7	2.7	250	204	204	155	209
MEAN LOCATION		2.1	2.6	2.4	2.2	2.7	2.5	2.6	2.7	215	191	199	138	186
C.D. AT 5%		0.5	0.6	0.5	0.4	0.6	0.5	0.6	0.6	15.7	18.6	12.0	12.9	14.8
C.V. %		13.8	13.1	-	10.2	14.3	-	13.3	13.5	4.4	6.8	3.6	5.6	-
F (Prob)		.004	.014	-	.003	.047	-	.110	.085	.000	.000	.000	.009	-

TABLE NO. 13 (CONT.)

Sl	No PEDIGREE	EAR HEIGHT (cm)			KANP ZN 2		EAR NO. / PLANT ZN 2		STAND AT HARVEST		KANP ZN 2			
		DELH	LUDH	KARN	MAIN	MEAN	DELH	LUDH	MEAN	DELH	LUDH	KARN	MAIN	MEAN
1	H K H - 1185	85	90	82	58	79	0.88	0.97	0.92	62	65	34	65	57
2	H K H - 1210	93	96	98	57	86	1.01	0.98	0.99	65	59	35	62	55
3	F H - 3210	65	93	82	56	74	0.89	0.99	0.94	61	65	43	63	58
4	P R O - 358	105	118	98	65	96	0.98	0.97	0.97	83	71	44	64	66
5	BISCO - 204	79	105	138	66	97	0.91	0.95	0.93	67	73	41	63	61
6	X 1150 Z	105	116	132	63	104	0.97	1.00	0.98	81	77	47	62	67
7	J K M H - 810	83	91	97	60	83	0.92	0.95	0.94	66	70	36	61	58
8	M C H - 5	90	101	97	61	87	0.92	0.98	0.95	85	72	47	64	67
9	X - 2182	100	103	112	61	94	0.97	0.93	0.95	70	73	38	64	61
10	X - 2185	93	111	108	70	96	0.98	0.98	0.98	84	76	41	53	66
11	J H - 3851	98	104	105	60	92	0.97	0.91	0.94	82	75	50	64	68
CHECKS:														
12	KIRAN	105	115	112	63	99	0.99	0.95	0.97	77	71	46	63	64
13	MAHI KANCHAN	95	113	102	61	93	0.98	0.94	0.96	64	61	30	63	54
14	HIM - 129	78	88	85	58	77	1.02	0.95	0.99	66	67	36	62	57
15	SURYA	110	104	102	67	96	1.00	0.96	0.98	63	68	40	64	59
16	X - 3342	115	104	125	78	105	1.01	0.99	1.00	81	75	45	62	66
MEAN LOCATION		94	103	105	63	91	-	-	-	72	70	41	63	61
C.D. AT 5% =		10.6	14.9	25.0	13.9	16.1	-	-	-	11.2	6.5	4.5	3.4	6.4
C.V. % =		6.8	10.1	14.3	13.2	-	-	-	-	9.3	6.6	6.6	3.2	-
F (Prob)		.000	.001	.001	.256	-	-	-	-	.000	.000	.000	.515	-

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

TABLE NO. 14

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI RANCHI, JASHIPUR, AMBIKAPUR IN AET 1st YEAR, TRIAL No. TR67Z3 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										AMBI		JASH		RANC		DHOL		VARA		ZIN	
		BELI	R	VARA	R	DHOL	R	RANC	R	JASH	R	AMBI	R	ZIN	R	MEAN	R	MEAN					
1	P R O - 357	5863	3	2646	8	5702	6	3546	12	3453	7	5540	6	4458	7								
2	P R O - 358	5632	6	2216	16	4154	18	3404	15	3216	9	4649	14	3879	13								
3	BISCO - 204	5671	5	2439	12	5493	7	4285	3	3753	4	5684	4	4554	4								
4	SEEDTEC - 122	4881	11	2754	4	4838	11	3531	13	2823	15	3817	19	3774	15								
5	P A C - 71006	5376	17	2682	6	5268	8	3548	11	3556	6	5485	8	4319	8								
6	X 1150 Z	5855	4	2446	11	5844	4	3489	14	3974	3	6190	1	4633	3								
7	J K M H - 810	4251	16	1184	24	4957	10	3925	5	3350	8	5306	10	3829	14								
8	M C H - 6	5132	8	1894	22	5844	5	4391	2	4539	1	6000	2	4633	12								
9	K M H - 3	4977	10	2035	20	4465	15	3600	10	3113	11	5416	9	3934	10								
10	K M H - 9	4992	9	2498	10	4632	13	3786	7	2939	11	5476	13	3920	11								
11	X - 2182	4817	12	2874	2	5968	3	3994	4	4109	2	5209	11	4495	5								
12	X - 2185	6183	1	2296	14	6043	1	4602	1	3671	5	5486	7	4713	1								
13	P R O - 356	4033	18	2237	15	3957	20	2755	20	2538	20	5867	3	3564	16								
14	H K H - 1185	3833	21	2428	13	3669	21	3160	16	2846	14	3755	21	3282	20								
15	H K H - 1210	3965	19	1517	23	4049	19	2748	21	2432	21	3771	20	3080	21								
16	BISCO - 2051	3885	20	2671	7	4361	17	3083	17	2553	18	4066	17	3436	17								
17	SEEDTEC - 205	4727	13	2935	1	4766	12	3694	9	3001	12	4279	15	3900	12								
18	F H - 3210	4280	15	2583	9	4430	16	2395	24	2701	16	3645	23	3339	19								
19	J H - 3851	6815	1	2095	19	6025	2	3777	8	2646	17	5556	5	4486	6								
CHECKS:																							
20	KIRAN	4180	17	2148	18	4469	14	2925	18	2547	19	4135	16	3401	18								
21	MAHI KANCHAN	3609	22	2860	3	3422	22	2717	22	2326	22	3298	24	3039	22								
22	HIM - 129	3593	23	1997	21	3099	24	2443	23	1946	24	3646	22	2787	24								
23	SURYA	3553	24	2184	17	3128	23	2869	19	2165	23	4006	18	2984	23								
24	X - 3342	4537	14	2740	5	5035	9	3846	6	3186	10	5029	12	4062	9								
	MEAN YIELD=	4777		2348		4734		3438		3058		4771		3854									
	MEAN STAND	70		71		-		31		55		82		62									
	C.D. AT 5% =	492		240		995		455		136		831		525									
	C.V. % =	7.30		6.23		14.91		8.06		3.15		12.35		-									
	F (Prob) =	.000		.000		.000		.000		.000		.000		-									
	PLOT SIZE =	12.00		15.00		15.00		7.00		12.00		12.00		-									
AGRONOMY DATA:																							
	SOWING DATE (2003)	2-07		27-06		1-07		8-07		10-07		25-06		-									
	HARVEST DATE (2003)	11-10		19-09		21-10		21-10		3-11		-		-									
	IRRIGATION NOS	-		-		-		1		-		-		-									
	FERTILIZER APPLIED	N 120		80		100		100		120		80		-									
		P 60		40		60		60		60		50		-									
		K 60		40		40		40		60		30		-									

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : KUSH 36.2%

TABLE NO. 14 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN										ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI					
1	P R O - 357	40.25	23.15	27.61	21.24	35.58	33.98					31.10
2	P R O - 358	34.74	3.15	-	16.39	26.28	12.43					14.05
3	BISCO - 204	35.67	13.53	22.92	46.49	47.38	37.47					33.92
4	SEEDTEC - 122	16.75	28.19	8.26	20.71	10.84	-					10.98
5	P A C - 71006	28.60	24.85	17.88	21.30	39.61	32.66					27.01
6	X 1150 Z	40.05	13.86	30.78	19.30	56.05	49.71					36.24
7	J K M H - 810	1.69	-	10.93	34.17	31.53	28.32					12.59
8	M C H - 6	22.77	-	30.78	50.11	78.23	45.11					36.25
9	K M H - 3	19.06	-	-	23.08	22.23	30.98					15.69
10	K M H - 9	19.41	16.27	3.66	29.45	15.38	13.09					15.29
11	X - 2182	15.24	33.76	33.56	36.54	61.33	25.98					32.18
12	X - 2185	47.90	6.87	35.23	57.33	44.13	32.67					38.60
13	P R O - 356	-	4.11	-	-	-	41.89					4.82
14	H K H - 1185	-	13.00	-	8.04	11.76	-					-
15	H K H - 1210	-	-	-	-	-	-					-
16	BISCO - 2051	-	24.31	-	5.39	0.24	-					1.05
17	SEEDTEC - 205	13.08	36.59	6.65	26.29	17.83	3.49					14.69
18	F H - 3210	2.38	20.24	-	-	6.05	-					-
19	J H - 3851	63.03	-	34.84	29.14	3.91	34.38					31.92
CHECKS:												
20	KIRAN	-	-	-	-	-	-					-
21	MAHI KANCHAN	-	33.11	-	-	-	-					-
22	HIM - 129	-	-	-	-	-	-					-
23	SURYA	-	1.64	-	-	-	-					-
24	X - 3342	8.53	27.54	12.68	31.50	25.10	21.63					19.45

TABLE NO. 14 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN										ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI					
1	P R O - 357	62.45	-	66.62	30.54	48.43	67.99	46.72				
2	P R O - 358	56.06	-	21.37	25.31	38.25	40.97	27.64				
3	BISCO - 204	57.14	-	60.49	57.72	61.35	72.37	49.88				
4	SEEDTEC - 122	35.23	-	41.35	29.97	21.35	15.76	24.20				
5	P A C - 71006	48.95	-	53.91	30.61	52.84	66.33	42.14				
6	X 1150 Z	62.22	-	70.75	28.44	70.85	87.71	52.47				
7	J K M H - 810	17.79	-	44.84	44.46	44.00	60.89	26.00				
8	M C H - 6	42.20	-	70.75	61.62	95.13	81.94	52.48				
9	K M H - 3	37.91	-	30.47	32.52	33.82	64.22	29.48				
10	K M H - 9	38.31	-	35.34	39.38	26.32	41.80	29.02				
11	X - 2182	33.48	0.49	74.39	47.02	76.62	57.95	47.93				
12	X - 2185	71.32	-	76.57	69.40	57.79	66.35	55.11				
13	P R O - 356	11.76	-	15.62	1.43	9.08	77.91	17.31				
14	H K H - 1185	6.20	-	7.21	16.32	22.36	13.87	8.01				
15	H K H - 1210	9.85	-	18.31	1.15	4.54	14.37	1.37				
16	BISCO - 2051	7.64	-	27.42	13.48	9.74	23.29	13.09				
17	SEEDTEC - 205	30.98	2.62	39.25	35.97	29.00	29.76	28.35				
18	F H - 3210	18.59	-	29.43	-	16.11	10.53	9.89				
19	J H - 3851	88.83	-	76.06	39.05	13.76	68.50	47.63				
CHECKS:												
20	KIRAN	15.83	-	30.57	7.67	9.48	25.38	11.91				
21	MAHI KANCHAN	-	-	-	-	-	-	-				
22	HIM - 129	-	-	-	-	-	10.56	-				
23	SURYA	-	-	-	5.62	-	21.47	-				
24	X - 3342	25.71	-	47.12	41.58	36.95	52.50	33.69				

TABLE NO. 14 (CONT.)

S1 No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HIM - 129										ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI					
1	P R O - 357	63.18	32.47	84.00	45.18	77.46	51.95	59.96				
2	P R O - 358	56.76	10.96	34.03	39.37	65.29	27.51	39.15				
3	BISCO - 204	57.84	22.13	77.23	75.42	92.91	55.91	63.40				
4	SEEDTEC - 122	35.83	37.89	56.10	44.56	45.08	4.71	35.40				
5	P A C - 71006	49.62	34.30	69.97	45.26	82.74	50.45	54.96				
6	X 1150 Z	62.94	22.48	88.56	42.86	104.26	69.79	66.22				
7	J K M H - 810	18.32	-	59.95	60.67	72.16	45.53	37.36				
8	M C H - 6	42.84	-	88.56	79.76	133.29	64.57	66.23				
9	K M H - 3	38.53	1.89	44.08	47.39	59.99	48.54	41.16				
10	K M H - 9	38.93	25.08	49.46	55.02	51.02	28.26	40.66				
11	X - 2182	34.07	43.89	92.58	63.51	111.17	42.87	61.28				
12	X - 2185	72.08	14.96	94.99	88.41	88.65	50.47	69.10				
13	P R O - 356	12.26	11.99	27.68	12.81	30.42	60.92	27.89				
14	H K H - 1185	6.68	21.56	18.40	29.38	46.29	2.99	17.75				
15	H K H - 1210	10.35	-	30.66	12.50	24.99	3.45	10.52				
16	BISCO - 2051	8.12	33.72	40.71	26.21	31.21	11.52	23.29				
17	SEEDTEC - 205	31.57	46.94	53.77	51.23	54.23	17.37	39.93				
18	F H - 3210	19.12	29.34	42.93	-	38.82	-	19.80				
19	J H - 3851	89.68	4.92	94.42	54.65	36.01	52.41	60.95				
CHECKS:												
20	KIRAN	16.35	7.57	44.19	19.75	30.89	13.41	22.01				
21	MAHI KANCHAN	0.45	43.19	10.43	11.22	19.56	-	9.02				
22	HIM - 129	-	-	-	-	-	-	-				
23	SURYA	-	9.33	0.93	17.47	11.30	9.87	7.07				
24	X - 3342	26.27	37.19	62.47	57.47	63.74	37.94	45.74				

TABLE NO. 14 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SURYA										ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI					
1	P R O - 357	65.00	21.16	82.30	23.59	59.45	38.30	49.40				
2	P R O - 358	58.51	1.49	32.79	18.64	48.52	16.05	29.97				
3	BISCO - 204	59.61	11.70	75.59	49.33	73.33	41.90	52.61				
4	SEEDTEC - 122	37.35	26.12	54.66	23.05	30.36	-	26.46				
5	P A C - 71006	51.29	22.83	68.40	23.65	64.19	36.93	44.73				
6	X 1150 Z	64.77	12.03	86.82	21.61	83.53	54.53	55.25				
7	J K M H - 810	19.64	-	58.47	36.77	54.69	32.45	28.29				
8	M C H - 6	44.44	-	86.82	53.02	109.62	49.78	55.26				
9	K M H - 3	40.08	-	42.75	25.47	43.75	35.20	31.84				
10	K M H - 9	40.48	14.40	48.08	31.96	35.70	16.73	31.37				
11	X - 2182	35.57	31.60	90.80	39.19	89.74	30.03	50.63				
12	X - 2185	74.01	5.15	93.18	60.38	69.51	36.95	57.94				
13	P R O - 356	13.51	2.43	26.50	-	17.18	46.46	19.44				
14	H K H - 1185	7.87	11.18	17.30	10.13	31.44	-	9.98				
15	H K H - 1210	11.58	-	29.45	-	12.30	-	3.22				
16	BISCO - 2051	9.33	22.31	39.41	7.44	17.89	1.50	15.15				
17	SEEDTEC - 205	33.04	34.39	52.35	28.74	38.58	6.82	30.69				
18	F H - 3210	20.45	18.30	41.61	-	24.73	-	11.89				
19	J H - 3851	91.80	-	92.63	31.65	22.20	38.71	50.32				
CHECKS:												
20	KIRAN	17.65	-	42.86	1.94	17.61	3.22	13.95				
21	MAHI KANCHAN	1.57	30.96	9.41	-	7.43	-	1.82				
22	HIM - 129	1.12	-	-	-	-	-	-				
23	SURYA	-	-	-	-	-	-	-				
24	X - 3342	27.68	25.48	60.97	34.05	47.12	25.54	36.12				

TABLE NO. 14 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST							
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	RANC	JASH	ZN 3 MEAN
1	P R O - 357	84.8	73.0	78.3	85.3	80.0	80.0	80.2	23.9	40.1	22.2	21.3	26.9
2	P R O - 358	84.3	75.5	78.5	86.0	82.3	80.3	81.1	25.3	39.2	21.0	20.8	26.5
3	BISCO - 204	84.3	76.0	80.3	86.3	80.8	83.0	81.8	24.9	38.8	21.7	21.7	26.8
4	SEEDTEC - 122	89.5	80.5	80.5	87.0	82.0	81.0	83.4	25.1	38.2	22.3	22.0	26.9
5	P A C - 71006	85.3	73.0	78.3	85.0	81.8	83.0	81.0	23.6	40.7	23.7	21.2	27.3
6	X 1150 Z	78.5	71.5	76.5	83.7	77.5	78.0	77.6	24.6	36.8	21.7	20.5	25.9
7	J K M H - 810	86.0	70.5	77.8	85.0	85.0	81.3	80.9	25.7	40.4	22.9	22.5	27.9
8	M C H - 6	86.0	77.5	78.3	87.0	86.5	83.3	83.1	24.8	40.2	25.7	22.0	28.2
9	K M H - 3	86.5	75.5	78.0	87.0	83.8	80.8	81.9	24.6	38.9	25.1	21.9	27.6
10	K M H - 9	87.8	75.5	80.0	85.7	83.5	81.8	82.4	26.0	38.8	25.1	21.1	27.8
11	X - 2182	85.0	76.0	80.5	87.3	86.5	85.5	83.5	26.4	39.2	24.7	21.1	27.8
12	X - 2185	84.0	74.5	78.5	85.3	80.5	82.8	80.9	25.3	34.3	22.6	21.4	25.9
13	P R O - 356	78.3	71.5	76.5	86.3	78.8	78.3	78.3	24.5	38.9	21.4	21.8	26.6
14	H K H - 1185	85.5	74.0	81.0	84.3	77.3	83.0	80.8	23.8	35.5	22.5	21.4	25.8
15	H K H - 1210	86.8	74.0	79.3	89.0	77.8	83.0	81.6	22.5	34.3	22.0	20.3	24.8
16	BISCO - 2051	86.3	74.5	79.0	86.7	78.5	81.8	81.1	24.3	34.2	25.8	21.8	26.5
17	SEEDTEC - 205	81.3	73.5	78.3	88.0	81.3	80.0	80.4	24.3	29.3	24.5	21.3	24.8
18	F H - 3210	83.8	71.5	77.3	88.0	78.0	77.8	79.4	23.0	34.2	21.5	21.6	25.1
19	J H - 3851	87.0	77.0	78.8	89.3	82.5	85.5	83.3	24.5	39.3	24.0	22.0	27.4
CHECKS:													
20	KIRAN	83.5	75.5	77.5	87.3	78.8	80.8	80.6	23.1	35.0	23.7	22.2	26.0
21	MAHI KANCHAN	82.5	72.0	77.8	86.7	78.0	80.8	79.6	22.9	36.1	21.8	21.1	25.5
22	HIM - 129	81.0	75.0	76.0	86.0	77.5	77.0	78.8	22.4	32.3	21.2	21.0	24.2
23	SURYA	82.0	76.0	76.3	89.3	77.3	78.8	79.9	22.4	32.6	20.8	21.3	24.3
24	X - 3342	80.3	75.5	77.3	87.0	79.3	82.3	80.3	24.2	39.0	25.4	21.8	27.6
MEAN LOCATION													
		84.2	74.5	78.3	86.6	80.6	81.2	80.9	24.2	36.9	23.1	21.5	26.4
C.D. AT 5% =		2.8	1.1	1.8	1.9	1.9	3.0	2.1	1.5	1.2	2.0	0.3	1.3
C.V. % =		2.3	0.9	1.6	1.3	1.7	2.6	-	4.5	2.0	5.1	1.0	-
F (Prob)		.000	.000	.000	.000	.000	.000	-	.000	.000	.000	.000	-

TABLE NO. 14 (CONT.)

Sl NO	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 3 MEAN
		GORA BELI	DHOL	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	
1	P R O - 357	2.3	2.1	2.0	2.6	2.2	2.0	2.5	1.8	2.0	2.5	2.2
2	P R O - 358	2.6	2.5	3.0	2.6	2.7	2.0	2.5	3.3	3.0	2.7	2.7
3	BISCO - 204	2.6	2.8	2.0	2.5	2.5	2.0	3.3	2.3	2.0	2.5	2.4
4	SEEDTEC - 122	2.4	2.0	3.0	2.7	2.5	2.4	2.0	2.4	3.3	2.7	2.5
5	P A C - 71006	2.6	2.5	2.0	2.3	2.4	2.5	2.5	2.4	2.0	2.5	2.4
6	X 1150 Z	2.5	2.1	2.8	2.2	2.4	1.9	2.0	1.5	2.0	2.3	1.9
7	J K M H - 810	2.1	2.8	2.0	2.4	2.3	2.3	2.5	2.6	2.0	2.6	2.4
8	M C H - 6	2.3	2.3	1.0	2.3	2.0	2.0	2.8	2.1	1.0	2.3	2.0
9	K M H - 3	2.5	2.9	3.5	2.3	2.8	2.4	2.5	2.6	4.0	2.5	2.8
10	K M H - 9	2.5	2.9	3.5	2.6	2.9	2.6	2.8	3.0	4.0	2.7	3.0
11	X - 2182	2.6	2.0	1.0	2.7	2.1	2.5	2.5	2.8	1.0	2.5	2.3
12	X - 2185	2.3	2.5	2.0	2.7	2.4	2.0	2.0	2.6	2.0	2.7	2.3
13	P R O - 356	2.1	3.3	4.8	2.6	3.2	2.4	3.0	3.1	4.0	2.6	3.0
14	H K H - 1185	2.6	2.9	4.8	2.6	3.2	2.9	2.8	3.1	4.8	2.5	3.2
15	H K H - 1210	3.0	3.4	4.0	2.8	3.3	3.4	3.0	4.0	4.5	2.7	3.5
16	BISCO - 2051	2.6	3.1	4.0	2.7	3.1	2.5	2.0	2.5	3.8	2.7	2.7
17	SEEDTEC - 205	2.3	2.9	4.0	2.7	3.0	2.6	2.8	2.4	3.8	2.6	2.8
18	F H - 3210	2.8	2.6	5.0	2.7	3.3	2.9	2.5	3.0	4.8	2.8	3.2
19	J H - 3851	2.4	2.0	3.0	2.4	2.4	2.0	2.8	1.8	3.5	2.5	2.5
CHECKS:												
20	KIRAN	2.6	2.8	3.8	2.5	2.9	2.4	2.8	2.5	3.8	2.6	2.8
21	MAHI KANCHAN	2.9	2.9	4.5	2.6	3.2	3.0	2.8	3.1	5.0	2.7	3.3
22	HIM - 129	3.0	4.0	5.0	2.4	3.6	2.9	3.0	3.4	4.8	2.5	3.3
23	SURYA	2.9	3.6	4.8	2.4	3.4	2.8	2.5	3.3	4.3	2.5	3.0
24	X - 3342	2.9	3.1	3.0	2.8	3.0	2.0	2.0	2.6	3.0	2.7	2.5
MEAN LOCATION												
C.D. AT 5% =		0.6	0.9	0.4	0.2	0.5	0.5	0.2	0.6	0.5	0.2	0.4
C.V. % =		17.4	22.1	9.4	6.1	-	15.9	5.2	17.1	10.6	5.7	-
F (Prob)		.138	.000	.000	.000	-	.000	.000	.000	.000	.000	-

TABLE NO. 14 (CONT.)

SI	NO PEDIGREE	HUSK COVER *				UNIFORMITY *						
		GORA		ZN 3		GORA		ZN 3				
		BELI	VARA	JASH	AMBI	MEAN	BELI	VARA	DHOL	JASH	AMBI	MEAN
1	P R O - 357	1.9	2.5	2.0	2.6	2.2	2.0	1.5	2.6	2.5	2.7	2.3
2	P R O - 358	2.1	2.5	2.5	2.6	2.4	2.3	2.0	3.3	3.3	2.7	2.7
3	BISCO - 204	2.4	2.5	2.3	2.5	2.4	2.1	1.5	3.0	2.8	2.5	2.4
4	SEEDTEC - 122	1.9	2.0	2.0	2.6	2.1	2.1	1.5	2.4	3.0	2.7	2.3
5	P A C - 71006	2.3	2.5	2.3	2.5	2.4	2.5	1.5	2.8	2.8	2.7	2.4
6	X 1150 Z	2.1	2.0	2.0	2.3	2.1	2.3	1.5	2.0	2.0	2.6	2.1
7	J K M H - 810	1.9	2.5	2.3	2.5	2.3	2.0	2.0	2.8	3.0	2.6	2.5
8	M C H - 6	1.8	2.5	1.5	2.2	2.0	2.3	1.5	2.1	1.5	2.3	1.9
9	K M H - 3	1.5	2.8	3.0	2.7	2.5	2.1	1.5	2.6	3.0	2.6	2.4
10	K M H - 9	2.5	2.0	3.0	2.5	2.5	2.9	2.0	3.1	3.3	2.6	2.8
11	X - 2182	2.4	2.0	2.0	2.6	2.3	2.3	1.8	3.0	2.0	2.5	2.3
12	X - 2185	2.3	1.8	2.0	2.8	2.2	1.8	1.5	2.8	2.8	2.5	2.3
13	P R O - 356	2.0	2.8	3.5	2.5	2.7	2.1	2.0	3.1	4.5	2.4	2.8
14	H K H - 1185	2.0	2.5	2.8	2.6	2.5	2.3	1.5	3.1	3.5	2.8	2.6
15	H K H - 1210	2.9	3.0	3.3	2.6	2.9	3.3	1.8	3.5	4.0	2.7	3.0
16	BISCO - 2051	2.1	2.0	2.8	2.7	2.4	2.1	2.5	3.1	3.5	2.6	2.8
17	SEEDTEC - 205	2.4	2.5	3.0	2.7	2.6	2.3	2.0	2.9	3.5	2.8	2.7
18	F H - 3210	2.0	2.0	3.5	2.7	2.5	2.6	2.0	3.1	4.5	2.8	3.0
19	J H - 3851	2.1	2.5	2.8	2.5	2.5	2.3	1.5	2.0	3.0	2.5	2.3
CHECKS:												
20	KIRAN	2.0	2.5	3.3	2.6	2.6	2.9	2.0	2.9	4.0	2.5	2.9
21	MAHI KANCHAN	2.1	3.0	3.8	2.5	2.8	2.8	3.0	3.5	4.3	2.5	3.2
22	HIM - 129	2.3	2.5	4.0	2.5	2.8	3.1	2.0	3.8	5.0	2.8	3.3
23	SURYA	1.9	2.3	3.5	2.5	2.5	2.9	2.0	3.5	4.5	2.7	3.1
24	X - 3342	2.4	2.0	2.3	2.6	2.3	2.8	2.0	3.0	2.8	2.7	2.6
MEAN LOCATION												
C.D. AT 5%		0.5	0.2	0.8	0.2	0.4	0.7	0.2	0.7	0.7	0.2	0.5
C.V. %		17.9	4.3	20.1	6.3	-	19.9	6.6	16.6	14.7	5.2	-
F (Prob)		.006	.000	.000	.002	-	.001	.000	.000	.000	.001	-

TABLE NO. 14 (CONT.)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 3 MEAN			
		BELI	VARA	DHOL	RANC	JASH	AMBI	MEAN	ZN 3	BELI	VARA		DHOL	RANC	JASH
1	P R O - 357	188	223	165	184	147	214	187	94	78	78	74	53	75	75
2	P R O - 358	184	203	167	180	146	206	181	99	93	91	79	56	75	82
3	BISCO - 204	191	260	158	189	154	219	195	80	103	69	83	59	69	77
4	SEEDTEC - 122	157	168	145	173	124	185	158	78	70	72	73	43	69	67
5	P A C - 71006	182	233	173	181	144	209	187	77	98	80	76	55	73	76
6	X 1150 Z	196	245	165	186	156	230	196	98	88	89	84	67	86	85
7	J K M H - 810	164	185	159	160	134	196	166	78	78	73	69	46	69	69
8	M C H - 6	172	173	146	173	138	204	168	91	78	82	81	65	84	80
9	K M H - 3	161	200	171	181	141	203	176	79	83	88	75	54	83	77
10	K M H - 9	185	220	177	156	139	212	182	91	95	93	83	54	82	83
11	X - 2182	188	235	163	179	137	206	185	88	88	83	71	55	68	75
12	X - 2185	193	250	164	189	138	208	190	97	108	81	84	55	74	83
13	P R O - 356	177	228	146	168	129	198	174	97	88	72	72	53	70	75
14	H K H - 1185	152	190	145	171	135	188	164	83	75	71	71	54	65	70
15	H K H - 1210	168	213	162	181	137	196	176	77	83	75	78	50	65	71
16	BISCO - 2051	169	228	162	174	132	171	173	84	85	88	74	48	73	75
17	SEEDTEC - 205	187	215	161	175	130	197	177	85	88	85	65	54	72	75
18	F H - 3210	175	208	157	173	124	195	172	68	68	67	56	46	53	60
19	J H - 3851	187	218	161	178	136	203	180	86	83	84	72	57	68	75
CHECKS:															
20	KIRAN	196	218	181	178	136	208	186	99	95	96	78	56	78	83
21	MAHI KANCHAN	186	218	162	176	121	202	177	87	83	92	75	42	72	75
22	HIM - 129	159	223	149	170	130	189	170	75	85	73	65	40	63	67
23	SURYA	175	215	171	169	138	193	177	92	83	84	77	53	62	75
24	X - 3342	202	233	183	180	147	209	192	99	98	87	77	61	71	82
MEAN LOCATION		179	216	162	176	137	202	179	87	86	81	75	53	71	76
C.D. AT 5%		16.5	27.9	17.2	25.5	5.7	19.7	18.7	12.6	16.3	13.1	9.9	4.8	9.9	11.1
C.V. %		6.5	7.8	7.5	8.8	2.9	6.9	-	10.3	11.5	11.4	8.0	6.4	9.8	-
F (Prob)		.000	.000	.000	.722	.000	.000	-	.000	.001	.000	.000	.000	.000	-

TABLE NO. 14 (CONT.)

S1 NO PEDIGREE	EAR No./ PLANT				H. may.* STAND AT HARVEST				ZN 3 MEAN					
	BELI	VARA	RANC	JASH	AMBI	ZN 3 MEAN	BELI	GORA		BELI	VARA	RANC	JASH	AMBI
1 P R O - 357	1.00	0.84	0.98	1.00	0.94	0.95	1.1	73	80	35	62	90	68	
2 P R O - 358	1.00	0.89	1.10	1.00	0.94	0.99	1.5	75	70	30	53	81	62	
3 BISCO - 204	0.99	1.06	1.00	1.00	0.97	1.00	1.8	75	76	30	58	78	63	
4 SEEDTEC - 122	0.97	0.83	1.11	1.00	0.96	0.97	1.3	68	61	28	53	80	58	
5 P A C - 71006	0.98	0.88	1.11	1.00	0.94	0.98	1.9	77	79	32	65	88	68	
6 X 1150 Z	0.98	0.85	1.08	1.00	0.98	0.98	1.0	78	80	34	66	87	69	
7 J K M H - 810	0.99	0.90	1.05	1.00	1.00	0.99	1.1	68	72	32	58	85	63	
8 M C H - 6	0.99	0.85	0.99	1.00	0.96	0.96	1.0	66	68	37	61	93	65	
9 K M H - 3	0.99	0.89	0.98	1.00	0.99	0.97	1.3	67	69	31	60	84	62	
10 K M H - 9	0.98	0.86	0.93	1.00	0.94	0.94	2.4	68	70	37	55	83	63	
11 X - 2182	1.01	0.87	1.02	1.00	0.96	0.97	1.6	65	73	36	57	79	62	
12 X - 2185	0.98	0.89	1.09	1.00	0.93	0.98	1.5	73	71	34	57	89	65	
13 P R O - 356	0.98	0.85	0.88	1.00	0.97	0.94	1.3	73	71	33	64	91	66	
14 H K H - 1185	0.98	0.87	0.98	1.00	0.98	0.96	1.5	70	72	33	47	76	60	
15 H K H - 1210	0.98	0.88	1.02	1.00	0.98	0.97	2.0	57	67	30	51	66	54	
16 BISCO - 2051	0.98	0.87	0.96	1.00	0.98	0.96	1.0	62	71	26	50	73	57	
17 SEEDTEC - 205	0.99	0.84	1.00	1.00	0.97	0.96	1.9	68	68	28	54	84	60	
18 F H - 3210	0.97	0.93	1.05	1.00	1.00	0.99	1.1	70	65	29	49	78	58	
19 J H - 3851	0.99	0.79	0.95	1.00	0.97	0.94	1.0	75	71	31	51	87	63	
CHECKS:														
20 KIRAN	0.99	0.87	1.07	1.00	0.99	0.98	1.8	70	70	32	53	84	62	
21 MAHI KANCHAN	0.99	0.83	1.14	1.00	0.96	0.98	2.4	72	72	24	47	77	58	
22 HIM - 129	1.00	0.89	0.91	1.00	0.97	0.95	2.0	70	69	30	47	78	59	
23 SURYA	0.99	0.83	1.05	1.00	0.95	0.97	2.4	66	72	29	47	79	59	
24 X - 3342	0.99	0.87	1.01	1.00	1.01	0.98	1.5	71	74	32	58	83	63	
MEAN LOCATION														
C.D. AT 5%	-	-	-	-	-	-	0.5	4.1	9.1	9.0	8.5	10.6	8.3	
C.V. %	-	-	-	-	-	-	23.5	4.2	7.8	17.4	11.0	9.2	-	
F (Prob)	-	-	-	-	-	-	.000	.000	.030	.395	.000	.001	-	

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

TABLE NO. 15

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR IN AET 1st YEAR, TRIAL NO. TR67Z4 DURING KHARIF (2003).

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	B H - 2862	4624	15	6093	16	7525	16	2873	12	4734	16	5170	16		
2	P R O - 358	5070	12	7805	8	7911	12	2196	17	5265	13	5649	13		
3	P M Z - 135	3838	18	7521	11	8302	10	2635	14	5958	7	5651	12		
4	BISCO - 204	4796	13	8445	3	9744	3	3982	3	5514	12	6496	6		
5	SEEDTEC - 114	4539	16	7991	7	8377	9	3313	8	6690	4	6182	7		
6	SEEDTEC - 122	4762	14	7334	12	8075	11	3478	6	6868	3	6103	9		
7	ZAURI - 2052	5074	11	8415	4	9091	7	2985	10	5187	15	6151	8		
8	ZAURI - 2054	5342	7	7535	10	7893	13	2927	11	5842	9	5908	10		
9	J K M H - 810	5367	6	7572	9	9167	6	3910	4	6601	5	6523	5		
10	M C H - 5	5712	3	8079	6	10813	1	4191	1	6986	2	7156	2		
11	M C H - 6	6655	1	8090	5	9713	4	3424	7	7739	1	7124	3		
12	K M H - 3	5299	8	7922	17	7729	15	2352	15	5230	14	5281	15		
13	K M H - 5	5246	9	6170	15	7816	14	2269	16	5790	10	5458	14		
14	K M H - 9	5413	5	6998	13	8478	8	2111	18	5933	8	5787	11		
15	X - 2182	6542	2	9029	1	10583	2	3993	2	5708	11	7171	1		
16	X - 2185	5437	4	8721	2	9453	5	3890	5	6305	6	6762	4		
CHECKS:															
17	KIRAN	3914	17	4415	20	-	-	3205	9	-	-	3845	19		
18	HIM - 129	2993	19	4958	18	5182	17	1893	20	4527	17	3911	18		
19	MAHI KANCHAN	2838	20	4833	19	4820	18	2836	13	3883	18	3842	20		
20	X - 3342	5167	10	6293	14	-	-	1952	19	-	-	4471	17		
	MEAN YIELD=	4931		7104		7534		3021		5238		5566			
	MEAN STAND	71		71		52		47		79		64			
	C.D. AT 5%=	1104		1179		1704		488		1258		1147			
	C.V. %	15.83		11.73		12.28		11.42		13.04		-			
	F (Prob)	.000		.000		.000		.000		.000		-			
	PLOT SIZE=	12.00		15.00		10.50		9.60		12.00		-			
AGRONOMY DATA:															
	SOWING DATE (2003)	16-07		19-08		3-08		3-07		8-07		-			
	HARVEST DATE (2003)	24-10		12-01		5-12		22-10		18-10		-			
	IRRIGATION NOS	1		-		8		7		-		-			
	FERTILIZER APPLIED N	150		150		150		135		100		-			
	P	60		75		75		63		50		-			
	K	40		38		40		50		30		-			

TABLE NO. 15 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN							ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KOLH			
1	B H - 2862	18.14	38.02	-	-	-	-	34.47	
2	P R O - 358	29.53	76.79	-	-	-	-	46.94	
3	P M Z - 135	-	70.35	-	-	-	-	46.98	
4	BISCO - 204	22.52	91.30	-	24.24	-	-	68.97	
5	SEEDTEC - 114	15.95	81.01	-	3.38	-	-	60.80	
6	SEEDTEC - 122	21.65	66.12	-	8.52	-	-	58.75	
7	ZAURI - 2052	29.64	90.62	-	-	-	-	59.98	
8	ZAURI - 2054	36.47	70.67	-	-	-	-	53.66	
9	J K M H - 810	37.13	71.52	-	22.00	-	-	69.68	
10	M C H - 5	45.93	83.01	-	30.78	-	-	86.14	
11	M C H - 6	70.03	83.26	-	6.84	-	-	85.31	
12	K M H - 3	35.38	31.20	-	-	-	-	37.35	
13	K M H - 5	34.01	39.76	-	-	-	-	41.97	
14	K M H - 9	38.28	58.52	-	-	-	-	50.52	
15	X - 2182	67.13	104.52	-	24.58	-	-	86.52	
16	X - 2185	38.91	97.54	-	21.39	-	-	75.87	
CHECKS:									
17	KIRAN	-	-	-	-	-	-	-	
18	HIM - 129	-	12.31	-	-	-	-	1.72	
19	MAHI KANCHAN	-	9.47	-	-	-	-	-	
20	X - 3342	32.01	42.54	-	-	-	-	16.29	

TABLE NO. 15 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN						ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KOLH		
1	B H - 2862	18.14	38.02	-	-	-	-	34.47
2	P R O - 358	29.53	76.79	-	-	-	-	46.94
3	P M Z - 135	-	70.35	-	-	-	-	46.98
4	BISCO - 204	22.52	91.30	-	24.24	-	-	68.97
5	SEEDTEC - 114	15.95	81.01	-	3.38	-	-	60.80
6	SEEDTEC - 122	21.65	66.12	-	8.52	-	-	58.75
7	ZAURI - 2052	29.64	90.62	-	-	-	-	59.98
8	ZAURI - 2054	36.47	70.67	-	-	-	-	53.66
9	J K M H - 810	37.13	71.52	-	22.00	-	-	69.68
10	M C H - 5	45.93	83.01	-	30.78	-	-	86.14
11	M C H - 6	70.03	83.26	-	6.84	-	-	85.31
12	K M H - 3	35.38	31.20	-	-	-	-	37.35
13	K M H - 5	34.01	39.76	-	-	-	-	41.97
14	K M H - 9	38.28	58.52	-	-	-	-	50.52
15	X - 2182	67.13	104.52	-	24.58	-	-	86.52
16	X - 2185	38.91	97.54	-	21.39	-	-	75.87
CHECKS:								
17	KIRAN	-	-	-	-	-	-	-
18	HIM - 129	-	12.31	-	-	-	-	1.72
19	MAHI KANCHAN	-	9.47	-	-	-	-	-
20	X - 3342	32.01	42.54	-	-	-	-	16.29

TABLE NO. 15 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HIM - 129							ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KOLH			
1	B H - 2862	54.51	22.89	45.24	51.74	4.58		32.21	
2	P R O - 358	69.41	57.41	52.67	15.98	16.31		44.46	
3	P M Z - 135	28.24	51.68	60.22	39.20	31.62		44.50	
4	BISCO - 204	60.25	70.33	88.06	110.31	21.82		66.12	
5	SEEDTEC - 114	51.66	61.17	61.67	75.00	47.78		58.08	
6	SEEDTEC - 122	59.11	47.91	55.84	83.71	51.73		56.07	
7	ZAURI - 2052	69.56	69.72	75.44	57.68	14.59		57.28	
8	ZAURI - 2054	78.49	51.96	52.33	54.60	29.05		51.07	
9	J K M H - 810	79.35	52.72	76.91	106.52	45.81		66.81	
10	M C H - 5	90.87	62.95	108.68	121.38	54.33		83.00	
11	M C H - 6	122.38	63.17	87.46	80.85	70.96		82.19	
12	K M H - 3	77.07	16.81	49.17	24.24	15.53		35.03	
13	K M H - 5	75.28	24.44	50.84	19.86	27.91		39.58	
14	K M H - 9	80.86	41.14	63.62	11.52	31.07		47.98	
15	X - 2182	118.59	82.10	104.24	110.89	26.09		83.37	
16	X - 2185	81.69	75.89	82.45	105.49	39.29		72.91	
CHECKS:									
17	KIRAN	30.79	-	-	69.28	-		-	
18	HIM - 129	-	-	-	-	-		-	
19	MAHI KANCHAN	-	-	-	49.81	-		-	
20	X - 3342	72.65	26.91	-	3.13	-		14.33	

TABLE NO. 15 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN							ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KOLH			
1	B H - 2862	62.94	26.08	56.13	1.29	21.94			34.57
2	P R O - 358	78.65	61.49	64.13	-	35.61			47.04
3	P M Z - 135	35.23	55.61	72.24	-	53.47			47.08
4	BISCO - 204	68.98	74.75	102.17	40.38	42.03			69.09
5	SEEDTEC - 114	59.92	65.35	73.80	16.81	72.30			60.91
6	SEEDTEC - 122	67.78	51.74	67.53	22.62	76.91			58.86
7	ZAURI - 2052	78.80	74.12	88.60	5.25	33.61			60.09
8	ZAURI - 2054	88.22	55.91	63.76	3.19	50.46			53.77
9	J K M H - 810	89.13	56.68	90.18	37.85	70.01			69.79
10	M C H - 5	101.27	67.17	124.34	47.77	79.94			86.27
11	M C H - 6	134.50	67.41	101.52	20.72	99.33			85.44
12	K M H - 3	86.72	19.84	60.36	-	34.71			37.44
13	K M H - 5	84.83	27.66	62.15	-	49.13			42.07
14	K M H - 9	90.72	44.80	75.90	-	52.82			50.62
15	X - 2182	130.50	86.82	119.56	40.77	47.01			86.64
16	X - 2185	91.59	80.45	96.13	37.16	62.40			75.99
CHECKS:									
17	KIRAN	37.92	-	-	12.99	-			0.07
18	HIM - 129	5.45	2.59	7.50	-	16.59			1.78
19	MAHI KANCHAN	-	-	-	-	-			-
20	X - 3342	82.07	30.21	-	-	-			16.37

TABLE NO. 15 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE X - 3342

SI	NO PEDIGREE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN
1	B H - 2862	-	-	-	47.14	-	15.64
2	P R O - 358	-	24.03	-	12.47	-	26.36
3	P M Z - 135	-	19.51	-	34.98	-	26.40
4	BISCO - 204	-	34.21	-	103.93	-	45.31
5	SEEDTEC - 114	-	26.99	-	69.69	-	38.27
6	SEEDTEC - 122	-	16.54	-	78.13	-	36.52
7	ZAURI - 2052	-	33.73	-	52.90	-	37.57
8	ZAURI - 2054	3.38	19.74	-	49.91	-	32.14
9	J K M H - 810	3.88	20.33	-	100.26	-	45.91
10	M C H - 5	10.55	28.39	-	114.67	-	60.07
11	M C H - 6	28.80	28.57	-	75.36	-	59.36
12	K M H - 3	2.56	-	-	20.47	-	18.11
13	K M H - 5	1.52	-	-	16.23	-	22.09
14	K M H - 9	4.76	11.21	-	8.13	-	29.44
15	X - 2182	26.60	43.48	-	104.50	-	60.39
16	X - 2185	5.23	38.59	-	99.26	-	51.24
CHECKS:							
17	KIRAN	-	-	-	64.14	-	-
18	HIM - 129	-	-	-	-	-	-
19	MAHI KANCHAN	-	-	-	45.27	-	-
20	X - 3342	-	-	-	-	-	-

TABLE NO. 15 (CONT.)

Sl 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	B H - 2862	44.3	51.8	46.3	52.0	53.0	49.5	46.3	54.3	49.3	56.0	54.3	52.0
2	P R O - 358	43.8	50.0	46.3	48.5	52.3	48.2	46.5	50.8	47.0	51.5	54.0	50.0
3	P M Z - 135	42.5	52.3	46.3	52.3	52.7	49.2	45.0	51.0	47.7	54.3	54.7	50.5
4	BISCO - 204	42.0	53.3	47.0	52.0	54.0	49.7	44.8	53.5	49.0	56.0	55.7	51.8
5	SEEDTEC - 114	44.8	55.0	49.3	54.3	58.3	52.3	47.8	54.3	50.7	57.3	60.0	54.0
6	SEEDTEC - 122	45.5	55.8	49.3	56.5	57.3	52.9	48.3	55.0	50.3	59.3	58.7	54.3
7	ZAURI - 2052	44.3	53.8	48.3	52.8	53.7	50.5	47.5	54.8	49.0	55.8	55.7	52.5
8	ZAURI - 2054	42.3	52.8	47.7	52.8	54.0	49.9	45.0	53.3	49.0	55.3	55.7	51.6
9	J K M H - 810	42.8	53.3	46.3	53.3	53.3	49.8	46.3	53.3	48.3	57.3	55.3	52.1
10	M C H - 5	44.0	54.0	49.7	53.8	56.0	51.5	47.5	54.5	51.0	55.8	57.7	53.3
11	M C H - 6	45.3	54.3	49.0	54.8	55.3	51.7	47.8	53.8	49.3	58.3	57.0	53.2
12	K M H - 3	44.8	53.5	46.7	50.8	55.3	50.2	48.5	53.8	47.7	55.5	56.7	52.4
13	K M H - 5	44.0	53.3	47.0	53.5	54.0	50.3	48.0	53.5	48.7	57.5	56.0	52.7
14	K M H - 9	44.5	53.5	46.3	54.0	56.7	51.0	48.3	54.3	48.3	57.8	58.0	53.3
15	X - 2182	43.0	53.0	47.0	51.8	53.3	49.6	46.3	52.5	48.7	55.0	55.3	51.5
16	X - 2185	42.8	52.3	47.0	52.0	53.0	49.4	47.5	53.3	49.0	54.0	55.0	51.8
CHECKS:													
17	KIRAN	42.8	51.3	-	51.0	-	48.3	46.0	54.0	-	54.0	-	51.3
18	HIM - 129	41.8	49.3	42.7	47.3	49.0	46.0	45.3	49.0	44.0	50.3	49.3	47.6
19	MAHI KANCHAN	43.0	50.5	44.3	50.8	52.0	48.1	45.8	51.3	45.7	54.8	54.0	50.3
20	X - 3342	42.0	50.5	-	48.3	-	46.9	46.8	50.5	-	51.3	-	49.5
MEAN LOCATION													
		43.5	52.7	47.0	52.1	54.1	49.9	46.7	53.0	48.5	55.3	55.7	51.9
C.D. AT 5% =		1.7	1.2	1.5	1.3	2.3	1.6	1.9	1.2	2.0	1.3	2.0	1.7
C.V. % =		2.7	1.6	1.9	1.7	2.5	-	2.9	1.7	2.5	1.6	2.1	-
F (Prob)		.000	.000	.000	.000	.000	-	.000	.000	.000	.000	.000	-

TABLE NO. 15 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST				
		KARI	MAND	COIM	KOLH	ZN 4 MEAN	ARBH	MAND	KOLH	ZN 4 MEAN	
1	B H - 2862	81.5	86.7	97.0	83.7	87.2	23.7	19.4	21.4	21.5	
2	P R O - 358	80.0	90.7	92.5	82.0	86.3	19.5	19.8	20.7	20.0	
3	P M Z - 135	78.5	88.3	96.3	82.3	86.4	19.6	20.0	22.5	20.7	
4	BISCO - 204	78.5	90.0	97.3	83.0	87.2	22.0	20.0	19.5	20.5	
5	SEEDTEC - 114	81.5	89.3	98.3	86.3	88.9	25.3	20.9	20.5	22.2	
6	SEEDTEC - 122	79.5	94.3	100.0	85.0	89.7	25.9	19.9	19.5	21.8	
7	ZAURI - 2052	78.8	89.3	96.8	82.3	86.8	24.3	20.3	20.0	21.6	
8	ZAURI - 2054	79.5	89.0	96.5	82.3	86.8	19.1	19.8	19.5	19.5	
9	J K M H - 810	79.0	92.0	98.3	82.0	87.8	22.4	19.0	18.0	19.8	
10	M C H - 5	80.8	93.3	97.0	84.7	88.9	26.3	20.9	20.4	22.5	
11	M C H - 6	80.5	90.0	98.3	83.7	88.1	24.3	20.0	19.5	21.3	
12	K M H - 3	80.5	91.0	96.5	83.0	87.8	22.5	18.8	21.8	21.0	
13	K M H - 5	79.0	90.7	98.0	82.7	87.6	20.8	19.5	19.5	20.0	
14	K M H - 9	81.3	91.7	98.5	84.3	88.9	24.5	19.1	21.5	21.7	
15	X - 2182	79.8	89.3	96.0	83.0	87.0	22.3	17.7	19.0	19.7	
16	X - 2185	81.5	86.3	95.0	82.3	86.3	20.3	20.1	21.4	20.6	
CHECKS:											
17	KIRAN	77.5	-	94.0	-	85.8	19.0	-	-	19.0	
18	HIM - 129	75.8	84.0	90.5	77.0	81.8	17.3	19.9	17.4	18.2	
19	MAHI KANCHAN	77.0	84.3	95.0	83.0	84.8	16.0	20.2	19.5	18.6	
20	X - 3342	78.0	-	92.8	-	85.4	18.1	-	-	18.1	
MEAN LOCATION											
	C.D. AT 5%	2.1	4.7	1.2	2.1	2.5	1.3	2.0	1.4	1.6	
	C.V. %	1.9	3.2	0.9	1.6	-	4.3	6.0	4.2	-	
	F (Prob)	.000	.004	.000	.000	-	.000	.290	.000	-	

TABLE NO. 15 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *				EAR ASPECT *				ZN 4	
	KARI	ARBH	MAND	KOLH	MEAN	KARI	ARBH	MAND	KOLH	MEAN
1 B H - 2862	1.8	2.0	2.0	2.5	2.1	1.5	2.3	1.3	2.0	1.8
2 P R O - 358	2.5	2.5	2.0	2.7	2.4	2.3	2.5	1.7	2.0	2.1
3 P M Z - 135	2.5	2.5	2.0	2.0	2.3	2.5	2.5	2.0	1.8	2.2
4 BISCO - 204	2.8	2.3	2.0	1.8	2.2	2.3	2.3	2.0	1.8	2.1
5 SEEDTEC - 114	2.0	2.0	2.3	1.7	2.0	2.3	2.3	1.3	1.7	1.9
6 SEEDTEC - 122	2.5	2.0	2.0	1.8	2.1	2.0	2.8	2.0	1.7	2.1
7 ZAURI - 2052	2.8	2.0	2.0	2.0	2.2	2.3	2.3	1.7	2.0	2.0
8 ZAURI - 2054	2.3	2.5	2.0	1.7	2.1	2.3	2.5	2.3	1.7	2.2
9 J K M H - 810	2.3	2.3	2.0	1.8	2.1	1.8	2.8	1.7	1.5	1.9
10 M C H - 5	1.8	2.0	2.0	1.7	1.9	2.0	2.3	1.7	1.5	1.9
11 M C H - 6	2.0	2.0	2.0	2.0	2.0	2.0	2.3	1.7	1.7	1.9
12 K M H - 3	2.0	2.3	2.3	2.0	2.1	2.5	2.8	2.0	2.2	2.4
13 K M H - 5	2.5	2.5	2.3	1.8	2.3	2.3	3.0	2.3	1.8	2.4
14 K M H - 9	2.5	2.3	3.0	2.0	2.4	3.0	3.0	2.0	1.8	2.5
15 X - 2182	2.3	2.0	2.0	2.0	2.1	2.0	2.5	2.3	1.7	2.1
16 X - 2185	1.8	2.5	2.3	1.8	2.1	2.8	2.3	3.0	1.5	2.4
CHECKS:										
17 KIRAN	3.0	3.0	-	-	3.0	2.5	3.0	-	-	2.8
18 HIM - 129	3.3	3.0	2.3	2.5	2.8	3.5	3.0	2.0	2.2	2.7
19 MAHI KANCHAN	3.0	3.0	2.3	2.8	2.8	1.5	3.0	2.7	2.3	2.4
20 X - 3342	2.3	2.8	-	-	2.5	2.3	3.0	-	-	2.6
MEAN LOCATION										
C.D. AT 5% =	0.9	0.1	0.5	0.6	0.5	1.1	0.2	0.8	0.5	0.6
C.V. % =	25.6	4.4	15.2	18.5	-	33.0	5.6	23.2	16.3	-
F (Prob)	.021	.000	.053	.009	-	.093	.000	.007	.036	-

TABLE NO. 15 (CONT.)

Sl NO PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 4	
	KARI	ARBH	MAND	KOLH	ZN 4 MEAN	KARI	ARBH	MAND	KOLH	ZN 4 MEAN
1 B H - 2862	1.8	2.0	2.3	2.3	2.1	1.5	1.8	2.0	2.3	1.9
2 P R O - 358	1.3	2.5	2.3	2.5	2.1	2.3	2.8	2.0	2.5	2.4
3 P M Z - 135	1.8	2.3	2.0	2.2	2.0	2.8	2.8	2.0	2.0	2.4
4 BISCO - 204	1.8	2.0	2.3	1.8	2.0	2.3	2.3	2.0	1.8	2.1
5 SEEDTEC - 114	1.5	2.0	2.0	1.7	1.8	1.8	2.0	2.3	1.7	1.9
6 SEEDTEC - 122	1.8	2.5	2.0	1.7	2.0	1.8	2.0	1.7	1.7	1.8
7 ZAURI - 2052	2.0	2.0	2.3	1.8	2.0	2.0	2.5	2.3	2.0	2.2
8 ZAURI - 2054	1.5	2.3	2.7	2.0	2.1	2.3	3.0	2.0	2.2	2.4
9 J K M H - 810	1.3	2.0	3.0	1.7	2.0	2.3	2.3	2.0	1.8	2.1
10 M C H - 5	1.3	2.8	3.3	1.7	2.3	1.3	2.0	2.3	1.7	1.8
11 M C H - 6	1.8	2.0	1.7	2.0	1.9	2.3	2.0	1.7	2.0	2.0
12 K M H - 3	1.3	2.3	2.3	2.0	2.0	1.8	2.8	2.3	2.3	2.3
13 K M H - 5	1.8	2.8	2.3	1.8	2.2	2.0	2.8	2.3	2.0	2.3
14 K M H - 9	1.8	2.5	2.3	1.8	2.1	2.5	3.0	3.0	2.3	2.7
15 X - 2182	2.0	2.3	2.7	2.2	2.3	2.0	2.0	2.0	2.0	2.0
16 X - 2185	1.8	2.0	2.3	1.8	2.0	1.8	2.8	2.0	2.0	2.1
CHECKS:										
17 KIRAN	2.0	2.3	-	-	2.1	2.8	3.0	-	-	2.9
18 HIM - 129	2.0	3.0	2.3	2.5	2.5	3.3	3.0	2.0	2.3	2.6
19 MAHI KANCHAN	2.0	3.0	2.7	2.8	2.6	3.3	3.0	2.3	2.8	2.9
20 X - 3342	1.5	2.3	-	-	1.9	2.3	3.0	-	-	2.6
MEAN LOCATION										
C.D. AT 5%	0.7	0.3	0.9	0.6	0.6	0.8	0.2	0.6	0.7	0.6
C.V. %	28.0	8.6	23.3	17.8	-	26.4	5.2	18.3	20.4	-
F (Prob)	.203	.000	.187	.008	-	.000	.000	.065	.107	-

TABLE NO. 15 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 4	
	KARI	MAND	COIM	KOLH	MEAN	KARI	MAND	COIM	KOLH	MEAN	KOLH	MEAN
1 B H - 2862	152	172	147	157	157	58	73	72	82	71	82	71
2 P R O - 358	165	184	145	175	167	68	80	71	90	77	90	77
3 P M Z - 135	167	193	145	183	172	66	89	83	93	83	93	83
4 BISCO - 204	177	202	173	175	182	64	91	86	88	82	88	82
5 SEEDTEC - 114	162	192	152	172	169	69	89	84	100	85	100	85
6 SEEDTEC - 122	155	176	139	178	162	51	83	76	107	79	107	79
7 ZAURI - 2052	162	176	164	182	171	65	85	85	95	82	95	82
8 ZAURI - 2054	181	195	145	198	180	63	80	79	97	80	97	80
9 J K M H - 810	158	177	155	150	160	56	85	80	88	77	88	77
10 M C H - 5	170	176	145	188	170	66	84	87	98	84	98	84
11 M C H - 6	184	182	136	177	169	77	81	78	98	83	98	83
12 K M H - 3	167	188	146	198	175	67	89	79	103	84	103	84
13 K M H - 5	173	198	152	203	182	75	91	74	108	87	108	87
14 K M H - 9	176	198	143	192	177	73	93	76	112	89	112	89
15 X - 2182	179	197	142	177	174	69	94	89	95	87	95	87
16 X - 2185	194	203	165	163	181	74	95	77	90	84	90	84
CHECKS:												
17 KIRAN	173	-	122	-	148	71	-	74	-	72	-	72
18 HIM - 129	162	153	131	143	147	49	61	73	83	67	83	67
19 MAHI KANCHAN	166	179	145	183	168	67	82	69	87	76	87	76
20 X - 3342	179	-	153	-	166	73	-	74	-	74	-	74
MEAN LOCATION												
C.D. AT 5%	16.8	15.4	6.4	34.3	18.2	10.5	13.1	4.5	20.4	12.1	20.4	12.1
C.V. %	7.0	5.0	3.1	11.6	-	11.3	9.3	4.1	12.9	-	12.9	-
F (Prob)	.000	.000	.000	.058	-	.000	.001	.000	.179	-	.179	-

TABLE NO. 15 (CONT.)

SI NO	PEDIGREE	STAND AT HARVEST										ZN 4 MEAN							
		EAR / H. TURC. PLANT *		KARI		ARBH		MAND		COIM			KOLH						
		KARI	KOLH	KARI	ARBH	MAND	COIM	KOLH	KARI	ARBH	MAND	COIM	KOLH	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN
1	B H - 2862	0.99	2.7	82	74	47	42	96	82	74	47	42	96	82	74	47	42	96	68
2	P R O - 358	0.95	2.8	75	73	55	48	91	75	73	55	48	91	75	73	55	48	91	68
3	P M Z - 135	0.97	2.5	70	70	55	53	93	70	70	55	53	93	70	70	55	53	93	68
4	BISCO - 204	1.05	2.3	65	75	52	51	87	65	75	52	51	87	65	75	52	51	87	66
5	SEEDTEC - 114	1.00	2.3	72	74	70	55	97	72	74	70	55	97	72	74	70	55	97	73
6	SEEDTEC - 122	0.98	1.8	63	73	59	52	93	63	73	59	52	93	63	73	59	52	93	68
7	ZAURI - 2052	0.98	2.8	67	59	63	56	76	67	59	63	56	76	67	59	63	56	76	64
8	ZAURI - 2054	1.02	2.2	61	71	71	49	82	61	71	71	49	82	61	71	71	49	82	67
9	J K M H - 810	0.94	2.0	60	49	65	53	88	60	49	65	53	88	60	49	65	53	88	63
10	M C H - 5	0.99	2.2	67	73	73	56	87	67	73	73	56	87	67	73	73	56	87	71
11	M C H - 6	0.98	2.5	75	79	63	52	79	75	79	63	52	79	75	79	63	52	79	70
12	K M H - 3	0.94	2.5	80	79	53	48	88	80	79	53	48	88	80	79	53	48	88	70
13	K M H - 5	0.99	2.8	69	82	51	41	80	69	82	51	41	80	69	82	51	41	80	64
14	K M H - 9	1.05	2.5	69	78	56	39	95	69	78	56	39	95	69	78	56	39	95	68
15	X - 2182	1.01	2.0	76	81	56	52	88	76	81	56	52	88	76	81	56	52	88	71
16	X - 2185	1.01	2.7	77	72	52	53	84	77	72	52	53	84	77	72	52	53	84	68
CHECKS:																			
17	KIRAN	0.96	-	76	72	-	26	-	76	72	-	26	-	76	72	-	26	-	58
18	HIM - 129	0.95	2.8	72	61	45	43	81	72	61	45	43	81	72	61	45	43	81	60
19	MAHI KANCHAN	0.97	3.0	65	64	55	24	88	65	64	55	24	88	65	64	55	24	88	59
20	X - 3342	0.91	-	78	70	-	51	-	78	70	-	51	-	78	70	-	51	-	66
MEAN LOCATION																			
C.D. AT 5%		-	2.5	71	71	58	47	87	8.6	17.4	14.7	4.4	20.1	13.0	-	-	-	-	-
C.V. %		-	19.6	8.5	17.2	15.3	6.6	13.9	8.5	17.2	15.3	6.6	13.9	-	-	-	-	-	-
F (Prob)		-	.164	.000	.072	.013	.000	.730	.000	.072	.013	.000	.730	-	-	-	-	-	-

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

TABLE NO. 16

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, GODHRA, KHEDBRAMHA, CHHINDIWARA IN AET 1st YEAR, TRIAL No. TR67Z5 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 5	
		UDAI	R	BANS	R	GODH	R	KHED	R	CHHI	R	MEAN	R
1	B H - 2862	6456	8	2233	18	1690	19	5933	10	6781	14	4618	16
2	P R O - 358	6062	9	3692	12	3115	15	5075	17	7243	11	5037	11
3	P M Z - 135	7812	2	4808	3	3009	17	4776	19	8243	6	5730	7
4	BISCO - 204	8730	1	4458	6	4233	3	5959	9	9263	4	6529	1
5	SEEDTEC - 122	7207	5	4214	9	3817	6	5017	18	7173	12	5486	8
6	ZAURI - 2054	5145	11	3857	11	3434	12	5923	11	8160	7	5304	10
7	X 1150 Z	7366	4	5136	2	4018	5	5674	14	7989	8	6036	2
8	J K M H - 810	5429	10	4275	8	3816	7	7074	5	8879	5	5895	5
9	M C H - 6	4860	12	2300	17	4441	2	7402	1	10196	1	5840	6
10	K M H - 2	4484	13	4142	10	3719	8	5808	12	6962	13	5023	12
11	X - 2182	6768	7	4315	7	4146	4	5331	16	9322	3	5976	3
12	X - 2185	6904	6	4465	5	3236	14	5573	15	9365	2	5908	4
13	P R O - 356	3314	16	3461	13	3630	10	6325	6	7357	10	4817	15
14	J H - 3851	7427	3	2027	19	3666	9	7083	4	6724	15	5385	9
CHECKS:													
15	KIRAN	2674	18	4586	4	3240	13	7168	2	5026	17	4539	17
16	MAHI KANCHAN	3450	15	2579	15	2906	18	5731	13	4844	18	3902	18
17	HIM - 129	2980	17	5550	1	3626	11	7089	3	5060	16	4861	14
18	SURYA	2503	19	2554	16	3085	16	6104	8	4121	19	3673	19
19	X - 3342	3738	14	2773	14	4592	1	6231	7	7412	9	4949	13
	MEAN YIELD=	5437		3759		3548		6067		7375		5237	
	MEAN STAND	82		48		70		89		74		72	
	C.D. AT 5% =	220		501		1105		935		785		709	
	C.V. % =	2.86		9.42		21.99		10.87		7.51		-	
	F (Prob)	.000		.000		.000		.000		.000		-	
	PLOT SIZE=	12.00		12.00		12.00		12.00		11.20		-	
AGRONOMY DATA:													
	SOWING DATE (2003)	3-07		3-07		28-06		9-07		27-06		-	
	HARVEST DATE (2003)	6-10		16-10		18-10		12-10		27-10		-	
	IRRIGATION NOS	-		-		-		-		-		-	
	FERTILIZER APPLIED N	90		80		100		100		100		-	
	P	60		60		50		50		50		-	
	K	-		-		-		-		30		-	

TABLE NO. 16 (CONT.)

SI	NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN						ZN 5 MEAN
		UDAI	BANS	GODH	KHED	CHHI		
	1 B H - 2862	141.41	-	-	-	34.91	1.76	
	2 P R O - 358	126.69	-	-	-	44.11	10.99	
	3 P M Z - 135	192.14	4.85	-	-	64.00	26.24	
	4 BISCO - 204	226.47	-	30.64	-	84.31	43.84	
	5 SEEDTEC - 122	169.52	-	17.81	-	42.71	20.86	
	6 ZAURI - 2054	92.41	-	5.98	-	62.36	16.86	
	7 X 1150 Z	175.44	11.99	24.00	-	58.95	33.00	
	8 J K M H - 810	103.01	-	17.78	-	76.67	29.87	
	9 M C H - 6	81.74	-	37.05	3.28	102.87	28.67	
	10 K M H - 2	67.66	-	14.77	-	38.53	10.66	
	11 X - 2182	153.07	-	27.94	-	85.48	31.67	
	12 X - 2185	158.18	-	-	-	86.34	30.18	
	13 P R O - 356	23.94	-	12.02	-	46.38	6.14	
	14 J H - 3851	177.74	-	13.14	-	33.78	18.65	
	CHECKS:							
	15 KIRAN	-	-	-	-	-	-	
	16 MAHI KANCHAN	29.02	-	-	-	-	-	
	17 HIM - 129	11.44	21.02	11.91	-	0.68	7.10	
	18 SURYA	-	-	-	-	-	-	
	19 X - 3342	39.79	-	41.72	-	47.47	9.04	

TABLE NO. 16 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN							ZN 5 MEAN
		UDAI	BANS	GODH	KHED	CHHI	CHHI		
1	B H - 2862	87.10	-	-	3.52	39.98	18.36		
2	P R O - 358	75.69	43.18	7.17	-	49.52	29.09		
3	P M Z - 135	126.43	86.45	3.55	-	70.16	46.84		
4	BISCO - 204	153.03	72.86	45.65	3.98	91.23	67.31		
5	SEEDTEC - 122	108.89	63.41	31.35	-	48.07	40.58		
6	ZAURI - 2054	49.12	49.58	18.16	3.34	68.46	35.92		
7	X 1150 Z	113.48	99.16	38.25	-	64.92	54.70		
8	J K M H - 810	57.34	65.79	31.32	23.43	83.30	51.06		
9	M C H - 6	40.86	-	52.80	29.16	110.49	49.66		
10	K M H - 2	29.95	60.61	27.96	1.33	43.73	28.72		
11	X - 2182	96.14	67.33	42.65	-	92.44	53.15		
12	X - 2185	100.10	73.13	11.34	-	93.34	51.42		
13	P R O - 356	-	34.21	24.90	10.35	51.88	23.45		
14	J H - 3851	115.26	-	26.15	23.59	38.81	38.01		
CHECKS:									
15	KIRAN	-	77.83	11.50	25.06	3.76	16.32		
16	MAHI KANCHAN	-	-	-	-	-	-		
17	HIM - 129	-	115.21	24.77	23.68	4.46	24.57		
18	SURYA	-	-	6.16	6.51	-	-		
19	X - 3342	8.35	7.53	58.01	8.72	53.01	26.84		

TABLE NO. 16 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HIM - 129						ZN 5 MEAN
		UDAI	BANS	GODH	KHED	CHHI		
1	B H - 2862	116.62	-	-	-	34.00	-	
2	P R O - 358	103.41	-	-	-	43.13	3.63	
3	P M Z - 135	162.15	-	-	-	62.89	17.87	
4	BISCO - 204	192.95	-	16.73	-	83.06	34.31	
5	SEEDTEC - 122	141.85	-	5.27	-	41.74	12.85	
6	ZAURI - 2054	72.65	-	-	-	61.26	9.11	
7	X 1150 Z	147.16	-	10.80	-	57.87	24.18	
8	J K M H - 810	82.16	-	5.24	-	75.47	21.27	
9	M C H - 6	63.08	-	22.46	4.43	101.50	20.14	
10	K M H - 2	50.45	-	2.56	-	37.59	3.33	
11	X - 2182	127.09	-	14.33	-	84.22	22.94	
12	X - 2185	131.67	-	-	-	85.07	21.55	
13	P R O - 356	11.21	-	0.10	-	45.38	-	
14	J H - 3851	149.22	-	1.10	-	32.88	10.79	
CHECKS:								
15	KIRAN	-	-	-	1.11	-	-	
16	MAHI KANCHAN	15.78	-	-	-	-	-	
17	HIM - 129	-	-	-	-	-	-	
18	SURYA	-	-	-	-	-	-	
19	X - 3342	25.44	-	26.64	-	46.47	1.82	

TABLE NO. 16 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SURYA						ZN 5 MEAN
		UDAI	BANS	GODH	KHED	CHHI		
1	B H - 2862	157.96	-	-	-	64.52	25.73	
2	P R O - 358	142.23	44.58	0.96	-	75.74	37.13	
3	P M Z - 135	212.18	88.28	-	-	99.99	55.98	
4	BISCO - 204	248.85	74.55	37.21	-	124.76	77.73	
5	SEEDTEC - 122	188.00	65.01	23.73	-	74.03	49.33	
6	ZAURI - 2054	105.60	51.04	11.31	-	98.00	44.38	
7	X 1150 Z	194.33	101.11	30.23	-	93.83	64.33	
8	J K M H - 810	116.93	67.41	23.70	15.89	115.44	60.47	
9	M C H - 6	94.21	-	43.94	21.26	147.40	58.98	
10	K M H - 2	79.16	62.18	20.54	-	68.93	36.73	
11	X - 2182	170.43	68.97	34.38	-	126.19	62.69	
12	X - 2185	175.88	74.83	4.88	-	127.24	60.84	
13	P R O - 356	32.44	35.53	17.66	3.61	78.50	31.14	
14	J H - 3851	196.79	-	18.83	16.03	63.15	46.60	
CHECKS:								
15	KIRAN	6.86	79.58	5.03	17.42	21.95	23.56	
16	MAHI KANCHAN	37.87	0.98	-	-	17.53	6.23	
17	HIM - 129	19.08	117.32	17.54	16.12	22.78	32.33	
18	SURYA	-	-	-	-	-	-	
19	X - 3342	49.38	8.59	48.84	2.08	79.84	34.73	

TABLE NO. 16 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					ZN 5 MEAN	
		UDAI	BANS	GODH	KHED	CHHI	UDAI	BANS	GODH	KHED	CHHI		
1	B H - 2862	48.3	42.3	43.5	46.8	52.3	46.6	50.5	46.0	50.0	52.5	53.3	50.5
2	P R O - 358	49.0	40.5	42.8	45.5	52.3	46.0	50.0	44.0	47.8	51.5	52.8	49.2
3	P M Z - 135	48.3	40.8	46.5	47.5	51.8	47.0	50.5	44.8	50.8	50.8	51.8	49.7
4	BISCO - 204	50.3	42.3	46.8	47.0	53.5	48.0	52.5	46.3	51.5	51.8	53.8	51.2
5	SEEDTEC - 122	51.0	41.3	50.0	48.3	56.3	49.3	52.8	44.5	54.5	52.5	56.3	52.1
6	ZAURI - 2054	50.5	40.3	46.5	48.3	54.0	47.9	52.5	44.3	51.8	52.0	54.5	51.0
7	X 1150 Z	50.0	39.8	49.3	46.8	53.5	47.8	51.3	43.8	55.3	50.0	53.5	50.8
8	J K M H - 810	49.8	41.3	46.0	47.0	53.0	47.4	52.3	45.3	52.5	50.5	53.5	50.8
9	M C H - 6	51.0	40.0	48.8	47.3	56.0	48.6	52.8	43.5	54.0	50.5	56.0	51.3
10	K M H - 2	50.5	39.8	50.5	48.3	55.5	48.9	52.5	43.8	55.5	52.8	55.5	52.0
11	X - 2182	49.0	40.3	49.0	47.0	53.5	47.8	50.8	44.0	54.5	50.3	53.5	50.6
12	X - 2185	50.0	42.3	47.3	48.0	53.5	48.2	52.0	45.8	52.5	52.3	55.3	51.5
13	P R O - 356	47.5	40.0	42.3	43.8	49.5	44.6	49.3	44.8	47.8	49.3	49.5	48.1
14	J H - 3851	50.5	42.5	46.3	46.5	55.3	48.2	52.5	46.5	52.0	51.3	56.8	51.8
CHECKS:													
15	KIRAN	48.5	43.5	43.0	45.3	52.8	46.6	51.0	47.0	49.3	51.3	54.5	50.6
16	MAHI KANCHAN	49.5	41.3	42.3	43.5	50.8	45.5	50.8	45.3	47.8	48.5	52.0	48.8
17	HIM - 129	43.8	40.3	41.3	41.3	49.0	43.1	46.0	43.3	46.5	46.8	49.0	46.3
18	SURYA	45.8	40.3	46.0	43.3	49.3	44.9	46.8	43.5	52.0	49.8	49.8	48.3
19	X - 3342	47.5	40.3	42.8	44.0	51.0	45.1	50.0	44.0	47.5	48.5	52.0	48.4
MEAN LOCATION		49.0	41.0	45.8	46.1	52.8	46.9	50.9	44.7	51.2	50.7	53.3	50.2
C.D. AT 5% =		0.8	1.0	1.6	1.2	1.4	1.2	0.9	1.2	1.6	2.5	1.4	1.5
C.V. % =		1.2	1.7	2.4	1.9	1.9	-	1.2	1.9	2.3	3.4	1.9	-
F (Prob)		.000	.000	.000	.000	.000	-	.000	.000	.000	.000	.000	-

TABLE NO. 16 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST					ZN 5 MEAN	
		UDAI	BANS	GODH	KHED	CHHI	UDAI	BANS	GODH	KHED	CHHI		
1	B H - 2862	79.8	66.8	83.5	80.8	89.8	80.1	17.5	16.0	14.0	15.6	12.4	15.1
2	P R O - 358	81.0	65.3	83.5	83.0	91.0	80.8	17.5	16.1	12.8	15.6	11.5	14.7
3	P M Z - 135	84.0	65.8	81.8	81.3	91.0	80.8	15.9	16.4	10.6	15.5	12.7	14.2
4	BISCO - 204	84.3	68.0	83.8	80.8	90.8	81.5	18.4	16.2	11.8	15.7	13.3	15.1
5	SEEDTEC - 122	84.3	67.5	86.5	81.3	96.0	83.1	18.5	16.4	11.1	15.9	12.7	14.9
6	ZAURI - 2054	82.3	64.5	85.0	82.0	91.0	80.9	16.7	16.4	11.4	15.4	12.0	14.4
7	X 1150 Z	78.0	63.5	83.5	72.3	86.0	76.7	15.9	16.6	10.4	16.0	12.2	14.2
8	J K M H - 810	83.5	65.0	83.5	82.5	90.8	81.1	16.5	16.5	13.2	15.9	12.9	15.0
9	M C H - 6	80.3	65.8	85.3	82.0	92.0	81.1	16.6	16.6	10.0	14.6	13.1	14.2
10	K M H - 2	82.5	64.8	87.3	83.0	95.8	82.7	16.5	16.4	14.0	16.9	12.8	15.3
11	X - 2182	83.8	64.5	83.5	82.8	93.3	81.6	17.5	16.4	14.1	16.4	11.9	15.3
12	X - 2185	80.3	63.5	83.5	81.5	90.5	79.8	16.5	16.3	9.9	15.7	12.3	14.1
13	P R O - 356	75.3	65.8	85.8	78.5	86.5	78.3	16.0	16.5	11.1	15.8	12.0	14.3
14	J H - 3851	84.5	66.8	84.5	81.3	92.8	81.9	18.8	16.3	11.9	15.6	11.9	14.9
CHECKS:													
15	KIRAN	76.0	69.3	85.5	80.3	88.8	79.9	15.4	16.2	9.9	15.6	12.4	13.9
16	MAHI KANCHAN	77.8	67.5	84.8	74.3	86.5	78.2	15.5	16.3	12.0	17.0	12.3	14.6
17	HIM - 129	76.8	64.5	85.0	71.8	85.0	76.6	15.1	16.5	10.2	15.4	12.0	13.8
18	SURYA	75.8	64.8	85.8	72.3	85.0	76.7	15.1	16.5	9.7	15.3	11.9	13.7
19	X - 3342	77.0	64.8	83.5	74.0	89.5	77.8	16.1	15.7	10.3	16.2	13.1	14.3
MEAN LOCATION		80.4	65.7	84.5	79.2	90.1	80.0	16.6	16.3	11.5	15.8	12.4	14.5
C.D. AT 5%		1.8	2.0	2.1	2.9	1.5	2.1	0.4	0.5	0.8	0.7	0.4	0.6
C.V. %		1.6	2.2	1.7	2.6	1.2	-	1.8	2.3	5.2	3.0	2.4	-
F (Prob)		.000	.000	.000	.000	.000	-	.000	.155	.000	.000	.000	-

TABLE NO. 16 (CONT.)

Sl No	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 5	
		UDAI	BANS	GODH	KHED	MEAN	UDAI	BANS	GODH	KHED	CHHI	MEAN	CHHI
1	B H - 2862	2.0	2.4	4.5	3.0	3.0	2.3	2.1	4.3	2.3	2.5	2.5	2.7
2	P R O - 358	2.5	2.5	4.0	2.0	2.7	2.1	2.3	4.8	2.3	1.5	1.5	2.6
3	P M Z - 135	2.0	2.1	3.3	3.0	2.6	2.0	2.1	3.5	3.0	1.0	1.0	2.3
4	BISCO - 204	1.9	2.0	3.5	2.5	2.5	1.5	2.0	2.8	3.5	1.0	1.0	2.1
5	SEEDTEC - 122	2.0	2.1	2.8	3.0	2.5	1.7	2.0	3.8	3.5	2.0	2.0	2.6
6	ZAURI - 2054	2.1	2.3	2.8	2.3	2.3	2.0	2.0	3.3	3.5	2.0	2.0	2.5
7	X 1150 Z	2.2	2.3	2.5	3.3	2.5	2.1	2.0	1.8	2.5	1.0	1.0	1.9
8	J K M H - 810	1.9	2.1	3.0	2.5	2.4	1.8	2.1	3.5	2.3	2.0	2.0	2.3
9	M C H - 6	2.8	2.0	3.3	2.5	2.6	2.5	2.5	3.5	2.8	1.0	1.0	2.4
10	K M H - 2	2.8	2.1	3.0	2.5	2.6	2.8	2.0	2.8	2.3	2.0	2.0	2.3
11	X - 2182	2.1	2.0	2.5	2.5	2.3	1.9	2.0	2.8	3.8	1.5	1.5	2.4
12	X - 2185	2.0	2.4	4.0	2.3	2.7	1.9	2.0	4.0	2.8	2.0	2.0	2.5
13	P R O - 356	2.4	2.3	3.3	2.8	2.7	3.0	2.3	3.5	3.3	2.0	2.0	2.8
14	J H - 3851	1.9	2.3	2.8	2.3	2.3	1.8	2.3	2.8	3.0	1.5	1.5	2.3
CHECKS:													
15	KIRAN	3.0	2.1	2.5	2.5	2.5	2.9	2.1	1.5	3.0	2.0	2.0	2.3
16	MAHI KANCHAN	2.8	2.4	3.3	3.5	3.0	2.8	2.1	2.8	3.3	2.5	2.5	2.7
17	HIM - 129	2.6	2.0	2.0	2.8	2.3	3.1	2.1	2.8	2.8	2.5	2.5	2.7
18	SURYA	3.1	2.5	3.0	3.0	2.9	3.4	2.1	3.3	3.3	3.0	3.0	3.0
19	X - 3342	2.3	2.1	1.0	2.5	2.0	2.4	2.3	1.3	3.3	1.5	1.5	2.1
MEAN LOCATION													
C.D. AT 5% =		0.5	0.3	1.2	1.0	0.7	0.5	0.3	1.1	1.4	0.4	0.4	0.7
C.V. % =		15.2	10.0	27.8	26.6	-	14.5	10.7	26.3	34.5	14.0	14.0	-
F (Prob)		.000	.015	.000	.314	-	.000	.195	.000	.577	.000	.000	-

TABLE NO. 16 (CONT.)

Sl NO	PEDIGREE	HUSK COVER *					UNIFORMITY *					ZN 5	
		UDAI	BANS	GODH	KHED	CHHI	UDAI	BANS	GODH	KHED	CHHI	MEAN	MEAN
1	B H - 2862	1.6	2.1	4.5	2.5	1.0	1.8	2.1	4.5	3.3	1.0	2.3	2.5
2	P R O - 358	1.9	2.3	4.3	3.3	1.0	2.0	2.4	4.5	3.3	1.0	2.5	2.6
3	P M Z - 135	2.0	2.1	3.8	2.0	1.0	2.0	2.3	2.8	3.0	1.5	2.2	2.3
4	BISCO - 204	1.7	2.4	3.3	2.8	1.0	1.9	2.1	2.5	2.8	1.8	2.2	2.2
5	SEEDTEC - 122	1.5	2.3	3.5	3.0	1.0	1.6	2.3	2.5	2.8	1.0	2.3	2.0
6	ZAURI - 2054	1.8	2.4	3.3	3.0	1.3	1.7	2.1	2.8	3.5	1.0	2.3	2.2
7	X 1150 Z	1.8	2.3	1.3	3.0	1.0	1.9	2.3	2.5	3.5	1.0	1.9	2.2
8	J K M H - 810	1.6	2.3	2.5	3.0	1.0	1.8	2.0	3.0	3.3	1.0	2.1	2.2
9	M C H - 6	1.9	2.3	3.0	3.3	1.3	2.5	2.5	3.0	3.5	1.0	2.3	2.5
10	K M H - 2	2.0	2.3	2.5	3.3	1.3	2.3	2.1	3.0	3.3	1.0	2.3	2.3
11	X - 2182	2.0	2.1	3.8	2.5	1.3	1.9	2.1	2.8	2.8	1.0	2.3	2.1
12	X - 2185	1.8	2.1	3.8	3.0	1.8	2.0	2.1	4.3	2.8	1.0	2.5	2.4
13	P R O - 356	1.8	2.1	2.8	3.0	1.3	2.3	2.1	3.5	3.0	1.3	2.2	2.4
14	J H - 3051	1.5	2.4	3.0	2.8	1.5	1.6	2.4	3.5	3.0	2.0	2.2	2.5
CHECKS:													
15	KIRAN	2.1	2.3	2.3	3.3	1.5	2.9	2.1	1.8	2.5	2.0	2.3	2.3
16	MAHI KANCHAN	2.0	2.3	3.5	3.0	1.8	2.8	2.1	3.0	3.3	2.0	2.5	2.6
17	HIM - 129	2.5	2.1	1.8	2.5	1.8	2.4	2.4	2.5	3.3	1.8	2.1	2.5
18	SURYA	2.1	2.4	4.3	3.0	1.3	2.7	2.1	4.0	3.3	2.0	2.6	2.8
19	X - 3342	1.5	2.3	1.3	2.8	1.3	2.0	2.3	1.8	3.3	1.5	1.8	2.2
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													
		16.0	11.5	31.8	24.6	31.3	15.2	12.2	28.5	23.6	18.7	-	-
		.001	.938	.000	.638	.041	.000	.604	.000	.856	.000	-	-

TABLE NO. 16 (CONT.)

SI	NO PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 5 MEAN
		UDAI	BANS	GODH	KHED	CHHI	UDAI	BANS	GODH	KHED	CHHI	
1	B H - 2862	172	163	156	195	164	85	65	80	94	70	79
2	P R O - 358	158	134	168	186	190	79	56	80	89	100	81
3	P M Z - 135	173	183	148	186	179	88	103	70	95	81	87
4	BISCO - 204	190	189	169	194	204	88	98	75	96	94	90
5	SEEDTEC - 122	140	205	135	181	170	70	85	69	90	84	79
6	ZAURI - 2054	183	150	168	200	194	85	65	86	100	93	86
7	X 1150 Z	200	206	179	188	201	111	104	85	90	93	97
8	J K M H - 810	173	166	173	186	166	89	69	83	92	75	81
9	M C H - 6	155	164	159	191	171	78	83	83	98	93	87
10	K M H - 2	213	215	145	191	194	103	101	73	92	90	92
11	X - 2182	180	193	160	204	185	90	84	79	101	84	87
12	X - 2185	191	183	179	193	191	103	83	85	97	90	91
13	P R O - 356	155	201	126	186	186	86	98	63	100	90	87
14	J H - 3851	178	176	160	190	180	90	73	78	104	96	88
CHECKS:												
15	KIRAN	186	168	180	187	180	95	70	93	93	86	87
16	MAHI KANCHAN	165	150	163	194	178	89	73	78	93	85	83
17	HIM - 129	159	191	176	191	168	75	93	84	96	68	83
18	SURYA	173	183	168	180	171	76	78	81	84	73	78
19	X - 3342	196	185	184	195	184	108	95	86	94	86	94
MEAN LOCATION		176	179	163	190	182	89	83	79	95	86	86
C.D. AT 5%		28.5	10.8	10.3	14.5	15.9	18.3	8.2	8.3	12.5	13.0	12.0
C.V. %		11.4	4.3	4.4	5.4	6.2	14.5	7.0	7.4	9.3	10.7	-
F (Prob)		.000	.000	.000	.202	.000	.001	.000	.000	.304	.000	-

TABLE NO. 16 (CONT.)

Sl No	PEDIGREE	EAR NO. / PLANT						STAND AT HARVEST						ZN 5	
		UDAI	BANS	GODH	KHED	CHHI	MEAN	UDAI	BANS	GODH	KHED	CHHI	MEAN	CHHI	MEAN
1	B H - 2862	1.01	0.90	0.94	0.94	0.94	0.94	75	36	70	91	76	69		
2	P R O - 358	1.00	0.85	0.85	0.96	0.98	0.93	78	43	81	88	77	73		
3	P M Z - 135	0.99	0.87	0.88	0.95	0.93	0.92	76	54	89	89	72	76		
4	BISCO - 204	1.01	0.90	1.05	0.95	0.91	0.96	79	58	80	89	78	77		
5	SEEDTEC - 122	1.00	0.87	0.66	0.96	0.96	0.89	68	49	51	91	70	66		
6	ZAURI - 2054	1.00	1.00	0.71	0.96	0.95	0.92	84	47	62	90	72	71		
7	X 1150 Z	0.99	0.95	0.70	0.93	0.97	0.91	87	62	84	90	79	80		
8	J K M H - 810	1.00	0.96	0.72	0.98	0.95	0.92	78	47	64	86	78	71		
9	M C H - 6	0.98	0.98	0.68	0.93	0.94	0.90	90	39	72	88	81	74		
10	K M H - 2	1.02	0.92	0.75	0.95	0.98	0.93	86	66	82	89	70	79		
11	X - 2182	1.00	0.96	0.70	0.96	0.97	0.92	86	61	63	87	72	74		
12	X - 2185	1.00	0.94	0.94	0.98	0.94	0.96	89	39	58	88	78	70		
13	P R O - 356	1.00	1.00	0.77	0.95	0.94	0.93	82	54	81	93	83	78		
14	J H - 3851	1.00	1.06	0.77	0.95	0.96	0.95	89	38	72	88	71	71		
CHECKS:															
15	KIRAN	1.00	1.00	1.09	0.95	0.88	0.98	82	48	71	89	70	72		
16	MAHI KANCHAN	1.00	1.02	0.88	0.95	0.95	0.96	81	38	48	90	59	63		
17	HIM - 129	1.00	1.04	0.92	0.96	0.95	0.97	87	42	66	89	74	72		
18	SURYA	1.00	1.03	1.14	0.95	0.96	1.02	80	43	64	87	67	68		
19	X - 3342	1.00	1.03	0.94	0.96	0.96	0.98	80	40	71	90	77	71		
MEAN LOCATION															
C.D. AT 5% =															
C.V. % =															
F (Prob) =															

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

TABLE NO. 17

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, GURDASPUR, KARNAL, MAINPURI KANPUR IN AET 2nd YEAR, TRIAL NO. TR69Z2 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																
		DELH			LUDH			GURD			KARN			KANP			ZN 2	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MEAN	R
1	F 9572 A	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3
CHECKS:																		
2	BIO - 9681	2	2	2	3	3	3	1	1	1	1	1	1	1	1	1	1	1
3	PARBHAT	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	GANGA - 11	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	PRO - 311	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	5	5
	MEAN YIELD=	5969			6008			6850			5858			3420			5621	
	MEAN STAND	114			116			121			49			96			99	
	C.D. AT 5% =	1047			1448			1312			157			332			859	
	C.V. % =	9.50			15.89			12.63			1.45			6.40			-	
	F (Prob)	.002			.021			.000			.000			.305			-	
	PLOT SIZE=	22.50			15.60			15.60			11.20			15.00			-	
AGRONOMY DATA:																		
	SOWING DATE(2003)	8-07			28-06			3-07			30-06			18-07			-	
	HARVEST DATE(2003)	22-10			9-10			1-10			1-10			13-10			-	
	IRRIGATION NOS	-			3			2			3			-			-	
	FERTILIZER APPLIED N	120			125			125			150			120			-	
	P	80			60			60			60			60			-	
	K	40			30			30			-			60			-	

TABLE NO. 17 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681						ZN 2 MEAN
		DELH	LUDH	GURD	KARN	KANP MAIN		
1	F 9572 A	-	10.72	-	-	-	-	
CHECKS:								
2	BIO - 9681	-	-	-	-	-	-	
3	PARBHAT	-	-	-	-	-	-	
4	GANGA - 11	-	-	-	-	-	-	
5	PRO - 311	24.29	14.73	-	-	-	4.69	

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PARBHAT						ZN 2 MEAN
		DELH	LUDH	GURD	KARN	KANP MAIN		
1	F 9572 A	2.82	12.28	38.43	46.63	0.79	21.11	
CHECKS:								
2	BIO - 9681	13.71	1.41	40.44	50.74	2.45	22.32	
3	PARBHAT	-	-	-	-	-	-	
4	GANGA - 11	-	-	-	-	0.87	-	
5	PRO - 311	41.33	16.35	36.80	38.15	-	28.06	

TABLE NO. 17 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE GANGA - 11					ZN 2	
		DELH	LUDH	GURD	KARN	KANP	MAIN	MEAN
1	F 9572 A	10.29	50.54	129.45	47.00	-	-	45.32
CHECKS:								
2	BIO - 9681	21.97	35.97	132.79	51.11	1.56	-	46.78
3	PARBHAT	7.26	34.08	65.75	0.25	-	-	20.00
4	GANGA - 11	-	-	-	-	-	-	-
5	PRO - 311	51.60	56.00	126.75	38.49	-	-	53.67

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PRO - 311					ZN 2	
		DELH	LUDH	GURD	KARN	KANP	MAIN	MEAN
1	F 9572 A	-	-	1.19	6.14	2.34	-	-
CHECKS:								
2	BIO - 9681	-	-	2.66	9.11	4.01	-	-
3	PARBHAT	-	-	-	-	1.53	-	-
4	GANGA - 11	-	-	-	-	2.42	-	-
5	PRO - 311	-	-	-	-	-	-	-

TABLE NO. 17 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING					
		DELH	LUDH	GURD	KARN	DELH	LUDH	GURD	KARN		
1	F 9572 A	50.0	57.3	52.3	52.7	53.0	53.3	59.3	58.3	54.7	56.4
CHECKS:											
2	BIO - 9681	48.3	53.3	48.3	50.3	50.0	50.7	55.3	55.0	52.7	53.4
3	PARBHAT	50.3	55.3	49.5	51.7	51.7	55.0	58.5	55.8	52.7	55.5
4	GANGA - 11	51.0	55.5	51.3	51.7	52.4	54.3	57.8	57.3	53.7	55.8
5	PRO - 311	51.7	56.5	53.5	52.7	53.6	53.3	57.8	59.5	54.7	56.3
MEAN LOCATION											
	C.D. AT 5% =	2.4	1.3	2.4	1.1	1.8	3.6	1.6	2.5	1.6	2.3
	C.V. % =	2.6	1.5	3.1	1.2	-	3.6	1.7	2.9	1.6	-
	F (Prob)	.100	.000	.004	.008	-	.159	.001	.013	.038	-

Sl No	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT EAR ASPECT *			
		LUDH	GURD	KARN	MEAN	LUDH	GURD	KARN	MEAN	DELH	ASP. *	DELH	ASPECT
1	F 9572 A	101.5	83.5	88.0	91.0	23.6	24.5	16.5	21.6	2.4	1.8	2.1	2.0
CHECKS:													
2	BIO - 9681	96.3	83.5	88.3	89.4	23.0	23.2	16.3	20.8	2.5	1.5	2.5	2.0
3	PARBHAT	98.5	83.3	91.3	91.0	24.2	25.1	16.0	21.8	2.6	2.0	2.8	2.4
4	GANGA - 11	99.0	83.0	88.0	90.0	25.0	24.2	15.5	21.6	2.5	2.0	2.8	2.4
5	PRO - 311	96.5	83.0	89.3	89.6	23.0	24.7	15.8	21.2	2.8	1.5	2.8	2.1
MEAN LOCATION													
	C.D. AT 5% =	0.9	1.5	1.1	1.2	0.7	0.7	0.7	0.7	0.5	0.2	0.3	0.3
	C.V. % =	0.6	1.2	0.7	-	1.8	1.9	2.7	-	13.7	7.3	8.7	-
	F (Prob)	.000	.902	.001	-	.000	.001	.050	-	.631	.002	.007	-

TABLE NO. 17 (CONT.)

Sl No	PEDIGREE	HUSK COVER *		UNIF. PLANT HEIGHT (cm)		KARN ZN 2		KARN ZN 2		EAR HEIGHT (cm)				
		DELH	KANP MAIN	DELH	LU DH	DELH	LU DH	DELH	LU DH	DELH	LU DH			
1	F 9572 A	1.8	2.1	1.9	2.3	180	176	248	218	143	193	78	86	124
CHECKS:														
2	BIO - 9681	2.0	2.6	2.3	2.5	245	199	254	232	155	217	103	84	120
3	PARBHAT	2.0	2.6	2.3	2.8	230	205	255	225	153	214	110	108	135
4	GANGA - 11	2.0	2.5	2.3	2.6	220	209	236	217	146	205	100	96	139
5	PRO - 311	1.5	2.9	2.2	2.5	205	183	228	197	146	192	98	99	121
MEAN LOCATION														
		1.9	2.5	2.2	2.5	216	194	244	218	148	204	98	95	128
	C.D. AT 5%	0.2	0.5	0.4	0.5	22.5	9.4	25.0	8.2	15.2	16.1	15.8	8.4	22.6
	C.V. %	6.0	13.9	-	13.3	5.5	3.1	6.6	2.0	6.7	-	8.6	5.8	11.5
	F (Prob)	.002	.108	-	.352	.001	.000	.140	.000	.396	-	.014	.000	.306

Sl No	PEDIGREE	EAR HEIGHT (cm)		EAR No./PLANT		H. SHEATH		STAND AT HARVEST		KARN ZN 2					
		KARN MAIN	KANP ZN 2	DELH	LU DH	GURD	GURD	DELH	LU DH	GURD	KARN MAIN	MEAN			
1	F 9572 A	117	64	94	0.97	0.93	0.91	1.6	2.4	114	117	123	47	98	100
CHECKS:															
2	BIO - 9681	113	68	97	0.97	0.96	0.88	2.4	2.5	114	116	122	53	97	100
3	PARBHAT	138	79	114	1.01	0.94	1.03	2.1	2.3	115	112	117	50	94	98
4	GANGA - 11	105	67	101	0.98	0.96	0.91	2.5	2.5	115	119	119	45	94	98
5	PRO - 311	105	71	99	0.96	0.88	0.82	1.9	2.4	112	116	123	49	95	99
MEAN LOCATION															
		116	70	101	-	-	-	2.1	2.4	114	116	121	49	96	99
	C.D. AT 5%	7.5	15.2	13.9	-	-	-	0.6	0.7	16.9	6.7	4.9	4.2	3.8	7.3
	C.V. %	3.4	14.2	-	-	-	-	17.7	19.5	7.9	3.8	2.7	4.6	2.6	-
	F (Prob)	.000	.328	-	-	-	.034	.934	.996	.410	.089	.017	.149	-	-

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

TABLE NO. 18

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR IN AET 2nd YEAR, TRIAL NO. TR69Z3 DURING KHARIF (20003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		BELI	VARA	DHOL	RANC	JASH	AMBI	R	MEAN	R	MEAN	R	MEAN	R	MEAN
1	P M Z - 234	5820	4286	5904	5219	4874	6433	5423	3	3	3	3	3	3	
2	J K M H - 1090	6392	4403	5880	6405	5317	5498	5649	1	1	1	1	1	1	
3	F - 1562	6436	4401	4056	5740	4945	5968	5258	4	4	4	4	4	4	
CHECKS:															
4	BIO - 9681	5589	5042	5097	4591	5035	6046	5234	5	5	5	5	5	5	
5	PARBHAT	5120	3428	5221	4199	4579	4760	4551	6	6	6	6	6	6	
6	GANGA - 11	4439	2758	5052	4227	4564	5036	4346	7	7	7	7	7	7	
7	PRO - 311	5908	4548	6594	5770	5107	5631	5593	2	2	2	2	2	2	
	MEAN YIELD=	5672	4124	5401	5165	4917	5625	5150							
	MEAN STAND	114	112	120	61	92	97	99							
	C.D. AT 5%	644	232	1232	667	226	830	638							
	C.V. %	7.70	3.81	15.46	8.75	3.11	10.00	-							
	F (Prob)	.000	.000	.007	.000	.000	.000	-							
	PLOT SIZE=	18.00	22.50	22.50	14.00	18.00	22.50	-							
AGRONOMY DATA:															
	SOWING DATE (2003)	1-07	25-06	1-07	3-07	11-07	26-06	-							
	HARVEST DATE (2003)	11-10	20-09	20-10	29-10	31-10	-	-							
	IRRIGATION Nos	-	-	-	1	-	-	-							
	FERTILIZER APPLIED N	120	120	100	100	120	100	-							
	P	60	60	60	60	60	60	-							
	K	60	40	40	40	60	40	-							

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : KUSH 30.2%

TABLE NO. 18 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681							ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI		
1	P M Z - 234	4.12	-	15.84	13.67	-	6.39	3.61	
2	J K M H - 1090	14.36	-	15.36	39.50	5.59	-	7.94	
3	F - 1562	15.15	-	-	25.02	-	-	0.46	
CHECKS:									
4	BIO - 9681	-	-	-	-	-	-	-	
5	PARBHAT	-	-	2.44	-	-	-	-	
6	GANGA - 11	-	-	-	-	-	-	-	
7	PRO - 311	5.70	-	29.36	25.67	1.42	-	6.86	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PARBHAT							ZN 3 MEAN
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI		
1	P M Z - 234	13.66	25.02	13.08	24.29	6.43	35.14	19.14	
2	J K M H - 1090	24.84	28.44	12.61	52.54	16.10	15.52	24.12	
3	F - 1562	25.70	28.39	-	36.71	7.97	25.38	15.52	
CHECKS:									
4	BIO - 9681	9.16	47.08	-	9.34	9.95	27.03	14.99	
5	PARBHAT	-	-	-	-	-	-	-	
6	GANGA - 11	-	-	-	0.67	-	5.81	-	
7	PRO - 311	15.38	32.67	26.28	37.42	11.51	18.29	22.88	

TABLE NO. 18 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED						ZIN 3 MEAN
	GORA BELI	VARA	DHOL	RANC	JASH	AMBI	
1 P M Z - 234	54.8	49.8	54.0	53.5	50.5	51.3	52.3
2 J K M H - 1090	54.8	50.5	55.3	55.3	50.8	52.3	53.1
3 F - 1562	56.3	50.8	54.3	56.3	53.3	53.8	54.1
CHECKS:							
4 BIO - 9681	52.3	49.3	52.3	52.3	48.3	49.0	50.5
5 PARBHAT	54.0	51.0	54.5	55.0	51.5	52.5	53.1
6 GANGA - 11	54.5	50.5	55.0	56.0	52.3	52.0	53.4
7 PRO - 311	55.5	51.0	55.5	55.3	53.0	52.5	53.8
MEAN LOCATION	54.6	50.4	54.4	54.8	51.4	51.9	52.9
C.D. AT 5% =	1.4	1.6	1.4	1.3	1.5	1.1	1.4
C.V. % =	1.7	2.2	1.7	1.7	2.0	1.5	-
F (Prob)	.001	.244	.002	.000	.000	.000	-

S1 NO PEDIGREE	DAYS TO 50% SILKING						ZIN 3 MEAN
	GORA BELI	VARA	DHOL	RANC	JASH	AMBI	
1 P M Z - 234	56.8	53.5	56.3	59.0	54.0	55.3	55.8
2 J K M H - 1090	56.5	53.8	57.5	58.8	53.8	56.5	56.1
3 F - 1562	58.5	54.8	56.8	59.5	56.3	57.8	57.3
CHECKS:							
4 BIO - 9681	54.5	52.5	55.0	56.0	51.5	52.8	53.7
5 PARBHAT	56.5	55.5	57.5	58.5	55.3	56.3	56.6
6 GANGA - 11	57.3	55.3	58.0	59.0	55.8	56.3	56.9
7 PRO - 311	57.0	54.5	57.5	57.8	56.0	56.5	56.5
MEAN LOCATION	56.7	54.3	56.9	58.4	54.6	55.9	56.1
C.D. AT 5% =	1.6	1.8	1.3	1.3	1.9	1.5	1.6
C.V. % =	1.9	2.2	1.5	1.5	2.4	1.9	-
F (Prob)	.004	.029	.002	.000	.001	.000	-

TABLE NO. 18 (CONT.)

SI	NO PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE & AT HARVEST						
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	RANC	JASH	ZN 3 MEAN
1	P M Z - 234	90.3	84.5	82.0	97.3	94.0	91.0	89.8	25.0	40.1	25.2	20.9	27.8
2	J K M H - 1090	89.5	82.0	83.8	98.0	93.0	89.5	89.3	25.4	41.5	28.1	21.3	29.1
3	F - 1562	90.0	84.0	80.3	95.3	95.8	92.0	89.5	25.9	41.3	27.1	22.3	29.2
CHECKS:													
4	BIO - 9681	85.0	81.3	79.5	96.8	88.8	87.8	86.5	25.0	36.2	26.1	21.5	27.2
5	PARBHAT	88.0	85.5	82.0	98.8	92.0	89.5	89.3	24.6	35.8	30.5	20.4	27.8
6	GANGA - 11	89.5	84.8	86.8	97.8	93.3	90.5	90.4	24.6	39.1	26.5	20.3	27.6
7	PRO - 311	86.8	82.3	80.0	96.3	92.8	89.3	87.9	26.0	41.8	26.5	21.3	28.9
MEAN LOCATION													
	C.D. AT 5% =	1.7	1.9	4.9	2.1	1.8	2.8	2.5	1.9	0.3	2.5	0.4	1.3
	C.V. % =	1.3	1.5	4.0	1.5	1.3	2.1	-	5.1	0.4	6.2	1.2	-
	F (Prob)	.000	.001	.074	.048	.000	.102	-	.568	.000	.008	.000	-

SI	NO PEDIGREE	PLANT ASPECT *					EAR ASPECT *						
		GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN
1	P M Z - 234	2.0	1.5	3.1	1.3	2.4	2.1	2.1	2.0	2.5	2.0	2.3	2.2
2	J K M H - 1090	2.1	1.3	1.8	1.0	2.5	1.7	1.9	1.5	1.9	1.3	2.4	1.8
3	F - 1562	2.1	1.5	3.3	1.5	2.4	2.2	1.6	2.0	2.6	2.0	2.3	2.1
CHECKS:													
4	BIO - 9681	2.4	1.5	2.4	2.0	2.4	2.1	2.3	2.0	2.8	2.5	2.5	2.4
5	PARBHAT	2.6	2.3	3.3	2.0	2.5	2.5	2.0	2.0	2.5	2.8	2.4	2.3
6	GANGA - 11	2.9	1.5	2.8	2.0	2.3	2.3	2.9	1.8	3.0	3.5	2.3	2.7
7	PRO - 311	2.5	2.0	2.3	2.0	2.3	2.2	2.3	1.5	2.0	2.8	2.3	2.2
MEAN LOCATION													
	C.D. AT 5% =	0.5	0.1	0.8	0.4	0.3	0.4	0.4	0.1	0.9	0.7	0.3	0.5
	C.V. % =	14.7	6.1	20.0	18.0	7.4	-	12.3	4.2	24.4	19.3	9.6	-
	F (Prob)	.024	.000	.005	.000	.649	-	.000	.000	.163	.000	.956	-

TABLE NO. 18 (CONT.)

SI	NO PEDIGREE	HUSK COVER *					UNIFORMITY *					
		GORA BELI	VARA	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN
1	P M Z - 234	1.8	1.5	1.5	2.3	1.8	1.9	1.3	3.0	2.0	2.4	2.1
2	J K M H - 1090	1.8	1.5	1.3	2.5	1.7	2.1	1.0	2.0	2.0	2.6	1.9
3	F - 1562	2.0	1.5	1.3	2.4	1.8	1.9	1.3	3.1	2.0	2.5	2.1
	CHECKS:											
4	BIO - 9681	2.0	1.5	1.0	2.5	1.7	2.3	1.8	2.9	2.3	2.4	2.3
5	PARBHAT	2.0	2.0	2.0	2.3	2.1	2.6	2.0	3.5	3.0	2.5	2.7
6	GANGA - 11	2.0	2.0	2.3	2.4	2.2	3.0	2.0	3.3	2.8	2.3	2.7
7	PRO - 311	1.6	1.3	1.0	2.5	1.6	2.4	1.5	2.3	1.3	2.4	2.0
	MEAN LOCATION	1.9	1.6	1.5	2.4	1.8	2.3	1.5	2.9	2.2	2.4	2.3
	C.D. AT 5% =	0.6	0.1	0.6	0.3	0.4	0.4	0.2	0.5	0.5	0.3	0.4
	C.V. % =	21.8	4.8	25.8	9.5	-	12.3	9.2	12.3	15.8	8.3	-
	F (Prob)	.711	.000	.001	.960	-	.000	.000	.000	.000	.333	-

		PLANT HEIGHT (cm)										
		GORA BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN				
SI	NO PEDIGREE	BELI	VARA	DHOL	RANC	JASH	AMBI	ZN 3 MEAN				
1	P M Z - 234	186	257	193	173	167	241	203				
2	J K M H - 1090	182	226	171	171	153	211	186				
3	F - 1562	191	229	182	172	168	229	195				
	CHECKS:											
4	BIO - 9681	199	263	186	182	166	230	204				
5	PARBHAT	206	280	197	178	180	223	211				
6	GANGA - 11	181	270	188	180	166	224	201				
7	PRO - 311	174	251	166	171	152	222	189				
	MEAN LOCATION	188	254	183	175	164	225	198				
	C.D. AT 5% =	19.6	6.8	16.0	5.2	7.7	16.1	11.9				
	C.V. % =	7.0	1.8	5.9	2.0	3.2	4.8	-				
	F (Prob)	.038	.000	.006	.001	.000	.038	-				

TABLE NO. 18 (CONT.)

SI NO PEDIGREE	EAR HEIGHT (cm)										EAR NO. / PLANT								
	GORA					ZIN 3					GORA								
	BELI	VARA	DHOL	RANC	JASH	AMBI	MEAN	BELI	VARA	RANC	JASH	AMBI	MEAN	BELI	VARA	RANC	JASH	AMBI	MEAN
1 P M Z - 234	98	120	98	79	76	97	95	0.98	0.98	1.03	95	1.04	1.01	0.98	0.98	1.03	95	1.04	1.01
2 J K M H - 1090	94	95	83	81	70	79	84	0.99	0.93	1.07	84	1.06	1.01	0.99	0.93	1.07	84	1.06	1.01
3 F - 1562	97	97	93	81	69	92	88	0.97	0.95	1.02	88	1.10	1.01	0.97	0.95	1.02	88	1.10	1.01
CHECKS:																			
4 BIO - 9681	85	100	87	78	67	84	83	0.97	0.93	1.03	83	1.05	1.00	0.97	0.93	1.03	83	1.05	1.00
5 PARBHAT	100	136	101	80	77	84	96	0.98	0.86	1.01	96	1.11	0.99	0.98	0.86	1.01	96	1.11	0.99
6 GANGA - 11	86	105	98	83	71	87	88	0.97	0.92	1.11	88	1.08	1.02	0.97	0.92	1.11	88	1.08	1.02
7 PRO - 311	108	116	95	84	73	93	95	0.98	0.92	1.03	95	1.05	1.00	0.98	0.92	1.03	95	1.05	1.00
MEAN LOCATION																			
C.D. AT 5% =	13.1	4.4	12.3	4.6	6.1	8.2	8.1	-	-	-	8.1	-	-	-	-	-	-	-	-
C.V. % =	9.2	2.7	8.9	3.8	5.7	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-
F (Prob)	.025	.000	.060	.173	.024	.003	-	-	-	-	-	-	-	-	-	-	-	-	-

H. may. * STAND AT HARVEST

SI NO PEDIGREE	GORA					ZIN 3							
	GORA					GORA							
	BELI	VARA	DHOL	RANC	JASH	AMBI	MEAN	BELI	VARA	RANC	JASH	AMBI	MEAN
1 P M Z - 234	1.5	118	118	118	120	64	97	103	103	103	97	103	103
2 J K M H - 1090	1.0	114	114	109	120	61	93	100	99	99	93	100	99
3 F - 1562	1.0	117	117	114	120	62	92	99	101	101	92	99	101
CHECKS:													
4 BIO - 9681	1.1	119	119	109	120	64	97	110	103	103	97	110	103
5 PARBHAT	1.1	116	116	110	120	54	88	86	95	95	88	86	95
6 GANGA - 11	2.3	104	104	115	120	57	84	89	95	95	84	89	95
7 PRO - 311	1.3	114	114	109	120	66	98	94	100	100	98	94	100
MEAN LOCATION													
C.D. AT 5% =	0.5	5.7	5.7	9.1	0.4	6.1	6.1	14.7	7.0	7.0	6.1	14.7	7.0
C.V. % =	23.2	3.3	3.3	5.5	0.2	6.7	4.4	10.2	-	-	4.4	10.2	-
F (Prob)	.000	.001	.001	.252	.590	.007	.001	.039	-	-	.001	.039	-

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

TABLE NO. 19

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR IN AET 2nd YEAR, TRIAL No. TR69Z4 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4		
		HYDE	R	KARI	R	ARBH	R	MAND	R	COIM	R	KOLH	R	MEAN	R	
1	B I O - 92327	3181	3	7043	1	6635	3	8232	2	4365	1	9297	2	6459	1	
CHECKS:																
2	BIO - 9681	2918	5	6516	3	6927	2	8462	1	3368	2	9525	1	6286	2	
3	PARBHAT	3188	2	4203	5	6315	4	7812	4	2838	4	6885	4	5207	4	
4	GANGA - 11	3090	4	4559	4	6257	5	5948	5	3284	3	6817	5	4992	5	
5	PRO - 311	4166	1	7025	2	7134	1	8065	3	2551	5	8731	3	6279	3	
	MEAN YIELD=	3309		5869		6654		7704		3281		8251		5845		
	MEAN STAND	123		113		120		86		70		130		107		
	C.D. AT 5%	509		615		827		1115		774		1032		812		
	C.V. %	10.14		6.91		8.19		7.84		15.55		6.77		-		
	F (Prob)	.000		.000		.042		.001		.000		.000		-		
	PLOT SIZE=	22.50		18.00		22.50		17.50		14.60		22.50		-		
AGRONOMY DATA:																
	SOWING DATE(2003)	9-07		17-07		9-07		3-08		3-07		9-07		-		
	HARVEST DATE(2003)	1-11		28-10		4-11		6-12		4-11		3-11		-		
	IRRIGATION Nos	3		1		8		8		8		-		-		
	FERTILIZER APPLIED N	120		150		150		150		135		120		-		
	P	60		60		75		75		63		60		-		
	K	40		20		38		40		50		40		-		

TABLE NO. 19 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED						ZN 4 MEAN
	HYDE	KARI	ARBH	MAND	COIM	KOLH	
1 B I O - 92327	57.3	43.8	60.0	47.3	57.0	57.7	53.8
CHECKS:							
2 BIO - 9681	55.8	45.0	60.5	47.0	55.0	57.7	53.5
3 PARBHAT	57.3	47.5	61.0	47.7	58.5	58.7	55.1
4 GANGA - 11	57.0	48.3	63.0	49.3	58.5	57.7	55.6
5 PRO - 311	54.8	47.5	61.5	51.0	58.8	58.0	55.3
MEAN LOCATION	56.4	46.4	61.2	48.5	57.5	57.9	54.7
C.D. AT 5% =	1.2	1.5	1.8	0.9	0.8	1.4	1.3
C.V. % =	1.4	2.0	1.9	1.0	0.9	1.2	-
F (Prob)	.003	.000	.026	.000	.000	.420	-

S1 NO PEDIGREE	DAYS TO 50% SILKING						ZN 4 MEAN
	HYDE	KARI	ARBH	MAND	COIM	KOLH	
1 B I O - 92327	59.8	46.5	60.8	49.7	60.3	59.3	56.0
CHECKS:							
2 BIO - 9681	57.8	47.8	60.5	48.7	57.5	58.0	55.0
3 PARBHAT	59.3	49.8	63.5	50.7	62.5	60.3	57.7
4 GANGA - 11	59.3	51.0	64.5	52.0	62.3	59.3	58.1
5 PRO - 311	57.0	49.5	61.5	52.3	60.3	59.3	56.7
MEAN LOCATION	58.6	48.9	62.2	50.7	60.5	59.3	56.7
C.D. AT 5% =	1.6	1.9	1.9	2.3	0.9	1.4	1.7
C.V. % =	1.7	2.6	2.0	2.4	1.0	1.2	-
F (Prob)	.012	.002	.002	.030	.000	.045	-

TABLE NO. 19 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST						
		HYDE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	HYDE	ARBH	MAND	KOLH	ZN 4 MEAN	
1	B I O - 92327	92.8	87.0	90.0	104.3	86.7	92.1	25.1	23.6	19.9	17.4	21.5	
CHECKS:													
2	BIO - 9681	91.3	86.8	90.0	101.5	84.3	90.8	20.4	20.4	19.1	17.2	19.3	
3	PARBHAT	92.3	88.8	89.7	105.5	87.3	92.7	18.9	23.4	20.0	15.5	19.4	
4	GANGA - 11	91.0	89.5	93.0	106.3	86.0	93.2	23.8	23.3	20.5	16.5	21.0	
5	PRO - 311	90.3	88.3	90.3	104.3	85.3	91.7	19.8	22.6	19.0	18.0	19.9	
MEAN LOCATION													
	C.D. AT 5% =	2.4	2.9	3.2	0.9	1.4	2.2	1.6	1.4	2.8	1.5	1.8	
	C.V. % =	1.7	2.2	1.9	0.6	0.8	-	4.9	4.1	7.4	4.6	-	
	F (Prob)	.211	.264	.208	.000	.007	-	.000	.002	.688	.032	-	

Sl NO	PEDIGREE	PLANT ASPECT *					EAR ASPECT *						
		HYDE	KARI	ARBH	MAND	KOLH	ZN 4 MEAN	HYDE	KARI	ARBH	MAND	KOLH	ZN 4 MEAN
1	B I O - 92327	2.4	2.3	2.0	2.3	1.7	2.1	2.6	2.5	2.0	2.0	1.5	2.1
CHECKS:													
2	BIO - 9681	2.3	2.5	2.5	2.0	1.8	2.2	2.6	2.3	2.5	2.0	1.5	2.2
3	PARBHAT	3.4	2.0	2.8	2.3	2.3	2.6	3.0	1.8	2.5	2.0	1.8	2.2
4	GANGA - 11	3.4	2.5	2.8	2.0	2.0	2.5	3.0	1.8	2.5	2.0	2.0	2.3
5	PRO - 311	2.3	2.0	2.3	3.0	1.8	2.3	2.6	1.3	2.3	2.3	1.5	2.0
MEAN LOCATION													
	C.D. AT 5% =	0.5	0.8	0.4	0.7	0.4	0.5	0.4	1.2	0.1	1.0	0.4	0.6
	C.V. % =	10.7	22.2	9.5	16.6	12.0	-	10.0	40.2	3.9	25.0	14.0	-
	F (Prob)	.000	.445	.002	.069	.060	-	.132	.231	.000	.902	.082	-

TABLE NO. 19 (CONT.)

S1 NO PEDIGREE	EAR NO. / PLANT						H.turc.	
	HYDE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	KOLH	* KOLH
1 B I O - 92327	1.01	0.95	0.97	1.02	0.92	0.97	1.8	
CHECKS:								
2 BIO - 9681	1.01	0.91	1.01	1.02	0.98	0.98	2.0	
3 PARBHAT	1.00	0.95	1.01	1.02	0.94	0.98	2.2	
4 GANGA - 11	1.00	0.98	1.02	1.03	0.88	0.98	2.3	
5 PRO - 311	0.96	0.95	1.01	1.04	0.96	0.98	2.0	
MEAN LOCATION	-	-	-	-	-	-	2.1	
C.D. AT 5% =	-	-	-	-	-	-	0.5	
C.V. % =	-	-	-	-	-	-	11.7	
F (Prob)	-	-	-	-	-	-	.212	

S1 NO PEDIGREE	STAND AT HARVEST						ZN4	
	HYDE	KARI	ARBH	MAND	COIM	KOLH	KOLH	MEAN
1 B I O - 92327	129	114	124	84	79	133	110	
CHECKS:								
2 BIO - 9681	137	115	123	85	79	139	113	
3 PARBHAT	100	115	109	93	62	127	101	
4 GANGA - 11	117	104	115	90	51	133	101	
5 PRO - 311	134	116	128	80	79	120	109	
MEAN LOCATION	123	113	120	86	70	130	107	
C.D. AT 5% =	6.3	16.8	15.4	15.2	5.5	22.7	-	
C.V. % =	3.3	9.7	8.4	9.3	5.1	9.3	-	
F (Prob)	.000	.508	.121	.412	.000	.413		

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

TABLE NO. 20

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT UDAIPUR, KHEDBRAMHA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR69Z5 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681			ZN 5 MEAN		
		UDAI	R	KHED	R	CHHI	R	ZN 5 MEAN	R	UDAI		KHED	CHHI
1	B I O - 92327	5970	3	6085	7	10029	4	7361	5	10.66	-	2.73	-
2	BISCO - 851	5966	4	6154	6	10857	3	7659	3	10.59	-	11.21	3.27
3	N E C H - 110	7273	1	4762	8	11038	1	7691	2	34.81	-	13.08	3.70
4	X - 2006	7136	2	6228	5	10899	2	8088	1	32.28	-	11.65	9.05
CHECKS:													
5	BIO - 9681	5395	6	7093	1	9762	6	7417	4	-	-	-	-
6	PARBHAT	3903	7	6648	2	7730	7	6094	7	-	-	-	-
7	GANGA - 11	3019	8	6490	3	6707	8	5405	8	-	-	-	-
8	PRO - 311	5697	5	6474	4	9767	5	7312	6	5.60	-	0.05	-
MEAN YIELD=		5545		6242		9599		7128					
MEAN STAND		109		134		110		118					
C.D. AT 5%=		457		712		998		722					
C.V. % =		5.63		7.80		7.11		-					
F (Prob)		.000		.000		.000		-					
PLOT SIZE=		18.00		18.00		16.80		-					
AGRONOMY DATA:													
SOWING DATE(2003)		3-07		9-07		26-06		-					
HARVEST DATE(2003)		14-10		11-10		28-10		-					
IRRIGATION Nos		-		-		-		-					
FERTILIZER APPLIED N		120		100		120		-					
P		60		50		60		-					
K		-		-		40		-					

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BANS 20.3% : GODH 30.1% : DAHO 37.5%

TABLE NO. 20 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD %		SUPERIORITY OVER THE		GANGA - 11		ZN 5 MEAN	
		PARBHAT UDAI	KHED	CHHI	ZN 5 MEAN	UDAI	KHED		CHHI
1	B I O - 92327	52.94	-	29.74	20.80	97.72	-	49.53	36.18
2	BISCO - 851	52.84	-	40.44	25.68	97.59	-	61.87	41.69
3	N E C H - 110	86.32	-	42.80	26.21	140.88	-	64.58	42.29
4	X - 2006	82.82	-	41.00	32.72	136.34	-	62.51	49.62
CHECKS:									
5	BIO - 9681	38.21	6.70	26.28	21.71	78.67	9.30	45.55	37.21
6	PARBHAT	-	-	-	-	29.28	2.43	15.26	12.73
7	GANGA - 11	-	-	-	-	-	-	-	-
8	PRO - 311	45.94	-	26.35	20.00	88.67	-	45.62	35.28

Sl NO	PEDIGREE	GRAIN YIELD %		SUPERIORITY OVER THE		DAYS TO 50% POLLEN SHED		ZN 5 MEAN	
		UDAI	KHED	CHHI	ZN 5 MEAN	UDAI	KHED		CHHI
1	B I O - 92327	4.80	-	2.68	0.67	54.3	47.3	53.5	51.7
2	BISCO - 851	4.73	-	11.16	4.74	56.0	51.0	55.5	54.2
3	N E C H - 110	27.67	-	13.02	5.18	56.0	51.0	57.5	54.8
4	X - 2006	25.27	-	11.60	10.60	55.3	50.0	55.5	53.6
CHECKS:									
5	BIO - 9681	-	9.57	-	1.42	53.8	47.3	53.3	51.4
6	PARBHAT	-	2.68	-	-	55.5	49.5	56.5	53.8
7	GANGA - 11	-	0.25	-	-	54.8	49.8	57.5	54.0
8	PRO - 311	-	-	-	-	54.5	50.8	56.3	53.8
MEAN LOCATION									
C.D. AT 5%		-	-	-	-	0.8	3.3	2.9	2.3
C.V. †		-	-	-	-	1.0	4.5	3.5	-
F (Prob)		-	-	-	-	.000	.122	.034	-

TABLE NO. 20 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST					
		UDAI	KHED	CHHI	UDAI	KHED	CHHI	UDAI	KHED	CHHI	UDAI	KHED	CHHI
1	B I O - 92327	56.5	51.5	54.3	54.1	87.5	81.0	92.8	87.1	14.2	15.5	13.8	14.5
2	BISCO - 851	58.0	55.0	55.5	56.2	90.3	84.0	96.8	90.3	14.0	16.1	15.1	15.1
3	N E C H - 110	58.0	56.0	57.5	57.2	92.8	83.0	97.3	91.0	13.4	16.0	16.7	15.4
4	X - 2006	57.3	54.3	57.8	56.4	90.0	82.5	92.0	88.2	12.9	15.5	16.1	14.9
CHECKS:													
5	BIO - 9681	55.8	50.5	54.0	53.4	88.3	79.5	92.0	86.6	11.0	15.3	14.5	13.6
6	PARBHAT	57.5	55.8	58.3	57.2	90.5	83.0	96.3	89.9	13.3	15.9	16.5	15.2
7	GANGA - 11	57.0	56.8	60.3	58.0	88.8	83.0	97.0	89.6	13.3	15.9	16.5	15.2
8	PRO - 311	56.5	54.5	56.3	55.8	89.8	82.8	92.5	88.3	13.6	14.5	17.1	15.1
MEAN LOCATION													
	C.D. AT 5% =	0.6	2.1	2.8	1.9	0.6	2.0	1.7	1.4	0.6	0.5	0.7	0.6
	C.V. % =	0.8	2.7	3.4	-	0.4	1.7	1.2	-	3.0	2.3	3.1	-
	F (Prob)	.000	.000	.002	-	.000	.005	.000	-	.000	.000	.000	-
Sl NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
		UDAI	KHED	CHHI	UDAI	KHED	CHHI	UDAI	KHED	CHHI	UDAI	KHED	CHHI
1	B I O - 92327	2.4	1.5	1.9	2.0	1.0	1.5	2.6	1.5	2.1	2.8	1.8	2.3
2	BISCO - 851	2.3	1.5	1.9	1.9	1.3	1.6	2.3	1.5	1.9	2.5	1.5	2.0
3	N E C H - 110	1.9	1.5	1.7	1.7	1.3	1.5	1.9	1.5	1.7	2.3	2.0	2.1
4	X - 2006	2.1	1.0	1.6	1.8	1.0	1.4	2.3	2.0	2.1	2.4	2.3	2.3
CHECKS:													
5	BIO - 9681	2.4	1.3	1.8	2.1	1.3	1.7	2.1	1.5	1.8	2.4	1.3	1.8
6	PARBHAT	2.5	1.8	2.1	2.5	1.3	1.9	2.8	1.3	2.0	2.8	1.8	2.3
7	GANGA - 11	2.5	1.8	2.1	2.6	1.8	2.2	2.5	1.8	2.1	2.9	1.8	2.3
8	PRO - 311	2.5	1.8	2.1	2.1	1.0	1.6	2.3	1.0	1.6	2.4	1.8	2.1
MEAN LOCATION													
	C.D. AT 5% =	0.5	0.9	0.7	0.6	0.6	0.6	0.4	0.8	0.6	0.4	1.1	0.7
	C.V. % =	14.3	41.8	-	18.6	31.8	-	13.0	36.4	-	11.9	40.9	-
	F (Prob)	.144	.651	-	.023	.181	-	.012	.345	-	.065	.674	-

TABLE NO. 20 (CONT.)

Sl NO PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 5 MEAN
	UDAI	KHED	CHHI	ZN 5 MEAN	UDAI	KHED	CHHI	ZN 5 MEAN	
1 B I O - 92327	195	201	215	204	93	91	103	95	
2 BISCO - 851	188	192	194	191	90	97	99	95	
3 N E C H - 110	198	196	213	202	95	100	114	103	
4 X - 2006	178	203	210	197	73	105	88	88	
CHECKS:									
5 B I O - 9681	200	201	214	205	88	96	91	92	
6 PARBHAT	170	195	210	192	90	96	101	96	
7 GANGA - 11	201	195	209	202	105	89	104	99	
8 PRO - 311	195	200	195	197	100	92	99	97	
MEAN LOCATION	190	198	207	199	92	96	100	96	
C.D. AT 5%	11.0	15.5	12.2	12.9	8.5	12.9	11.8	11.1	
C.V. %	3.9	5.3	4.0	-	6.3	9.2	8.1	-	
F (Prob)	.000	.814	.006	-	.000	.264	.007	-	

Sl NO PEDIGREE	EAR NO. / PLANT				STAND AT HARVEST				ZN 5 OV'L MEAN
	UDAI	KHED	CHHI	ZN 5 MEAN	UDAI	KHED	CHHI	ZN 5 MEAN	
1 B I O - 92327	0.99	0.97	0.96	0.98	106	134	120	120	120
2 BISCO - 851	0.96	0.98	0.93	0.96	117	132	110	120	120
3 N E C H - 110	0.98	0.97	1.02	0.99	117	136	112	121	121
4 X - 2006	0.97	0.97	0.94	0.96	111	134	117	121	121
CHECKS:									
5 B I O - 9681	0.97	0.98	0.96	0.97	109	136	110	118	118
6 PARBHAT	0.97	0.96	0.95	0.96	107	136	96	113	113
7 GANGA - 11	0.98	0.97	0.95	0.97	107	138	103	116	116
8 PRO - 311	0.99	0.96	0.96	0.97	100	129	115	115	115
MEAN LOCATION	-	-	-	-	109	134	110	118	118
C.D. AT 5%	-	-	-	-	4.6	8.0	12.5	8.4	-
C.V. %	-	-	-	-	2.9	4.0	7.7	-	-
F (Prob)	-	-	-	-	.000	.417	.015	-	-

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

TABLE NO. 21

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT POONCH, ALMORA, BAJAURA, KANGRA, IN AET 2nd YEAR, ZONE 1, TRIAL NO. TR70Z1 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 1		
		POON	R	ALMO	R	BAJA	R	KANG	R	MEAN	R	MEAN	R			
1	BISCO - 3123	5792	5	9678	1	5684	1	3787	5	6235	2					
2	A M H - 204	7372	1	6131	5	5097	3	3369	6	5492	5					
3	N E C H - 113	6214	2	8345	4	4079	5	4057	2	5674	4					
4	X - 2003	6198	3	8885	2	5427	2	4618	1	6282	1					
CHECKS:																
5	NAVJOT	5336	6	6024	6	3906	6	3794	4	4765	6					
6	K H - 510	6051	4	8425	3	4701	4	4042	3	5805	3					
	MEAN YIELD=	6160		7915		4816		3945		5709						
	MEAN STAND	85		89		88		60		80						
	C.D. AT 5%=	893		1195		840		675		901						
	C.V. %	9.71		10.12		9.71		11.46		-						
	F (Prob)	.002		.001		.000		.007		-						
	PLOT SIZE=	18.00		14.70		14.40		14.40		-						
AGRONOMY DATA:																
	SOWING DATE(2003)	23-06		7-07		19-06		21-06		-						
	HARVEST DATE(2003)	17-10		8-11		14-10		25-09		-						
	IRRIGATION NOS	-		-		1		-		-						
	FERTILIZER APPLIED N	60		100		90		80		-						
	P	40		60		45		60		-						
	K	20		40		30		40		-						

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : UMIA 26.7%

TABLE NO. 21 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT					ZN 1 MEAN
		POON	ALMO	BAJA	KANG		
1	BISCO - 3123	8.54	60.66	45.51	-	-	30.85
2	A M H - 204	38.14	1.78	30.48	-	-	15.25
3	N E C H - 113	16.45	38.53	4.42	6.93		19.07
4	X - 2003	16.15	47.49	38.93	21.70		31.83
CHECKS:							
5	NAVJOT	-	-	-	-	-	-
6	K H - 510	13.39	39.86	20.36	6.53		21.82

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE K H - 510					ZN 1 MEAN
		POON	ALMO	BAJA	KANG		
1	BISCO - 3123	-	14.87	20.89	-	-	7.41
2	A M H - 204	21.83	-	8.41	-	-	-
3	N E C H - 113	2.70	-	-	0.37		-
4	X - 2003	2.43	5.46	15.43	14.23		8.21
CHECKS:							
5	NAVJOT	-	-	-	-	-	-
6	K H - 510	-	-	-	-	-	-

TABLE NO. 21 (CONT.)

S1 No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING					
		POON	ALMO	BAJA	KANG	POON	ALMO	BAJA	KANG		
									ZN 1 MEAN		
1	BISCO - 3123	68.0	62.0	74.0	51.5	63.9	71.0	64.0	77.0	55.3	66.8
2	A A M H - 204	66.5	63.0	70.0	52.0	62.9	69.3	65.0	73.7	56.3	66.0
3	N E C H - 113	66.3	59.3	71.0	51.3	61.9	68.8	60.3	73.7	55.0	64.4
4	X - 2003	67.0	56.8	69.7	52.0	61.4	70.0	58.0	73.7	56.0	64.4
	CHECKS:										
5	NAVJOT	65.8	56.3	66.3	49.5	59.5	68.3	57.3	71.3	53.8	62.6
6	K H - 510	66.5	59.3	69.3	53.0	62.0	69.0	60.3	73.0	57.0	64.8
	MEAN LOCATION	66.7	59.4	70.1	51.5	61.9	69.4	60.8	73.7	55.5	64.9
	C.D. AT 5%	1.2	1.3	2.9	1.4	1.7	1.2	1.3	2.4	1.9	1.7
	C.V. %	1.2	1.5	2.2	1.8	-	1.1	1.4	1.8	2.2	-
	F (Prob)	.021	.000	.004	.002	-	.002	.000	.008	.030	-

S1 No	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				
		POON	ALMO	BAJA	KANG	ALMO	BAJA	KANG	MEAN	
									ZN 1 MEAN	
1	BISCO - 3123	106.0	110.8	110.0	91.8	104.6	33.9	24.0	27.5	28.5
2	A A M H - 204	104.3	110.5	108.7	90.5	103.5	41.2	25.1	28.5	31.6
3	N E C H - 113	103.5	102.8	110.7	86.3	100.8	32.2	24.0	29.8	28.7
4	X - 2003	104.8	102.3	106.7	87.0	100.2	33.8	25.1	28.6	29.2
	CHECKS:									
5	NAVJOT	103.3	99.8	106.0	88.3	99.3	30.6	21.8	29.4	27.3
6	K H - 510	105.0	102.0	107.7	88.3	100.7	32.5	21.2	27.0	26.9
	MEAN LOCATION	104.5	104.7	108.3	88.7	101.5	34.0	23.6	28.4	28.7
	C.D. AT 5%	1.2	1.3	2.6	0.6	1.4	1.8	1.4	4.0	2.4
	C.V. %	0.8	0.8	1.3	0.4	-	3.5	3.2	9.3	-
	F (Prob)	.003	.000	.014	.000	-	.000	.000	.674	-

TABLE NO. 21 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *				EAR ASPECT *				ZN 1 MEAN
	POON	ALMO	BAJA	KANG	POON	ALMO	BAJA	KANG	
1 BISCO - 3123	2.0	2.7	2.2	2.3	2.0	2.3	2.2	2.8	2.3
2 A A M H - 204	1.8	2.5	2.3	2.0	1.3	2.7	2.2	2.3	2.1
3 N E C H - 113	2.0	2.5	2.7	2.5	1.8	2.3	2.5	2.0	2.1
4 X - 2003	2.0	2.5	2.7	2.3	2.0	2.5	2.0	2.5	2.2
CHECKS:									
5 NAVJOT	2.3	2.8	2.7	2.8	2.0	2.5	2.7	2.5	2.4
6 K H - 510	2.0	2.5	2.7	2.3	1.8	2.5	2.3	2.3	2.2
MEAN LOCATION									
C.D. AT 5%	0.5	0.1	0.6	0.7	0.7	0.2	0.4	0.8	0.5
C.V. %	15.8	2.7	13.8	19.2	26.8	4.7	10.2	22.1	-
F (Prob)	.451	.000	.374	.303	.254	.002	.053	.451	-

S1 NO PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 1 MEAN
	POON	ALMO	BAJA	KANG	POON	ALMO	BAJA	KANG	
1 BISCO - 3123	1.0	1.9	2.0	2.0	2.0	2.9	2.3	2.4	2.4
2 A A M H - 204	1.5	2.5	2.2	2.3	2.0	3.0	1.7	2.2	2.2
3 N E C H - 113	1.8	2.3	2.0	3.3	2.0	2.8	2.7	2.5	2.5
4 X - 2003	1.0	1.9	2.0	2.3	2.0	2.7	2.7	2.4	2.4
CHECKS:									
5 NAVJOT	1.3	2.3	2.2	3.0	2.0	2.9	3.0	2.6	2.6
6 K H - 510	1.3	2.1	2.0	2.5	2.3	2.8	2.5	2.5	2.5
MEAN LOCATION									
C.D. AT 5%	0.6	0.2	0.3	1.0	0.3	0.2	0.5	0.3	0.3
C.V. %	31.3	6.2	8.5	25.8	10.0	4.8	10.2	-	-
F (Prob)	.124	.000	.619	.110	.451	.038	.001	-	-

TABLE NO. 21 (CONT.)

S1 NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				EAR No. / PLANT			
		ALMO	BAJA	KANG	MEAN	POON	ALMO	BAJA	KANG	MEAN	POON	ALMO	KANG
1	BISCO - 3123	185	165	230	209	92	142	71	119	106	1.19	0.99	1.00
2	A A M H - 204	187	160	246	213	82	137	66	125	102	1.07	0.98	0.95
3	N E C H - 113	179	152	234	204	80	138	62	118	99	1.13	1.00	0.99
4	X - 2003	186	151	238	203	82	127	65	115	97	1.12	0.99	1.00
CHECKS:													
5	NAVJOT	168	172	244	205	77	122	72	119	98	1.14	0.98	0.96
6	K H - 510	174	144	235	202	80	139	55	112	96	1.24	1.01	0.98
MEAN LOCATION													
	C.D. AT 5%	0.0	9.2	10.0	11.9	11.3	5.6	9.3	11.5	9.4	-	-	-
	C.V. %	3.7	2.5	3.5	5.1	-	2.8	7.9	6.5	-	-	-	-
	F (Prob)	007	.000	.001	.414	-	.134	.018	.290	-	-	-	-

H.turcicum * H.maydis *													
S1 NO	PEDIGREE	H.turcicum * ZN 1				H.maydis * ZN 1				STAND AT HARVEST			
		ALMO	BAJA	MEAN	ZN 1	ALMO	BAJA	MEAN	ZN 1	POON	ALMO	BAJA	KANG
1	BISCO - 3123	1.0	1.0	1.0	1.3	1.3	1.5	1.4	1.5	85	87	58	79
2	A A M H - 204	1.6	1.0	1.3	1.7	1.7	2.5	2.0	2.5	90	77	51	76
3	N E C H - 113	1.1	1.7	1.4	1.1	1.5	2.3	1.6	2.3	92	92	64	84
4	X - 2003	1.5	1.2	1.3	1.6	1.3	1.3	1.4	1.3	88	104	68	85
CHECKS:													
5	NAVJOT	2.5	2.3	2.4	2.2	2.0	2.5	2.2	2.5	89	78	59	78
6	K H - 510	1.0	1.0	1.0	1.6	1.5	1.8	1.6	1.8	88	89	61	82
MEAN LOCATION													
	C.D. AT 5%	0.3	0.4	0.3	0.5	0.6	0.9	0.6	0.9	4.1	12.3	8.8	7.9
	C.V. %	15.3	14.5	-	19.3	20.9	29.8	-	5.1	3.1	7.7	9.7	-
	F (Prob)	.000	.000	-	.003	.203	.032	-	.062	.037	.007	.016	-

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

TABLE NO. 22

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DELHI, GURDASPUR, KARNAL, KANPUR MAINPURI IN AET 2nd YEAR, ZONE II, TRIAL No. TR70Z2 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		DELH				GURD				KARN				MAIN		ZN 2	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1	H K H - 1206	5354	3	5642	4	4339	1	3470	4	4701	3						
2	KAVERI - 235	6635	1	8682	2	3843	2	3642	2	5701	1						
CHECKS:																	
3	NAVJOT	4388	4	6312	3	3365	4	3743	1	4452	4						
4	KH 510	6209	2	8908	1	3671	3	3541	3	5582	2						
	MEAN YIELD=	5647		7386		3805		3599		5109							
	MEAN STAND	109		119		55		97		95							
	C.D. AT 5% =	849		1454		266		221		697							
	C.V. % =	12.44		16.29		3.62		5.07		-							
	F (Prob)	.000		.000		.000		.799		-							
	PLOT SIZE=	22.50		15.60		16.80		15.00		-							
AGRONOMY DATA:																	
	SOWING DATE(2003)	8-07		3-07		30-06		18-07		-							
	HARVEST DATE(2003)	21-10		1-10		1-10		13-10		-							
	IRRIGATION Nos	-		2		1		-		-							
	FERTILIZER APPLIED N	120		125		150		120		-							
	P	80		60		60		60		-							
	K	40		30		-		60		-							

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : LUDH 21.6%

TABLE NO. 22 (CONT.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY		
		DELH	GURD	KARN	DELH	GURD	KARN	HUSK	GURD	KARN
				ZN 2			ZN 2			ZN 2
		DELH	GURD	KARN	DELH	GURD	KARN	DELH	GURD	KARN
		MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN
1	H K H - 1206	46.7	46.7	51.7	49.2	52.7	53.7	51.8	83.2	88.7
2	KAVERI - 235	47.3	47.2	51.7	49.5	53.2	52.3	51.7	82.7	84.3
	CHECKS:									
3	NAVJOT	46.7	47.5	51.3	49.2	53.5	51.3	51.3	83.0	87.0
4	KH 510	48.0	48.0	52.3	50.2	54.0	53.7	52.6	82.7	86.7
	MEAN LOCATION	47.2	47.3	51.8	49.5	53.3	52.8	51.9	82.9	86.7
	C.D. AT 5% =	1.2	1.0	1.9	0.7	0.8	0.9	0.8	1.2	1.1
	C.V. % =	2.1	1.8	1.8	1.2	1.3	0.8	-	1.2	0.6
	F (Prob)	.107	.089	.631	.028	.025	.002	-	.756	.000

SI No	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *			HUSK		
		DELH	GURD	KARN	DELH	KARN	MEAN	DELH	KARN	MEAN	DELH	KARN	MEAN
				ZN 2			ZN 2			ZN 2			ZN 2
		DELH	GURD	KARN	DELH	KARN	MEAN	DELH	KARN	MEAN	DELH	KARN	MEAN
		MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN
1	H K H - 1206	26.3	23.5	16.3	1.7	2.3	2.0	2.0	2.6	2.3	2.6	2.4	2.4
2	KAVERI - 235	25.8	23.1	16.5	1.6	2.7	2.1	2.1	1.8	2.6	2.2	2.4	2.4
	CHECKS:												
3	NAVJOT	30.5	21.7	15.8	2.1	2.4	2.3	2.3	2.2	2.4	2.3	2.6	2.6
4	KH 510	21.3	23.5	16.2	1.6	2.4	2.0	2.0	2.0	2.7	2.3	2.6	2.6
	MEAN LOCATION	26.0	22.9	16.2	1.7	2.5	2.1	2.1	2.0	2.6	2.3	2.5	2.5
	C.D. AT 5% =	2.1	0.6	0.9	0.3	0.6	0.4	0.4	0.2	0.6	0.4	0.5	0.5
	C.V. % =	6.5	2.0	4.4	13.5	18.6	-	-	8.7	19.5	-	15.8	-
	F (Prob)	.000	.000	.448	.005	.625	-	-	.038	.850	-	.785	-

TABLE NO. 22 (CONT.)

SI NO PEDIGREE	UNIF. *	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				MAIN KARN	ZIN MEAN
		KARN	DELH	GURD	KARN	DELH	GURD	KARN	ZIN		
1 H K H - 1206	2.7	168	194	163	139	166	68	93	83	71	79
2 KAVERI - 235	2.7	240	243	222	170	219	98	109	108	95	102
CHECKS:											
3 NAVJOT	2.6	218	233	217	148	204	98	116	108	94	104
4 KH 510	2.6	228	240	183	151	200	105	116	90	82	98
MEAN LOCATION											
C.D. AT 5% =	0.5	7.5	28.9	12.3	19.2	17.0	6.2	20.2	11.9	11.8	12.5
C.V. % =	15.4	2.9	10.3	3.1	10.3	-	5.5	15.1	6.1	11.2	-
F (Prob)	.967	.000	.009	.000	.022	-	.000	.082	.004	.002	-

SI NO PEDIGREE	EAR No. / PLANT	H. may. *				STAND AT HARVEST				MAIN KARN	ZIN MEAN
		DELH	GURD	GURD	DELH	DELH	GURD	KARN	ZIN		
1 H K H - 1206	1.01	0.96	2.6	108	111	38	99	89	99	89	
2 KAVERI - 235	1.01	0.90	2.0	111	121	68	97	99	97	99	
CHECKS:											
3 NAVJOT	0.96	0.86	2.5	109	119	54	95	94	95	94	
4 KH 510	0.98	0.94	1.7	110	123	60	97	97	97	97	
MEAN LOCATION											
C.D. AT 5% =	-	-	2.2	109	119	55	97	95	97	95	
C.V. % =	-	-	0.5	12.6	7.5	5.9	3.3	7.3	3.3	7.3	
F (Prob)	-	-	17.5	9.4	5.1	5.4	2.7	-	2.7	-	
	-	-	.002	.972	.026	.000	.274	-	.274	-	

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

TABLE NO. 23

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, RANCHI, JASHIPUR, AMBIKAPUR IN AET 2nd YEAR, ZONE III, TRIAL No. TR70Z3 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															ZIN 3	
		BELI	R	VARA	R	DHOL	R	KUSH	R	RANC	R	JASH	R	AMBI	R	MEAN	R	
1	BISCO SURAJ - 11	6587	2	4274	2	4124	3	2514	3	5019	3	4904	2	4417	3	4548	3	
2	J K M H - 1080	6178	4	4267	3	3734	4	2727	2	5315	2	4394	5	4741	2	4479	4	
3	X - 2003	6327	3	4695	1	5026	2	2753	1	5322	1	5081	1	5106	1	4902	1	
CHECKS:																		
4	NAVJOT	5038	5	3108	5	3195	5	1863	5	3533	5	4460	3	3815	5	3573	5	
5	KH 510	6888	1	4187	4	5767	1	2266	4	4887	4	4409	4	4374	4	4682	2	
	MEAN YIELD=	6203		4106		4369		2425		4815		4650		4490		4437		
	MEAN STAND	113		109		-		119		75		92		103		102		
	C.D. AT 5%	634		334		717		832		1154		250		1214		734		
	C.V. %	6.74		5.36		10.66		12.36		15.80		3.54		17.83		-		
	F (Prob)	.000		.000		.000		.202		.017		.001		.097		-		
	PLOT SIZE=	18.00		22.50		22.50		22.50		17.50		18.00		22.50		-		
AGRONOMY DATA:																		
	SOWING DATE(2003)	30-06		25-06		1-07		11-07		4-07		9-07		26-06		-		
	HARVEST DATE(2003)	9-10		27-09		20-10		24-10		30-10		20-10		-		-		
	IRRIGATION Nos	-		-		-		-		1		-		-		-		
	FERTILIZER APPLIED	N 120		100		100		120		100		120		100		-		
	P	60		60		60		60		60		60		60		-		
	K	60		40		40		40		40		60		40		-		

TABLE NO. 23 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE NAVJOT										
Sl No	Pedigree	Gora Beli	Vara	Dhol	Kush	Ranc	Jash	Ambi	Zn 3 Mean	
1	BISCO SURAJ - 11	30.74	37.53	29.06	34.93	42.06	9.96	15.77	27.29	
2	J K M H - 1080	22.62	37.32	16.85	46.36	50.46	-	24.28	25.36	
3	X - 2003	25.58	51.09	57.28	47.79	50.65	13.93	33.83	37.18	
CHECKS:										
4	NAVJOT	-	-	-	-	-	-	-	-	-
5	KH 510	36.71	34.73	80.47	21.60	38.32	-	14.65	31.04	
GRAIN YIELD % SUPERIORITY OVER THE KH 510										
Sl No	Pedigree	Gora Beli	Vara	Dhol	Kush	Ranc	Jash	Ambi	Zn 3 Mean	
1	BISCO SURAJ - 11	-	2.08	-	10.96	2.70	11.23	0.98	-	
2	J K M H - 1080	-	1.92	-	20.36	8.77	-	8.40	-	
3	X - 2003	-	12.14	-	21.54	8.92	15.24	16.73	4.68	
CHECKS:										
4	NAVJOT	-	-	-	-	-	1.15	-	-	
5	KH 510	-	-	-	-	-	-	-	-	
DAYS TO 50% POLLEN SHED										
Sl No	Pedigree	Gora Beli	Vara	Dhol	Kush	Ranc	Jash	Ambi	Zn 3 Mean	
1	BISCO SURAJ - 11	53.5	49.3	53.8	54.0	49.8	48.0	51.5	51.4	
2	J K M H - 1080	49.5	48.3	51.8	54.0	45.5	46.0	50.5	49.4	
3	X - 2003	52.0	49.8	53.5	54.0	50.8	48.8	51.8	51.5	
CHECKS:										
4	NAVJOT	48.8	46.0	51.5	52.0	45.8	46.5	49.0	48.5	
5	KH 510	50.8	49.8	52.8	53.0	51.5	47.8	51.8	51.0	
MEAN LOCATION										
	C.D. AT 5%	1.1	1.1	1.4	3.5	1.8	1.7	1.5	1.7	
	C.V. %	1.4	1.5	1.7	2.4	2.5	2.4	2.0	-	
	F (Prob)	.000	.000	.011	.500	.000	.028	.009	-	

TABLE NO. 23 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% SILKING										ZN 3	
	GORA										AMBI	MEAN
	BELI	VARA	DHOL	KUSH	RANC	JASH	RANC	JASH	AMBI			
1 BISCO SURAJ - 11	55.5	53.8	56.5	56.0	55.0	51.0	56.3	54.9				
2 J K M H - 1080	51.3	53.0	54.5	55.0	49.3	49.8	54.8	52.5				
3 X - 2003	54.3	54.8	56.0	57.0	55.5	52.3	56.0	55.1				
CHECKS:												
4 NAVJOT	50.8	50.5	55.3	53.5	48.5	50.0	54.5	51.9				
5 KH 510	53.8	54.5	56.3	56.0	55.5	50.8	56.3	54.7				
MEAN LOCATION												
C.D. AT 5% =	1.6	2.0	1.1	2.2	2.0	1.7	1.0	1.7				
C.V. % =	1.9	2.4	1.3	1.4	2.5	2.2	1.2	-				
F (Prob)	.000	.003	.014	.058	.000	.056	.005	-				

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK										MOISTURE % AT HARVEST					
	GORA										ZN 3		GORA			
	BELI	VARA	DHOL	RANC	JASH	AMBI	RANC	JASH	AMBI	MEAN	BEI	VARA	KUSH	RANC	JASH	MEAN
1 BISCO SURAJ - 11	86.3	82.8	79.3	92.3	89.0	83.8	85.5	24.5	31.7	27.2	21.2	20.5	25.0			
2 J K M H - 1080	84.8	82.5	77.3	91.5	87.3	82.8	84.3	25.1	31.0	28.3	21.7	21.7	25.6			
3 X - 2003	83.8	85.0	78.5	90.0	86.8	82.5	84.4	25.0	32.3	24.9	25.3	21.6	25.8			
CHECKS:																
4 NAVJOT	79.5	80.5	78.0	91.0	85.8	83.0	83.0	22.4	30.6	21.7	22.6	21.2	23.7			
5 KH 510	83.5	83.8	78.3	91.3	86.5	82.8	84.3	24.1	31.7	22.0	23.0	21.3	24.4			
MEAN LOCATION																
C.D. AT 5% =	2.8	1.5	1.3	2.5	2.0	3.0	2.2	1.3	0.9	0.0	0.4	0.2	0.6			
C.V. % =	2.2	1.1	1.0	1.8	1.5	2.4	-	3.5	1.9	0.0	1.2	0.6	-			
F (Prob)	.003	.000	.051	.451	.046	.912	-	.004	.017	.000	.000	.000	.000			

TABLE NO. 23 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 3				
	GORA	BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN	BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN
1 BISCO SURAJ - 11	2.5	1.5	2.6	2.8	2.8	1.0	2.8	2.2	1.8	2.0	3.0	2.3	1.3	2.6	2.1
2 J K M H - 1080	2.0	1.3	4.0	2.3	2.3	2.3	2.2	2.3	2.3	1.5	3.4	2.0	2.0	2.0	2.2
3 X - 2003	2.4	1.5	2.3	2.5	2.5	1.0	2.4	2.0	2.1	2.3	2.8	2.0	1.0	2.3	2.1
CHECKS:															
4 NAVJOT	2.9	2.0	3.0	2.8	2.8	2.8	2.6	2.7	3.1	1.8	3.1	2.3	2.5	2.6	2.6
5 KH 510	2.4	1.5	2.4	2.5	2.5	1.5	2.0	2.0	1.9	1.8	2.9	2.0	1.8	2.4	2.1
MEAN LOCATION															
C.D. AT 5%	0.7	0.1	0.9	0.8	0.7	0.7	0.2	0.6	0.5	0.3	0.7	0.7	0.6	0.3	0.5
C.V. %	20.0	5.9	21.4	11.6	25.8	6.0	-	15.5	9.2	15.9	11.9	23.4	8.7	-	-
F (Prob)	.220	.000	.011	.500	.000	.000	-	.001	.001	.445	.684	.001	.012	-	-

S1 NO PEDIGREE	HUSK COVER *					UNIFORMITY *					ZN 3		
	GORA	BELI	VARA	JASH	AMBI	MEAN	BELI	VARA	DHOL	JASH	AMBI	MEAN	MEAN
1 BISCO SURAJ - 11	1.8	1.8	1.8	1.5	2.4	1.9	2.4	1.5	2.3	2.3	2.5	2.2	2.2
2 J K M H - 1080	1.8	1.8	1.8	1.8	2.1	1.8	2.5	1.5	2.1	2.0	2.3	2.1	2.1
3 X - 2003	2.0	1.8	1.8	1.3	2.4	1.8	2.0	1.5	1.8	1.5	2.7	1.9	1.9
CHECKS:													
4 NAVJOT	2.5	1.8	2.5	2.5	2.2	2.2	2.8	2.0	2.6	2.8	2.5	2.5	2.5
5 KH 510	1.6	1.5	1.5	1.5	2.2	1.7	2.0	1.5	1.8	2.0	2.3	1.9	1.9
MEAN LOCATION													
C.D. AT 5%	0.3	0.3	0.3	0.5	0.3	0.4	0.4	0.0	0.6	0.5	0.3	0.4	0.4
C.V. %	11.1	10.7	17.8	9.7	9.7	-	12.4	0.0	19.1	16.8	8.6	-	-
F (Prob)	.001	.263	.001	.285	.285	-	.012	.000	.045	.005	.106	-	-

TABLE NO. 23 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA
		BELI	VARA	DHOL	KUSH	RANC	JASH												
1	BISCO SURAJ - 11	183	233	165	150	176	173	203	183	87	92	79	65	80	77	74	79		
2	J K M H - 1080	159	225	151	151	177	165	197	175	69	79	70	75	78	67	69	72		
3	X - 2003	184	241	170	147	176	173	207	185	93	96	86	64	78	83	71	82		
CHECKS:																			
4	NAVJOT	195	237	172	144	178	182	197	186	88	98	84	65	80	83	73	81		
5	KH 510	184	251	167	154	178	172	206	187	93	100	81	66	76	76	79	81		
MEAN LOCATION																			
	C.D. AT 5%	13.9	10.9	14.5	23.7	6.1	5.2	11.0	12.2	16.2	11.4	8.9	16.6	5.7	4.4	7.4	10.1		
	C.V. %	5.0	3.0	5.7	5.7	2.2	2.0	3.5	-	12.3	8.0	7.3	9.0	4.7	3.7	6.6	-		
	F (Prob)	.002	.003	.065	.787	.902	.000	.177	-	.036	.013	.016	.421	.535	.000	.098	-		

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Sl No	PEDIGREE	EAR No. / PLANT			H.May.			STAND AT HARVEST			ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN	ZN 3 GORA	ZN 3 MEAN
		BELI	VARA	KUSH	RANC	AMBI	BELI	VARA	KUSH	RANC									
1	BISCO SURAJ-11	0.96	0.96	0.72	1.08	0.93	0.93	1.8	115	111	119	77	93	87	100				
2	J K M H - 1080	0.97	0.97	0.61	0.91	0.93	0.88	-	110	111	125	77	97	113	105				
3	X - 2003	0.98	0.95	0.70	0.92	0.87	0.88	1.8	113	108	109	76	89	102	99				
CHECKS:																			
4	NAVJOT	0.98	0.91	0.67	1.01	0.91	0.90	2.8	110	111	120	73	88	103	101				
5	KH 510	0.97	0.95	0.60	0.93	0.95	0.88	1.6	115	107	121	75	95	111	104				
MEAN LOCATION																			
	C.D. AT 5%	-	-	-	-	-	-	2.0	113	109	119	75	92	103	102				
	C.V. %	-	-	-	-	-	-	0.4	3.1	6.9	44.0	8.2	5.8	16.4	14.1				
	F (Prob)	-	-	-	-	-	-	12.5	1.8	4.1	13.3	7.1	4.0	10.3	-				
		-	-	-	-	-	-	.000	.005	.611	.864	.804	.025	.035	-				

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

TABLE NO. 24

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR IN AET 2nd YEAR, ZONE IV, TRIAL NO. TR70Z4 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4		
		HYDE	R	KARI	R	ARBH	R	MAND	R	COIM	R	KOLH	R	MEAN	R	
1	KAVERI - 235	952	3	8859	1	6333	2	10078	1	2580	2	7425	1	6038	1	
CHECKS:																
2	NAVJOT	3322	1	7382	3	5293	3	4679	3	2153	3	5100	3	4655	3	
3	KH 510	2040	2	8535	2	6670	1	8119	2	3239	1	6843	2	5908	2	
	MEAN YIELD=	2105		8259		6099		7625		2657		6456		5533		
	MEAN STAND	124		116		131		94		77		139		113		
	C.D. AT 5%	325		1250		613		1495		639		887		868		
	C.V. %	12.45		12.22		8.12		9.34		19.42		11.10		-		
	F (Prob)	.000		.015		.001		.000		.000		.098		-		
	PLOT SIZE=	22.50		18.00		22.50		17.50		14.40		22.50		-		
AGRONOMY DATA:																
	SOWING DATE(2003)	9-07		16-07		9-07		4-08		3-07		9-07		-		
	HARVEST DATE(2003)	1-11		27-10		4-11		6-12		37-10		4-11		-		
	IRRIGATION Nos	3		1		8		8		8		-		-		
	FERTILIZER APPLIED N	120		150		150		150		135		120		-		
	P	60		60		75		75		63		60		-		
	K	40		40		38		40		50		40		-		

TABLE NO. 24 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE NAVJOT									
Sl No	PEDIGREE	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4	MEAN
1	KAVERI - 235	-	20.01	19.66	115.41	19.84	45.57	29.72	
CHECKS:									
2	NAVJOT	-	15.62	26.01	73.53	50.45	34.17	26.92	
3	KH 510	-							

GRAIN YIELD % SUPERIORITY OVER THE KH 510									
Sl No	PEDIGREE	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4	MEAN
1	KAVERI - 235	-	3.80	-	24.13	-	8.50	2.21	
CHECKS:									
2	NAVJOT	62.79	-	-	-	-	-	-	
3	KH 510	-	-	-	-	-	-	-	

DAYS TO 50% POLLEN SHED									
Sl No	PEDIGREE	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4	MEAN
1	KAVERI - 235	53.2	46.0	58.3	47.0	54.3	56.8	52.6	
CHECKS:									
2	NAVJOT	53.7	47.0	56.7	45.3	52.0	52.0	51.1	
3	KH 510	53.8	46.2	58.5	47.0	53.3	56.2	52.5	
MEAN LOCATION									
	C.D. AT 5%	2.1	1.8	1.6	1.5	0.8	0.5	1.4	
	C.V. %	3.0	3.1	2.2	1.4	1.2	0.7	-	
	F (Prob)	.762	.461	.060	.059	.000	.000	-	

TABLE NO. 24 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% SILKING					DAYS TO 50% DRY HUSK								
	HYDE	KARI	ARBH	MAND	COIM	KOLH	MEAN	ZN 4	HYDE	KARI	MAND	COIM	KOLH	MEAN
1 KAVERI - 235	55.2	48.8	59.2	48.3	58.2	57.0	54.4	98.2	84.3	90.0	100.2	85.2	91.6	
CHECKS:														
2 NAVJOT	55.8	49.0	58.8	46.7	55.0	54.0	53.2	99.3	83.8	90.0	97.8	83.2	90.8	
3 KH 510	55.8	48.3	59.2	49.0	56.3	57.2	54.3	98.0	84.0	89.3	98.7	85.5	91.1	
MEAN LOCATION	55.6	48.7	59.1	48.0	56.5	56.1	54.0	98.5	84.1	89.8	98.9	84.6	91.2	
C.D. AT 5%	1.9	1.1	1.4	0.9	0.8	0.7	1.1	0.8	1.6	1.2	0.7	0.8	1.0	
C.V. %	2.6	1.8	1.9	0.9	1.1	0.9	-	0.7	1.5	0.6	0.5	0.8	-	
F (Prob)	.665	.431	.836	.000	.000	.000	-	.011	.779	.309	.000	.000	-	

S1 NO PEDIGREE	MOISTURE % AT HARVEST					PLANT ASPECT *						
	HYDE	ARBH	MAND	KOLH	MEAN	ZN 4	HYDE	KARI	ARBH	KOLH	MEAN	ZN 4
1 KAVERI - 235	20.1	20.3	19.6	19.4	19.8	19.8	2.8	2.0	2.5	1.6	2.2	2.2
CHECKS:												
2 NAVJOT	18.6	20.1	20.3	19.7	19.7	19.7	2.8	2.5	3.0	2.5	2.7	2.7
3 KH 510	21.4	21.6	20.3	19.7	20.7	20.7	2.7	2.5	2.5	1.8	2.4	2.4
MEAN LOCATION	20.0	20.7	20.1	19.6	20.1	20.1	2.8	2.3	2.7	2.0	2.4	2.4
C.D. AT 5%	1.9	1.7	2.2	1.3	1.8	1.8	0.4	0.7	0.2	0.4	0.4	0.4
C.V. %	7.5	6.4	4.8	5.1	-	-	10.0	23.5	6.8	14.4	-	-
F (Prob)	.030	.153	.637	.869	-	-	.590	.237	.001	.001	-	-

TABLE NO. 24 (CONT.)

S1	NO PEDIGREE	EAR ASPECT *										HUSK COVER *										ZN 4	
		HYDE	KARI	ARBH	MAND	KOLH	MEAN	HYDE	KARI	ARBH	MAND	KOLH	MEAN	HYDE	KARI	ARBH	MAND	KOLH	MEAN	KOLH	MEAN		
1	KAVERI - 235	3.3	1.5	2.7	2.3	1.6	2.3	2.4	1.8	2.5	2.3	1.6	2.1	1.8	2.5	2.3	1.6	2.1	1.6	2.1			
CHECKS:																							
2	NAVJOT	2.7	2.0	3.0	2.0	2.1	2.3	2.3	1.8	2.8	2.0	2.4	2.3	1.8	2.8	2.0	2.4	2.3	2.4	2.3			
3	KH 510	2.7	1.3	2.8	1.7	1.7	2.0	2.3	1.5	2.5	2.3	1.8	2.0	1.5	2.5	2.3	1.8	2.1	1.8	2.1			
MEAN LOCATION																							
	C.D. AT 5%	0.9	0.7	0.2	0.9	0.3	0.6	0.4	0.5	0.1	1.2	0.2	0.5	0.4	0.5	0.1	1.2	0.2	0.2	0.5			
	C.V. %	25.1	31.4	6.4	20.4	14.2	-	12.0	22.9	4.0	23.7	9.5	-	12.0	22.9	4.0	23.7	9.5	-	-			
	F (Prob)	.309	.106	.031	.250	.014	-	.844	.285	.000	.694	.000	-	.844	.285	.000	.694	.000	-	-			

S1	NO PEDIGREE	UNIFORMITY *										PLANT HEIGHT (cm)										ZN 4	
		HYDE	KARI	ARBH	MAND	KOLH	MEAN	HYDE	KARI	ARBH	MAND	KOLH	MEAN	HYDE	KARI	ARBH	MAND	KOLH	MEAN	KOLH	MEAN		
1	KAVERI - 235	2.6	2.7	2.2	2.0	1.7	2.2	148	176	200	157	203	177	148	176	200	157	203	177	203	177		
CHECKS:																							
2	NAVJOT	2.5	2.8	2.8	2.3	2.6	2.6	113	180	192	146	189	164	113	180	192	146	189	164	189	164		
3	KH 510	2.4	3.0	2.3	2.0	1.9	2.3	136	173	198	147	199	171	136	173	198	147	199	171	199	171		
MEAN LOCATION																							
	C.D. AT 5%	0.3	0.9	0.2	0.8	0.2	0.5	18.4	8.3	10.3	5.3	25.2	13.5	132	176	197	150	197	170	197	170		
	C.V. %	9.7	25.0	6.8	15.8	8.5	-	10.8	3.6	2.3	2.7	9.9	-	10.8	3.6	2.3	2.7	9.9	-	-	-		
	F (Prob)	.513	.724	.000	.444	.000	-	.006	.205	.198	.002	.496	-	.006	.205	.198	.002	.496	-	-	-		

TABLE NO. 24 (CONT.)

Sl NO	PEDIGREE	EAR HEIGHT (cm)				EAR No. / PLANT				Zn 4 MEAN			
		HYDE	KARI	MAND	COIM	KOLH	ARBH	MAND	COIM		KOLH		
1	KAVERI - 235	59	62	84	81	101	77	0.37	0.97	0.85	1.00	0.97	0.83
CHECKS:													
2	NAVJOT	45	64	86	80	101	75	0.61	0.95	0.93	1.01	0.91	0.88
3	KH 510	50	64	84	80	98	75	0.47	0.92	0.96	1.00	0.92	0.85
MEAN LOCATION													
	C.D. AT 5%	10.9	4.9	12.3	3.9	14.6	9.3	-	-	-	-	-	-
	C.V. %	16.4	6.0	6.4	3.8	11.4	-	-	-	-	-	-	-
	F (Prob)	.044	.492	.925	.694	.844	-	-	-	-	-	-	-

Sl NO	PEDIGREE	H.tur. STAND AT HARVEST				OV'L			
		KOLH	HYDE	KARI	ARBH	MAND	COIM	KOLH	MEAN
1	KAVERI - 235	1.6	1.24	1.18	1.29	95	83	133	113
CHECKS:									
2	NAVJOT	2.7	1.23	1.13	1.25	100	63	142	111
3	KH 510	1.8	1.24	1.17	1.40	86	85	144	116
MEAN LOCATION									
	C.D. AT 5%	0.3	9.2	4.9	14.9	15.6	9.6	20.7	-
	C.V. %	12.5	5.8	3.3	8.8	7.4	9.7	11.6	-
	F (Prob)	.000	.971	.102	.126	.157	.001	.461	-

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

TABLE NO. 25

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, PRATAPGARH, BANSWARA, KHEDBRAMHA, CHHINDIWARA IN AET 2nd YEAR, ZONE IV, TRIAL NO. TR70Z5 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 5	
		UDAI	R	PRAT	R	BANS	R	KHED	R	CHHI	R	MEAN	R		
1	E C - 3116	4241	5	5285	5	4877	4	2710	4	6717	4	4766	4		
2	E C - 3110	4306	4	5221	6	4705	5	2819	2	5905	5	4591	5		
3	J K M H - 1080	6795	1	7669	1	6487	2	2743	3	8177	3	6374	2		
4	KAVERI - 235	5898	3	5780	3	5213	3	2523	6	8986	1	5680	3		
CHECKS:															
5	NAVJOT	2671	6	5508	4	4671	6	2574	5	5902	6	4265	6		
6	KH 510	6414	2	7401	2	6716	1	3055	1	8701	2	6457	1		
	MEAN YIELD=	5054		6144		5445		2737		7398		5356			
	MEAN STAND	107		99		80		138		113		108			
	C.D. AT 5%=	673		1020		1014		545		392		729			
	C.V. % =	8.93		11.13		12.49		13.34		3.55		-			
	F (Prob)	.000		.000		.000		.348		.000		-			
	PLOT SIZE=	18.00		18.00		18.00		18.00		16.80		-			
AGRONOMY DATA:															
	SOWING DATE(2003)	8-07		27-06		3-07		8-07		27-06		-			
	HARVEST DATE(2003)	15-10		3-10		16-10		11-10		28-10		-			
	IRRIGATION Nos	-		-		-		-		120		-			
	FERTILIZER APPLIED N	100		80		80		100		60		-			
	P	60		60		60		50		40		-			
	K	-		-		-		-		-		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 31.8% : DAHO 24.9%

TABLE NO. 25 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE NAVJOT							ZN 5
Sl	NO PEDIGREE	UDAI	PRAT	BANS	KHED	CHHI	MEAN
1	E C - 3116	58.76	-	4.42	5.30	13.82	11.75
2	E C - 3110	61.22	-	0.73	9.50	0.06	7.65
3	J K M H - 1080	154.38	39.24	38.90	6.57	38.55	49.45
4	KAVERI - 235	120.79	4.95	11.61	-	52.26	33.18
CHECKS:							
5	NAVJOT	-	-	-	-	-	-
6	KH 510	140.10	34.38	43.78	18.67	47.43	51.40

GRAIN YIELD & SUPERIORITY OVER THE KH 510							ZN 5
Sl	NO PEDIGREE	UDAI	PRAT	BANS	KHED	CHHI	MEAN
1	E C - 3116	-	-	-	-	-	-
2	E C - 3110	-	-	-	-	-	-
3	J K M H - 1080	5.95	3.62	-	-	-	-
4	KAVERI - 235	-	-	-	-	3.28	-
CHECKS:							
5	NAVJOT	-	-	-	-	-	-
6	KH 510	-	-	-	-	-	-

TABLE NO. 25 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING						
	UDAI	PRAT	BANS	KHED	CHHI	ZN 5 MEAN	UDAI	PRAT	BANS	KHED	CHHI	ZN 5 MEAN
1 E C - 3116	48.0	46.5	46.5	43.5	50.3	47.0	50.0	50.0	50.3	54.8	51.0	51.2
2 E C - 3110	48.5	46.3	46.5	42.8	49.5	46.7	50.5	50.3	50.5	52.8	50.3	50.8
3 J K M H - 1080	49.8	48.8	48.8	48.0	51.8	49.4	51.8	52.3	52.3	54.5	52.0	52.5
4 KAVERI - 235	50.3	49.0	48.0	48.3	50.8	49.3	52.8	52.5	52.0	53.8	51.8	52.5
CHECKS:												
5 NAVJOT	50.5	46.8	46.3	45.3	50.3	47.8	52.8	50.5	50.3	52.3	52.3	51.6
6 KH 510	51.0	47.0	47.0	48.8	52.5	49.3	53.0	50.5	51.0	55.3	53.5	52.7
MEAN LOCATION	49.7	47.4	47.2	46.1	50.8	48.2	51.8	51.0	51.0	53.9	51.8	51.9
C.D. AT 5% =	0.9	3.2	3.2	1.3	1.3	2.0	0.9	3.3	3.2	2.4	1.4	2.2
C.V. % =	1.2	4.5	4.5	1.9	1.7	-	1.1	4.3	4.2	3.0	1.7	-
F (Prob)	.000	.328	.517	.000	.002	-	.000	.473	.637	.118	.003	-

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST						
	UDAI	PRAT	BANS	KHED	CHHI	ZN 5 MEAN	UDAI	BANS	KHED	CHHI	ZN 5 MEAN	
1 E C - 3116	84.3	79.0	78.3	72.3	89.3	80.6	12.9	17.2	15.3	16.2	15.4	
2 E C - 3110	82.0	81.0	79.5	73.3	88.3	80.8	15.2	16.8	15.0	17.9	16.2	
3 J K M H - 1080	86.3	84.3	82.8	73.5	93.5	84.1	13.5	17.2	16.0	19.8	16.6	
4 KAVERI - 235	85.8	81.8	78.8	73.0	93.0	82.4	15.9	16.5	16.0	20.1	17.1	
CHECKS:												
5 NAVJOT	84.8	80.5	79.3	72.8	90.3	81.5	14.9	16.6	16.5	19.5	16.9	
6 KH 510	87.0	81.0	79.0	74.8	93.5	83.1	16.1	16.7	15.8	19.8	17.1	
MEAN LOCATION	85.0	81.3	79.6	73.3	91.3	82.1	14.8	16.8	15.8	18.9	16.6	
C.D. AT 5% =	1.1	3.8	3.8	2.2	1.4	2.5	0.4	1.1	0.5	0.7	0.7	
C.V. % =	0.9	3.1	3.2	2.0	1.0	-	1.9	4.3	1.9	2.3	-	
F (Prob)	.000	.160	.213	.301	.000	-	.000	.601	.000	.000	-	

TABLE NO. 25 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 5 MEAN
		UDAI	PRAT	BANS	KHED	MEAN	UDAI	PRAT	BANS	KHED		
1	E C - 3116	2.6	2.0	2.1	2.5	2.3	2.3	2.5	2.3	4.3	2.8	
2	E C - 3110	2.5	2.3	2.3	2.5	2.4	2.4	2.0	2.1	3.0	2.4	
3	J K M H - 1080	1.9	1.9	1.9	2.3	2.0	1.9	1.9	2.1	3.8	2.4	
4	KAVERI - 235	2.3	2.0	2.1	2.3	2.2	2.0	2.4	2.0	2.0	2.1	
CHECKS:												
5	NAVJOT	2.6	2.1	2.0	3.3	2.5	2.3	2.4	2.0	3.8	2.6	
6	KH 510	2.1	1.6	1.6	2.8	2.0	1.8	1.9	1.5	2.8	2.0	
MEAN LOCATION												
	C.D. AT 5%	0.3	0.3	0.3	0.9	0.5	0.5	0.4	0.3	0.9	0.5	
	C.V. %	9.6	10.9	11.2	22.7	-	14.8	11.9	11.5	18.6	-	
	F (Prob)	.001	.017	.017	.209	-	.052	.008	.006	.001	-	

SI NO	PEDIGREE	HUSK COVER *					UNIFORMITY *					ZN 5 MEAN
		UDAI	PRAT	BANS	KHED	MEAN	UDAI	PRAT	BANS	KHED		
1	E C - 3116	2.4	2.3	2.1	2.5	2.3	2.5	2.4	2.4	3.0	2.6	
2	E C - 3110	2.3	2.3	2.3	2.8	2.4	2.6	2.4	2.4	3.0	2.6	
3	J K M H - 1080	2.0	1.9	2.0	2.5	2.1	2.1	1.8	2.1	2.8	2.2	
4	KAVERI - 235	2.1	2.3	2.3	2.8	2.3	2.4	2.3	2.0	2.5	2.3	
CHECKS:												
5	NAVJOT	2.5	2.3	2.1	2.8	2.4	2.9	2.4	2.3	2.8	2.6	
6	KH 510	2.0	1.8	1.9	2.8	2.1	2.4	1.8	1.8	3.3	2.3	
MEAN LOCATION												
	C.D. AT 5%	0.5	0.4	0.3	1.1	0.6	0.4	0.4	0.5	1.0	0.6	
	C.V. %	16.2	13.7	10.3	26.2	-	10.8	11.7	14.8	22.2	-	
	F (Prob)	.314	.074	.166	.981	-	.023	.003	.105	.650	-	

TABLE NO. 25 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 5 MEAN
	UDAI	PRAT	BANS	KHED	CHHI	UDAI	PRAT	BANS	KHED	CHHI	
1 E C - 3116	196	201	201	179	206	197	94	89	86	106	95
2 E C - 3110	198	211	215	209	199	206	104	106	93	96	99
3 J K M H - 1080	204	180	174	171	178	181	89	91	66	84	86
4 KAVERI - 235	206	206	204	199	211	205	88	84	81	90	89
CHECKS:											
5 NAVJOT	191	211	216	206	203	206	94	89	91	91	91
6 KH 510	196	213	213	190	208	204	110	118	74	93	98
MEAN LOCATION	199	204	204	192	201	200	96	96	82	93	93
C.D. AT 5%	9.3	11.2	9.2	24.8	13.9	13.7	7.1	7.4	10.9	17.3	10.1
C.V. %	3.1	3.6	3.0	8.6	4.6	-	4.9	5.1	8.8	12.3	-
F (Prob)	.036	.000	.000	.031	.002	-	.026	.000	.001	.190	-

S1 NO PEDIGREE	EAR NO. / PLANT					STAND AT HARVEST					OV'L MEAN
	UDAI	PRAT	BANS	KHED	CHHI	UDAI	PRAT	BANS	KHED	CHHI	
1 E C - 3116	1.00	0.94	1.02	0.97	0.94	0.97	100	86	136	110	107
2 E C - 3110	1.01	0.98	1.02	0.97	0.97	0.99	91	60	137	111	101
3 J K M H - 1080	1.00	1.04	0.92	0.98	0.99	0.98	106	99	135	113	113
4 KAVERI - 235	0.98	1.01	1.04	0.98	0.93	0.99	98	64	140	117	105
CHECKS:											
5 NAVJOT	0.97	1.16	1.05	0.97	0.98	1.03	95	96	141	109	108
6 KH 510	0.99	1.04	0.99	0.97	0.97	0.99	103	78	140	122	111
MEAN LOCATION	-	-	-	-	-	-	99	80	138	113	108
C.D. AT 5%	-	-	-	-	-	-	11.9	11.7	9.1	16.5	-
C.V. %	-	-	-	-	-	-	8.0	9.7	4.4	9.7	-
F (Prob)	-	-	-	-	-	-	.176	.000	.675	.576	-

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

TABLE NO. 26

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IN ZONE - 1, AET 2nd YEAR, TRIAL No. TR71Z1 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE SURYA			Zn 1		
		ALMO	R	BAJA	R	KANG	R	ALMO	BAJA	KANG	MEAN	R	
1	B I O - 92109	8616	2	4576	3	2923	3	5372	2	79.71	38.55	25.48	54.56
2	SEEDTEC - 1204	8820	1	4728	2	3214	1	5587	1	83.95	43.15	37.98	60.76
3	P A C - 70001	7055	5	5029	1	2610	5	4898	3	47.14	52.27	12.04	40.92
4	F H - 3176	7394	3	2928	7	2836	4	4386	5	54.22	-	21.73	26.19
CHECKS:													
5	SURYA	4795	8	3303	6	2329	7	3476	7	-	-	-	-
6	X - 3342	7253	4	4076	4	3123	2	4817	4	51.28	23.40	34.06	38.60
7	KIRAN	4762	9	3541	5	2047	8	3450	8	-	7.20	-	-
8	MAHI KANCHAN	5475	7	2513	9	1837	9	3275	9	14.18	-	-	-
9	HIM - 129	5762	6	2645	8	2606	6	3671	6	20.18	-	11.89	5.63
	MEAN YIELD=	6659		3704		2614		4326					
	MEAN STAND	75		86		65		76					
	C.D. AT 5%	917		1404		466		929					
	C.V. %	9.47		22.00		12.26		-					
	F (Prob)	.000		.000		.000		-					
	PLOT SIZE=	12.60		14.40		17.20		-					
AGRONOMY DATA:													
	SOWING DATE(2003)	15-07		19-06		21-06		-					
	HARVEST DATE(2003)	10-11		15-10		23-09		-					
	IRRIGATION Nos	-		1		-		-					
	FERTILIZER APPLIED N	80		90		80		-					
	P	60		45		60		-					
	K	40		30		40		-					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : UMIA 31.2%

TABLE NO. 26 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD		% KANG	SUPERIORITY		OVER THE KIRAN			Zn 1 MEAN
		THE X - 3342 ALMO	BAJA		ZN 1 MEAN	ALMO	BAJA	KANG		
1	B I O - 92109	18.80	12.27	-	11.51	80.96	29.24	42.78	55.71	
2	SEEDTEC - 1204	21.60	16.01	2.93	15.99	85.23	33.54	57.01	61.96	
3	P A C - 70001	-	23.39	-	1.67	48.16	42.04	27.49	41.97	
4	F H - 3176	1.94	-	-	-	55.28	-	38.51	27.13	
CHECKS:										
5	SURYA	-	-	-	-	0.69	-	13.79	0.75	
6	X - 3342	-	-	-	-	52.33	15.11	52.54	39.64	
7	KIRAN	-	-	-	-	-	-	-	-	
8	MAHI KANCHAN	-	-	-	-	14.98	-	-	-	
9	HIM - 129	-	-	-	-	21.02	-	27.31	6.42	

Sl NO	PEDIGREE	GRAIN YIELD		% KANG	SUPERIORITY		OVER THE HIM - 129			Zn 1 MEAN
		MAHI KANCHAN ALMO	BAJA		ZN 1 MEAN	ALMO	BAJA	KANG		
1	B I O - 92109	57.38	82.12	59.13	64.04	49.53	72.99	12.15	46.32	
2	SEEDTEC - 1204	61.10	88.18	74.99	70.62	53.06	78.74	23.33	52.19	
3	P A C - 70001	28.86	100.15	42.09	49.57	22.43	90.12	0.14	33.41	
4	F H - 3176	35.06	16.53	54.37	33.93	28.32	10.69	8.80	19.46	
CHECKS:										
5	SURYA	-	31.45	26.82	6.13	-	24.86	-	-	
6	X - 3342	32.48	62.21	70.02	47.10	25.87	54.08	19.82	31.21	
7	KIRAN	-	40.92	11.45	5.35	-	33.85	-	-	
8	MAHI KANCHAN	-	-	-	-	-	-	-	-	
9	HIM - 129	5.25	5.28	41.89	12.11	-	-	-	-	

TABLE NO. 26 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK				
		ALMO	BAJA	KANG	ALMO	BAJA	KANG	ALMO	BAJA	KANG	ZN 1 MEAN	
1	B I O - 92109	55.3	69.3	47.0	56.3	73.7	50.5	60.1	100.0	108.0	86.3	98.1
2	SEEDTEC - 1204	55.5	71.0	49.0	56.5	73.7	52.0	60.7	106.0	111.7	85.8	101.1
3	P A C - 70001	55.0	67.3	46.0	56.0	72.0	49.8	59.3	99.0	108.7	85.3	97.6
4	F H - 3176	50.0	64.7	44.5	51.0	68.3	48.3	55.9	96.3	109.7	85.5	97.1
CHECKS:												
5	SURYA	49.0	65.3	45.3	50.0	69.0	49.3	56.1	92.5	110.0	84.3	95.6
6	X - 3342	52.5	70.3	46.0	54.0	73.3	49.8	59.0	98.5	111.3	85.0	98.3
7	KIRAN	55.3	70.7	47.3	56.5	73.7	50.5	60.2	101.8	110.3	82.3	98.1
8	MAHI KANCHAN	52.3	65.0	45.0	53.3	72.0	48.5	57.9	97.0	109.0	87.5	97.8
9	HIM - 129	48.5	64.0	43.8	49.5	68.7	47.8	55.3	92.0	109.7	83.5	95.1
MEAN LOCATION												
		52.6	67.5	46.0	53.7	71.6	49.6	58.3	98.1	109.8	85.0	97.7
	C.D. AT 5% =	0.9	1.9	1.9	1.0	2.3	1.6	1.6	1.1	2.1	1.5	1.6
	C.V. % =	1.1	1.6	2.9	1.3	1.9	2.2	-	0.8	1.1	1.2	-
	F (Prob)	.000	.000	.000	.000	.000	.000	-	.000	.039	.000	-

S1 NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *				
		ALMO	BAJA	KANG	ALMO	BAJA	KANG	ALMO	BAJA	KANG	ZN 1 MEAN	
1	B I O - 92109	33.5	21.0	23.9	2.3	2.3	2.3	2.3	2.2	2.3	2.5	2.4
2	SEEDTEC - 1204	36.7	20.0	25.1	2.3	2.5	2.0	2.3	2.1	2.3	2.5	2.3
3	P A C - 70001	36.5	22.3	25.2	2.4	2.5	2.0	2.3	2.5	2.3	2.3	2.4
4	F H - 3176	31.8	19.4	24.0	2.4	2.8	2.5	2.6	2.3	2.7	2.8	2.6
CHECKS:												
5	SURYA	27.3	20.0	24.5	2.7	3.0	2.5	2.7	2.8	3.0	2.8	2.9
6	X - 3342	32.0	20.6	24.4	2.5	2.7	2.5	2.5	2.5	2.5	2.0	2.3
7	KIRAN	31.9	20.5	25.7	2.6	2.7	2.3	2.5	2.8	2.7	2.8	2.7
8	MAHI KANCHAN	30.5	16.8	26.5	2.7	3.0	2.8	2.8	2.7	3.0	2.0	2.6
9	HIM - 129	31.1	19.5	23.9	2.7	3.0	2.8	2.8	2.5	3.0	2.3	2.6
MEAN LOCATION												
		32.4	20.0	24.8	2.5	2.7	2.4	2.5	2.5	2.6	2.4	2.5
	C.D. AT 5% =	1.4	2.4	2.3	0.2	0.4	0.8	0.5	0.2	0.4	0.9	0.5
	C.V. % =	2.9	7.0	6.4	6.0	9.2	24.3	-	4.7	8.5	25.7	-
	F (Prob)	.000	.020	.288	.011	.029	.499	-	.000	.003	.478	-

TABLE NO. 26 (CONT.)

SL NO	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 1	
		ALMO	BAJA	MEAN	ALMO	BAJA	MEAN	ALMO	BAJA	KANG	ALMO	MEAN
1	B I O - 92109	2.3	2.3	2.3	2.3	2.3	2.3	259	158	220	212	
2	SEEDTEC - 1204	2.2	2.0	2.1	2.4	2.3	2.4	250	152	226	209	
3	P A C - 70001	2.2	2.0	2.1	2.3	1.8	2.1	239	166	211	205	
4	F H - 3176	2.2	2.5	2.4	2.3	2.5	2.4	221	140	195	186	
CHECKS:												
5	SURYA	2.2	2.5	2.4	2.8	3.0	2.9	220	127	199	182	
6	X - 3342	2.0	2.2	2.1	2.4	2.5	2.5	215	149	225	196	
7	KIRAN	2.2	2.3	2.2	2.8	2.8	2.8	223	146	230	199	
8	MAHI KANCHAN	2.3	2.3	2.3	2.7	3.0	2.8	229	135	224	196	
9	HIM - 129	2.2	2.5	2.3	2.5	2.2	2.3	204	112	195	170	
MEAN LOCATION												
	C.D. AT 5%	0.2	0.4	0.3	0.2	0.5	0.4	8.5	17.2	19.6	15.1	
	C.V. %	6.9	9.8	-	5.6	12.0	-	2.5	6.9	6.3	-	
	F (Prob)	.181	.068	-	.000	.003	-	.000	.000	.002	-	

SL NO	PEDIGREE	EAR HEIGHT (cm)			EAR NO. PLANT			H. turcicum *			ZN 1	
		ALMO	BAJA	MEAN	ALMO	BAJA	MEAN	ALMO	BAJA	KANG	ALMO	MEAN
1	B I O - 92109	120	60	99	93	1.01	1.05	1.6	1.3	1.5	1.5	
2	SEEDTEC - 1204	115	55	108	93	1.01	0.99	1.7	1.8	1.8	1.8	
3	P A C - 70001	107	50	86	81	1.01	1.09	2.3	1.8	2.1	2.1	
4	F H - 3176	106	50	77	78	1.01	0.99	2.0	2.2	2.1	2.1	
CHECKS:												
5	SURYA	110	55	94	86	1.01	1.03	4.0	2.5	3.2	3.2	
6	X - 3342	111	65	102	93	1.01	0.96	2.1	2.0	2.0	2.0	
7	KIRAN	115	65	114	98	0.98	1.00	4.2	2.8	3.5	3.5	
8	MAHI KANCHAN	115	61	104	93	1.01	1.05	3.9	2.7	3.3	3.3	
9	HIM - 129	102	48	85	78	1.01	1.10	2.0	1.7	1.8	1.8	
MEAN LOCATION												
	C.D. AT 5%	3.9	15.3	11.8	10.3	-	-	2.7	2.1	2.4	2.4	
	C.V. %	2.4	15.6	8.4	-	-	-	0.4	0.7	0.6	0.6	
	F (Prob)	.000	.192	.000	-	-	-	10.2	19.8	-	-	

TABLE NO. 26 (CONT.)

Sl NO PEDIGREE	H.maydis *										
	ALMO		BAJA	KANG	ZN 1 MEAN	PHYSO -DERMA*		STAND		AT HARVEST	
						ALMO		ALMO	BAJA	KANG	ZN 1 MEAN
1 B I O - 92109	1.7	1.7	1.7	3.0	2.1	2.4		78	104	70	84
2 SEEDTEC - 1204	2.5	1.8	2.8	2.8	2.3	2.2		76	85	69	77
3 P A C - 70001	1.8	1.7	2.8	2.1	2.1	1.8		75	96	65	79
4 F H - 3176	1.7	2.0	3.0	2.2	2.2	1.8		78	107	65	83
CHECKS:											
5 SURYA	2.7	1.7	3.8	2.7	2.7	1.8		74	66	55	65
6 X - 3342	1.9	1.7	2.5	2.0	2.0	1.9		77	100	69	82
7 KIRAN	2.5	1.8	2.5	2.3	2.3	1.9		75	78	61	71
8 MAHI KANCHAN	2.7	2.0	4.0	2.9	2.9	2.1		71	59	63	64
9 HIM - 129	1.8	2.0	3.3	2.4	2.4	1.9		76	79	69	75
MEAN LOCATION											
C.D. AT 5%	0.2	0.4	0.9	0.5	0.5	0.2		3.7	10.6	11.1	8.5
C.V. %	7.8	11.6	19.4	-	-	7.8		3.3	7.1	11.7	-
F (Prob)	.000	.192	.014	-	-	.000		.015	.000	.189	-

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

TABLE NO. 27

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA (SET1), LUDHIANA (SET2), KARNAL, MAINPURI IN AET 2nd YEAR, ZONE - 2, TRIAL NO. TR71Z2 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											
		DELH		SET1		SET2		KARN		MAIN		ZIN	
		R	R	R	R	R	R	R	R	R	R	R	R
1	SEEDTEC - 1205	4477	2	5620	2	2506	2	4169	2	3267	4	4008	2
CHECKS:													
2	SURYA	3110	4	4544	3	1761	4	4156	3	3295	3	3373	4
3	X - 3342	4679	1	7675	1	3527	1	5617	1	3328	2	4965	1
4	HIM - 129	3402	3	4445	4	2103	3	3586	4	3394	1	3386	3
	MEAN YIELD=	3917		5571		2474		4382		3321		3933	
	MEAN STAND	-		104		103		41		95		86	
	C.D. AT 5%=	1251		604		704		218		226		600	
	C.V. % =	23.17		8.97		23.54		2.57		5.63		-	
	F (Prob)	.044		.000		.000		.000		.737		-	
	PLOT SIZE=	22.50		15.60		15.60		11.20		15.00		-	
AGRONOMY DATA:													
	SOWING DATE(2003)	8-07		9-07		14-07		30-06		18-07		-	
	HARVEST DATE(2003)	21-10		17-10		14-10		1-10		13-10		-	
	IRRIGATION Nos	-		-		-		3		120		-	
	FERTILIZER APPLIED N	170		80		80		150		60		-	
	P	80		40		40		60		60		-	
	K	40		-		-		-		-		-	

TABLE NO. 27 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SURYA					ZN 2 MEAN
	DELH	SET1 LUD1	SET2 LUD2	KARN	MAIN	
1 SEEDTEC - 1205	43.95	23.69	42.34	0.30	-	18.81
CHECKS:						
2 SURYA	-	-	-	-	-	-
3 X - 3342	50.44	68.91	100.30	35.15	1.01	47.20
4 HIM - 129	9.37	-	19.48	-	3.01	0.38

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE X - 3342					ZN 2 MEAN
	DELH	SET1 LUD1	SET2 LUD2	KARN	MAIN	
1 SEEDTEC - 1205	-	-	-	-	-	-
CHECKS:						
2 SURYA	-	-	-	-	-	-
3 X - 3342	-	-	-	-	-	-
4 HIM - 129	-	-	-	-	1.98	-

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HIM - 129					ZN 2 MEAN
	DELH	SET1 LUD1	SET2 LUD2	KARN	MAIN	
1 SEEDTEC - 1205	31.62	26.43	19.14	16.27	-	18.36
CHECKS:						
2 SURYA	-	2.22	-	15.92	-	-
3 X - 3342	37.55	72.65	67.65	56.66	-	46.64
4 HIM - 129	-	-	-	-	-	-

TABLE NO. 27 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				Zn 2			
	DELH	SET1 LUD1	SET2 LUD2	KARN MAIN	DELH	SET1 LUD1	SET2 LUD2	KARN MAIN	DELH	MAIN	MEAN	MEAN
1 SEEDTEC - 1205	45.4	43.5	48.8	47.3	47.1	44.3	50.5	49.3	47.2	56.3	49.5	49.5
CHECKS:												
2 SURYA	42.8	41.3	46.5	45.3	45.2	42.8	48.3	48.0	45.6	55.7	48.1	48.1
3 X - 3342	46.6	44.0	49.3	47.7	47.7	44.8	51.3	50.7	48.6	55.7	50.2	50.2
4 HIM - 129	42.4	40.5	44.8	42.7	43.8	41.5	46.5	45.3	45.0	54.8	46.6	46.6
MEAN LOCATION	44.3	42.3	47.4	45.8	45.9	43.4	49.2	48.3	46.6	55.6	48.6	48.6
C.D. AT 5%	1.2	1.0	1.1	1.2	1.2	0.6	1.3	1.1	1.0	1.6	1.1	1.1
C.V. %	2.0	1.8	1.9	1.3	-	1.2	2.2	1.1	1.5	2.3	-	-
F (Prob)	.000	.000	.000	.000	.027	.000	.000	.000	.000	.285	-	-

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT ASPECT *					
	SET1 LUD1	SET2 LUD2	KARN MAIN	ZN 2 MEAN	DELH	SET1 LUD1	SET2 LUD2	KARN MAIN	DELH	MAIN	MEAN	DELH	MAIN	MEAN
1 SEEDTEC - 1205	76.7	78.7	85.0	79.7	80.0	22.6	21.9	21.8	16.0	20.6	20.6	2.0	2.6	2.3
CHECKS:														
2 SURYA	72.7	74.2	81.0	79.5	76.8	23.6	21.3	21.3	15.5	20.4	20.4	2.5	2.6	2.5
3 X - 3342	75.7	78.0	84.0	78.3	79.0	17.5	21.6	22.1	15.7	19.2	19.2	2.0	2.5	2.3
4 HIM - 129	71.7	74.7	83.3	78.3	77.0	15.6	21.2	21.8	15.5	18.5	18.5	2.4	2.8	2.6
MEAN LOCATION	74.2	76.4	83.3	79.0	78.2	19.8	21.5	21.7	15.7	19.7	19.7	2.2	2.6	2.4
C.D. AT 5%	1.1	1.7	1.5	2.2	1.6	1.7	0.3	0.2	0.8	0.8	0.8	0.4	0.4	0.4
C.V. %	1.2	1.8	0.9	2.2	-	6.3	1.3	0.8	4.2	-	-	13.1	13.0	-
F (Prob)	.000	.000	.003	.420	-	.000	.001	.000	.529	-	-	.033	.391	-

TABLE NO. 27 (CONT.)

S1 NO PEDIGREE	EAR ASPECT *				HUSK COV.* MAIN	UNIFO. * MAIN		PLANT HEIGHT (cm)				ZIN 2 MEAN	
	DELH	MAIN	ZN 2 MEAN	DELH		DELH	SET1 LUD1	SET2 LUD2	KARN	MAIN	SET1 LUD1	SET2 LUD2	KARN
1 SEEDTEC - 1205	2.2	2.8	2.5	2.6	2.6	2.6	2.6	215	190	115	203	133	171
CHECKS:													
2 SURYA	2.7	2.8	2.8	2.5	2.5	2.8	2.8	193	183	119	182	129	161
3 X - 3342	2.0	2.3	2.2	2.6	2.6	2.2	2.6	215	208	141	220	139	185
4 HIM - 129	2.5	2.8	2.6	3.0	3.0	2.6	2.8	175	177	117	183	131	157
MEAN LOCATION	2.3	2.7	2.5	2.7	2.7	2.5	2.7	199	189	123	197	133	168
C.D. AT 5% =	0.2	0.3	0.3	0.4	0.4	0.3	0.5	9.2	15.7	19.7	9.0	11.7	13.1
C.V. % =	6.7	10.6	-	13.1	13.1	-	14.4	3.3	6.7	13.0	2.3	7.1	-
F (Prob)	.000	.033	-	.099	.099	-	.771	.000	.005	.046	.000	.317	-

S1 NO PEDIGREE	EAR HEIGHT (cm)				KARN	MAIN	ZIN 2 MEAN	EAR NO./PLANT				STAND AT HARVEST			
	DELH	SET1 LUD1	SET2 LUD2	DELH				SET1 LUD1	SET2 LUD2	KARN	MAIN	ZIN 2 MEAN	SET1 LUD1	SET2 LUD2	KARN
1 SEEDTEC - 1205	105	111	54	113	113	61	89	1.00	0.87	102	100	41	96		
CHECKS:															
2 SURYA	93	103	51	90	90	65	80	0.98	0.86	103	101	38	94		
3 X - 3342	110	114	66	125	125	70	97	1.02	0.94	112	112	46	96		
4 HIM - 129	78	97	50	92	92	60	75	1.01	0.86	99	97	38	94		
MEAN LOCATION	96	106	55	105	105	64	85	-	-	104	103	41	95		
C.D. AT 5% =	3.1	13.5	15.1	8.0	8.0	8.7	9.7	-	-	8.7	7.0	2.0	3.5		
C.V. % =	2.4	10.3	22.3	3.8	3.8	11.0	-	-	-	6.8	5.5	2.5	3.0		
F (Prob)	.000	.061	.141	.000	.000	.067	-	-	-	.030	.002	.000	.405		

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

TABLE NO. 28

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI, PROAGRO MUZAFFARPUR, RANCHI, JASHIPUR, AMBIKAPUR IN AET 2nd YEAR, ZONE III, TRIAL NO. TR71Z3 DURING KHARIF (2003).

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3			
		GORA				MUZA				RANCHI				AMBI		R	
		BELI	VARA	R	DHOL	R	PROA	R	RANC	R	JASH	R	AMBI	R	MEAN	R	
1	P R O - 340	5427	1	5391	1	7034	1	6340	1	3103	2	4967	1	5602	1	5409	1
2	F H - 3186	4009	4	4250	3	4731	4	4165	4	2501	4	3573	4	5055	3	4040	4
CHECKS:																	
3	SURYA	3794	5	3210	7	3529	7	3255	6	2176	6	3482	5	3322	7	3252	6
4	X - 3342	5299	2	5222	2	6817	2	6001	2	3779	1	4668	2	5111	2	5271	2
5	KIRAN	4911	3	3668	4	5037	3	4469	3	2603	3	4158	3	3812	5	4094	3
6	MAHI KANCHAN	3043	7	3215	6	3767	6	3070	7	2342	5	3385	7	3395	6	3174	7
7	HIM - 129	3250	6	3648	5	3914	5	3939	5	2122	7	3461	6	4239	4	3510	5
	MEAN YIELD=	4248		4086		4976		4463		2661		3956		4362		4107	
	MEAN STAND	116		111		-		64		43		90		100		87	
	C.D. AT 5%	289		290		669		1120		416		161		1132		582	
	C.V. %	4.61		4.82		9.05		17.02		10.59		2.75		17.60		-	
	F (Prob)	.000		.000		.000		.000		.000		.000		.000		-	
	PLOT SIZE=	18.00		22.50		22.50		10.20		10.50		18.00		18.00		-	
AGRONOMY DATA:																	
	SOWING DATE(2003)	1-07		25-06		1-07		18-06		10-07		11-07		25-06		-	
	HARVEST DATE(2003)	10-10		19-09		20-10		23-09		21-10		20-10		-		-	
	IRRIGATION NOB	-		-		-		-		1		-		-		-	
	FERTILIZER APPLIED N	120		80		100		120		100		120		80		-	
	P	60		40		60		60		60		60		50		-	
	K	60		40		40		40		60		60		30		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (I.e.> 20%) : KUSH 27.2%

TABLE NO. 28 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE KIRAN											
Sl NO	PEDIGREE	GORA		VARA	DHOL	MUZA		RANC	JASH	AMBI	ZN 3 MEAN
		BELI	10.51			PROA	PROA				
1	P R O - 340	10.51	47.00	39.66	41.85	19.22	19.46	46.94	32.13		
2	F H - 3186	-	15.89	-	-	-	-	32.59	-		
CHECKS:											
3	SURYA	-	-	-	-	-	-	-	-	-	-
4	X - 3342	7.90	42.39	35.34	34.27	45.19	12.27	34.05	28.75		
5	KIRAN	-	-	-	-	-	-	-	-		
6	MAHI KANCHAN	-	-	-	-	-	-	-	-		
7	HIM - 129	-	-	-	-	-	-	11.19	-		

GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN											
Sl NO	PEDIGREE	GORA		VARA	DHOL	MUZA		RANC	JASH	AMBI	ZN 3 MEAN
		BELI	78.35			PROA	PROA				
1	P R O - 340	78.35	67.71	86.73	106.48	32.50	46.75	65.00	70.43		
2	F H - 3186	31.73	32.21	25.57	35.65	6.79	5.55	48.89	27.30		
CHECKS:											
3	SURYA	24.66	-	-	6.01	-	2.88	-	2.48		
4	X - 3342	74.14	62.46	80.95	95.46	61.36	37.93	50.53	66.08		
5	KIRAN	61.39	14.09	33.70	45.56	11.14	22.85	12.29	28.99		
6	MAHI KANCHAN	-	-	-	-	-	-	-	-		
7	HIM - 129	6.80	13.48	3.89	28.28	-	2.26	24.86	10.60		

TABLE NO. 28 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HIM - 129										ZN 3 MEAN
	GORA BELI	VARA	DHOL	MUZA PROA	RANC	JASH	AMBI				
1 P R O - 340	66.99	47.79	79.73	60.96	46.25	43.51	32.15				54.09
2 F H - 3186	23.34	16.50	20.87	5.74	17.87	3.22	19.25				15.10
CHECKS:											
3 SURYA	16.72	-	-	-	2.56	0.60	-				-
4 X - 3342	63.05	43.15	74.18	52.36	78.11	34.87	20.56				50.16
5 KIRAN	51.11	0.53	28.69	13.47	22.67	20.13	-				16.63
6 MAHI KANCHAN	-	-	-	-	10.38	-	-				-
7 HIM - 129	-	-	-	-	-	-	-				-

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 3 MEAN
	GORA BELI	VARA	DHOL	MUZA PROA	RANC	JASH	AMBI				
1 P R O - 340	50.8	44.3	47.3	52.3	46.3	42.0	44.8				46.8
2 F H - 3186	44.5	41.3	44.5	48.3	43.8	38.0	41.0				43.0
CHECKS:											
3 SURYA	45.5	41.5	49.3	50.0	46.3	42.3	45.8				45.8
4 X - 3342	49.5	44.0	49.0	52.5	46.0	44.0	44.3				47.0
5 KIRAN	46.3	44.3	49.3	52.5	45.5	47.5	47.8				47.6
6 MAHI KANCHAN	47.0	44.3	48.5	53.0	45.0	45.0	46.0				47.0
7 HIM - 129	42.8	40.3	44.5	47.8	46.0	40.3	39.0				42.9
MEAN LOCATION											
C.D. AT 5% =	1.8	0.8	2.8	1.1	1.4	2.7	2.3				1.8
C.V. % =	2.6	1.3	4.0	1.4	2.0	4.2	3.6				-
F (Prob)	.000	.000	.003	.000	.011	.000	.000				-

TABLE NO. 28 (CONT.)

SI NO PEDIGREE	DAYS TO 50% SILKING							ZN 3 MEAN
	GORA	MUZA						
	BELI	VARA	DHOL	PROA	RANC	JASH	AMBI	
1 P R O - 340	52.8	47.8	50.3	53.8	49.3	46.0	50.0	50.0
2 F H - 3186	46.8	44.8	47.8	48.8	47.0	41.0	45.0	45.9
CHECKS:								
3 SURYA	48.0	46.0	52.3	51.5	50.5	46.0	49.8	49.1
4 X - 3342	52.0	48.0	52.0	53.0	50.3	47.3	49.5	50.3
5 KIRAN	49.0	49.0	52.3	53.8	49.5	50.5	52.0	50.9
6 MAHI KANCHAN	49.3	47.8	51.3	55.0	48.8	48.5	51.3	50.3
7 HIM - 129	45.3	45.0	47.5	48.5	48.8	43.3	44.0	46.0
MEAN LOCATION	49.0	46.9	50.5	52.0	49.1	46.1	48.8	48.9
C.D. AT 5% =	2.2	1.2	3.0	1.0	1.6	2.2	1.7	1.8
C.V. % =	3.0	1.7	4.0	1.3	2.2	3.2	2.3	-
F (Prob)	.000	.000	.009	.000	.004	.000	.000	-

SI NO PEDIGREE	DAYS TO 50% DRY HUSK							ZN 3 MEAN
	GORA	MUZA						
	BELI	VARA	DHOL	PROA	RANC	JASH	AMBI	
1 P R O - 340	81.3	76.5	66.8	82.3	82.8	82.5	76.8	78.4
2 F H - 3186	76.5	74.0	63.5	79.0	82.0	80.5	77.5	76.1
CHECKS:								
3 SURYA	76.8	74.5	65.5	79.3	83.8	82.3	78.3	77.2
4 X - 3342	79.8	76.5	67.5	81.5	83.3	83.3	78.8	78.6
5 KIRAN	80.0	78.5	66.3	82.8	84.0	83.3	80.5	79.3
6 MAHI KANCHAN	79.5	77.0	67.5	82.8	83.0	80.3	79.0	78.4
7 HIM - 129	75.8	73.3	64.5	77.8	83.0	78.5	77.0	75.7
MEAN LOCATION	78.5	75.8	65.9	80.8	83.1	81.5	78.3	77.7
C.D. AT 5% =	2.6	2.5	1.9	1.1	1.5	2.2	2.0	2.0
C.V. % =	2.2	2.2	1.9	1.0	1.2	1.8	1.7	-
F (Prob)	.001	.003	.002	.000	.166	.002	.011	-

TABLE NO. 28 (CONT.)

S1 NO PEDIGREE	MOISTURE & AT HARVEST				PLANT ASPECT *				ZN 3 MEAN					
	GORA BELI	MUZA VARA	RANC PROA	JASH RANC	GORA BELI	VARA	DHOL	JASH		GORA BELI	VARA	DHOL	JASH	AMBI
1 P R O - 340	22.3	31.4	28.6	21.8	21.5	25.1	2.4	1.3	2.3	1.0	2.8	1.9	2.7	
2 F H - 3186	20.8	30.3	24.4	22.0	20.8	23.7	2.3	1.8	3.3	3.5	2.6	2.7		
CHECKS:														
3 SURYA	19.8	32.0	25.0	22.6	21.3	24.1	2.8	1.8	3.5	3.5	2.5	2.8		
4 X - 3342	22.3	31.4	26.4	26.8	21.2	25.6	2.4	1.3	2.1	1.3	2.5	1.9		
5 KIRAN	20.9	32.8	25.8	25.8	21.5	25.3	2.9	2.5	2.0	3.0	2.5	2.6		
6 MAHI KANCHAN	20.4	28.8	26.4	21.5	20.8	23.6	3.0	2.0	2.9	2.8	2.5	2.6		
7 HIM - 129	20.0	29.8	23.4	24.1	21.5	23.8	2.8	2.5	3.6	3.0	2.7	2.9		
MEAN LOCATION	20.9	30.9	25.7	23.5	21.2	24.5	2.6	1.9	2.8	2.6	2.6	2.5		
C.D. AT 5%	1.1	1.3	2.1	1.0	0.4	1.2	0.4	0.2	1.0	0.6	0.2	0.5		
C.V. %	3.6	2.8	5.5	3.0	1.4	-	11.5	5.9	23.3	14.9	6.3	-		
F (Prob)	.000	.000	.002	.000	.005	-	.015	.000	.007	.000	.284	-		
S1 NO PEDIGREE	EAR ASPECT *				HUSK COVER *				ZN 3 MEAN					
	GORA BELI	VARA	DHOL	JASH	GORA BELI	VARA	DHOL	JASH		GORA BELI	VARA	DHOL	JASH	AMBI
1 P R O - 340	2.6	1.5	2.3	1.0	2.7	2.0	2.0	1.5	1.5	1.0	2.8	1.8	2.3	
2 F H - 3186	2.8	1.5	3.1	3.3	2.6	2.6	1.8	1.8	2.9	2.8	2.6	2.6		
CHECKS:														
3 SURYA	3.0	2.0	3.4	3.8	2.5	2.9	1.5	1.5	2.5	2.8	2.4	2.1		
4 X - 3342	2.1	1.5	2.3	1.3	2.4	1.9	1.6	1.8	1.5	1.8	2.6	1.8		
5 KIRAN	2.1	3.0	3.0	2.3	2.5	2.6	2.1	2.8	2.3	2.8	2.5	2.5		
6 MAHI KANCHAN	3.0	3.0	3.1	3.0	2.2	2.9	2.1	2.5	2.8	2.3	2.4	2.4		
7 HIM - 129	3.1	3.0	3.4	3.3	2.7	3.1	2.3	2.3	2.4	3.3	2.7	2.6		
MEAN LOCATION	2.7	2.2	2.9	2.5	2.5	2.6	1.9	2.0	2.3	2.4	2.6	2.2		
C.D. AT 5%	0.4	0.2	0.6	0.8	0.3	0.5	0.4	0.2	0.5	0.6	0.2	0.4		
C.V. %	11.2	7.0	14.0	22.1	6.8	-	14.9	5.5	14.2	17.9	6.3	-		
F (Prob)	.000	.000	.002	.000	.003	-	.010	.000	.000	.000	.020	-		

TABLE NO. 28 (CONT.)

S1 NO PEDIGREE	UNIFORMITY *				PLANT HEIGHT (cm)								ZN 3 MEAN
	GORA BELI	VARA	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	PROA	RANC	JASH	AMBI	
1 P R O - 340	1.9	1.5	1.8	2.7	2.0	180	257	172	253	163	155	229	201
2 F H - 3186	1.5	1.5	3.3	2.7	2.2	163	235	147	218	152	143	203	180
CHECKS:													
3 SURYA	2.6	1.8	3.0	2.7	2.5	175	240	170	236	156	150	208	190
4 X - 3342	2.1	1.5	2.0	2.5	2.0	186	261	164	244	169	174	218	202
5 KIRAN	2.5	1.5	2.5	2.5	2.3	198	251	165	252	168	160	226	203
6 MAHI KANCHAN	3.1	2.0	2.5	2.3	2.5	174	245	167	241	157	156	219	194
7 HIM - 129	2.3	1.5	3.5	2.7	2.5	155	217	145	222	153	141	195	175
MEAN LOCATION	2.3	1.6	2.6	2.6	2.3	176	244	161	238	160	154	214	192
C.D. AT 5%	0.2	0.1	1.0	0.2	0.4	14.8	19.8	17.5	8.0	10.2	6.0	13.5	12.8
C.V. %	7.3	4.8	25.3	6.3	-	5.7	5.5	7.3	2.3	4.3	2.6	4.2	-
F (Prob)	.000	.000	.014	.037	-	.000	.003	.019	.000	.009	.000	.000	-

S1 NO PEDIGREE	EAR HEIGHT (cm)				MUZA								ZN 3 MEAN
	GORA BELI	VARA	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	PROA	RANC	JASH	AMBI	
1 P R O - 340	82	100	89	70	97	70	62	74	82	70	62	74	82
2 F H - 3186	71	78	70	77	77	64	51	63	68	64	51	63	68
CHECKS:													
3 SURYA	72	94	84	84	99	68	61	72	78	68	61	72	78
4 X - 3342	98	110	87	87	106	72	74	82	90	72	74	82	90
5 KIRAN	90	114	85	85	107	73	67	86	89	73	67	86	89
6 MAHI KANCHAN	88	104	83	83	106	68	60	81	84	68	60	81	84
7 HIM - 129	73	93	72	72	93	64	53	61	72	64	53	61	72
MEAN LOCATION	82	99	81	81	98	68	61	74	80	68	61	74	80
C.D. AT 5%	14.4	14.1	15.8	15.8	6.0	6.3	3.2	10.6	10.1	6.3	3.2	10.6	10.1
C.V. %	11.9	9.6	13.1	13.1	4.1	5.2	3.5	9.6	-	5.2	3.5	9.6	-
F (Prob)	.005	.001	.117	.117	.000	.035	.000	.000	.000	.035	.000	.000	.000

TABLE NO. 28 (CONT.)

S1 NO	PEDIGREE	EAR NO. / PLANT						Zn 3 MEAN
		GORA BELI	VARA	MUZA PROA	RANC	JASH	AMBI	
1	P R O - 340	0.98	0.96	1.01	0.99	1.00	1.01	0.99
2	F H - 3186	1.00	0.92	1.00	0.97	1.00	1.03	0.99
	CHECKS:							
3	SURYA	0.99	0.94	1.02	0.98	1.00	1.02	0.99
4	X - 3342	0.97	0.94	0.97	1.00	1.00	1.03	0.98
5	KIRAN	0.99	0.95	0.99	0.97	1.01	1.16	1.01
6	MAHI KANCHAN	0.98	0.96	1.00	1.01	1.00	1.00	0.99
7	HIM - 129	0.97	0.93	0.99	1.01	1.01	1.04	0.99
	MEAN LOCATION	-	-	-	-	-	-	-
	C.D. AT 5% =	-	-	-	-	-	-	-
	C.V. % =	-	-	-	-	-	-	-
	F (Prob)	-	-	-	-	-	-	-
STAND AT HARVEST								
S1 NO	PEDIGREE	GORA			MUZA			Zn 3 MEAN
		BELI	VARA	PROA	RANC	JASH	AMBI	
1	P R O - 340	117	113	67	48	94	121	93
2	F H - 3186	119	112	67	40	86	117	90
	CHECKS:							
3	SURYA	116	104	66	44	91	85	84
4	X - 3342	118	111	66	51	97	114	93
5	KIRAN	117	113	66	44	93	84	86
6	MAHI KANCHAN	111	107	54	31	82	81	77
7	HIM - 129	114	115	66	45	85	96	87
	MEAN LOCATION	116	111	64	43	90	100	87
	C.D. AT 5% =	7.0	7.1	3.8	7.0	7.9	22.3	9.2
	C.V. % =	4.0	4.3	4.0	10.9	5.9	15.0	-
	F (Prob)	.289	.051	.000	.000	.008	.003	-

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

TABLE NO. 29

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT KARIMNAGAR, ARBHAVI (1), ARBHAVI (2), MANDYA, COIMBATORE, KOLHAPUR IN AET 2nd YEAR, TRIAL No. TR71Z4 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4		
		KARI	R	ARB1	R	ARB2	R	MAND	R	COIM	R	KOLH	R	MEAN	R	
1	B I O - 92109	4646	2	8029	2	9528	1	6048	5	4317	3	6172	4	6457	2	
2	B I O - 92136	5717	1	8597	1	6399	5	7478	1	4795	1	12451	1	7573	1	
3	SEEDTEC - 1202	4518	3	7813	3	7642	2	7121	2	3951	5	6366	3	6235	3	
4	P A C - 70001	4435	4	6726	5	7081	3	6408	4	4044	4	3391	10	5347	5	
5	F H - 3186	3617	8	6497	7	6588	4	5365	7	2851	8	4102	8	4837	7	
6	F H - 3176	4352	5	6671	6	5891	7	6779	3	2873	7	4181	7	5124	6	
CHECKS:																
7	SURYA	2587	11	5374	9	3649	11	4135	8	2247	11	3238	11	3538	11	
8	X - 3342	4350	6	6993	4	6127	6	-	-	4324	2	7722	2	5903	4	
9	KIRAN	3402	9	5330	10	5024	8	-	-	2460	9	4394	6	4122	10	
10	MAHI KANCHAN	3959	7	5622	8	4492	10	5570	6	2274	10	3613	9	4255	9	
11	HIM - 129	3319	10	5184	11	4940	9	4093	9	3070	6	4948	5	4259	8	
	MEAN YIELD=	4082		6622		6124		4818		3382		5507		5089		
	MEAN STAND	103		131		117		73		78		136		106		
	C.D. AT 5%	636		1044		1042		1580		598		2525		1238		
	C.V. %	10.82		10.95		11.81		15.57		12.28		20.57		-		
	F (Prob)	.000		.000		.000		.001		.000		.001		-		
	PLOT SIZE=	18.00		22.50		22.50		17.50		14.40		18.00		-		
AGRONOMY DATA:																
	SOWING DATE(2003)	16-07		9-07		6-09		3-08		19-06		10-07		-		
	HARVEST DATE(2003)	22-10		5-11		14-01		6-12		6-10		18-10		-		
	IRRIGATION NOS	1		8		150		8		7		-		-		
	FERTILIZER APPLIED N	150		150		75		150		135		100		-		
	P	60		75		38		75		63		50		-		
	K	40		38		-		40		50		30		-		

TABLE NO. 29 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN						ZN 4 MEAN
	KARI	ARB1	ARB2	MAND	COIM	KOLH	
1 B I O - 92109	36.56	50.64	89.65	-	75.48	40.47	56.64
2 B I O - 92136	68.05	61.30	27.36	-	94.90	183.37	83.71
3 SEEDTEC - 1202	32.81	46.58	52.11	-	60.61	44.89	51.26
4 P A C - 70001	30.37	26.18	40.93	-	64.39	-	29.72
5 F H - 3186	6.33	21.90	31.13	-	15.90	-	17.34
6 F H - 3176	27.92	25.16	17.25	-	16.77	-	24.32
CHECKS:							
7 SURYA	-	0.83	-	-	-	-	-
8 X - 3342	27.86	31.21	21.94	-	75.79	75.74	43.21
9 KIRAN	-	-	-	-	-	-	-
10 MAHI KANCHAN	16.39	5.47	-	-	-	-	3.22
11 HIM - 129	-	-	-	-	24.80	12.60	3.33
S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN						ZN 4 MEAN
	KARI	ARB1	ARB2	MAND	COIM	KOLH	
1 B I O - 92109	17.33	42.82	112.12	8.57	89.84	70.85	51.74
2 B I O - 92136	44.38	52.93	42.45	34.25	110.85	244.65	77.98
3 SEEDTEC - 1202	14.11	38.97	70.13	27.84	73.76	76.22	46.54
4 P A C - 70001	12.01	19.63	57.63	15.04	77.85	-	25.67
5 F H - 3186	-	15.57	46.67	-	25.39	13.54	13.68
6 F H - 3176	9.90	18.67	31.15	21.71	26.33	15.74	20.43
CHECKS:							
7 SURYA	-	-	-	-	-	-	-
8 X - 3342	9.85	24.40	36.39	-	90.18	113.75	38.74
9 KIRAN	-	-	11.85	-	8.19	21.63	-
10 MAHI KANCHAN	-	-	-	-	-	-	-
11 HIM - 129	-	-	9.98	-	35.02	36.96	0.10

TABLE NO. 29 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE HIM - 129												
S1 NO	PEDIGREE	KARI	ARB1	ARB2	MAND	COIM	KOLH	ZN 4 MEAN	DAYS TO 50% POLLEN SHED		ARB2	
									KARI	ARB1		
1	B I O - 92109	39.97	54.87	92.88	47.74	40.61	24.75	51.59	43.5	57.0	54.0	
2	B I O - 92136	72.24	65.83	29.53	82.68	56.17	151.65	77.80	43.0	55.5	54.3	
3	SEEDTEC - 1202	36.12	50.69	54.70	73.95	28.70	28.67	46.39	44.3	56.5	53.3	
4	P A C - 70001	33.61	29.73	43.33	56.53	31.72	-	25.55	42.5	54.3	51.0	
5	F H - 3186	8.98	25.32	33.36	31.07	-	-	13.56	42.5	50.5	47.5	
6	F H - 3176	31.10	28.68	19.25	65.61	-	-	20.31	42.3	52.0	48.5	
CHECKS:												
7	SURYA	-	3.66	-	1.01	-	-	-	42.3	51.8	48.5	
8	X - 3342	31.04	34.89	24.02	-	40.85	56.07	38.60	43.3	54.0	50.3	
9	KIRAN	2.49	2.81	1.70	-	-	-	-	43.8	56.0	52.0	
10	MAHI KANCHAN	19.29	8.44	-	36.07	-	-	-	45.5	54.3	50.3	
11	HIM - 129	-	-	-	-	-	-	-	41.8	51.0	47.0	
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												

DAYS TO 50% SILKING												
S1 NO	PEDIGREE	MAND	COIM	KOLH	ZN 4 MEAN	KARI	ARB1	ARB2	MAND	COIM	KOLH	ZN 4 MEAN
2	B I O - 92136	46.7	48.8	54.0	50.4	46.0	56.8	55.0	49.0	53.0	56.0	52.6
3	SEEDTEC - 1202	47.3	48.3	55.0	50.8	47.8	56.3	52.8	47.7	51.3	56.0	51.9
4	P A C - 70001	46.3	47.8	51.0	48.8	45.0	55.5	52.3	47.0	50.8	54.0	50.8
5	F H - 3186	42.7	47.0	48.5	46.4	44.8	50.8	46.5	43.3	50.0	51.0	47.7
6	F H - 3176	43.3	48.0	48.0	47.0	44.8	52.3	47.5	44.7	51.0	50.0	48.4
CHECKS:												
7	SURYA	43.0	45.5	49.0	46.7	44.5	53.8	49.8	45.0	49.5	51.0	48.9
8	X - 3342	-	47.3	51.0	49.2	45.5	55.3	51.3	-	50.3	54.0	51.3
9	KIRAN	-	47.8	51.0	50.1	47.0	58.3	54.3	-	50.8	54.0	52.8
10	MAHI KANCHAN	44.0	48.5	51.0	48.9	44.0	56.5	52.0	46.3	51.5	53.5	51.1
11	HIM - 129	42.0	47.5	47.0	46.0	44.0	51.5	47.3	42.3	50.5	48.0	47.3
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												

TABLE NO. 29 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT ASPECT *			
		KARI	MAND	COIM	KOLH	ZN 4 MEAN	ARB1	ARB2	MAND	ZN 4 MEAN	KARI	ARB1	ARB2
1	B I O - 92109	84.8	86.3	93.3	85.0	87.3	23.4	22.3	19.1	21.6	2.3	2.3	2.3
2	B I O - 92136	84.0	90.0	94.8	89.0	89.4	20.6	24.0	19.3	21.3	2.3	2.3	2.5
3	SEEDTEC - 1202	83.0	89.3	92.5	86.5	87.8	19.6	25.8	18.3	21.2	2.5	2.0	2.3
4	P A C - 70001	82.5	85.3	92.8	85.5	86.5	18.5	23.8	20.1	20.8	3.0	2.3	2.3
5	F H - 3186	81.0	87.0	90.8	80.0	84.7	16.4	18.8	18.4	17.9	2.8	2.5	2.5
6	F H - 3176	81.5	84.7	92.5	80.5	84.8	17.6	20.4	18.4	18.8	2.8	2.5	2.8
CHECKS:													
7	SURYA	79.5	83.7	90.8	80.0	83.5	17.3	20.4	18.7	18.8	3.5	3.0	3.0
8	X - 3342	82.3	-	91.3	85.0	86.2	23.9	18.8	-	21.3	2.5	2.5	3.0
9	KIRAN	81.8	-	91.8	85.5	86.3	20.7	18.5	-	19.6	3.0	3.0	3.0
10	MAHI KANCHAN	82.0	85.0	92.8	80.0	84.9	16.7	16.4	18.9	17.3	3.5	3.0	3.0
11	HIM - 129	80.3	83.7	92.5	80.5	84.2	23.4	17.3	20.1	20.3	3.8	2.8	3.0
MEAN LOCATION													
		82.0	86.1	92.3	83.4	86.0	19.8	20.6	19.0	19.8	2.9	2.5	2.7
	C.D. AT 5%	1.2	3.2	1.1	6.8	3.1	3.1	2.7	2.5	2.8	0.7	0.1	0.1
	C.V. %	1.0	2.1	0.8	3.7	-	10.8	9.1	7.7	-	17.7	4.0	3.8
	F (Prob)	.000	.004	.000	.103	-	.000	.000	.686	-	.001	.000	.000

S1 NO	PEDIGREE	PLANT ASPECT *				EAR ASPECT *				ZIN 4			
		MAND	COIM	KOLH	ZN 4 MEAN	KARI	ARB1	ARB2	MAND	COIM	KOLH	ZN 4 MEAN	
1	B I O - 92109	2.3	1.0	2.3	2.1	3.0	2.0	2.3	3.3	1.0	2.0	2.3	
2	B I O - 92136	1.7	1.0	1.5	1.9	2.3	2.0	2.8	2.3	1.0	2.0	2.1	
3	SEEDTEC - 1202	2.0	2.0	1.8	2.1	1.8	2.3	2.0	2.0	2.0	2.0	2.0	
4	P A C - 70001	1.7	2.0	2.3	2.2	2.5	2.3	2.3	2.3	2.0	2.0	2.2	
5	F H - 3186	2.3	3.0	2.3	2.6	2.5	2.8	2.3	2.0	3.0	2.0	2.4	
6	F H - 3176	2.0	3.0	2.3	2.5	2.0	2.5	2.5	2.3	3.0	2.0	2.4	
CHECKS:													
7	SURYA	2.3	4.0	3.0	3.1	3.0	3.0	2.8	2.3	4.0	2.3	2.9	
8	X - 3342	-	3.9	2.5	3.1	1.5	2.3	2.5	-	2.0	2.3	2.1	
9	KIRAN	-	4.0	3.0	3.1	2.5	2.8	2.8	-	3.9	2.3	2.8	
10	MAHI KANCHAN	2.3	3.0	2.0	2.8	2.3	2.5	3.0	2.3	4.0	2.0	2.7	
11	HIM - 129	2.3	3.0	2.3	2.5	2.3	2.5	2.5	3.0	3.0	2.3	2.7	
MEAN LOCATION													
		2.1	2.6	1.1	0.5	0.6	0.2	0.3	2.4	2.6	2.1	2.4	
	C.D. AT 5%	0.9	0.1	1.1	-	18.4	6.2	7.6	1.0	0.1	0.6	0.5	
	C.V. %	25.0	2.9	20.9	-	.000	.000	.000	23.1	2.9	13.7	-	
	F (Prob)	.539	.000	.178	-	.000	.000	.000	.145	.000	.924	-	

TABLE NO. 29 (CONT.)

SI NO	PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 4					
		KARI	ARB1	ARB2	MAND	COIM	KOLH	MEAN	KARI	ARB1	ARB2	MAND	COIM	KOLH	MEAN
1	B I O - 92109	1.3	2.8	2.8	3.0	1.0	2.3	2.2	2.3	2.0	2.3	2.0	2.7	2.0	2.3
2	B I O - 92136	1.3	3.0	2.3	2.0	1.0	1.5	1.8	2.8	2.5	2.8	2.0	2.0	2.0	2.3
3	SEEDTEC - 1202	1.8	2.5	2.5	2.0	2.0	2.1	2.1	3.0	2.0	2.5	2.0	2.3	2.0	2.3
4	P A C - 70001	1.8	2.5	2.0	2.3	2.0	2.3	2.3	2.8	2.3	2.5	2.0	2.0	2.0	2.4
5	F H - 3186	1.5	2.3	2.3	2.0	3.0	2.5	2.3	2.8	2.3	2.5	3.0	2.0	3.0	2.3
6	F H - 3176	1.3	2.8	2.0	2.0	3.0	2.0	2.2	2.0	2.0	2.3	2.0	2.0	3.0	2.3
CHECKS:															
7	SURYA	1.3	3.0	2.8	2.3	3.0	2.8	2.5	3.3	2.5	3.0	3.0	2.3	3.0	2.7
8	X - 3342	1.3	2.5	3.0	-	2.0	2.3	2.2	3.0	2.8	3.0	-	-	1.1	2.3
9	KIRAN	1.8	2.8	3.0	-	3.0	2.3	2.5	3.3	3.0	3.0	-	-	3.0	2.9
10	MAHI KANCHAN	1.8	3.0	2.5	2.7	3.0	2.3	2.5	3.5	2.8	3.0	2.0	2.0	3.0	1.8
11	HIM - 129	1.5	2.8	2.5	2.3	2.0	2.3	2.2	3.0	2.3	3.0	2.0	2.0	3.0	2.5
MEAN LOCATION															
C.D. AT 5%		0.8	0.2	0.3	0.7	0.0	1.0	0.5	0.9	0.2	0.3	0.6	0.1	0.1	1.0
C.V. %		35.6	5.3	8.2	17.5	0.0	19.6	-	22.7	7.0	7.8	16.2	3.1	21.1	-
F (Prob)		.627	.000	.000	.076	.000	.471	-	.100	.000	.000	.246	.000	.907	-

SI NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 4	
		KARI	MAND	COIM	KOLH	MEAN	KARI	MAND	COIM	KOLH	MEAN
1	B I O - 92109	182	185	168	195	182	82	66	66	105	80
2	B I O - 92136	178	196	181	175	182	70	75	83	83	72
3	SEEDTEC - 1202	164	189	139	193	171	79	59	103	77	77
4	P A C - 70001	185	200	160	170	179	71	57	90	69	69
5	F H - 3186	158	169	156	165	162	54	72	75	63	63
6	F H - 3176	167	166	143	165	160	59	60	78	62	62
CHECKS:											
7	SURYA	167	168	162	188	171	62	69	100	74	74
8	X - 3342	167	-	162	198	175	-	80	98	81	81
9	KIRAN	166	-	174	188	176	-	76	100	82	82
10	MAHI KANCHAN	170	195	147	170	171	67	72	90	74	74
11	HIM - 129	156	166	155	178	163	66	70	95	71	71
MEAN LOCATION											
C.D. AT 5%		13.8	18.6	6.4	23.9	15.7	9.2	17.4	3.6	24.2	13.6
C.V. %		5.7	5.9	2.8	6.0	-	10.5	14.8	3.7	11.8	-
F (Prob)		.003	.002	.000	.076	-	.002	.056	.000	.192	-

TABLE NO. 29 (CONT.)

Sl NO	PEDIGREE	EAR NO./PLANT			H. turc.*			STAND AT HARVEST					OV'L MEAN
		KARI	COIM	KOLH	KOLH	KOLH	KARI	ARB1	ARB2	MAND	COIM	KOLH	
1	B I O - 92109	1.01	1.00	0.91	2.5	101	144	135	97	83	137	116	
2	B I O - 92136	0.98	1.00	0.85	1.5	96	105	78	89	84	104	93	
3	SEEDTEC - 1202	1.02	1.00	0.98	2.5	105	134	99	94	87	137	109	
4	P A C - 70001	1.01	1.00	0.82	2.3	112	143	136	100	82	145	120	
5	F H - 3186	0.99	1.00	0.99	2.5	113	136	142	94	75	146	118	
6	F H - 3176	0.99	1.00	1.14	3.0	104	136	147	93	77	143	117	
CHECKS:													
7	SURYA	1.03	1.00	0.99	3.0	101	126	123	77	75	141	107	
8	X - 3342	0.95	1.00	0.99	2.3	106	133	139	-	83	144	121	
9	KIRAN	0.98	1.00	0.97	2.8	103	130	119	-	66	141	112	
10	MAHI KANCHAN	0.97	1.00	1.00	3.0	104	116	88	83	60	122	95	
11	HIM - 129	1.03	1.00	0.94	2.5	91	136	86	80	87	135	102	
MEAN LOCATION													
C.D. AT 5% =		0.1	0.0	0.1	0.8	13.6	13.5	24.6	11.2	5.8	21.0	-	
C.V. % =		7.3	0.5	6.6	14.4	9.2	7.1	14.5	7.2	5.1	6.9	-	
F (Prob)		.836	.885	.029	.052	.105	.000	.000	.004	.000	.027	-	

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

TABLE NO. 30

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, PRATAPGARH, BANSWARA, GODHRA, KHEDEBRAHMA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR71Z5 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 5	
		UDAI	R	PRAT	R	BANS	R	GODH	R	KHED	R	CHHI	R	MEAN	R
1	R - 9803	4697	5	4328	8	4533	2	2490	8	4599	3	4767	9	4236	6
2	B I O - 92136	7510	1	7883	1	1416	9	3001	5	2869	11	8398	1	5180	1
3	SEEDTEC - 1202	6701	3	5313	6	1159	11	3492	1	5385	1	7979	2	5005	3
4	F H - 3161	6801	2	4301	10	3427	4	3179	3	4377	4	5925	4	4668	4
5	E C - 3108	5457	4	6354	3	1805	7	2277	9	4136	5	5640	6	4278	5
6	F H - 3186	2710	10	4539	7	4000	3	3076	4	3847	6	5713	5	3981	7
CHECKS:															
7	SURYA	1864	11	6042	4	1894	6	1737	11	3129	10	4216	11	3147	11
8	X - 3342	3134	7	6464	2	5023	1	3470	2	5036	2	7213	3	5057	2
9	KIRAN	3168	6	5810	5	1295	10	2658	7	3345	8	5338	7	3602	8
10	MAHI KANCHAN	2886	9	4030	11	3368	5	2186	10	3668	7	4227	10	3394	9
11	HIM - 129	3086	8	4322	9	1653	8	2833	6	3345	9	4830	8	3345	10
	MEAN YIELD=	4365		5399		2689		2764		3976		5841		4172	
	MEAN STAND	106		110		60		110		135		109		105	
	C.D. AT 5%=	359		882		637		967		499		525		645	
	C.V. % =	5.72		11.35		16.45		24.30		8.71		6.25		-	
	F (Prob)	.000		.000		.000		.010		.000		.000		-	
	PLOT SIZE=	18.00		18.00		18.00		18.00		18.00		16.80		-	
AGRONOMY DATA:															
	SOWING DATE(2003)	3-07		27-06		3-07		28-06		4-07		27-06		-	
	HARVEST DATE(2003)	14-10		3-10		15-10		17-10		8-10		28-10		-	
	IRRIGATION Nos	-		-		-		-		-		-		-	
	FERTILIZER APPLIED N	90		80		80		100		100		100		-	
	P	60		60		60		50		50		50		-	
	K	-		-		-		-		-		30		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : DOHA 37.9%

TABLE NO. 30 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE SURYA								
S1	NO PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5 MEAN
	1 R - 9803	151.95	-	139.33	43.36	46.97	13.06	34.59
	2 B I O - 92136	302.89	30.47	-	72.78	-	99.19	64.59
	3 SEEDTEC - 1202	259.49	-	-	101.00	72.07	89.23	59.02
	4 F H - 3161	264.83	-	80.92	83.01	39.89	40.52	48.34
	5 E C - 3108	192.77	5.16	-	31.10	32.18	33.76	35.94
	6 F H - 3186	45.39	-	111.17	77.09	22.93	35.50	26.49
	CHECKS:							
	7 SURYA	-	-	-	-	-	-	-
	8 X - 3342	68.13	6.98	165.18	99.78	60.95	71.08	60.68
	9 KIRAN	69.94	-	-	53.01	6.88	26.61	14.46
	10 MAHI KANCHAN	54.81	-	77.80	25.87	17.21	0.24	7.85
	11 HIM - 129	65.52	-	-	63.09	6.88	14.54	6.27
GRAIN YIELD % SUPERIORITY OVER THE X - 3342								
S1	NO PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5 MEAN
	1 R - 9803	49.85	-	-	-	-	-	-
	2 B I O - 92136	139.63	21.96	-	-	-	16.43	2.43
	3 SEEDTEC - 1202	113.81	-	-	0.61	6.91	10.61	-
	4 F H - 3161	116.99	-	-	-	-	-	-
	5 E C - 3108	74.13	-	-	-	-	-	-
	6 F H - 3186	-	-	-	-	-	-	-
	CHECKS:							
	7 SURYA	-	-	-	-	-	-	-
	8 X - 3342	-	-	-	-	-	-	-
	9 KIRAN	1.07	-	-	-	-	-	-
	10 MAHI KANCHAN	-	-	-	-	-	-	-
	11 HIM - 129	-	-	-	-	-	-	-

TABLE NO. 30 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE KIRAN										
SI	NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5	MEAN
	1	R - 9803	48.26	-	249.97	-	37.50	-	17.58	
	2	B I O - 92136	137.08	35.69	9.34	12.92	-	57.32	43.79	
	3	SEEDTEC - 1202	111.54	-	-	31.36	60.99	49.46	38.93	
	4	F H - 3161	114.68	-	164.56	19.60	30.88	10.99	29.59	
	5	E C - 3108	72.28	9.37	39.33	-	23.67	5.65	18.76	
	6	F H - 3186	-	-	208.80	15.73	15.02	7.02	10.51	
		CHECKS:								
	7	SURYA	-	4.00	46.23	-	-	-	-	
	8	X - 3342	-	11.26	287.77	30.56	50.58	35.12	40.38	
	9	KIRAN	-	-	-	-	-	-	-	
	10	MAHI KANCHAN	-	-	160.00	-	9.66	-	-	
	11	HIM - 129	-	-	27.59	6.58	-	-	-	
GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN										
SI	NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5	MEAN
	1	R - 9803	62.75	7.39	34.60	13.90	25.39	12.79	24.80	
	2	B I O - 92136	160.25	95.60	-	37.27	-	98.70	52.61	
	3	SEEDTEC - 1202	132.22	31.83	-	59.69	46.81	88.77	47.45	
	4	F H - 3161	135.66	6.72	1.75	45.40	19.35	40.18	37.54	
	5	E C - 3108	89.12	57.66	-	4.16	12.77	33.43	26.05	
	6	F H - 3186	-	12.61	18.77	40.70	4.88	35.17	17.29	
		CHECKS:								
	7	SURYA	-	49.92	-	-	-	-	-	
	8	X - 3342	8.61	60.39	49.14	58.72	37.32	70.66	48.99	
	9	KIRAN	9.77	44.15	-	21.57	-	26.30	6.13	
	10	MAHI KANCHAN	-	-	-	-	-	-	-	
	11	HIM - 129	6.92	7.23	-	29.57	-	14.26	-	

TABLE NO. 30 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE HIM - 129									
Sl NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5	MEAN
1	R - 9803	52.21	0.14	174.29	-	37.51	-	26.65	
2	B I O - 92136	143.41	82.41	-	5.94	-	73.90	54.88	
3	SEEDTEC - 1202	117.19	22.94	-	23.25	61.00	65.21	49.64	
4	F H - 3161	120.41	-	107.35	12.22	30.88	22.68	39.58	
5	E C - 3108	76.87	47.02	9.20	-	23.67	16.78	27.92	
6	F H - 3186	-	5.02	142.02	8.59	15.02	18.30	19.03	
CHECKS:									
7	SURYA	-	39.81	14.61	-	-	-	-	
8	X - 3342	1.58	49.57	203.92	22.50	50.58	49.36	51.20	
9	KIRAN	2.67	34.43	-	-	0.00	10.54	7.71	
10	MAHI KANCHAN	-	-	103.78	-	9.66	-	1.48	
11	HIM - 129	-	-	-	-	-	-	-	
DAYS TO 50% POLLEN SHED									
Sl NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5	MEAN
1	R - 9803	48.0	39.8	39.8	44.8	44.0	50.3	44.4	
2	B I O - 92136	49.8	40.3	39.8	54.5	48.8	51.5	47.4	
3	SEEDTEC - 1202	49.3	40.3	40.5	50.0	47.0	52.0	46.5	
4	F H - 3161	45.5	41.3	39.8	45.5	42.0	48.0	43.7	
5	E C - 3108	45.3	40.3	40.8	48.5	43.5	49.0	44.5	
6	F H - 3186	45.5	41.3	40.5	42.5	42.0	48.5	43.4	
CHECKS:									
7	SURYA	47.3	40.5	40.5	43.3	43.0	48.3	43.8	
8	X - 3342	48.8	40.8	40.8	43.3	44.8	49.8	44.7	
9	KIRAN	49.5	40.3	39.0	48.3	45.3	52.0	45.7	
10	MAHI KANCHAN	49.0	40.8	40.0	46.8	43.0	51.3	45.1	
11	HIM - 129	45.5	41.5	40.5	40.3	43.3	48.5	43.3	
MEAN LOCATION									
	C.D. AT 5%	47.6	40.6	40.2	46.1	44.2	49.9	44.8	
	C.V. %	0.8	1.0	1.1	2.1	2.1	1.4	1.4	
	F (Prob)	1.1	1.7	1.9	3.1	3.3	1.9	-	
		.000	.036	.052	.000	.000	.000	-	

TABLE NO. 30 (CONT.)

		DAYS TO 50% SILKING							ZN 5
Sl No	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	MEAN	
1	R - 9803	50.0	43.3	43.5	51.0	54.5	50.5	48.8	
2	B I O - 92136	52.0	43.8	43.8	60.0	52.0	52.0	50.6	
3	SEEDTEC - 1202	51.3	43.3	44.3	55.5	52.8	52.0	49.8	
4	F H - 3161	47.5	44.3	43.0	52.0	47.8	48.0	47.1	
5	E C - 3108	47.0	44.0	44.8	54.5	52.5	48.5	48.5	
6	F H - 3186	47.5	44.8	44.8	48.8	46.0	49.0	46.8	
CHECKS:									
7	SURYA	49.5	44.0	44.3	47.3	52.5	48.8	47.7	
8	X - 3342	50.8	44.3	44.8	48.5	50.8	51.8	48.5	
9	KIRAN	52.0	44.3	43.0	54.8	52.5	53.0	49.9	
10	MAHI KANCHAN	51.0	44.8	44.3	52.5	50.8	52.0	49.2	
11	HIM - 129	48.0	44.8	44.5	45.8	49.0	48.8	46.8	
MEAN LOCATION		49.7	44.1	44.1	51.9	51.0	50.4	48.5	
C.D. AT 5% =		0.7	1.2	1.2	2.0	3.9	1.4	1.7	
C.V. % =		1.0	2.0	1.9	2.7	5.2	1.9	-	
F (Prob)		.000	.164	.027	.000	.004	.000	-	
		DAYS TO 50% DRY HUSK							ZN 5
Sl No	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	MEAN	
1	R - 9803	80.3	68.5	68.3	85.5	79.0	87.5	78.2	
2	B I O - 92136	80.3	68.8	67.3	86.5	78.8	93.3	79.1	
3	SEEDTEC - 1202	80.5	65.0	64.5	85.3	78.5	92.5	77.7	
4	F H - 3161	80.5	64.0	61.5	86.0	78.8	87.8	76.4	
5	E C - 3108	79.0	67.0	67.3	83.5	78.8	87.0	77.1	
6	F H - 3186	75.3	69.5	65.3	82.5	79.8	88.5	76.8	
CHECKS:									
7	SURYA	75.8	65.5	64.0	82.8	80.3	86.5	75.8	
8	X - 3342	76.3	66.8	65.5	83.0	77.0	90.5	76.5	
9	KIRAN	77.5	67.8	63.3	86.8	77.5	89.8	77.1	
10	MAHI KANCHAN	76.8	68.8	67.3	85.5	79.3	87.5	77.5	
11	HIM - 129	75.8	65.8	60.5	83.0	78.8	86.3	75.0	
MEAN LOCATION		78.0	67.0	65.0	84.6	78.8	88.8	77.0	
C.D. AT 5% =		0.9	2.8	2.9	1.5	1.8	1.8	2.0	
C.V. % =		0.8	2.9	3.1	1.2	1.6	1.4	-	
F (Prob)		.000	.004	.000	.000	.064	.000	-	

TABLE NO. 30 (CONT.)

SL NO	PEDIGREE	MOISTURE % AT HARVEST						PLANT ASPECT *						ZN 5 MEAN
		UDAI	BANS	GODH	KHED	CHHI	ZN 5 MEAN	UDAI	PRAT	BANS	GODH	KHED	CHHI	
1	R - 9803	16.3	16.0	10.3	15.6	18.2	15.3	2.5	2.3	2.0	3.5	3.0	1.3	2.4
2	B I O - 92136	14.4	15.9	11.1	15.5	14.7	14.3	1.9	2.3	2.4	2.5	2.0	1.0	2.0
3	SEEDTEC - 1202	16.4	15.7	10.4	16.3	16.4	15.0	1.4	2.4	2.8	2.0	1.8	1.0	1.9
4	F H - 3161	15.8	16.8	10.6	16.7	14.8	14.9	1.4	2.3	2.1	1.3	3.0	1.0	1.8
5	E C - 3108	13.7	16.0	10.4	14.8	14.6	13.9	2.1	2.4	2.9	4.0	3.0	1.0	2.6
6	F H - 3186	15.9	16.4	10.2	15.6	15.0	14.6	2.9	2.4	2.0	1.8	2.8	1.0	2.1
CHECKS:														
7	SURYA	13.3	16.4	10.5	15.3	14.2	13.9	2.8	2.0	2.3	2.8	2.3	1.8	2.3
8	X - 3342	14.9	16.5	12.2	15.3	15.0	14.8	2.8	2.0	1.5	1.5	2.5	1.0	1.9
9	KIRAN	16.4	15.2	9.9	16.1	14.2	14.3	2.5	2.6	2.4	3.8	3.0	1.0	2.5
10	MAHI KANCHAN	13.7	16.8	11.9	16.1	15.2	14.7	2.6	2.3	2.1	1.8	1.8	1.3	2.0
11	HIM - 129	14.4	16.4	10.5	15.3	17.3	14.8	2.9	2.0	2.5	3.0	2.3	1.3	2.3
MEAN LOCATION														
C.D. AT 5% =														
C.V. % =														
F (Prob) =														
.000 .004 .070 .000 .000 .000 .000 .000 .111 .000 .000 .000 .156 .031														

SL NO	PEDIGREE	EAR ASPECT *						HUSK COVER *						ZN 5 MEAN
		UDAI	PRAT	BANS	GODH	KHED	ZN 5 MEAN	UDAI	PRAT	BANS	GODH	KHED	CHHI	
1	R - 9803	1.9	2.5	2.0	3.0	4.0	2.6	2.5	2.5	1.9	3.3	3.0	1.0	2.4
2	B I O - 92136	1.8	2.1	2.3	3.3	2.8	2.2	2.0	2.0	2.1	2.5	3.0	1.0	2.1
3	SEEDTEC - 1202	1.3	2.3	2.6	2.3	2.0	1.9	1.4	2.3	2.5	1.3	2.0	1.0	1.7
4	F H - 3161	1.5	2.3	2.0	1.3	3.3	2.0	1.5	2.4	2.1	1.0	3.3	1.0	1.9
5	E C - 3108	2.0	2.3	2.6	4.8	3.5	2.9	2.1	2.4	2.3	3.8	3.0	1.3	2.5
6	F H - 3186	3.1	2.4	2.3	3.3	2.0	2.5	3.1	2.0	2.1	4.0	3.3	1.0	2.6
CHECKS:														
7	SURYA	3.5	2.4	2.1	3.3	4.0	3.0	3.1	2.1	2.4	2.8	2.8	1.5	2.4
8	X - 3342	2.5	2.0	1.6	1.3	2.0	1.8	2.5	2.3	1.6	1.3	2.5	1.0	1.9
9	KIRAN	2.6	2.4	2.5	4.3	3.8	2.9	2.5	2.4	2.5	3.5	2.8	1.5	2.5
10	MAHI KANCHAN	3.0	2.3	2.4	2.5	2.8	2.6	2.8	2.4	2.4	1.5	2.8	2.0	2.3
11	HIM - 129	2.6	2.6	2.4	3.0	3.0	2.7	2.8	2.5	2.4	3.0	3.3	1.5	2.6
MEAN LOCATION														
C.D. AT 5% =														
C.V. % =														
F (Prob) =														
.000 .185 .001 .000 .004 .000 .000 .000 .195 .007 .000 .000 .497 .001														

TABLE NO. 30 (CONT.)

UNIFORMITY *									
SI NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN	5 MEAN
1	R - 9803	2.9	2.5	2.0	2.8	2.5	1.8	2.4	2.4
2	B I O - 92136	2.1	2.3	2.4	2.3	2.5	1.0	2.1	2.1
3	SEEDTEC - 1202	1.8	2.5	2.5	1.5	2.3	1.0	1.9	1.9
4	F H - 3161	1.6	2.4	2.0	1.3	2.5	1.0	1.8	1.8
5	E C - 3108	2.6	2.4	2.3	3.5	2.0	1.8	2.4	2.4
6	F H - 3186	2.8	2.5	2.1	3.3	2.0	1.3	2.3	2.3
CHECKS:									
7	SURYA	3.0	2.4	2.3	2.5	2.3	2.0	2.4	2.4
8	X - 3342	3.0	2.4	1.6	1.8	2.5	1.0	2.0	2.0
9	KIRAN	3.1	2.4	2.5	4.0	1.8	2.0	2.6	2.6
10	MAHI KANCHAN	2.9	2.4	2.0	2.0	2.3	2.0	2.3	2.3
11	HIM - 129	2.8	2.6	2.4	2.3	3.3	1.5	2.5	2.5
MEAN LOCATION									
C.D. AT 5% =		0.4	0.4	0.4	1.2	1.2	0.5	0.7	0.7
C.V. % =		10.6	11.9	11.9	32.8	35.2	22.0	-	-
F (Prob)		.000	.883	.001	.001	.543	.000	-	-
PLANT HEIGHT (cm)									
SI NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN	5 MEAN
1	R - 9803	195	201	194	155	185	184	186	186
2	B I O - 92136	188	166	165	136	194	174	170	170
3	SEEDTEC - 1202	190	165	161	144	188	189	173	173
4	F H - 3161	171	170	159	173	185	168	171	171
5	E C - 3108	194	178	168	143	190	190	177	177
6	F H - 3186	189	159	160	129	189	171	166	166
CHECKS:									
7	SURYA	164	155	164	156	188	179	168	168
8	X - 3342	193	194	185	186	199	199	193	193
9	KIRAN	191	166	171	168	200	198	182	182
10	MAHI KANCHAN	193	251	253	144	200	189	205	205
11	HIM - 129	190	181	183	154	184	163	176	176
MEAN LOCATION									
C.D. AT 5% =		10.9	8.2	14.5	8.7	19.4	18.4	13.3	13.3
C.V. % =		4.0	3.1	5.6	3.9	7.0	7.0	-	-
F (Prob)		.000	.000	.000	.000	.596	.003	-	-

TABLE NO. 30 (CONT.)

SL NO	PEDIGREE	EAR HEIGHT (cm)					EAR NO./ PLANT									
		UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5 MEAN	UDAI	PRAT	BANS	GODH	KHED	CHHI		
1	R - 9803	93	103	91	73	93	76	88	0.96	0.68	0.51	0.72	0.96	0.96		
2	B I O - 92136	93	75	73	60	95	74	78	0.87	0.71	0.83	0.84	0.97	0.94		
3	SEEDTEC - 1202	98	74	70	73	101	93	85	0.93	0.90	0.98	0.67	0.97	0.94		
4	F H - 3161	81	78	69	84	88	73	79	0.96	0.79	1.03	0.84	0.97	0.95		
5	E C - 3108	98	84	76	70	94	86	85	0.92	0.87	0.87	0.74	0.97	0.96		
6	F H - 3186	88	70	69	68	90	68	75	0.93	0.99	1.02	0.76	0.97	0.97		
CHECKS:																
7	SURYA	85	65	68	81	95	74	78	0.96	0.97	1.06	0.61	0.97	0.91		
8	X - 3342	100	94	88	89	105	91	94	0.90	0.95	1.06	0.77	0.97	0.97		
9	KIRAN	95	74	78	83	100	96	88	0.92	0.83	1.08	0.62	0.97	0.95		
10	MAHI KANCHAN	89	108	113	76	100	85	95	0.93	0.93	1.08	0.58	0.97	0.95		
11	HIM - 129	98	83	83	68	94	69	82	0.88	0.93	1.06	0.74	1.05	0.92		
MEAN LOCATION																
		92	82	80	75	96	80	84	-	-	-	-	-	-		
C.D. AT 5% = 10.8																
C.V. % = 8.1																
F (Prob) = 0.022																
STAND AT HARVEST																
SL NO	PEDIGREE	UDAI	PRAT	BANS	GODH	KHED	CHHI	KHED	ZN 5 MEAN	UDAI	PRAT	BANS	GODH	KHED	CHHI	ZN 5 MEAN
1	R - 9803	104	99	68	120	132	102	132	104	104	99	68	120	132	102	104
2	B I O - 92136	114	118	72	118	139	121	139	114	114	118	72	118	139	121	114
3	SEEDTEC - 1202	118	110	42	89	141	104	141	101	101	110	42	89	141	104	101
4	F H - 3161	116	129	74	94	133	117	133	110	110	129	74	94	133	117	110
5	E C - 3108	106	123	49	113	136	116	136	107	107	123	49	113	136	116	107
6	F H - 3186	102	97	80	121	136	114	136	108	108	97	80	121	136	114	108
CHECKS:																
7	SURYA	105	110	70	116	123	105	123	105	105	110	70	116	123	105	105
8	X - 3342	101	108	68	119	137	113	137	108	108	108	68	119	137	113	108
9	KIRAN	93	110	42	107	142	111	142	101	101	110	42	107	142	111	101
10	MAHI KANCHAN	102	99	55	94	134	83	134	94	94	99	55	94	134	83	94
11	HIM - 129	101	110	42	122	135	111	135	103	103	110	42	122	135	111	103
MEAN LOCATION																
		106	110	60	110	135	109	135	105	105	110	60	110	135	109	105
C.D. AT 5% = 8.0																
C.V. % = 5.3																
F (Prob) = 0.000																

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

TABLE NO. 31

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT BAJAURA, LUDDHIANA, KARNAL, VARANASI, DHOLI, UDAIPUR, CHHINDIWARA IN TRIAL NO. TROPM1 DURING KHARIF (2003).

SL NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3			
		ZN 1				KARN				VARA				DHOL	R	MEAN	R
		BAJA	R	LUDH	R	KARN	R	MEAN	R	VARA	R	MEAN	R	DHOL	R	MEAN	R
1	HQPM - 1	7073	9	7355	1	2538	5	4946	2	3230	1	4568	6	3899	5		
2	HQPM - 2	8237	1	6219	6	2128	12	4173	6	2659	6	4459	8	3559	7		
3	HQPM - 3	7320	7	7250	2	2963	1	5107	1	2954	2	4921	4	3937	4		
4	B - QPM - 12	7614	3	5910	7	2058	13	3984	9	2536	8	4342	9	3439	9		
5	B - QPM - 024	5647	14	5214	11	1726	14	3470	14	2421	11	5628	2	4024	3		
6	B - QPM - 31	7603	4	5367	10	2410	8	3888	10	2936	5	4530	7	3733	6		
7	B - QPM - 32	7015	10	4609	14	2504	7	3556	13	2498	10	4121	10	3310	10		
8	B - QPM - 33	6943	11	5701	9	2270	11	3985	8	2248	14	4720	5	3484	8		
9	CML-142 x CML-150	7436	5	4778	13	2731	4	3754	11	2315	13	3743	11	3029	12		
10	J H - QPM - 83	5705	13	5895	8	2291	10	4093	7	2542	7	3660	12	3101	11		
CHECKS:																	
11	SHAKTIMAN - 1	7299	8	5008	12	2375	9	3692	12	2527	9	3443	14	2985	13		
12	PRO - 311	6052	12	6525	4	2896	2	4710	4	2948	4	5499	3	4224	2		
13	K H - 510	7428	6	6441	5	2773	3	4607	5	2355	12	3604	13	2979	14		
14	SEEDTEC 2324	7950	2	7215	3	2520	6	4867	3	2953	3	6805	1	4879	1		
	MEAN YIELD=	7094		5963		2442		4202		2651		4574		3613			
	MEAN STAND	71		64		34		49		76		38		57			
	C.D. AT 5%=	833		1332		113		723		451		725		588			
	C.V. % =	7.01		15.64		2.77		-		10.15		11.10		-			
	F (Prob)	.000		.000		.000		-		.000		.000		-			
	PLOT SIZE=	9.60		10.40		11.20		-		15.00		15.00		-			
AGRONOMY DATA:																	
	SOWING DATE(2003)	9-07		12-07		5-07		-		12-07		19-07		-			
	HARVEST DATE(2003)	6-11		20-10		12-10		-		-		24-09		-			
	IRRIGATION Nos	2		3		4		-		-		-		-			
	FERTILIZER APPLIED N	120		125		150		-		100		100		-			
	P	60		60		60		-		60		60		-			
	K	40		30		-		-		40		40		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DELH 24.1% : KOLH 28.2%

TABLE NO. 31 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE SHAKTIMAN - 1													
S1 NO	PEDIGREE	ZN 1		ZN 2		ZN 3		DHOL	VARA	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
		BAJA	LUDH	KARN	MEAN	MEAN	MEAN						
1	HQPM - 1	-	46.86	6.84	33.99	27.84	30.64	32.70	27.84	71.96	-	9.80	16.23
2	HQPM - 2	12.85	24.18	-	13.05	5.24	19.24	29.52	5.24	36.08	-	-	5.21
3	HQPM - 3	0.29	44.77	24.77	38.34	16.92	31.92	42.93	16.92	49.93	-	-	11.25
4	B - QPM - 12	4.31	18.01	-	7.92	0.36	15.21	26.11	0.36	31.79	-	4.65	7.26
5	B - QPM - 024	-	4.11	-	-	-	34.84	63.48	-	55.74	1.16	17.78	6.43
6	B - QPM - 31	4.17	7.16	1.46	5.33	16.23	25.08	31.58	16.23	18.04	-	0.69	7.01
7	B - QPM - 32	-	-	5.42	-	-	10.89	19.70	-	23.22	-	-	-
8	B - QPM - 33	-	13.83	-	7.95	-	16.74	37.11	-	42.65	-	10.80	7.72
9	CML-142 x CML-150	1.87	-	14.97	1.70	-	1.48	8.71	-	18.62	28.13	25.23	10.27
10	J H - QPM - 83	-	17.70	-	10.86	0.61	3.90	6.32	-	-	-	-	-
CHECKS:													
11	SHAKTIMAN - 1	-	-	-	-	-	-	-	-	-	-	-	-
12	PRO - 311	-	30.29	21.91	27.60	16.70	41.51	59.73	16.70	16.50	1.51	6.08	12.27
13	K H - 510	1.77	28.61	16.73	24.79	-	-	4.69	-	59.53	-	16.91	12.16
14	SEEDTEC 2324	8.92	44.06	6.11	31.85	16.86	63.46	97.66	16.86	75.71	29.70	43.71	36.83
GRAIN YIELD & SUPERIORITY OVER THE PRO - 311													
S1 NO	PEDIGREE	ZN 1		ZN 2		ZN 3		DHOL	VARA	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
		BAJA	LUDH	KARN	MEAN	MEAN	MEAN						
1	HQPM - 1	16.88	12.71	-	5.01	9.55	-	-	9.55	47.60	-	3.51	3.52
2	HQPM - 2	36.12	-	-	-	-	-	-	-	16.80	-	-	-
3	HQPM - 3	20.96	11.11	2.34	8.42	0.19	-	-	0.19	28.69	-	-	-
4	B - QPM - 12	25.81	-	-	-	-	-	-	-	13.12	-	-	-
5	B - QPM - 024	-	-	-	-	-	-	2.35	-	33.68	-	11.04	-
6	B - QPM - 31	25.64	-	-	-	-	-	-	-	1.32	-	-	-
7	B - QPM - 32	15.92	-	-	-	-	-	-	-	5.77	-	-	-
8	B - QPM - 33	14.73	-	-	-	-	-	-	-	22.44	-	4.45	-
9	CML-142 x CML-150	22.88	-	-	-	-	-	-	-	1.82	26.22	18.06	-
10	J H - QPM - 83	-	-	-	-	-	-	-	-	-	-	-	-
CHECKS:													
11	SHAKTIMAN - 1	20.62	-	-	-	-	-	-	-	-	-	-	-
12	PRO - 311	-	-	-	-	-	-	-	-	-	-	-	-
13	K H - 510	22.75	-	-	-	-	-	-	-	36.93	-	10.21	-
14	SEEDTEC 2324	31.38	10.57	-	3.33	0.14	15.51	23.75	0.14	50.82	27.77	35.48	21.87

TABLE NO. 31 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED										OV'L MEAN
		ZN 1		ZN 2		ZN 3		UDAI		CHHI	ZN 5 MEAN	
		BAJA	LUDH	KARN	MEAN	VARA	DHOL	MEAN	UDAI			
1	HQPM - 1	60.0	53.0	51.7	52.3	48.3	54.0	51.2	57.0	58.0	57.5	54.6
2	HQPM - 2	60.0	53.8	51.3	52.5	50.0	54.0	52.0	54.5	56.0	55.3	54.2
3	HQPM - 3	59.7	53.3	48.7	51.0	48.0	54.3	51.1	55.5	57.5	56.5	53.8
4	B - QPM - 12	58.7	53.5	50.7	52.1	49.7	53.5	51.6	54.5	56.0	55.3	53.8
5	B - QPM - 024	61.7	57.5	53.3	55.4	51.0	55.5	53.3	57.0	59.0	58.0	56.4
6	B - QPM - 31	59.0	53.3	51.3	52.3	50.7	53.5	52.1	55.3	58.0	56.6	54.4
7	B - QPM - 32	53.0	50.3	48.3	49.3	45.7	49.0	47.3	49.3	52.5	50.9	49.7
8	B - QPM - 33	57.0	52.8	50.7	51.7	47.3	49.8	48.5	53.8	55.0	54.4	52.3
9	CML-142 X CML-150	61.0	58.3	53.7	56.0	49.3	56.8	53.0	57.5	59.0	58.3	56.5
10	J H - QPM - 83	57.3	48.3	46.7	47.5	45.3	48.5	46.9	53.3	52.5	52.9	50.3
CHECKS:												
11	SHAKTIMAN - 1	60.0	53.8	52.7	53.2	48.7	53.0	50.8	53.5	57.0	55.3	54.1
12	PRO - 311	58.7	55.0	52.7	53.8	49.7	53.0	51.3	56.3	58.0	57.1	54.8
13	K H - 510	57.0	51.5	49.7	50.6	47.0	52.3	49.6	53.0	55.0	54.0	52.2
14	SEEDTEC 2324	60.0	54.8	53.7	54.2	49.0	54.0	51.5	55.0	57.5	56.3	54.8
	MEAN LOCATION	58.8	53.5	51.1	52.3	48.5	52.9	50.7	54.7	56.5	55.6	53.7
	C.D. AT 5%	1.7	1.4	0.9	1.2	1.8	2.3	2.1	1.3	2.6	1.9	-
	C.V. %	1.7	1.9	1.1	-	2.2	3.1	-	1.6	2.1	-	-
	F (Prob)	.000	.000	.000	-	.000	.000	-	.000	.001	-	-

TABLE NO. 31 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% SILKING										ZN 5 MEAN	OV'L MEAN
	ZN 1 BAJA	LUJH	KARN	ZN 2 MEAN	VARA	DHOL	ZN 3 MEAN	UDAI	CHHI	ZN 4 MEAN		
1 HQPM - 1	63.3	54.0	53.7	53.8	52.0	56.0	54.0	59.3	58.5	58.9	56.7	
2 HQPM - 2	62.7	55.3	53.3	54.3	54.7	56.3	55.5	57.5	58.5	58.0	56.9	
3 HQPM - 3	62.7	54.3	51.7	53.0	52.0	56.3	54.1	57.5	59.5	58.5	56.3	
4 B - QPM - 12	62.3	54.5	53.7	54.1	54.3	55.5	54.9	57.8	59.0	58.4	56.7	
5 B - QPM - 024	64.0	58.5	55.7	57.1	56.0	57.8	56.9	59.0	60.0	59.5	58.7	
6 B - QPM - 31	62.7	54.3	54.3	54.3	53.7	55.5	54.6	57.8	58.5	58.1	56.7	
7 B - QPM - 32	57.7	52.3	51.3	51.8	50.3	51.0	50.7	51.3	56.0	53.6	52.8	
8 B - QPM - 33	61.0	54.3	52.7	53.5	51.3	51.8	51.5	56.0	56.0	56.0	54.7	
9 CML-142 x CML-150	64.3	59.3	55.3	57.3	53.3	59.0	56.2	59.3	59.0	59.1	58.5	
10 J H - QPM - 83	60.7	49.3	48.7	49.0	50.7	50.5	50.6	55.5	54.0	54.8	52.8	
CHECKS:												
11 SHAKTIMAN - 1	63.0	54.8	54.7	54.7	51.7	55.0	53.3	55.5	57.0	56.3	55.9	
12 PRO - 311	62.0	56.3	55.7	56.0	53.0	55.0	54.0	58.3	58.0	58.1	56.9	
13 K H - 510	60.7	52.8	51.7	52.2	51.3	54.0	52.7	55.3	57.0	56.1	54.7	
14 SEEDTEC 2324	63.0	55.8	56.7	56.2	53.0	55.5	54.3	57.5	57.5	57.5	57.0	
MEAN LOCATION	62.1	54.7	53.5	54.1	52.7	54.9	53.8	56.9	57.8	57.3	56.1	
C.D. AT 5% =	1.8	1.5	1.4	1.4	2.0	2.3	2.2	1.2	2.7	1.9	-	
C.V. % =	1.7	1.9	1.5	-	2.3	2.9	-	1.4	2.2	-	-	
F (Prob)	.000	.000	.000	-	.000	.000	-	.000	.019	-	-	

TABLE NO. 31 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK										ZN 5 MEAN	OV'L MEAN
		ZN 1	BAJA	LU DH	KARN	ZN 2 MEAN	VARA	DHOL	ZN 3 MEAN	UDAI	CHHI		
1	HQPM - 1	104.7	93.8	86.0	89.9	80.0	91.8	85.9	91.8	98.0	94.9	92.3	
2	HQPM - 2	105.0	94.3	84.7	89.5	82.0	94.5	88.3	91.5	95.0	93.3	92.4	
3	HQPM - 3	102.0	94.0	78.7	86.3	80.7	89.8	85.2	92.0	95.5	93.8	90.4	
4	B - QPM - 12	99.7	84.5	86.7	85.6	81.0	94.5	87.8	90.8	92.5	91.6	89.9	
5	B - QPM - 024	101.3	87.3	85.0	86.1	82.3	90.0	86.2	90.3	93.0	91.6	89.9	
6	B - QPM - 31	100.0	84.3	85.3	84.8	81.7	95.0	88.3	89.0	95.5	92.3	90.1	
7	B - QPM - 32	94.3	84.5	78.3	81.4	79.0	93.0	86.0	88.0	92.5	90.3	87.1	
8	B - QPM - 33	95.7	84.8	80.7	82.7	80.0	92.8	86.4	90.3	95.0	92.6	88.4	
9	CML-142 x CML-150	104.7	90.0	86.3	88.2	81.3	94.8	88.0	90.8	96.5	93.6	92.0	
10	J H - QPM - 83	96.7	87.8	77.0	82.4	80.0	90.3	85.1	86.5	94.0	90.3	87.5	
CHECKS:													
11	SHAKTIMAN - 1	101.0	84.5	84.3	84.4	80.3	92.5	86.4	89.3	96.5	92.9	89.8	
12	PRO - 311	93.0	88.5	85.3	86.9	80.0	94.0	87.0	90.5	93.0	91.8	89.2	
13	K H - 510	92.3	84.3	83.3	83.8	78.3	90.0	84.2	88.0	93.0	90.5	87.0	
14	SEEDTEC 2324	101.3	88.3	85.0	86.6	81.0	93.5	87.3	90.8	95.5	93.1	90.8	
	MEAN LOCATION	99.4	87.9	83.3	85.6	80.5	92.6	86.6	89.9	94.7	92.3	89.8	
	C.D. AT 5% =	5.3	1.8	3.9	2.8	2.0	5.7	3.9	1.4	2.5	1.9	-	
	C.V. % =	3.2	1.5	2.8	-	1.5	4.3	-	1.1	1.2	-	-	
	F (Prob)	.000	.000	.000	-	.016	.529	-	.000	.006	-	-	

TABLE NO. 31 (CONT.)

Sl No	PEDIGREE	MOISTURE % AT HARVEST						PLANT ASPECT *							
		ZN 1	ZN 2	ZN 3	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 1	BAJA	VARA	DHOL	ZN 3 MEAN	ZN 5 UDAI	OV'L MEAN
1	HQPM - 1	23.0	24.8	38.7	15.1	21.1	18.1	24.6	2.0	1.8	2.4	2.1	2.6	2.2	
2	HQPM - 2	24.8	32.9	39.5	15.0	21.4	18.2	26.7	2.0	2.0	2.5	2.3	2.5	2.3	
3	HQPM - 3	22.4	24.5	39.1	16.9	22.0	19.4	25.0	2.2	1.5	2.5	2.0	2.6	2.2	
4	B - QPM - 12	22.5	24.0	37.3	15.0	19.9	17.5	23.8	2.2	2.0	2.6	2.3	2.6	2.4	
5	B - QPM - 024	25.0	22.9	40.2	16.0	21.3	18.7	25.1	2.5	2.0	2.4	2.2	2.3	2.3	
6	B - QPM - 31	23.5	22.6	38.5	15.3	19.9	17.6	24.0	2.0	2.0	2.4	2.2	3.0	2.3	
7	B - QPM - 32	21.4	22.0	37.1	15.3	18.9	17.1	22.9	2.3	2.0	2.5	2.3	2.9	2.4	
8	B - QPM - 33	22.0	22.6	36.2	12.2	20.8	16.5	22.8	2.2	2.3	2.6	2.4	2.6	2.4	
9	CML-142 x CML-150	22.5	25.1	39.1	18.7	20.8	19.8	25.3	2.2	2.0	2.4	2.2	2.9	2.4	
10	J H - QPM - 83	21.2	23.2	37.3	17.5	20.3	18.9	23.9	2.7	2.0	2.6	2.3	3.4	2.7	
CHECKS:															
11	SHAKTIMAN - 1	19.6	22.8	37.5	18.7	19.3	19.0	23.6	2.2	2.0	2.8	2.4	2.9	2.5	
12	PRO - 311	22.0	29.9	39.4	18.0	20.5	19.3	25.9	2.5	1.3	2.5	1.9	2.7	2.2	
13	K H - 510	21.1	22.9	38.2	14.2	19.9	17.1	23.3	2.0	2.3	2.6	2.4	2.7	2.4	
14	SEEDTEC 2324	25.0	25.8	38.6	18.0	21.0	19.5	25.7	2.0	2.0	2.4	2.2	2.8	2.3	
MEAN LOCATION															
	C.D. AT 5%	2.3	2.6	0.8	0.6	1.3	1.0	-	0.3	0.2	0.5	0.4	0.5	-	
	C.V. %	6.2	7.4	1.3	2.7	3.0	-	-	9.3	7.2	14.0	-	13.8	-	
	F (Prob)	.001	.000	.000	.000	.011	-	-	.004	.000	.907	-	.085	-	

TABLE NO. 31 (CONT.)

SL NO	PEDIGREE	EAR ASPECT *					HUSK COVER *						
		ZN 1	VARA	DHOL	ZN 3 MEAN	ZN 5 UDAI	OV'L MEAN	ZN 1	BAJA	VARA	DHOL	ZN 3 MEAN	ZN 5 UDAI
1	HQPM - 1	2.3	1.5	2.4	1.9	2.5	2.2	2.0	1.5	2.5	2.0	2.5	2.1
2	HQPM - 2	2.0	1.8	2.4	2.1	2.6	2.2	2.2	1.5	2.8	2.1	2.4	2.2
3	HQPM - 3	2.2	2.0	2.4	2.2	2.5	2.3	2.2	1.5	2.6	2.1	2.8	2.3
4	B - QPM - 12	2.2	1.8	2.5	2.1	2.4	2.2	2.2	1.5	2.6	2.1	2.8	2.3
5	B - QPM - 024	2.2	2.0	2.5	2.3	2.3	2.2	2.0	1.8	2.4	2.1	2.3	2.1
6	B - QPM - 31	2.2	2.0	2.1	2.1	2.7	2.2	2.0	1.5	2.6	2.1	3.0	2.3
7	B - QPM - 32	2.3	2.0	2.9	2.4	2.5	2.4	2.2	2.3	2.6	2.4	3.0	2.5
8	B - QPM - 33	2.2	2.3	2.3	2.3	2.5	2.3	2.0	2.0	2.6	2.3	2.5	2.3
9	CML-142 x CML-150	2.3	1.5	2.4	1.9	2.6	2.2	2.0	1.5	2.6	2.1	3.0	2.3
10	J H - QPM - 83	2.3	2.0	2.5	2.3	2.8	2.4	2.3	1.5	2.9	2.2	3.4	2.5
CHECKS:													
11	SHAKTIMAN - 1	2.2	2.3	2.8	2.5	2.5	2.4	2.2	1.5	3.0	2.3	2.9	2.4
12	PRO - 311	2.2	1.5	2.5	2.0	2.8	2.2	2.2	1.5	2.5	2.0	2.7	2.2
13	K H - 510	2.2	2.0	2.8	2.4	2.7	2.4	2.2	1.5	2.8	2.1	2.7	2.3
14	SEEDTEC 2324	2.3	2.3	2.0	2.1	2.4	2.3	2.0	1.5	2.1	1.8	2.8	2.1
MEAN LOCATION													
C.D. AT 5% =		0.5	0.3	0.3	0.3	0.3	-	0.4	0.2	0.4	0.3	0.4	-
C.V. % =		12.3	8.1	8.7	-	9.4	-	10.6	5.6	11.4	-	11.3	-
F (Prob)		.947	.000	.000	-	.128	-	.773	.000	.047	-	.002	-

TABLE NO. 31 (CONT.)

Sl No	PEDIGREE	UNIFORMITY *							OV'L MEAN
		ZN 1	BAJA	VARA	DHOL	ZN 3 MEAN	ZN 5 UDAI	ZN 5	
1	HQPM - 1	2.2	1.3	2.4	2.4	1.8	2.5	2.1	
2	HQPM - 2	2.2	1.3	2.3	2.3	1.8	2.4	2.0	
3	HQPM - 3	2.0	1.3	2.4	2.4	1.8	2.7	2.1	
4	B - QPM - 12	2.0	2.3	2.8	2.8	2.5	2.7	2.4	
5	B - QPM - 024	2.3	1.5	2.4	2.4	1.9	2.1	2.1	
6	B - QPM - 31	2.0	2.0	2.0	2.0	2.0	2.8	2.2	
7	B - QPM - 32	2.3	2.5	2.6	2.6	2.6	3.0	2.6	
8	B - QPM - 33	2.2	2.0	2.3	2.3	2.1	2.6	2.3	
9	CML-142 x CML-150	2.3	2.0	2.6	2.6	2.3	3.0	2.5	
10	J H - QPM - 83	2.0	1.3	2.8	2.8	2.0	3.2	2.3	
CHECKS:									
11	SHAKTIMAN - 1	2.2	2.0	2.5	2.5	2.3	2.8	2.4	
12	PRO - 311	2.2	1.3	2.6	2.6	1.9	2.6	2.2	
13	K H - 510	2.2	2.3	2.4	2.4	2.3	2.7	2.4	
14	SEEDTEC 2324	2.0	1.5	2.4	2.4	1.9	2.7	2.1	
MEAN LOCATION									
C.D. AT 5%		0.3	0.3	0.5	0.5	0.4	0.4	-	
C.V. %		9.3	10.5	13.3	13.3	-	11.1	-	
F (Prob)		.308	.000	.100	.100	-	.004	-	

TABLE NO. 31 (CONT.)

SI	NO PEDIGREE	PLANT HEIGHT (cm)										ZN 5 MEAN	OV'L MEAN
		ZN 1		ZN 2		ZN 3		ZN 4		ZN 5			
		BAJA	LUDH	KARN	MEAN	VARA	DHOL	MEAN	UDAI	CHHI	MEAN	OV'L	
1	HQPM - 1	205	183	170	176	225	132	178	170	198	184	183	
2	HQPM - 2	210	178	198	188	224	134	179	180	188	184	187	
3	HQPM - 3	200	181	187	184	250	135	193	173	190	181	188	
4	B - QPM - 12	197	173	165	169	211	133	172	173	198	185	178	
5	B - QPM - 024	213	200	190	195	258	154	206	203	225	214	206	
6	B - QPM - 31	204	163	177	170	238	132	185	163	205	184	183	
7	B - QPM - 32	202	196	200	198	229	138	183	185	200	193	193	
8	B - QPM - 33	209	176	187	181	230	138	184	175	205	190	189	
9	CML-142 x CML-150	202	181	163	172	223	133	178	173	208	190	183	
10	J H - QPM - 83	196	190	207	198	195	139	167	165	200	183	184	
CHECKS:													
11	SHAKTIMAN - 1	207	181	185	183	213	131	172	171	210	191	185	
12	PRO - 311	188	179	193	186	213	141	177	173	190	181	182	
13	K H - 510	191	185	185	185	210	133	172	170	200	185	182	
14	SEEDTEC 2324	193	170	173	172	216	131	174	168	170	169	174	
MEAN LOCATION		201	181	184	183	224	136	180	174	199	187	186	
C.D. AT 5% =		15.9	12.0	12.4	12.2	7.7	15.8	11.8	14.9	29.0	22.0	-	
C.V. % =		4.7	4.6	4.0	-	2.1	8.2	-	6.0	6.8	-	-	
F (Prob)		.078	.000	.000	-	.000	.335	-	.001	.156	-	-	

TABLE NO. 31 (CONT.)

Sl No	PEDIGREE	EAR HEIGHT (cm)										OV'L MEAN	
		ZN 1		ZN 2		ZN 3		ZN 5		CHHI	UDAI		
		BAJA	LU DH	KARN	MEAN	VARA	DHOL	MEAN	MEAN			UDAI	CHHI
1	HQPM - 1	88	79	88	84	85	57	71	73	73	95	84	81
2	HQPM - 2	99	79	97	88	94	50	72	80	80	88	84	84
3	HQPM - 3	78	83	97	90	100	56	78	80	80	90	85	83
4	B - QPM - 12	93	88	93	90	96	71	83	85	85	123	104	93
5	B - QPM - 024	91	90	97	93	95	68	81	98	98	105	101	92
6	B - QPM - 31	92	78	90	84	108	62	85	73	73	110	91	87
7	B - QPM - 32	89	85	100	93	96	65	81	84	84	80	82	86
8	B - QPM - 33	97	81	95	88	108	66	87	76	76	108	92	90
9	CML-142 x CML-150	94	78	82	80	95	55	75	81	81	100	91	83
10	J H - QPM - 83	94	89	113	101	82	64	73	70	70	110	90	89
CHECKS:													
11	SHAKTIMAN - 1	93	86	88	87	88	57	72	68	68	100	84	83
12	PRO - 311	100	83	117	100	93	70	81	84	84	113	98	94
13	K H - 510	80	83	98	90	101	58	79	70	70	93	81	83
14	SEEDTEC 2324	100	81	88	85	87	63	75	83	83	90	86	85
MEAN LOCATION		92	83	96	89	95	61	78	79	79	100	89	87
C.D. AT 5%		16.4	9.4	9.5	9.5	7.7	11.4	9.6	11.3	11.3	33.7	22.5	-
C.V. %		10.6	7.9	5.9	-	4.8	13.0	-	10.1	15.5	-	-	-
F (Prob)		.212	.139	.000	-	.000	.015	-	.000	.415	-	-	-

TABLE NO. 31 (CONT.)

SI	NO PEDIGREE	EAR No./PLANT					STAND AT HARVEST									
		LUDH	VARA	UDAI	CHHI	H. tur.* may.*	BAJA	BAJA	BAJA	LUDH	KARN	VARA	DHOL	UDAI	CHHI	
1	HQPM - 1	1.08	0.90	0.93	0.81	1.3	1.0	1.0	1.0	77	70	34	77	39	60	49
2	HQPM - 2	1.03	0.96	1.00	0.86	1.2	1.2	1.2	1.2	78	68	39	78	39	64	58
3	HQPM - 3	1.02	0.96	0.94	0.90	1.0	1.0	1.0	1.0	69	61	35	72	35	45	46
4	B - QPM - 12	1.07	0.95	1.06	0.87	1.7	1.0	1.0	1.0	71	63	35	75	39	68	60
5	B - QPM - 024	1.03	0.98	0.91	0.91	1.0	1.0	1.0	1.0	71	60	39	79	37	60	57
6	B - QPM - 31	1.03	0.97	1.03	0.74	1.0	1.0	1.0	1.0	66	70	38	76	39	62	57
7	B - QPM - 32	1.12	0.89	0.98	0.83	1.3	1.7	1.7	1.7	76	73	34	75	39	57	56
8	B - QPM - 33	1.01	0.92	1.09	0.70	1.2	2.2	2.2	2.2	72	71	42	75	38	38	61
9	CML-142 X CML-150	1.02	0.96	0.97	0.79	1.3	1.2	1.2	1.2	49	50	29	66	35	38	43
10	J H - QPM - 83	1.06	0.90	1.03	0.87	2.3	1.3	1.3	1.3	71	62	30	79	40	31	59
CHECKS:																
11	SHAKTIMAN - 1	0.97	0.96	0.95	0.84	2.2	1.5	1.5	1.5	68	61	25	74	37	53	51
12	PRO - 311	0.98	0.94	0.99	0.80	1.3	1.0	1.0	1.0	73	58	40	78	40	65	54
13	K H - 510	0.95	0.90	1.06	0.78	1.0	1.3	1.3	1.3	74	70	31	78	39	72	55
14	SEEDTEC 2324	1.01	0.90	1.05	0.73	1.7	1.0	1.0	1.0	74	58	32	76	38	57	51
MEAN LOCATION		1.03	0.93	1.00	0.82	1.4	1.2	1.2	1.2	71	64	34	76	38	55	54
C.D. AT 5% =		-	-	-	-	0.7	0.5	0.5	0.5	10.2	11.1	3.3	5.8	3.9	9.7	12.5
C.V. % =		-	-	-	-	30.1	23.3	23.3	23.3	8.6	12.2	5.7	4.6	7.1	12.4	10.8
F (Prob)		-	-	-	-	.007	.001	.001	.001	.001	.006	.000	.013	.107	.000	.142

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

TABLE NO. 32

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT BAJAURA, LUDHIANA, KARNAL, UDAIPUR, CHHINDIWARA IN TRIAL NO. TRQPM2 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L			
		ZN 1			ZN 2			ZN 5			R			MEAN	R		
		BAJA	R	LUDH	R	KARN	R	MEAN	R	UDAI	R	CHHI	R	MEAN	R		
1	J H QPM -35	4822	20	4804	21	2640	28	3722	24	3208	27	7066	9	5137	22	4508	23
2	J H QPM -155	4654	22	6981	2	3013	17	4997	3	3344	26	6966	12	5155	20	4991	14
3	J H QPM -41	4822	19	4996	18	2880	22	3938	21	6491	4	6977	11	6734	5	5233	9
4	J H QPM -144	4717	21	6214	7	3589	7	4902	7	4498	19	5579	21	5038	23	4919	17
5	XP - 103	5128	12	6469	4	2819	24	4644	8	4333	21	7576	4	5955	9	5265	8
6	B H QPM -47	6316	4	5208	15	2985	18	4097	17	4605	17	6316	16	5461	15	5086	12
7	B H QPM -48	5424	10	5507	12	2812	25	4159	16	4658	16	6299	17	5478	13	4940	16
8	B H QPM -46	4105	27	4991	19	3567	9	4279	13	4804	13	5699	20	5252	18	4633	22
9	B H QPM -44	5082	13	5119	17	2806	26	3962	19	4854	12	7467	5	6161	8	5066	13
10	B H QPM -41	5067	14	5144	16	2773	27	3958	20	5110	11	5827	18	5469	14	4784	19
11	B H QPM -50	5531	8	4953	20	2871	23	3912	22	5503	8	5299	22	5401	17	4831	18
12	B H QPM -40	3750	28	4501	24	3604	6	4053	18	4733	15	5123	23	4928	25	4342	25
13	B H QPM -43	6276	5	6121	8	3099	15	4610	10	5974	5	8053	2	7013	4	5904	4
14	B H QPM -45	6628	2	5592	11	3654	4	4623	9	4198	22	8355	1	6277	6	5685	6
15	B H QPM -42	5325	11	6096	9	3087	16	4591	11	5640	6	5739	19	5689	12	5177	10
16	X P 0105	4145	26	6252	5	3569	8	4911	5	4493	20	7133	7	5813	11	5119	11
17	BAJ QPM-1	4268	25	3102	28	3489	10	3296	28	4521	18	5016	24	4768	26	4079	26
18	BAJ QPM-2	4410	24	4748	22	3754	2	4251	14	3978	23	3334	28	3656	27	4045	27
19	BVM-7	4850	18	3879	27	2914	20	3397	27	2940	28	4074	27	3507	28	3732	28
20	S99TLWQ-HG-AB	5831	6	4608	23	3133	13	3871	23	3542	25	6354	15	4948	24	4694	21

TABLE NO. 32 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L													
		ZN 1			LUDH R			KARN R			UDAI R			CHHI R			ZN 5		MEAN R								
		BAJA	R	BAJA	R	LUDH	R	LUDH	R	KARN	R	KARN	R	UDAI	R	UDAI	R	CHHI	R	CHHI	R	ZN 5	MEAN	R	MEAN	R	
21	S99TLWQ-HG-B	4536	23	4240	26	2889	21	3564	26	2889	21	3564	26	5450	9	5450	9	4889	26	4889	26	5170	19	4401	24	4401	24
22	J H ae - 7	5002	17	5320	14	3148	12	4234	15	3148	12	4234	15	5406	10	5406	10	4900	25	4900	25	5153	21	4755	20	4755	20
23	J H wx - 29	6628	3	6974	3	3628	5	5301	2	3628	5	5301	2	4760	14	4760	14	7011	10	7011	10	5886	10	5800	5	5800	5
CHECKS:																											
24	PRO - 311	5607	7	7939	1	3117	14	5528	1	3117	14	5528	1	7731	2	7731	2	7750	3	7750	3	7741	1	6429	1	6429	1
25	K H - 510	5060	15	5497	13	3361	11	4429	12	3361	11	4429	12	5508	7	5508	7	6903	13	6903	13	6206	7	5266	7	5266	7
26	X - 3342	5022	16	6219	6	3723	3	4971	4	3723	3	4971	4	8191	1	8191	1	6798	14	6798	14	7494	2	5990	3	5990	3
27	BIO 9681	5428	9	6017	10	3797	1	4907	6	3797	1	4907	6	7294	3	7294	3	7461	6	7461	6	7378	3	6000	2	6000	2
28	SHAKTIMAN - 1	6879	1	4286	25	2935	19	3611	25	2935	19	3611	25	3769	24	3769	24	7088	8	7088	8	5429	16	4991	15	4991	15
	MEAN YIELD=	5190		5421		3202		4311		3202		4311		4983		4983		6323		6323		5653		5024		5024	
	MEAN STAND	29		31		21		26		21		26		37		37		32		32		35		30		30	
	C.D. AT 5%	877		1431		316		874		316		874		373		373		2392		2392		1383		1078		1078	
	C.V. %	10.32		18.77		6.03		-		6.03		-		5.33		5.33		18.44		18.44		-		-		-	
	F (Prob)	.000		.000		.000		-		.000		-		.000		.000		.058		.058		-		-		-	
	PLOT SIZE=	4.80		5.20		5.60		-		5.60		-		6.00		6.00		5.60		5.60		-		-		-	
AGRONOMY DATA:																											
	SOWING DATE (2003)	8-07		12-07		5-07		-		5-07		-		8-07		8-07		10-07		10-07		-		-		-	
	HARVEST DATE (2003)	-		20-10		12-10		-		12-10		-		-		-		28-10		28-10		-		-		-	
	IRRIGATION Nos	2		3		4		-		4		-		-		-		-		-		-		-		-	
	FERTILIZER APPLIED N	120		125		150		-		150		-		90		90		120		120		-		-		-	
	P	60		60		60		-		60		-		60		60		60		60		-		-		-	
	K	40		30		-		-		-		-		-		-		40		40		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DELH 22.2% : DHOL 22.5% : KOLH 27.2%

TABLE NO. 32 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PRO - 311							OV'L MEAN
	ZN 1 BAJA	LUDH	KARN	ZN 2 MEAN	UDAI	CHHI	ZN 5 MEAN	
1 J H QPM -35	-	-	-	-	-	-	-	-
2 J H QPM -155	-	-	-	-	-	-	-	-
3 J H QPM -41	-	-	-	-	-	-	-	-
4 J H QPM -144	-	-	15.13	-	-	-	-	-
5 XP - 103	-	-	-	-	-	-	-	-
6 B H QPM -47	12.65	-	-	-	-	-	-	-
7 B H QPM -48	-	-	-	-	-	-	-	-
8 B H QPM -46	-	-	14.43	-	-	-	-	-
9 B H QPM -44	-	-	-	-	-	-	-	-
10 B H QPM -41	-	-	-	-	-	-	-	-
11 B H QPM -50	-	-	-	-	-	-	-	-
12 B H QPM -40	-	-	15.62	-	-	3.90	-	-
13 B H QPM -43	11.94	-	-	-	-	7.81	-	-
14 B H QPM -45	18.23	-	17.20	-	-	-	-	-
15 B H QPM -42	-	-	-	-	-	-	-	-
16 X P 0105	-	-	14.49	-	-	-	-	-
17 BAJ QPM-1	-	-	11.93	-	-	-	-	-
18 BAJ QPM-2	-	-	20.41	-	-	-	-	-
19 BVM-7	-	-	-	-	-	-	-	-
20 S99TLWQ-HG-AB	4.01	-	0.51	-	-	-	-	-
21 S99TLWQ-HG-B	-	-	-	-	-	-	-	-
22 J H ae - 7	-	-	0.98	-	-	-	-	-
23 J H wx - 29	18.21	-	16.39	-	-	-	-	-
CHECKS:								
24 PRO - 311	-	-	-	-	-	-	-	-
25 K H - 510	-	-	7.83	-	-	-	-	-
26 X - 3342	-	-	19.41	-	5.95	-	-	-
27 BIO 9681	-	-	21.81	-	-	-	-	-
28 SHAKTIMAN - 1	22.69	-	-	-	-	-	-	-

TABLE NO. 32 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE K H - 510								OV'L MEAN	
		ZN 1 BAJA	LUDH	KARN	ZN 2 MEAN	UDAI	CHHI	ZN 5 MEAN			
1	J H QPM -35	-	-	-	-	-	-	-	2.36	-	
2	J H QPM -155	-	26.99	-	12.81	-	-	-	0.91	-	
3	J H QPM -41	-	-	-	-	17.84	-	-	1.07	8.51	
4	J H QPM -144	-	13.04	6.78	10.66	-	-	-	-	-	
5	XP - 103	1.34	17.67	-	4.85	-	-	-	9.75	-	
6	B H QPM -47	24.80	-	-	-	-	-	-	-	-	
7	B H QPM -48	7.19	0.17	-	-	-	-	-	-	-	
8	B H QPM -46	-	-	6.12	-	-	-	-	-	-	
9	B H QPM -44	0.42	-	-	-	-	-	-	8.18	-	
10	B H QPM -41	0.13	-	-	-	-	-	-	-	-	
11	B H QPM -50	9.31	-	-	-	-	-	-	-	-	
12	B H QPM -40	-	-	7.23	-	-	-	-	-	-	
13	B H QPM -43	24.02	11.34	-	4.07	8.45	-	-	16.65	12.12	
14	B H QPM -45	30.98	1.72	8.69	4.36	-	-	-	21.04	7.96	
15	B H QPM -42	5.22	10.89	-	3.66	2.38	-	-	-	-	
16	X P 0105	-	13.74	6.18	10.87	-	-	-	3.34	-	
17	BAJ QPM-1	-	-	3.81	-	-	-	-	-	-	
18	BAJ QPM-2	-	-	11.67	-	-	-	-	-	-	
19	BVM-7	-	-	-	-	-	-	-	-	-	
20	S99TLWQ-HG-AB	15.23	-	-	-	-	-	-	-	-	
21	S99TLWQ-HG-B	-	-	-	-	-	-	-	-	-	
22	J H ae - 7	-	-	-	-	-	-	-	-	-	
23	J H wx - 29	30.97	26.86	7.94	19.68	-	-	-	1.56	10.14	
CHECKS:											
24	PRO - 311	10.79	44.43	-	24.82	40.35	-	-	12.27	24.73	22.08
25	K H - 510	-	-	-	-	-	-	-	-	-	-
26	X - 3342	-	13.13	10.75	12.22	48.70	-	-	-	20.77	13.76
27	BIO 9681	7.27	9.45	12.97	10.79	32.42	-	-	8.08	18.89	13.93
28	SHAKTIMAN - 1	35.93	-	-	-	-	-	-	2.68	-	-

TABLE NO. 32 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE X - 3342										OV'L MEAN	
		ZN 1 BAJA	LUDH	KARN	ZN 2 MEAN	UDAI	CHHI	ZN 5 MEAN					
1	J H QPM -35	-	-	-	-	-	-	-	-	-	3.94	-	
2	J H QPM -155	-	12.25	-	0.52	-	-	-	-	-	2.47	-	
3	J H QPM -41	-	-	-	-	-	-	-	-	-	2.63	-	
4	J H QPM -144	-	-	-	-	-	-	-	-	-	11.45	-	
5	XP - 103	2.11	4.02	-	-	-	-	-	-	-	-	-	
6	B H QPM -47	25.75	-	-	-	-	-	-	-	-	-	-	
7	B H QPM -48	8.01	-	-	-	-	-	-	-	-	-	-	
8	B H QPM -46	-	-	-	-	-	-	-	-	-	-	-	
9	B H QPM -44	1.18	-	-	-	-	-	-	-	-	9.85	-	
10	B H QPM -41	0.89	-	-	-	-	-	-	-	-	-	-	
11	B H QPM -50	10.14	-	-	-	-	-	-	-	-	-	-	
12	B H QPM -40	-	-	-	-	-	-	-	-	-	-	-	
13	B H QPM -43	24.97	-	-	-	-	-	-	-	-	18.46	-	
14	B H QPM -45	31.98	-	-	-	-	-	-	-	-	22.91	-	
15	B H QPM -42	6.02	-	-	-	-	-	-	-	-	-	-	
16	X P 0105	-	0.54	-	-	-	-	-	-	-	4.94	-	
17	BAJ QPM-1	-	-	-	-	-	-	-	-	-	-	-	
18	BAJ QPM-2	-	-	0.83	-	-	-	-	-	-	-	-	
19	BVM-7	-	-	-	-	-	-	-	-	-	-	-	
20	S99TLMQ-HG-AB	16.11	-	-	-	-	-	-	-	-	-	-	
21	S99TLMQ-HG-B	-	-	-	-	-	-	-	-	-	-	-	
22	J H ae - 7	-	-	-	-	-	-	-	-	-	-	-	
23	J H wx - 29	31.97	12.14	-	6.65	-	-	-	-	-	3.13	-	
CHECKS:													
24	PRO - 311	11.63	27.67	-	11.22	-	-	-	-	-	14.01	3.29	7.32
25	K H - 510	0.76	-	-	-	-	-	-	-	-	1.55	-	-
26	X - 3342	-	-	-	-	-	-	-	-	-	-	-	-
27	BIO 9681	8.08	-	2.01	-	-	-	-	-	-	9.75	-	0.15
28	SHAKTIMAN - 1	36.96	-	-	-	-	-	-	-	-	4.27	-	-

TABLE NO. 32 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE BIO 9681									
Sl NO	PEDIGREE	ZN 1 BAJA	LUDH	KARN	ZN 2 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
1	J H QPM -35	-	-	-	-	-	-	-	-
2	J H QPM -155	-	16.02	-	1.83	-	-	-	-
3	J H QPM -41	-	-	-	-	-	-	-	-
4	J H QPM -144	-	3.28	-	-	-	-	-	-
5	XP - 103	-	7.51	-	-	-	1.54	-	-
6	B H QPM -47	16.35	-	-	-	-	-	-	-
7	B H QPM -48	-	-	-	-	-	-	-	-
8	B H QPM -46	-	-	-	-	-	-	-	-
9	B H QPM -44	-	-	-	-	-	0.08	-	-
10	B H QPM -41	-	-	-	-	-	-	-	-
11	B H QPM -50	1.90	-	-	-	-	-	-	-
12	B H QPM -40	-	-	-	-	-	-	-	-
13	B H QPM -43	15.62	1.73	-	-	-	7.93	-	-
14	B H QPM -45	22.11	-	-	-	-	11.99	-	-
15	B H QPM -42	-	1.31	-	-	-	-	-	-
16	X P 0105	-	3.92	-	0.07	-	-	-	-
17	BAJ QPM-1	-	-	-	-	-	-	-	-
18	BAJ QPM-2	-	-	-	-	-	-	-	-
19	BVM-7	-	-	-	-	-	-	-	-
20	S99TLWQ-HG-AB	7.43	-	-	-	-	-	-	-
21	S99TLWQ-HG-B	-	-	-	-	-	-	-	-
22	J H ae - 7	-	-	-	-	-	-	-	-
23	J H wx - 29	22.10	15.90	-	8.03	-	-	-	-
CHECKS:									
24	PRO - 311	3.29	31.95	-	12.66	5.99	3.88	4.92	7.16
25	K H - 510	-	-	-	-	-	-	-	-
26	X - 3342	-	3.36	-	1.30	12.29	-	1.58	-
27	BIO 9681	-	-	-	-	-	-	-	-
28	SHAKTIMAN - 1	26.72	-	-	-	-	-	-	-

TABLE NO. 32 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING						
		BAJA ZN 1	LUDH KARN MEAN	UDAI ZN 2	BAJA ZN 1	LUDH KARN MEAN	UDAI ZN 2				
1	J H QPM -35	61.3	50.8	48.3	49.5	59.0	55.5	64.7	52.0	51.3	51.7
2	J H QPM -155	64.3	56.5	53.7	55.1	56.3	63.0	67.3	57.5	55.7	56.6
3	J H QPM -41	60.0	54.5	52.7	53.6	55.5	58.5	64.0	55.5	54.7	55.1
4	J H QPM -144	62.3	57.5	54.7	56.1	59.3	61.5	65.0	58.5	56.7	57.6
5	XP -103	62.7	55.5	54.0	54.8	58.3	61.5	66.3	56.5	56.0	56.3
6	B H QPM -47	57.7	49.5	48.0	48.8	55.0	56.5	61.7	50.5	50.3	50.4
7	B H QPM -48	56.7	49.8	47.7	48.7	53.5	55.5	60.3	50.8	49.7	50.2
8	B H QPM -46	59.3	52.3	49.7	51.0	53.8	58.0	62.3	53.3	51.7	52.5
9	B H QPM -44	58.0	51.5	49.0	50.3	55.5	56.0	61.0	52.5	51.0	51.8
10	B H QPM -41	57.0	52.0	49.7	50.8	53.0	55.0	60.0	53.3	54.0	53.6
11	B H QPM -50	59.3	49.0	47.3	48.2	55.0	54.0	62.7	50.5	49.7	50.1
12	B H QPM -40	61.3	51.8	51.0	51.4	55.3	57.5	65.7	53.0	53.3	53.2
13	B H QPM -43	59.7	53.3	53.7	53.5	56.0	57.0	62.0	54.3	56.0	55.1
14	B H QPM -45	62.7	55.3	51.7	53.5	57.5	60.0	65.7	56.3	53.7	55.0
15	B H QPM -42	60.3	53.5	51.3	52.4	55.3	57.0	63.3	54.5	54.3	54.4
16	X P 0105	60.0	55.0	52.7	53.8	55.5	61.0	62.7	56.0	55.3	55.7
17	BAJ QPM-1	59.0	50.8	47.7	49.2	53.8	54.0	62.7	52.0	49.7	50.8
18	BAJ QPM-2	59.3	49.8	46.7	48.2	54.0	53.5	62.3	50.8	49.3	50.0
19	BVM-7	58.7	49.0	47.7	48.3	54.5	52.0	62.3	50.0	49.7	49.8
20	S99TLWQ-HG-AB	59.7	56.3	54.0	55.1	59.3	60.0	62.0	57.3	56.7	57.0
21	S99TLWQ-HG-B	63.0	56.3	51.7	54.0	57.3	62.0	67.0	57.3	54.7	56.0
22	J H ae - 7	61.0	55.5	53.7	54.6	55.0	57.0	63.7	56.8	56.0	56.4
23	J H wx - 29	60.7	54.0	50.3	52.2	56.0	56.0	64.3	55.3	53.3	54.3
CHECKS:											
24	PRO - 311	60.7	54.5	51.3	52.9	54.8	55.0	63.3	55.5	53.7	54.6
25	K H - 510	57.0	53.8	48.3	51.0	54.0	55.5	60.3	54.8	51.0	52.9
26	X - 3342	55.3	49.0	46.7	47.8	53.3	51.5	58.0	50.0	49.3	49.7
27	BIO 9681	62.0	51.5	48.0	49.8	54.8	55.0	65.7	53.0	50.0	51.5
28	SHAKTIMAN - 1	60.3	54.8	50.0	52.4	59.0	60.0	63.3	55.8	52.0	53.9
MEAN LOCATION											
C.D. AT 5% =		5.0	1.9	0.9	1.4	1.9	4.5	5.3	2.0	1.3	1.6
C.V. % =		5.0	2.6	1.1	-	2.4	3.8	5.1	2.6	1.5	-
F (Prob)		.111	.000	.000	-	.000	.000	.123	.000	.000	-

TABLE NO. 32 (CONT.)

SI NO	PEDIGREE	DAYS TO 50%			SILKING			DAYS TO 50%			DRY HUSK			OV'L MEAN	
		UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	BAJA	LUDH	KARN	ZN 2 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN		
1	J H QPM -35	62.5	56.5	59.5	57.4	98.0	84.0	81.7	82.8	91.0	95.0	93.0	89.9		
2	J H QPM -155	61.5	63.5	62.5	61.1	104.0	92.3	83.3	87.8	92.8	98.0	95.4	94.1		
3	J H QPM -41	58.0	59.5	58.8	58.3	100.3	85.0	85.7	85.3	90.8	97.0	93.9	91.8		
4	J H QPM -144	61.3	63.0	62.1	60.9	107.0	93.5	84.7	89.1	92.3	97.5	94.9	95.0		
5	XP - 103	60.5	63.0	61.8	60.5	107.3	91.8	85.0	88.4	92.8	98.0	95.4	95.0		
6	B H QPM -47	56.5	57.0	56.8	55.2	96.0	83.3	81.3	82.3	91.3	95.0	93.1	89.4		
7	B H QPM -48	54.5	56.0	55.3	54.3	97.0	84.3	78.3	81.3	91.0	94.5	92.8	89.0		
8	B H QPM -46	56.3	59.0	57.6	56.5	95.7	84.0	80.0	82.0	91.5	95.0	93.3	89.2		
9	B H QPM -44	57.5	56.5	57.0	55.7	97.0	86.5	81.7	84.1	93.0	94.5	93.8	90.5		
10	B H QPM -50	55.3	57.5	56.4	56.0	96.7	84.5	78.7	81.6	85.0	95.0	90.0	88.0		
11	B H QPM -41	56.0	56.0	56.0	55.0	100.0	83.5	78.0	80.8	92.8	94.5	93.6	89.8		
12	B H QPM -40	57.5	60.5	59.0	58.0	104.3	83.5	82.7	83.1	92.3	96.0	94.1	91.8		
13	B H QPM -43	58.3	58.0	58.4	57.8	96.3	85.0	80.7	82.7	91.3	95.0	93.1	90.4		
14	B H QPM -45	61.0	60.5	60.5	59.3	101.7	85.0	80.7	82.8	92.5	95.0	93.8	91.0		
15	B H QPM -42	58.3	58.5	58.4	57.8	99.3	84.3	85.0	84.6	88.0	94.0	91.0	90.1		
16	X P 0105	59.5	61.5	60.5	59.0	99.3	83.3	81.7	82.5	91.8	96.0	93.9	90.4		
17	BAJ QPM-1	57.5	56.0	56.8	55.6	97.7	83.5	79.7	81.6	90.5	94.5	92.5	89.2		
18	BAJ QPM-2	56.3	56.5	56.4	55.4	97.7	82.5	79.3	80.9	91.8	93.0	92.4	88.8		
19	BVM-7	56.3	54.5	55.4	54.5	95.3	82.8	81.0	81.9	91.0	91.0	91.0	88.2		
20	S99TLWQ-HG-AB	60.8	62.5	61.6	59.8	105.0	85.5	86.0	85.8	89.0	96.0	92.5	92.3		
21	S99TLWQ-HG-B	61.5	63.0	62.3	60.7	100.0	85.5	84.3	84.9	90.0	96.0	93.0	91.2		
22	J H ae - 7	57.3	59.0	58.1	58.5	99.7	87.3	84.3	85.8	88.3	93.0	90.6	90.5		
23	J H wx - 29	59.3	58.5	58.9	58.1	97.7	85.3	81.7	83.5	90.5	94.0	92.3	89.8		
CHECKS:															
24	PRO - 311	58.5	55.0	56.8	57.2	96.3	85.5	82.7	84.1	91.3	94.5	92.9	90.1		
25	K H - 510	55.5	56.0	55.8	55.5	96.0	84.3	80.7	82.5	89.3	93.5	91.4	88.7		
26	X - 3342	55.5	54.0	54.8	53.4	92.7	82.5	80.0	81.3	86.3	94.5	90.4	87.2		
27	BIO 9681	56.5	56.0	56.3	56.2	98.0	83.8	80.7	82.2	87.8	93.5	90.6	88.7		
28	SHAKTIMAN - 1	61.5	60.8	60.8	58.5	99.0	83.8	82.0	82.9	91.0	95.5	93.3	90.3		
	MEAN LOCATION	58.2	58.5	58.4	57.4	99.1	85.2	82.0	83.6	90.6	95.0	92.8	90.4		
	C.D. AT 5%	1.6	4.2	2.9	-	5.8	1.4	3.4	2.4	2.3	2.8	2.5	-		
	C.V. %	2.0	3.5	-	-	3.6	1.2	2.5	-	1.8	1.4	-	-		
	F (Prob)	.000	.000	-	-	.000	.000	.000	-	.000	.007	-	-		

TABLE NO. 32 (CONT.)

SI NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *			OV'L MEAN	
		ZN 1 BAJA	ZN 2 LUDH	UDAI CHHI	ZN 1 BAJA	ZN 5 UDAI	OV'L MEAN	ZN 1 BAJA	ZN 5 UDAI	ZN 5 UDAI		
1	J H QPM -35	23.4	22.1	16.2	19.7	18.0	20.4	2.5	2.6	2.5	2.2	2.3
2	J H QPM -155	27.0	25.0	18.5	21.7	20.1	23.0	2.7	2.1	2.3	1.9	2.1
3	J H QPM -41	30.6	24.0	19.6	21.7	20.6	24.0	2.3	2.0	2.5	2.1	2.3
4	J H QPM -144	32.0	28.7	18.7	21.9	20.3	25.3	2.3	2.0	2.3	2.0	2.2
5	XP -103	30.9	27.9	20.5	21.3	20.9	25.1	2.3	1.8	2.2	1.6	1.9
6	B H QPM -47	25.7	22.3	18.0	19.5	18.7	21.4	2.2	2.0	2.2	1.9	2.0
7	B H QPM -48	31.0	22.1	16.5	19.7	18.1	22.3	2.5	2.3	2.3	2.1	2.2
8	B H QPM -46	30.2	22.5	16.8	19.9	18.3	22.3	2.3	2.0	2.5	1.7	2.1
9	B H QPM -44	24.1	22.8	18.5	20.1	19.3	21.4	2.3	2.0	2.5	2.1	2.3
10	B H QPM -41	28.8	24.5	16.8	21.6	19.2	22.9	2.5	2.0	2.5	2.0	2.2
11	B H QPM -50	28.9	22.9	16.3	19.5	17.9	21.9	2.3	2.3	2.5	2.3	2.4
12	B H QPM -40	36.1	22.9	17.0	20.7	18.8	24.1	2.5	2.0	2.3	2.1	2.2
13	B H QPM -43	28.5	23.0	20.4	20.5	20.3	23.0	2.3	1.8	2.0	1.7	2.0
14	B H QPM -45	29.1	22.9	18.2	20.5	19.4	22.7	2.2	2.1	2.5	1.9	2.2
15	B H QPM -42	30.3	22.9	17.7	20.5	19.1	22.8	2.2	2.3	2.3	1.8	2.1
16	X P 0105	23.6	22.0	16.2	20.1	18.2	20.5	2.5	2.6	2.6	2.2	2.3
17	BAJ QPM-1	25.5	22.5	16.8	19.9	18.3	21.2	2.5	2.6	2.5	2.6	2.6
18	BAJ QPM-2	29.3	22.6	20.3	19.5	19.9	22.9	2.5	2.4	2.5	2.4	2.5
19	BVM-7	28.0	25.7	19.2	20.7	19.0	23.4	2.3	2.4	2.3	2.2	2.2
20	S99TLWQ-HG-AB	25.3	22.9	20.2	20.7	20.5	22.3	2.5	2.0	2.5	2.2	2.3
21	S99TLWQ-HG-B	30.1	26.3	18.2	20.1	19.2	23.7	2.5	2.0	2.5	2.2	2.3
22	J H ae - 7	22.1	24.0	19.3	20.5	19.9	21.5	2.2	2.2	2.5	2.1	2.2
23	J H wx - 29											
CHECKS:												
24	PRO - 311	26.1	24.0	19.6	20.8	20.2	22.6	2.2	2.0	2.2	2.3	2.2
25	K H - 510	26.4	22.4	20.0	20.0	20.0	22.2	2.5	1.9	2.2	1.6	2.0
26	X - 3342	24.5	22.3	15.8	18.9	17.3	20.4	2.3	2.5	2.3	2.0	2.2
27	BIO 9681	27.3	22.6	16.9	19.6	18.3	21.6	2.3	1.9	2.5	2.1	2.3
28	SHAKTIMAN - 1	26.6	25.5	18.5	20.7	19.6	22.8	2.2	2.2	2.3	2.3	2.3
MEAN LOCATION												
C.D. AT 5% =		3.3	1.8	0.5	1.3	0.9	-	0.4	0.5	0.3	0.5	-
C.V. % =		7.3	5.5	2.0	3.2	-	-	9.3	14.9	8.0	18.0	-
F (Prob)		.000	.000	.000	.005	-	-	.102	.014	.085	.041	-

TABLE NO. 32 (CONT.)

Sl No	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 2			ZN 5		
		BAJA	UDAI	OV'L MEAN	BAJA	UDAI	OV'L MEAN	BAJA	UDAI	ZN 1	LUDH	KARN	MEAN	UDAI	CHHI	MEAN
1	J H QPM -35	2.0	2.0	2.0	2.5	2.2	2.3	197	196	205	201	184	228	206	202	
2	J H QPM -155	2.0	1.6	1.8	2.5	2.1	2.3	192	188	193	190	125	220	173	184	
3	J H QPM -41	2.7	1.9	2.3	2.5	2.2	2.3	202	168	195	181	128	208	168	180	
4	J H QPM -144	2.2	1.7	1.9	2.5	1.9	2.2	193	190	203	197	170	225	198	196	
5	XP - 103	2.2	1.6	1.9	2.5	1.8	2.2	177	174	197	185	173	220	196	188	
6	B H QPM -47	2.2	1.8	2.0	2.5	1.9	2.2	191	173	182	177	175	205	190	185	
7	B H QPM -48	2.2	1.8	2.0	2.3	2.3	2.3	187	175	197	186	154	203	178	183	
8	B H QPM -46	2.2	1.5	1.8	2.3	2.1	2.2	181	158	200	179	154	190	172	176	
9	B H QPM -44	2.2	2.2	2.2	2.3	2.0	2.2	182	181	170	176	149	195	172	175	
10	B H QPM -41	2.2	1.8	2.0	2.5	1.8	2.2	162	155	155	155	170	175	173	163	
11	B H QPM -50	2.0	1.9	2.0	2.5	2.2	2.3	192	175	175	175	145	180	163	173	
12	B H QPM -40	2.2	1.9	2.0	2.5	1.9	2.2	194	189	210	199	159	203	181	191	
13	B H QPM -43	2.5	1.7	2.1	2.5	2.0	2.3	189	180	193	187	171	200	186	187	
14	B H QPM -45	2.0	2.0	2.0	2.3	2.4	2.4	182	184	210	197	156	215	186	189	
15	B H QPM -42	2.2	1.9	2.0	2.3	1.9	2.1	176	180	165	173	148	198	173	173	
16	X P 0105	2.0	1.7	1.8	2.3	1.7	2.0	197	200	202	201	166	238	202	200	
17	BAJ QPM-1	2.5	2.0	2.2	2.5	2.4	2.4	184	159	163	161	158	193	175	171	
18	BAJ QPM-2	2.3	2.0	2.2	2.5	2.3	2.4	173	171	210	191	141	175	158	174	
19	BVM-7	2.3	1.7	2.0	2.3	2.1	2.2	190	173	197	185	166	198	182	184	
20	S99TLWQ-HG-AB	2.2	2.0	2.1	2.3	2.0	2.1	204	171	185	178	151	208	179	184	
21	S99TLWQ-HG-B	2.3	1.7	2.0	2.5	1.7	2.1	187	168	165	166	179	198	188	179	
22	J H ae - 7	2.2	1.6	1.9	2.5	1.6	2.0	186	178	197	187	163	205	184	185	
23	J H wx - 29	1.8	1.8	1.8	2.5	2.3	2.4	192	178	213	195	179	218	198	196	
CHECKS:																
24	PRO - 311	2.0	1.8	1.9	2.3	2.0	2.2	209	171	195	183	155	198	176	185	
25	K H - 510	2.0	1.6	1.8	2.7	1.8	2.2	169	170	185	178	149	183	166	171	
26	X - 3342	2.0	2.0	2.0	2.5	2.1	2.3	166	191	197	194	175	193	184	184	
27	BIO 9681	2.0	1.7	1.8	2.5	1.7	2.1	181	181	222	201	184	215	199	197	
28	SHAKTIMAN - 1	2.0	1.6	1.8	2.5	2.3	2.4	222	169	200	184	161	190	176	188	
MEAN LOCATION																
C.D. AT 5%																
C.V. %																
F (Prob)																
10.2 18.7																
.008 .576																
41.4 16.4 15.3 15.8 13.6 21.1 17.4																
13.5 6.6 4.9																
.751 .000 .000																
5.1																
.000																

TABLE NO. 32 (CONT.)

SI NO	PEDIGREE	EAR HEIGHT (cm)			ZN 2			ZN 5			EAR NO. / PLANT			OV'L MEAN	
		ZN 1	LUDH	KARN	MEAN	UDAI	CHHI	MEAN	UDAI	CHHI	MEAN	LUDH	UDAI		CHHI
1	J H QPM -35	98	98	117	107	79	130	104	79	130	104	104	1.15	1.03	1.07
2	J H QPM -155	98	94	110	102	64	130	97	64	130	97	99	1.17	1.01	1.05
3	J H QPM -41	88	66	95	81	60	98	79	60	98	81	81	1.11	1.01	1.07
4	J H QPM -144	97	89	118	104	70	110	90	74	125	99	92	1.25	1.03	1.10
5	XP - 103	82	81	98	90	74	105	92	79	105	87	87	1.28	1.04	1.21
6	B H QPM -47	90	69	93	81	69	110	89	69	110	90	90	1.35	1.01	1.10
7	B H QPM -48	90	85	98	92	60	95	78	60	95	80	80	1.13	1.02	1.05
8	B H QPM -46	75	65	105	85	60	105	86	60	95	78	80	1.13	1.02	1.05
9	B H QPM -44	84	86	100	93	66	105	86	66	105	88	88	1.24	1.01	1.02
10	B H QPM -41	73	68	85	76	57	93	75	57	93	75	79	1.44	1.03	1.12
11	B H QPM -50	90	69	87	78	57	75	66	57	75	66	75	1.19	1.02	1.01
12	B H QPM -40	90	93	103	98	68	108	88	68	108	92	92	1.32	0.99	1.10
13	B H QPM -43	85	85	102	93	78	110	94	78	110	94	92	1.37	1.01	1.11
14	B H QPM -45	96	84	113	99	59	103	81	59	103	81	91	1.24	1.01	1.12
15	B H QPM -42	78	89	122	105	59	90	74	59	90	88	88	1.33	1.01	1.11
16	X P 0105	92	90	107	98	66	113	89	66	113	89	93	0.97	1.06	1.01
17	BAJ QPM-1	89	68	92	80	68	100	84	68	100	84	83	1.01	1.03	1.01
18	BAJ QPM-2	75	81	107	94	68	83	75	68	83	75	83	0.94	1.02	0.97
19	BVM-7	100	75	105	90	76	108	92	76	108	92	93	1.03	1.01	0.92
20	S99TLWQ-HG-AB	107	79	100	89	69	125	97	69	125	97	96	0.94	1.05	0.99
21	S99TLWQ-HG-B	93	69	93	81	82	103	92	82	103	88	88	1.00	1.01	0.95
22	J H ae - 7	90	88	107	97	83	118	100	83	118	97	97	1.05	1.01	0.94
23	J H wx - 29	100	86	110	98	78	120	99	78	120	99	99	0.99	1.02	0.96
CHECKS:															
24	PRO - 311	98	84	98	91	75	115	95	75	115	95	94	1.01	1.04	1.01
25	K H - 510	77	75	103	89	65	83	74	65	83	74	81	0.99	1.02	0.99
26	X - 3342	80	86	105	96	76	93	84	76	93	84	88	1.01	1.06	0.98
27	BIO 9681	72	75	117	96	82	100	91	82	100	91	89	1.04	1.00	0.98
28	SHAKTIMAN - 1	97	73	112	92	73	93	83	73	93	83	89	0.99	1.02	0.98
MEAN LOCATION															
C.D. AT 5%		30.6	12.1	15.9	14.0	8.7	21.1	14.9	8.7	21.1	14.9	90	-	-	-
C.V. %		21.1	10.7	9.4	-	8.8	9.8	-	8.8	9.8	-	-	-	-	-
F (Prob)		.785	.000	.001	-	.000	.000	-	.000	.000	-	-	-	-	-

TABLE NO. 32 (CONT.)

Sl No	PEDIGREE	STAND AT HARVEST				OV'L MEAN			
		H. tur.* BAJA	H. may.* BAJA	BAJA	LUDH KARN UDAI CHHI				
1	J H QPM -35	1.5	1.5	26	27	18	41	30	28
2	J H QPM -155	1.8	1.5	28	32	23	36	32	30
3	J H QPM -41	1.7	1.5	23	23	16	40	26	26
4	J H QPM -144	1.5	1.5	28	26	24	37	29	29
5	XP -103	1.5	1.5	26	31	20	41	33	30
6	B H QPM -47	1.5	1.5	24	34	22	37	33	30
7	B H QPM -48	1.7	1.3	30	30	23	38	33	31
8	B H QPM -46	1.7	1.3	27	28	18	38	28	28
9	B H QPM -44	1.5	1.5	28	33	21	36	30	30
10	B H QPM -41	1.7	1.5	35	32	24	43	31	33
11	B H QPM -50	1.7	1.5	29	30	18	39	41	31
12	B H QPM -40	1.8	2.0	28	34	24	35	31	30
13	B H QPM -43	1.7	1.7	29	37	16	34	26	28
14	B H QPM -45	1.3	1.3	27	30	20	38	38	29
15	B H QPM -42	1.5	1.5	30	33	20	39	38	32
16	X P 0105	1.5	1.5	25	36	27	35	31	31
17	BAJ QPM-1	2.2	1.5	25	22	16	38	29	26
18	BAJ QPM-2	1.5	1.7	31	33	22	39	38	33
19	BVM-7	1.5	1.8	26	33	20	37	30	29
20	S99TLWQ-HG-AB	1.5	1.7	36	32	19	36	36	32
21	S99TLWQ-HG-B	1.5	1.7	33	33	19	33	36	31
22	J H ae - 7	1.5	1.5	33	34	19	35	41	32
23	J H wx - 29	1.5	1.5	26	32	19	38	31	29
CHECKS:									
24	PRO - 311	1.5	1.5	28	33	25	38	33	31
25	K H - 510	1.5	1.7	32	34	22	36	32	31
26	X - 3342	1.5	1.5	35	35	25	32	39	33
27	BIO 9681	1.3	1.3	29	30	22	37	38	31
28	SHAKTIMAN - 1	1.5	1.7	30	26	18	40	29	29
MEAN LOCATION									
C.D. AT 5%									
C.V. %									
F (Prob)									
						3.3	6.2	4.4	7.4
						7.0	14.2	8.3	11.1
						.000	.000	.001	.005

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

TABLE NO. 33

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT KARNAL, HYDERABAD IN TRIAL No. TROP12 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE KH-510						
		ZN 2	R	HYDE	ZN 4	R	OV'L MEAN	ZN 2	R	KARN	ZN 4	R	HYDE	OV'L MEAN
1	CM 400 X CL0 2131	3446	5	6058	6	4752	5							
2	CM 142 X CML 150	2895	11	6453	3	4674	6							
3	T00 14902 X CA 00108	3434	6	6087	5	4761	4							
4	CA 14514 X CL 91836	3099	8	3970	11	3535	10							
5	T00 35202 X CA 34503	3462	4	5109	8	4285	8							
6	T00 35202 X CML-429	3593	2	6294	4	4944	2							
7	T00 35202 X CML-446	2958	9	3497	12	3227	12							
CHECKS:														
8	KH-510 (Medium)	4129	1	6577	2	5353	1							
9	Bio-9681 (Full)	3415	7	5199	7	4307	7							
10	PRO 311	2676	12	4336	9	3506	11							
11	SHAKTIMAN -1	2931	10	6831	1	4881	3						3.86	
12	X-3342 (Early)	3474	3	4335	10	3905	9							
	MEAN YIELD=	3293		5395		4344								
	MEAN STAND	13		20		16								
	C.D. AT 5%	638		638		638								
	C.V. %	8.80		7.00		-								
	F (Prob)	.154		.000		-								
	PLOT SIZE=	2.80		3.75		-								
AGRONOMY DATA:														
	SOWING DATE (2003)	5-07		10-07		-								
	HARVEST DATE (2003)	12-10		2-11		-								
	IRRIGATION Nos	4		3		-								
	FERTILIZER APPLIED N	150		120		-								
	P	60		60		-								
	K	-		40		-								

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DELH (DMR) 29.8% : LUDH 21.9%

TABLE NO. 33 (CONT.)

SL NO	PEDIGREE	GRAIN YIELD			% SUPERIORITY			OVER			THE		
		BIO-9681 ZN 2 KARN	ZN 4 HYDE	OV'L MEAN	PRO 311 ZN 2 KARN	OV'L MEAN	ZN 4 HYDE	PRO 311 ZN 2 KARN	OV'L MEAN	SHAKTIMAN -1 ZN 2 KARN	OV'L MEAN	SHAKTIMAN -1 ZN 4 HYDE	OV'L MEAN
1	CM 400 X CLO 2131	0.90	16.51	10.32	28.78	39.70	17.54						
2	CM 142 X CML 150		24.11	8.52	8.20	48.82							
3	TOO 14902 X CA 00108	0.57	17.08	10.53	28.35	40.39	17.15						
4	CA 14514 X CL 91836				15.83		5.72						
5	TOO 35202 X CA 34503	1.37			29.38	17.82	18.09						
6	TOO 35202 X CML-429	5.23	21.05	14.78	34.30	45.15	22.58					1.28	
7	TOO 35202 X CML-446				10.57		0.92						
CHECKS:													
8	KH-510 (Medium)	20.91	26.49	24.28	54.31	51.67	40.84					9.66	
9	Bio-9681 (Full)				27.63	19.91	16.49						
10	PRO 311												
11	SHAKTIMAN -1		31.37	13.32	9.56	57.53		39.22					
12	X-3342 (Early)	1.73			29.84		18.51						

SL NO	PEDIGREE	GRAIN YIELD % SUPERIORITY			DAYS TO 50%			DAYS TO 50%			MOIST.		
		OVER THE X-3342 ZN 2 KARN	ZN 4 HYDE	OV'L MEAN	OVER THE X-3342 ZN 2 KARN	ZN 4 HYDE	OV'L MEAN	OVER THE X-3342 ZN 2 KARN	ZN 4 HYDE	OV'L MEAN	OVER THE X-3342 ZN 2 KARN	ZN 4 HYDE	OV'L MEAN
1	CM 400 X CLO 2131		39.73	21.70	50.5	54.7	52.6	53.0	57.0	55.0	55.0	23.5	
2	CM 142 X CML 150		48.85	19.71	53.5	54.0	53.8	56.5	56.3	56.4	56.4	19.3	
3	TOO 14902 X CA 00108		40.42	21.93	52.5	53.7	53.1	54.0	56.0	55.0	55.0	21.0	
4	CA 14514 X CL 91836				52.0	51.0	51.5	54.0	53.3	53.7	53.7	22.2	
5	TOO 35202 X CA 34503		17.84	9.75	52.0	55.3	53.7	54.0	57.3	55.7	55.7	20.4	
6	TOO 35202 X CML-429	3.43	45.18	26.61	54.0	54.7	54.3	56.0	57.0	56.5	56.5	21.3	
7	TOO 35202 X CML-446				54.5	53.3	53.9	57.0	55.3	56.2	56.2	22.7	
CHECKS:													
8	KH-510 (Medium)	18.85	51.71	37.09	49.5	51.3	50.4	51.5	52.7	52.1	52.1	23.2	
9	Bio-9681 (Full)		19.94	10.31	50.5	54.0	52.3	53.5	56.0	54.8	54.8	20.1	
10	PRO 311		0.02		53.5	55.7	54.6	56.5	58.0	57.3	57.3	21.5	
11	SHAKTIMAN -1		57.56	25.01	53.5	51.3	52.4	56.0	52.7	54.3	54.3	24.7	
12	X-3342 (Early)				48.0	51.0	49.5	51.5	53.3	52.4	52.4	21.1	
MEAN LOCATION													
C.D. AT 5%													
C.V. %													
F (Prob)													

TABLE NO. 33 (CONT.)

Sl	No PEDIGREE	DAYS TO 50%		OV'L	PLANT		EAR	HUSK		UNIFO	PLANT HEIGHT		OV'L	
		DRY HUSK	50%		ASP.	ASP.		COV.	-RMITY		KARN	HYDE		KARN
1	CM 400 X CL0 2131	81.5	90.0	85.8	2.7	2.5	2.5	2.5	2.5	2.5	2.5	148	122	135
2	CM 142 X CML 150	84.0	88.7	86.3	2.7	2.7	2.5	2.5	2.5	2.8	2.8	148	118	133
3	TOO 14902 X CA 00108	82.0	88.3	85.2	2.5	2.5	2.3	2.3	2.5	2.5	2.5	145	130	138
4	CA 14514 X CL 91836	82.5	85.7	84.1	2.8	2.7	2.5	2.5	2.7	2.7	2.7	140	127	133
5	TOO 35202 X CA 34503	84.5	89.7	87.1	2.5	2.7	2.2	2.2	2.5	2.5	2.5	185	145	165
6	TOO 35202 X CML-429	82.5	89.3	85.9	2.8	2.5	2.3	2.3	2.8	2.8	2.8	163	115	139
7	TOO 35202 X CML-446	84.5	87.0	85.8	2.7	2.7	2.3	2.3	2.7	2.7	2.7	185	115	150
CHECKS:														
8	KH-510 (Medium)	79.5	85.0	82.3	2.8	2.8	2.7	2.7	2.8	2.8	2.8	133	143	138
9	Bio-9681 (Full)	80.5	89.0	84.8	2.8	2.5	2.5	2.5	2.7	2.7	2.7	195	123	159
10	PRO 311	83.5	89.7	86.6	2.2	2.3	2.2	2.2	2.2	2.2	2.2	153	110	131
11	SHAKTIMAN -1	84.0	85.7	84.8	2.5	2.7	2.5	2.5	2.5	2.5	2.5	155	150	153
12	X-3342 (Early)	79.5	86.0	82.8	2.7	2.7	2.3	2.3	2.7	2.7	2.7	193	132	162
MEAN LOCATION														
C.D. AT 5% =		1.3	2.8	-	0.5	0.5	0.4	0.4	0.5	0.5	0.5	14.5	5.7	-
C.V. % =		0.7	1.9	-	11.1	11.1	9.4	9.4	11.9	11.9	11.9	4.1	2.6	-
F (Prob)		.000	.004	-	.253	.782	.269	.269	.368	.368	.368	.000	.000	-

TABLE NO. 33 (CONT.)

SI NO	PEDIGREE	EAR HEIGHT (cm)		OV'L		EAR NO. STAND AT HARVEST / PLANT		OV'L	
		KARN	HYDE	MEAN	MEAN	HYDE	KARN	HYDE	MEAN
1	CM 400 X CLO 2131	73	53	63	63	1.16	11	19	15
2	CM 142 X CML 150	73	53	63	63	1.10	15	20	17
3	TOO 14902 X CA 00108	68	55	61	61	0.94	13	21	17
4	CA 14514 X CL 91836	68	60	64	64	0.99	12	17	14
5	TOO 35202 X CA 34503	105	65	85	85	1.12	13	22	17
6	TOO 35202 X CML-429	81	52	66	66	1.25	13	20	17
7	TOO 35202 X CML-446	88	52	70	70	1.02	16	21	18
CHECKS:									
8	KH-510 (Medium)	73	73	73	73	1.12	11	21	16
9	Bio-9681 (Full)	103	62	82	82	1.05	12	20	16
10	PRO 311	93	50	71	71	1.06	13	17	15
11	SHAKTIMAN -1	75	63	69	69	0.98	13	20	17
12	X-3342 (Early)	103	65	84	84	1.00	11	19	15
MEAN LOCATION									
	C.D. AT 5%	9.9	4.5	-	-	-	2.7	1.9	-
	C.V. %	5.4	4.6	-	-	-	9.7	5.7	-
	F (Prob)	.000	.000	-	-	-	.044	.000	-

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

TABLE NO. 34
 PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT KARNAL, HYDERABAD IN TRIAL NO. TRQPM13
 DURING KHARIF (2003).

SL NO	PEDIGREE	GRAIN YIELD (kg/ha)			GRAIN YIELD (kg/ha)			% SUPERIORITY OVER THE			OV'L MEAN	
		KARN	HYDE	R	KARN	HYDE	R	KARN	HYDE	SHAKTIMAN-1		
1	DMR ae EH-0301	3862	2	3241	14	3552	11	13.27	-	20.11	17.61	18.96
2	DMR ae EH-0302	3431	9	3998	8	3715	8	0.63	-	6.71	45.10	24.43
3	DMR ae EH-0303	3678	6	3531	11	3604	9	7.86	-	14.37	28.13	20.72
4	DMR ae EH OH-03-1	3369	11	3348	13	3359	14	-	-	4.79	21.49	12.50
5	DMR WXY EH 0301	4336	1	4121	6	4229	3	27.17	-	34.85	49.55	41.63
6	DMR ae EH-0304	2887	14	3826	9	3357	15	-	-	-	38.86	12.42
7	DMR ae EH-0305	2426	16	5390	2	3908	6	-	-	-	95.60	30.90
8	DMR ae EH-0306	3745	4	4787	4	4266	2	9.84	-	16.47	73.70	42.88
9	DMR ae EH-0307	3274	12	4436	5	3855	7	-	-	1.80	60.97	29.11
10	DMR ae EH-0308	3705	5	4112	7	3909	5	8.66	-	15.22	49.23	30.92
11	DMR ae EH-0309	3819	3	2899	15	3359	13	12.00	-	18.76	5.21	12.51
12	DMR ae EH-0310	2695	15	5194	3	3945	4	-	-	-	88.49	32.12
13	DMR ae EH-0311	3468	8	3410	12	3439	12	1.70	-	7.84	23.76	15.19
14	HOP -1	3622	7	3531	10	3576	10	6.22	-	12.63	28.13	19.79
CHECKS:												
15	KH-510	3410	10	5972	1	4691	1	-	-	6.04	116.73	57.12
16	SHAKTIMAN-1	3216	13	2756	16	2986	16	-	-	-	-	-
	MEAN YIELD=	3434		4035		3734						
	MEAN STAND	13		19		16						
	C.D. AT 5%=	759		443		601						
	C.V. % =	10.37		6.60		-						
	F (Prob)	.003		.000		-						
	PLOT SIZE=	2.80		3.75		-						
AGRONOMY DATA:												
	SOWING DATE (2003)	5-07		9-07		-						
	HARVEST DATE (2003)	12-10		1-11		-						
	IRRIGATION Nos	4		-		-						
	FERTILIZER APPLIED	N 150		120		-						
		P 60		60		-						
		K -		40		-						

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DELH 28.5%

TABLE NO. 34 (CONT.)

SL NO	PEDIGREE	POLLEN SHED		D A Y S		SILKING		T O		5 0 %		DRY HUSK		OV'L		MOIST	
		KARN	HYDE	OV'L	MEAN	KARN	HYDE	KARN	HYDE	KARN	HYDE	MEAN	HYDE	KARN	HYDE	MEAN	HYDE
1	DMR ae EH-0301	54.0	52.0	53.0	56.5	54.0	55.3	82.5	91.0	86.8	20.3						
2	DMR ae EH-0302	51.5	51.3	51.4	53.5	53.3	53.4	81.5	89.7	85.6	19.0						
3	DMR ae EH-0303	49.0	51.7	50.3	51.0	54.0	52.5	81.0	89.7	85.3	20.7						
4	DMR ae EH 0H-03-1	50.5	49.7	50.1	53.5	51.7	52.6	86.0	90.7	88.3	20.8						
5	DMR WXY EH 0301	51.0	50.3	50.7	54.0	52.3	53.2	85.5	93.3	89.4	22.5						
6	DMR ae EH-0304	55.0	52.7	53.8	57.0	55.0	56.0	86.5	92.0	89.3	21.1						
7	DMR ae EH-0305	48.5	50.7	49.6	50.5	53.0	51.8	80.5	92.0	86.3	18.8						
8	DMR ae EH-0306	54.0	48.3	51.2	56.0	50.7	53.3	84.5	89.7	87.1	20.0						
9	DMR ae EH-0307	53.5	51.3	52.4	56.0	53.0	54.5	87.0	90.0	88.5	20.2						
10	DMR ae EH-0308	53.5	50.0	51.8	55.5	52.3	53.9	83.0	91.3	87.2	19.8						
11	DMR ae EH-0309	49.5	52.7	51.1	52.5	54.7	53.6	81.0	91.3	86.2	21.1						
12	DMR ae EH-0310	55.5	52.7	54.1	57.5	54.7	56.1	86.5	93.0	89.8	23.4						
13	DMR ae EH-0311	51.0	52.0	51.5	53.5	54.0	53.8	84.0	90.0	87.0	18.6						
14	HOP -1	51.5	50.3	50.9	53.5	52.7	53.1	81.0	90.3	85.7	20.8						
CHECKS:																	
15	KH-510	53.0	52.0	52.5	55.5	54.0	54.8	84.5	89.5	87.0	23.3						
16	SHAKTIMAN-1	49.5	53.3	51.4	52.0	55.3	53.7	83.5	93.7	88.6	23.2						
MEAN LOCATION																	
	C.D. AT 5% =	0.8	3.8	-	1.0	3.6	-	1.1	2.5	-	1.5						
	C.V. % =	0.7	4.4	-	0.8	4.0	-	0.6	1.7	-	4.2						
	F (Prob)	.000	.443	-	.000	.433	-	.000	.017	-	.000						

TABLE NO. 34 (CONT.)

SL No	PEDIGREE	PLANT ASP. *		HUSK COV. *		UNIFO RMITY *		PLANT HEIGHT (cm)				EAR HEIGHT (cm)				EAR No. / PLANT HARVEST		STAND AT HARVEST	
		HYDE	HYDE	HYDE	HYDE	ZN 2	ZN 4	OV'L MEAN	KARN	HYDE	ZN 2	ZN 4	OV'L MEAN	KARN	HYDE	ZN 2	ZN 4		OV'L MEAN
1	DMR ae EH-0301	2.7	2.8	2.5	2.8	2.8	2.8	125	123	124	63	50	56	0.98	15	22			
2	DMR ae EH-0302	2.7	2.5	2.8	2.5	2.5	2.5	140	102	121	60	43	52	0.98	13	21			
3	DMR ae EH-0303	2.7	2.5	2.5	2.5	2.5	2.5	190	128	159	115	45	80	0.95	14	19			
4	DMR ae EH-OH-03-1	2.5	2.7	2.5	2.7	2.7	2.7	165	108	137	78	47	52	1.06	12	21			
5	DMR WXY EH 0301	2.8	2.5	2.8	2.7	2.7	2.7	138	100	119	78	48	63	1.07	13	18			
6	DMR ae EH-0304	2.8	2.7	2.7	3.0	3.0	3.0	143	142	142	43	68	55	0.90	11	21			
7	DMR ae EH-0305	2.7	2.3	2.8	2.5	2.5	2.5	150	130	140	63	63	63	1.03	14	20			
8	DMR ae EH-0306	2.5	2.8	2.3	2.5	2.5	2.5	140	137	138	68	67	67	0.95	15	18			
9	DMR ae EH-0307	2.5	2.3	2.7	2.7	2.7	2.7	135	122	128	50	52	51	0.94	13	21			
10	DMR ae EH-0308	2.3	2.3	2.3	2.7	2.7	2.7	125	135	130	43	63	53	0.94	13	20			
11	DMR ae EH-0309	2.5	2.5	2.5	2.3	2.3	2.3	145	117	131	98	50	74	1.01	13	18			
12	DMR ae EH-0310	2.5	2.0	2.3	2.5	2.5	2.5	163	138	150	93	60	76	1.07	10	18			
13	DMR ae EH-0311	2.7	2.2	2.8	2.7	2.7	2.7	135	107	121	83	45	64	1.00	13	18			
14	HOP -1	2.8	2.5	2.7	2.7	2.7	2.7	153	95	124	63	38	50	1.07	14	20			
CHECKS:																			
15	KH-510	2.5	3.0	2.3	2.3	2.3	2.3	155	145	150	83	60	71	1.07	11	18			
16	SHARITMAN-1	3.2	2.8	2.7	2.7	2.7	2.7	170	103	137	85	43	64	0.96	15	16			
MEAN LOCATION																			
C.D. AT-5% =																			
C.V. % =																			
F (Prob) =																			

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

TABLE NO. 35

PERFORMANCE OF HYBRIDS & COMPOSITES AS BABY CORN AT ALMORA, DELHI, DHOLI AND JASHIPUR IN BABY CORN TRIAL, IN KHARIF 2003.

S. NO	PEDIGREE	YIELD OF BABY CORN WITHOUT HUSK (kg/ha)				YIELD OF BABY CORN WITH HUSK (kg/ha)							
		ALMORA	DELHI	DHOLI	JASHIPUR	ALMORA	DELHI	JASHIPUR	JASHIPUR				
1	DBEH- 10201	1318	554	610	4	1135	4	6861	2	2642	8	3996	5
2	DBC - 1	1386	781	708	2	958	8	7114	1	3233	6	3825	6
3	V L - 78	1059	1204	705	3	1081	5	5275	6	5517	1	4217	2
4	F H - 3054	1142	996	720	1	1208	3	5975	4	4846	2	4604	1
5	VL MAKKA - 42	1142	800	560	8	1343	1	5836	5	3427	5	3635	7
6	HIM - 129	932	498	592	5	1307	2	4809	7	2771	7	4127	3
7	X - 3342	1281	929	567	7	1069	6	6019	3	4163	3	3300	8
8	KIRAN	818	854	573	6	1063	7	4472	8	3460	4	4042	4
	LOC. MEAN	1135	827	629		1146		5795		3757		3968	
	C.D. (5%)	306	407	212		251		1423		1393		1033	
	C.V. (%)	15.42	33.44	22.95		14.87		14.02		25.22		17.71	
	F (Prob)	0.02	0.03	0.51		0.06		0.02		0.00		0.32	

PEDIGREE	FODDER YIELD (kg/ha)		SILKING PLANT ASPECT 50%		EAR ASPECT	
	ALMORA	DELHI	ALMORA	DELHI	ALMORA	DELHI
1	21790	9667	8	11521	2.5	4.5
2	22593	15167	5	13708	2.6	3.5
3	25123	18833	7	11917	2.5	4.3
4	17407	25000	3	14750	2.5	3.5
5	20556	10833	4	14521	2.3	4.0
6	18210	14000	5	19042	2.9	3.5
7	17593	13500	6	13688	2.6	4.3
8	19938	20667	2	15146	2.6	3.5
	20401	15958		14286	2.6	3.0
	6299	7180		5048	2.6	2.4
	17.63	30.60		24.03	0.5	0.6
	0.19	0.00		0.14	0.6	0.9
				5.45	14.60	16.50
				0.18	0.53	0.17

TABLE NO. 35 (CONT.)

S. NO PEDIGREE	PLANT HEIGHT (cm)		EAR HEIGHT (cm)		DEHUSKED COB LEN. (cm)		DEHUSKED COB GIRTH AT HARVEST (cm)		STAND / PLOT	
	DELHI	JASHIP	DELHI	JASHIP	ALMORA	ALMORA	ALMORA	ALMORA	ALMORA	DELHI
1 DBEH- 10201	127.5	172.5	67.5	72.8	7.2	7.2	4.1	66.0	86.5	
2 DEC - 1	136.3	171.0	76.3	78.5	7.3	7.3	4.3	66.0	82.0	
3 V L - 78	143.8	173.5	82.5	77.8	7.9	7.9	4.5	65.0	157.3	
4 F H - 3054	153.8	170.5	83.8	77.5	7.4	7.4	4.2	61.0	146.0	
5 VL MAKKA - 42	138.8	174.3	71.3	81.8	7.7	7.7	4.6	62.0	79.8	
6 HIM - 129	135.0	171.8	76.3	80.8	7.3	7.3	4.0	63.3	61.3	
7 X - 3342	118.8	171.8	70.0	77.5	7.2	7.2	4.3	63.3	94.5	
8 KIRAN	145.0	170.8	81.3	81.0	7.8	7.8	4.4	63.3	101.8	
LOC. MEAN	137.3	172.0	76.1	78.4	7.5	7.5	4.3	63.8	101.1	
C.D. (5%)	22.6	14.3	19.7	8.2	1.3	1.3	0.6	3.0	55.0	
C.V. (%)	11.20	5.66	17.64	7.11	9.92	9.92	8.38	2.71	37.02	
F (Prob)	0.11	1.00	0.58	0.42	0.90	0.90	0.55	0.03	0.02	

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

TABLE NO. 36

PERFORMANCE OF SWEET CORN COMPOSITES AT ALMORA, BAJAURA, DELHI (DMR), LUDHIANA, DHOLI, UDAIPUR IN TRIAL No. TRSWEET DURING KHARIF (2003).

Sl No	PEDIGREE	GREEN EAR YIELD kg/ha		GRAIN YIELD (kg/ha) AT 15% MOISTURE		AT 15% MOISTURE		ZN 2		ZN 3		ZN 5		OV/L			
		ALMO	R	BAJA	R	DMR	DELH	R	LUDH	R	MEAN	R	DHOL	R	UDAI	R	MEAN
1	ZA WIN YELLOW SWEET CORN	9133	7	3439	5	2402	8	1298	9	1850	8	1412	9	3673	10	2445	10
2	ZA WIN ORANG SWEET CORN	8480	10	3685	4	2089	10	1305	8	1697	9	1349	10	4092	9	2504	9
3	ZA WIN SWEET CORN - I	8798	9	2998	9	2237	9	1146	10	1692	10	2039	7	4497	6	2583	8
4	JC (SWEET CORN) - 1	9927	4	2826	10	4146	6	2456	4	3301	4	3608	3	4523	5	3512	5
5	JC (SWEET CORN) - 4	11061	1	3223	8	4370	4	2110	6	3240	5	4047	1	4747	4	3699	4
6	JC (SWEET CORN) - 5	10265	2	4126	1	4544	1	3371	1	3958	1	3922	2	5130	2	4219	1
7	JC (SWEET CORN) - 6	9992	3	4043	2	4532	2	3311	2	3921	2	2510	5	4316	8	3742	2
8	JC (SWEET CORN) - 8	9184	6	3784	3	4259	5	2202	5	3230	6	2259	6	5033	3	3507	6
9	JC (SWEET CORN) - 10	9555	5	3437	6	4483	3	2686	3	3584	3	2604	4	5366	1	3715	3
10	V L - 15	7927	11	2569	11	1943	11	757	11	1350	11	784	11	2712	11	1753	11
CHECKS:																	
11	MADHURI	8979	8	3314	7	3017	7	1484	7	2250	7	1914	8	4380	7	2822	7
	MEAN YIELD=	9391		3404		3457		2011		2734		2404		4406		3136	
	MEAN STAND	42		43		37		60		48		-		56		49	
	C.D. AT 5%	1106		532		996		571		783		677		869		729	
	C.V. %	8.17		9.20		20.00		19.72		-		12.65		13.69		-	
	F (Prob)	.000		.000		.000		.000		-		.000		.007		-	
	PLOT SIZE=	7.20		9.60		7.50		10.40		-		15.00		12.00		-	
AGRONOMY DATA:																	
	SOWING DATE(2003)	16-07		9-07		23-07		12-07		-		20-07		8-07		-	
	HARVEST DATE(2003)	7-10		3-11		6-11		21-10		-		25-10		30-09		-	
	IRRIGATION NOS	-		2		3		3		-		-		-		-	
	FERTILIZER APPLIED N	100		90		120		125		-		100		100		-	
	P	60		45		60		60		-		60		60		-	
	K	40		30		40		30		-		40		-		-	

TABLE NO. 36 (CONT.)

SI NO	PEDIGREE	YIELD & SUPERIORITY OVER THE MADHURI										OV'L MEAN		
		ALMO	ZN 1 BAJA	DMR DELH	LU DH	ZN 2 MEAN	ZN 3 DHOL	ZN 5 UDAI	ZN 5 UDAI	ZN 5 UDAI	OV'L MEAN			
1	ZA WIN YELLOW SWEET CORN	1.72	3.77	-	-	-	-	-	-	-	-	-	-	-
2	ZA WIN ORANG SWEET CORN	-	11.20	-	-	-	-	-	-	-	-	-	-	-
3	ZA WIN SWEET CORN - I	-	-	-	-	-	-	-	-	-	-	-	-	-
4	JC (SWEET CORN) - 1	10.55	-	37.41	65.51	46.67	88.52	6.56	2.67	24.45	-	-	-	-
5	JC (SWEET CORN) - 4	23.20	-	44.84	42.24	43.98	111.48	8.37	31.11	-	-	-	-	-
6	JC (SWEET CORN) - 5	14.33	24.49	50.62	127.20	75.87	104.92	17.13	49.50	-	-	-	-	-
7	JC (SWEET CORN) - 6	11.28	22.01	50.21	123.14	74.25	31.15	32.63	-	-	-	-	-	-
8	JC (SWEET CORN) - 8	2.28	14.17	41.15	48.40	43.54	18.03	24.29	-	-	-	-	-	-
9	JC (SWEET CORN) - 10	6.42	3.70	48.60	81.01	59.28	36.07	22.50	31.66	-	-	-	-	-
10	V L - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
11	CHECKS: MADHURI	-	-	-	-	-	-	-	-	-	-	-	-	-

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED										OV'L MEAN		
		ZN 1 ALMO	ZN 1 BAJA	DMR DELH	LU DH	ZN 2 MEAN	ZN 3 DHOL	ZN 5 UDAI	ZN 5 UDAI	ZN 5 UDAI	OV'L MEAN			
1	ZA WIN YELLOW SWEET CORN	52.3	56.0	49.8	54.5	52.1	54.5	49.8	52.8	-	-	-	-	-
2	ZA WIN ORANG SWEET CORN	52.0	54.3	50.0	56.0	53.0	54.0	50.0	52.7	-	-	-	-	-
3	ZA WIN SWEET CORN - I	54.0	56.0	50.0	54.5	52.3	51.5	49.5	52.6	-	-	-	-	-
4	JC (SWEET CORN) - 1	64.0	64.7	56.5	64.0	60.3	58.5	60.5	61.4	-	-	-	-	-
5	JC (SWEET CORN) - 4	59.5	57.7	53.5	64.0	58.8	58.0	57.3	58.3	-	-	-	-	-
6	JC (SWEET CORN) - 5	56.0	61.3	50.0	56.8	53.4	56.0	53.5	55.6	-	-	-	-	-
7	JC (SWEET CORN) - 6	58.3	60.3	50.0	57.8	53.9	56.5	55.3	56.3	-	-	-	-	-
8	JC (SWEET CORN) - 8	57.0	58.3	49.5	57.0	53.3	55.5	54.3	55.3	-	-	-	-	-
9	JC (SWEET CORN) - 10	55.8	58.0	49.3	55.5	52.4	55.5	50.8	54.1	-	-	-	-	-
10	V L - 15	54.5	55.7	50.5	55.8	53.1	55.5	51.3	53.9	-	-	-	-	-
11	CHECKS: MADHURI	-	-	-	-	-	-	-	-	-	-	-	-	-
	MEAN LOCATION	54.0	59.3	50.3	56.3	53.3	54.5	52.0	54.4	-	-	-	-	-
	C.D. AT 5% =	56.1	58.3	50.8	57.5	54.1	55.5	53.1	55.2	-	-	-	-	-
	C.V. % =	0.8	3.1	2.4	1.4	1.9	2.0	1.2	-	-	-	-	-	-
	F (Prob) =	1.0	3.1	3.2	1.7	-	1.6	1.5	-	-	-	-	-	-
		.000	.000	.000	.000	-	.001	.000	-	-	-	-	-	-

TABLE NO. 36 (CONT.)

SL NO	PEDIGREE	DAYS TO 50% SILKING					DRY HUSK 50%					
		ZN 1 ALMO	ZN 1 BAJA	DMR DELH	LU DH LU DH	ZN 2 MEAN	ZN 3 DHOL	ZN 5 UDAI	OV'L MEAN	ZN 1 BAJA	ZN 2 LU DH	OV'L MEAN
1	ZA WIN YELLOW SWEET CORN	54.3	59.3	51.0	57.3	54.1	56.5	51.8	55.0	105.0	83.8	94.4
2	ZA WIN ORANG SWEET CORN	54.0	57.7	51.5	59.0	55.3	56.0	52.3	55.1	109.3	83.5	96.4
3	ZA WIN SWEET CORN - I	55.0	59.3	51.3	57.3	54.3	53.5	51.8	54.7	104.7	83.0	93.8
4	JC (SWEET CORN) - 1	67.0	67.3	58.5	67.0	62.8	61.0	63.3	64.0	111.3	96.0	103.7
5	JC (SWEET CORN) - 4	61.0	61.7	55.3	66.8	61.0	60.0	60.3	60.8	112.3	96.3	104.3
6	JC (SWEET CORN) - 5	57.5	64.3	51.0	60.0	55.5	58.0	56.3	57.8	108.7	86.0	97.5
7	JC (SWEET CORN) - 6	59.3	63.3	51.5	61.3	56.4	58.5	59.0	58.8	108.7	86.0	97.3
8	JC (SWEET CORN) - 8	58.5	62.0	51.0	59.8	55.4	58.0	56.8	57.7	107.3	84.8	96.0
9	JC (SWEET CORN) - 10	57.3	60.0	50.8	58.3	54.5	57.5	53.8	56.3	107.7	82.8	95.2
10	V L - 15	55.5	59.0	51.5	58.5	55.0	57.5	54.5	56.1	110.0	80.3	95.1
CHECKS:												
11	MADHURI	56.0	62.0	51.5	59.5	55.5	56.5	54.0	56.6	109.3	85.0	97.2
	MEAN LOCATION	57.8	61.5	52.3	60.4	56.3	57.5	55.8	57.5	108.6	86.1	97.4
	C.D. AT 5% =	0.8	2.8	2.5	1.8	2.1	1.8	1.6	-	3.4	1.3	-
	C.V. % =	1.0	2.7	3.3	2.0	-	1.4	1.9	-	1.8	1.0	-
	F (Prob)	.000	.000	.000	.000	-	.000	.000	-	.003	.000	-

SL NO	PEDIGREE	MOISTURE % AT HARVEST					PLANT ASPECT *					
		ZN 1 BAJA	DMR DELH	LU DH LU DH	ZN 2 MEAN	OV'L MEAN	ZN 1 ALMO	ZN 1 BAJA	DMR! DELH	ZN 5 UDAI	OV'L MEAN	
1	ZA WIN YELLOW SWEET CORN	21.1	29.6	22.7	26.2	24.5	2.7	2.8	2.5	2.7	2.7	
2	ZA WIN ORANG SWEET CORN	25.8	25.6	23.3	24.4	24.9	2.7	3.0	2.8	2.8	2.8	
3	ZA WIN SWEET CORN - I	21.9	31.6	22.8	27.2	25.4	2.8	3.0	2.9	2.8	2.8	
4	JC (SWEET CORN) - 1	23.8	33.8	46.0	39.9	34.5	2.5	3.0	2.4	2.2	2.5	
5	JC (SWEET CORN) - 4	26.5	34.9	45.0	40.0	35.5	2.5	2.8	2.1	2.3	2.5	
6	JC (SWEET CORN) - 5	31.4	33.9	23.3	28.6	29.5	2.5	2.7	2.3	2.2	2.4	
7	JC (SWEET CORN) - 6	24.0	32.7	23.5	28.1	26.7	2.6	2.5	2.4	2.3	2.4	
8	JC (SWEET CORN) - 8	27.1	31.0	25.5	28.3	27.9	2.7	2.8	2.1	1.9	2.4	
9	JC (SWEET CORN) - 10	21.5	28.6	24.1	26.3	24.8	2.6	2.8	2.4	2.3	2.5	
10	V L - 15	22.0	20.1	21.0	20.5	21.0	2.8	3.0	3.0	3.3	3.0	
CHECKS:												
11	MADHURI	25.2	27.4	23.5	25.4	25.3	2.7	3.0	2.9	3.1	2.9	
	MEAN LOCATION	24.6	29.9	27.3	28.6	27.3	2.6	2.9	2.5	2.5	2.6	
	C.D. AT 5% =	4.3	3.5	0.9	2.2	-	0.2	0.3	0.4	0.4	-	
	C.V. % =	10.2	8.0	2.4	-	-	5.9	6.5	11.8	10.4	-	
	F (Prob)	.002	.000	.000	-	-	.049	.054	.001	.000	-	

TABLE NO. 36 (CONT.)

SL NO	PEDIGREE	EAR ASPECT *					HUSK COVER *					OV'L MEAN
		ZN 1 ALMO	ZN 1 BAJA	DMR! DELH	ZN 3 DHOL	ZN 5 UDAI	ZN 1 ALMO	ZN 1 BAJA	ZN 1 UDAI	ZN 5 UDAI	ZN 5 UDAI	
1	ZA WIN YELLOW SWEET CORN	2.6	2.7	2.5	3.3	2.5	2.7	2.2	2.3	2.7	2.4	
2	ZA WIN ORANG SWEET CORN	2.7	2.7	2.8	3.0	2.8	2.7	2.2	2.8	2.7	2.6	
3	ZA WIN SWEET CORN - I	2.7	2.5	2.8	2.3	2.3	2.5	2.5	2.5	2.8	2.6	
4	JC (SWEET CORN) - 1	2.5	2.5	2.5	1.8	2.2	2.2	2.2	2.3	2.1	2.2	
5	JC (SWEET CORN) - 4	2.5	2.5	2.0	2.5	2.3	2.0	2.0	2.5	2.4	2.3	
6	JC (SWEET CORN) - 5	2.4	2.7	2.1	3.0	2.4	2.5	1.6	2.3	2.4	2.1	
7	JC (SWEET CORN) - 6	2.6	2.5	2.3	2.8	2.1	2.4	1.6	2.3	2.4	2.1	
8	JC (SWEET CORN) - 8	2.5	2.7	2.1	2.8	2.0	2.4	2.4	2.5	2.1	2.3	
9	JC (SWEET CORN) - 10	2.5	2.5	2.4	2.8	2.0	2.4	1.9	2.3	2.3	2.2	
10	V L - 15	2.7	3.0	3.0	4.5	2.9	3.2	2.3	2.3	2.8	2.5	
CHECKS:												
11	MADHURI	2.6	2.5	2.8	2.5	2.4	2.5	2.1	2.7	2.8	2.5	
	MEAN LOCATION	2.6	2.6	2.5	2.8	2.3	2.5	2.1	2.5	2.5	2.3	
	C.D. AT 5% =	0.2	0.3	0.5	1.4	0.4	-	0.3	0.4	0.4	-	
	C.V. % =	4.8	6.7	13.5	23.0	12.4	-	8.6	10.0	11.9	-	
	F (Prob)	.031	.050	.002	.107	.002	-	.000	.242	.005	-	

SL NO	PEDIGREE	UNIFORMITY *					PLANT HEIGHT (cm)					OV'L MEAN
		ZN 1 ALMO	ZN 5 UDAI	OV'L MEAN	ZN 1 ALMO	ZN 1 BAJA	ZN 1 DMR DELH	LUDH	ZN 2 MEAN	ZN 5 UDAI	ZN 5 UDAI	
1	ZA WIN YELLOW SWEET CORN	2.8	2.5	2.7	2.45	1.67	188	154	171	180	187	
2	ZA WIN ORANG SWEET CORN	2.8	2.6	2.7	2.41	1.70	186	148	167	165	182	
3	ZA WIN SWEET CORN - I	2.8	2.8	2.8	2.52	1.61	183	150	167	174	184	
4	JC (SWEET CORN) - 1	3.2	2.2	2.7	2.94	1.82	200	170	185	175	204	
5	JC (SWEET CORN) - 4	3.0	2.4	2.7	2.69	1.82	199	159	179	181	198	
6	JC (SWEET CORN) - 5	2.8	2.5	2.7	2.52	1.86	199	156	177	186	196	
7	JC (SWEET CORN) - 6	3.0	2.4	2.7	2.52	1.82	197	166	181	193	202	
8	JC (SWEET CORN) - 8	2.8	2.1	2.4	2.49	1.87	193	149	171	189	193	
9	JC (SWEET CORN) - 10	2.8	2.4	2.6	2.51	1.74	205	176	191	178	197	
10	V L - 15	2.8	2.8	2.8	2.14	1.69	158	116	137	180	168	
CHECKS:												
11	MADHURI	2.8	3.0	2.9	2.25	1.66	180	136	158	176	177	
	MEAN LOCATION	2.9	2.5	2.7	2.52	1.75	190	153	171	180	190	
	C.D. AT 5% =	0.2	0.3	-	12.8	16.6	15.6	17.5	16.5	13.8	-	
	C.V. % =	4.1	9.6	-	3.5	5.6	5.7	7.9	-	5.3	-	
	F (Prob)	.002	.000	-	.000	.034	.000	.000	-	.023	-	

TABLE NO. 36 (CONT.)

Sl No	PEDIGREE	EAR HEIGHT (cm)				EAR No. / PLANT				OV'L MEAN		
		ZN 1 ALMO	ZN 1 BAJA	DMR DELH	LUDH	ZN 2 MEAN	ZN 5 UDAI	OV'L MEAN	ALMO		DELH	LUDH
1	ZA WIN YELLOW SWEET CORN	117	77	73	71	72	75	82	1.01	0.91	0.91	0.95
2	ZA WIN ORANG SWEET CORN	115	77	76	59	67	68	79	1.04	0.81	0.84	0.94
3	ZA WIN SWEET CORN - I	121	82	71	66	68	90	86	1.02	0.91	0.94	0.99
4	JC (SWEET CORN) - 1	182	107	99	79	89	93	112	0.99	0.89	0.81	0.96
5	JC (SWEET CORN) - 4	160	91	94	83	88	98	105	1.00	1.00	0.88	0.99
6	JC (SWEET CORN) - 5	126	103	87	70	79	93	96	1.01	0.92	1.02	1.00
7	JC (SWEET CORN) - 6	155	80	89	79	84	94	99	0.98	0.83	0.85	0.94
8	JC (SWEET CORN) - 8	133	90	81	73	77	86	92	1.01	1.07	0.99	0.92
9	JC (SWEET CORN) - 10	120	78	84	86	85	78	89	0.96	0.66	0.89	0.94
10	V L - 15	105	92	55	36	46	70	72	0.96	1.09	0.89	0.95
CHECKS:												
11	MADHURI	111	87	72	50	61	90	82	0.99	0.84	0.91	0.93
	MEAN LOCATION	131	88	80	68	74	85	90	-	-	-	-
	C.D. AT 5%	11.5	14.1	11.6	14.8	13.2	15.3	-	-	-	-	-
	C.V. %	6.1	9.5	10.1	15.0	-	12.5	-	-	-	-	-
	F (Prob)	.000	.002	.000	.000	-	.002	-	-	-	-	-
H.turcicum * H.maydis *												
Sl No	PEDIGREE	STAND AT HARVEST				STAND AT HARVEST				OV'L MEAN		
		ZN 1 ALMO	ZN 1 BAJA	ZN 1 MEAN	ZN 1 MEAN	ALMO	BAJA	DMR DELH	LUDH		UDAI	
1	ZA WIN YELLOW SWEET CORN	2.0	1.5	1.8	2.4	1.5	2.0	43	42	47	64	58
2	ZA WIN ORANG SWEET CORN	1.8	2.0	1.9	2.6	1.7	2.1	43	40	47	64	54
3	ZA WIN SWEET CORN - I	2.4	1.6	2.0	2.7	2.0	2.3	42	46	32	67	68
4	JC (SWEET CORN) - 1	1.7	1.5	1.6	2.0	2.0	2.0	41	49	28	65	54
5	JC (SWEET CORN) - 4	2.0	1.7	1.8	2.6	1.7	2.1	43	40	35	55	53
6	JC (SWEET CORN) - 5	2.7	1.8	2.3	2.1	1.5	1.8	43	47	48	72	68
7	JC (SWEET CORN) - 6	1.5	1.5	1.5	2.3	1.5	1.9	43	42	43	57	42
8	JC (SWEET CORN) - 8	2.6	1.8	2.2	2.5	1.7	2.1	41	47	45	65	67
9	JC (SWEET CORN) - 10	1.9	1.7	1.8	2.6	1.7	2.1	44	43	38	61	48
10	V L - 15	3.2	1.8	2.5	2.5	1.7	2.1	39	35	11	46	52
CHECKS:												
11	MADHURI	2.1	1.7	1.9	2.7	2.0	2.3	41	38	28	50	50
	MEAN LOCATION	2.2	1.7	1.9	2.4	1.7	2.1	42	43	37	60	56
	C.D. AT 5%	0.4	0.4	-	0.3	0.6	-	2.8	8.4	11.9	12.8	17.6
	C.V. %	13.6	12.9	-	8.7	19.1	-	4.7	11.6	22.5	14.6	21.9
	F (Prob)	.000	.148	-	.000	.404	-	.065	.052	.000	.008	.070

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

TABLE NO. 37

PERFORMANCE OF POP CORN COMPOSITES AT BAJAURA, DELHI DMR, LUHDHIANA, KARNAL, JASHIPUR, IN TRIAL No. TRPOP DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV/L									
		ZN 1		DMR		DELH		R		LUDH		R		KARN		R		ZN 2		JASH		R	
		BAJA	R	DELH	R	LUDH	R	KARN	R	LUDH	R	KARN	R	ZN 2	MEAN	R	ZN 3	JASH	R	MEAN	R		
1	WIN POP CORN - I	4800	2	1622	2	2939	2	3034	6	2531	4	3055	5	3090	3								
2	WIN POP CORN - II	4034	5	1461	3	2487	4	3202	5	2383	5	2768	7	2790	7								
3	WIN POP CORN - III	3615	6	1834	1	2472	6	3934	2	2746	2	3119	4	2995	4								
4	WIN POP CORN - IV	4196	4	1217	6	2407	7	3220	4	2281	6	2960	6	2800	6								
5	UPC - 3	3212	7	1208	7	2474	5	2824	7	2169	7	4290	1	2801	5								
6	M C P 03-2	4242	3	1422	4	3228	1	4090	1	2913	1	4077	2	3412	1								
CHECKS:																							
7	AMBER POP CORN	4908	1	1404	5	2815	3	3646	3	2622	3	3428	3	3240	2								
	MEAN YIELD=	4144		1452		2689		3421		2521		3385		3018									
	MEAN STAND	67		41		70		24		45		63		53									
	C.D. AT 5% =	980		357		726		245		443		180		498									
	C.V. % =	13.40		16.67		18.30		2.92		-		3.61		-									
	F (Prob)	.080		.087		.130		.004		-		.000		-									
	PLOT SIZE=	9.60		15.00		10.40		5.60		-		12.00		-									
AGRONOMY DATA:																							
	SOWING DATE (2003)	9-07		23-07		14-07		5-07		-		9-07		-									
	HARVEST DATE (2003)	6-11		6-11		14-10		10-10		-		20-10		-									
	IRRIGATION Nos	2		3		4		3		-		-		-									
	FERTILIZER APPLIED N	90		120		90		150		-		120		-									
	P	45		60		30		60		-		60		-									
	K	30		40		-		-		-		60		-									

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DHOL 32.5% : CHHI 23.4%

TABLE NO. 37 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE AMBER POP CORN										DAYS TO 50% POLLEN SHED										
		Zn 1		DMR		LUDH		KARN		Zn 2		Zn 3		OV'L MEAN		BAJA		DELH				
1	WIN POP CORN - I	-	15.50	4.38	-	-	-	-	-	-	-	-	-	-	56.3	49.5	-					
2	WIN POP CORN - II	-	4.03	-	-	-	-	-	-	-	-	-	-	-	56.3	50.0	-					
3	WIN POP CORN - III	-	30.60	-	-	7.90	-	-	4.75	-	-	-	-	-	54.3	49.5	-					
4	WIN POP CORN - IV	-	-	-	-	-	-	-	-	-	-	-	-	-	55.3	50.0	-					
5	UPC - 3	-	-	-	-	-	-	-	-	-	25.15	-	-	-	53.3	52.0	-					
6	M C P 03-2	-	1.30	14.64	12.18	11.12	18.94	-	5.29	-	-	-	-	-	54.7	50.3	-					
CHECKS:																						
7	AMBER POP CORN	-	-	-	-	-	-	-	-	-	-	-	-	-	56.7	48.3	-					
MEAN LOCATION																						
C.D. AT 5% =																						
C.V. % =																						
F (Prob) =																						

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED										DAYS TO 50% SILKING										
		LUDH		KARN		Zn 2		Zn 3		OV'L MEAN		Zn 1		DMR		LUDH		KARN	Zn 2		Zn 3	
1	WIN POP CORN - I	47.5	49.0	48.7	43.8	49.2	59.3	51.0	49.3	51.0	49.3	51.0	49.3	51.0	47.8	51.7	-					
2	WIN POP CORN - II	48.5	49.5	49.3	47.0	50.3	59.0	51.3	50.8	52.5	50.8	52.5	50.8	52.5	49.8	52.7	-					
3	WIN POP CORN - III	49.0	49.5	49.3	46.8	49.8	57.7	51.3	50.8	51.5	51.2	49.8	52.2	51.5	49.8	52.2	-					
4	WIN POP CORN - IV	48.5	47.5	48.7	45.8	49.4	59.0	51.0	50.0	49.5	50.2	49.0	51.7	50.2	49.0	51.7	-					
5	UPC - 3	52.5	50.5	51.7	50.0	51.7	56.7	53.5	54.5	52.5	53.5	53.3	54.1	53.5	53.3	54.1	-					
6	M C P 03-2	48.8	51.5	50.2	47.0	50.4	57.7	51.5	50.8	53.5	51.9	50.0	52.7	51.9	50.0	52.7	-					
CHECKS:																						
7	AMBER POP CORN	46.8	50.0	48.3	45.8	49.5	59.7	50.0	49.0	53.0	50.7	49.5	52.2	50.7	49.5	52.2	-					
MEAN LOCATION																						
C.D. AT 5% =																						
C.V. % =																						
F (Prob) =																						

TABLE NO. 37 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				OV'L			
		ZN 1 BAJA	LU DH	KARN	ZN 2 MEAN	ZN 3 JASH	OV'L MEAN	ZN 1 BAJA	DMR DELH	LU DH	ZN 2 MEAN	ZN 3 JASH	OV'L MEAN
1	WIN POP CORN - I	107.3	78.0	82.5	80.3	82.0	87.5	22.6	25.8	21.5	23.6	20.0	22.5
2	WIN POP CORN - II	106.3	79.0	83.0	81.0	81.8	87.5	18.0	27.0	22.9	25.0	20.3	22.1
3	WIN POP CORN - III	105.3	78.3	83.0	80.6	81.8	87.1	18.3	24.5	22.0	23.3	20.6	21.4
4	WIN POP CORN - IV	106.3	78.0	81.5	79.8	81.8	86.9	20.5	27.9	22.5	25.2	20.4	22.8
5	UPC - 3	105.3	80.0	82.5	81.3	85.0	88.2	20.2	24.5	22.9	23.7	20.9	22.1
6	M C P 03-2	107.7	78.0	84.5	81.3	84.5	88.7	20.4	24.7	22.3	23.5	21.3	22.1
CHECKS:													
7	AMBER POP CORN	106.3	78.3	84.5	81.4	81.5	87.6	18.3	23.0	22.5	22.8	20.0	21.0
	MEAN LOCATION	106.4	78.5	83.1	80.8	82.6	87.6	19.8	25.4	22.4	23.9	20.5	22.0
	C.D. AT 5% =	2.8	1.7	1.6	1.6	2.0	-	1.4	2.9	0.3	1.6	0.3	-
	C.V. % =	1.5	1.5	0.8	-	1.6	-	3.9	7.7	0.9	-	1.0	-
	F (Prob)	.495	.190	.024	-	.004	-	.000	.037	.000	-	.000	-

SI NO	PEDIGREE	PLANT ASPECT *				EAR ASPECT *				HUSK COVER *			
		BAJA	DMR DELH	JASH	OV'L MEAN	BAJA	DMR DELH	JASH	OV'L MEAN	ZN 1 BAJA	ZN 3 JASH	OV'L MEAN	
1	WIN POP CORN - I	2.7	2.4	3.3	2.8	2.2	2.4	3.0	2.5	2.5	2.8	2.6	
2	WIN POP CORN - II	2.8	2.6	4.0	3.2	2.3	2.6	3.3	2.7	2.5	3.3	2.9	
3	WIN POP CORN - III	2.8	2.6	3.5	3.0	2.5	2.3	3.5	2.8	2.7	2.8	2.7	
4	WIN POP CORN - IV	2.7	2.9	3.5	3.0	2.3	2.9	3.8	3.0	2.2	3.3	2.7	
5	UPC - 3	2.8	2.9	2.0	2.6	2.0	2.8	1.5	2.1	2.8	2.3	2.5	
6	M C P 03-2	2.5	2.9	2.0	2.5	2.2	2.8	1.5	2.1	2.8	2.3	2.5	
CHECKS:													
7	AMBER POP CORN	2.7	2.6	3.0	2.8	2.2	2.5	2.5	2.4	2.3	2.8	2.5	
	MEAN LOCATION	2.7	2.7	3.0	2.8	2.2	2.6	2.7	2.5	2.5	2.8	2.6	
	C.D. AT 5% =	0.5	0.6	0.7	-	0.5	0.6	0.8	-	0.5	0.6	-	
	C.V. % =	9.4	14.2	16.2	-	11.6	14.6	19.8	-	10.2	15.9	-	
	F (Prob)	.637	.471	.000	-	.380	.262	.000	-	.063	.018	-	

TABLE NO. 37 (CONT.)

Sl No	PEDIGREE	POPING VOLUME FOR 150 gm OF GRAIN AT 15% MOIS.						H. turc.		H. may.	
		DELH	LUDH	ZN 2 MEAN	ZN 3 JASH	ZN 3 OV'L MEAN	BAJA *	BAJA *	BAJA *	BAJA *	
1	WIN POP CORN - I	425	593	509	663	560	1.7	1.7	1.7	1.7	
2	WIN POP CORN - II	350	663	506	675	563	1.5	1.5	1.7	1.7	
3	WIN POP CORN - III	375	590	483	700	555	1.7	1.7	1.7	1.7	
4	WIN POP CORN - IV	500	648	574	738	628	1.7	1.7	1.8	1.8	
5	UPC - 3	250	405	328	375	343	1.7	1.7	1.8	1.8	
6	M C P 03-2	400	508	454	563	490	1.8	1.8	1.8	1.8	
CHECKS:											
7	AMBER POP CORN	563	598	580	675	612	1.7	1.7	1.5	1.5	
	MEAN LOCATION	409	572	490	627	536	1.7	1.7	1.7	1.7	
	C.D. AT 5% =	41.5	41.1	41.3	61.2	-	0.4	0.4	0.6	0.6	
	C.V. % =	6.8	4.8	-	6.6	-	14.4	14.4	20.1	20.1	
	F (Prob) =	.000	.000	-	.000	-	.809	.809	.865	.865	

Sl No	PEDIGREE	STAND AT HARVEST						OV'L	
		BAJA	DELH	LUDH	KARN	JASH	MEAN	MEAN	MEAN
1	WIN POP CORN - I	69	44	71	28	65	65	56	56
2	WIN POP CORN - II	74	35	70	21	65	65	53	53
3	WIN POP CORN - III	66	47	69	26	62	62	54	54
4	WIN POP CORN - IV	65	35	72	23	64	64	52	52
5	UPC - 3	57	45	67	25	63	63	51	51
6	M C P 03-2	67	41	72	25	61	61	53	53
CHECKS:									
7	AMBER POP CORN	69	41	67	23	63	63	53	53
	MEAN LOCATION	67	41	70	24	63	63	53	53
	C.D. AT 5% =	7.9	19.7	5.0	3.3	4.0	4.0	-	-
	C.V. % =	6.7	32.2	4.8	5.5	4.2	4.2	-	-
	F (Prob) =	.019	.791	.201	.022	.353	.353	-	-

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

TABLE NO. 38

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, POONCH IN IET OF 2002 KHARIF PLANTED DURING 2003 KHARIF, IN TRIAL NO. TR61AS

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE DECCAN - 103						
		SRIN	R	POON	R	MEAN	R	SRIN	POON	MEAN	R	SRIN	POON	MEAN
1	J H - 10521	4518	8	6283	23	5401	16	5.79	-	-	-	15.55	-	-
2	UMH - 39	3137	25	6246	24	4691	25	-	-	-	-	-	-	-
3	BH - 2355	3820	17	7531	13	5675	15	-	-	-	-	-	-	-
4	BH - 2358	3569	19	5141	28	4355	28	-	-	-	-	-	-	-
5	BH - 2523	2510	26	7294	18	4902	23	-	-	-	-	-	-	-
6	BH - 2528	3275	23	7403	15	5339	18	-	-	-	-	-	-	-
7	HKH - 1193	3773	18	5076	29	4424	27	-	-	-	-	-	-	-
8	101501 x 101505	3451	21	7334	17	5393	17	-	-	-	-	-	-	-
9	101502 x 101505	4302	15	5918	25	5110	19	0.73	-	-	10.03	-	-	-
10	101503 x 101522	3929	15	5292	26	4611	26	-	-	-	0.50	-	-	-
11	X 1231 H	3443	22	8171	6	5807	10	-	3.62	-	-	-	6.58	0.39
12	MCH - 1	2000	29	8138	7	5069	20	-	3.21	-	-	-	6.26	-
13	MCH - 3	2498	27	7368	16	4933	22	-	-	-	-	-	-	-
14	VIPL 1804	2365	28	7565	12	4965	21	-	-	-	-	-	-	-
15	X - 2125	4714	5	10668	1	7691	1	10.38	35.29	26.54	20.56	39.29	32.96	-
16	SEEDTEC - C 12	4298	11	7072	20	5685	14	0.64	-	-	9.93	-	-	-
17	BISCO - 167	3255	24	6527	22	4891	24	-	-	-	-	-	-	-
18	PAC 71061	3502	20	5194	27	4348	29	-	-	-	-	-	-	-
19	ROBUST	3992	14	7593	10	5793	12	-	-	-	-	-	-	-
20	NECH - 118	4686	16	7507	14	6097	17	9.73	-	0.31	2.11	-	0.14	-
21	FILLER	4725	4	6943	21	5834	9	10.65	-	-	19.86	-	5.40	-
22	JKMH - 951	4588	7	8315	5	6452	4	7.44	5.46	6.15	20.86	8.57	0.86	-
23	A A M H - 441	4773	3	7570	11	6171	6	11.75	-	1.53	17.35	-	11.54	-
24	G K - 3046	5157	1	8458	3	6807	3	20.75	7.26	12.00	31.90	10.43	6.69	-
25	PRUWI - 116	4922	2	9115	2	7018	2	15.24	15.59	15.47	25.88	19.01	21.33	-
CHECKS:														
26	PRO - 311	4271	12	7885	8	6078	8	-	-	-	9.23	2.95	5.07	-
27	DECCAN - 103	3910	16	7659	9	5784	13	-	-	-	-	-	-	-
28	BIO - 9681	4059	13	8358	4	6208	5	-	5.99	2.15	3.81	9.13	7.33	-
29	GANGA - 11	4412	19	7187	19	5799	11	3.31	-	-	12.84	-	0.26	-
	MEAN YIELD=	3857		7269		5563								
	MEAN STAND			23		23								
	C.D. AT 5%	959		868		914								
	C.V. %	17.69		8.49		-								
	F (Prob)	.000		.000		-								
	PLOT SIZE=	6.00		4.00		-								
AGRONOMY DATA:														
	AWING DATE(2003)	11-05		23-06		-								
	HARVEST DATE(2003)	20-10		29-10		-								
	IRRIGATION Nos													
	FERTILIZER APPLIED													
	N										80		60	
	P										60		40	
	K										40		20	

TABLE NO. 38 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681				OVER THE GANGA - 11				Zn 1 MEAN	POLL. SHED 50% POON	SILK - ING 50% POON
		SRIN	POON	Zn 1 MEAN	SRIN	POON	Zn 1 MEAN	SRIN	POON			
1	J H - 10521	11.30	-	-	2.40	-	-	-	-	66.5	68.8	
2	UMH - 39	-	-	-	-	-	-	-	-	65.3	68.3	
3	BH - 2355	-	-	-	-	-	4.79	-	-	63.0	64.3	
4	BH - 2358	-	-	-	-	-	-	-	-	66.3	69.3	
5	BH - 2523	-	-	-	-	-	1.49	-	-	66.8	69.8	
6	BH - 2528	-	-	-	-	-	3.01	-	-	64.3	65.8	
7	HKH - 1193	-	-	-	-	-	-	2.05	-	67.3	70.0	
8	101501 x 101505	-	-	-	-	-	-	-	-	62.5	65.3	
9	101502 x 101505	5.99	-	-	-	-	-	-	-	65.0	68.0	
10	101503 x 101522	-	-	-	-	-	-	-	-	67.3	69.8	
11	X 1231 H	-	-	-	-	-	-	13.69	0.13	67.5	70.5	
12	MCH - 1	-	-	-	-	-	-	13.24	-	64.0	67.0	
13	MCH - 3	-	-	-	-	-	-	2.52	-	64.5	67.5	
14	VIPL 1804	-	-	-	-	-	-	5.26	-	66.3	69.3	
15	X - 2125	16.14	27.64	23.88	6.84	48.43	-	-	32.61	61.8	64.3	
16	SEEDTEC - C 12	5.89	-	-	-	-	-	-	-	66.8	69.3	
17	BISCO - 167	-	-	-	-	-	-	-	-	66.5	69.5	
18	PAC 71061	-	-	-	-	-	-	-	-	67.0	69.8	
19	ROBUST	-	-	-	-	-	-	5.66	-	64.0	67.0	
20	NECH - 118	15.46	-	-	6.22	-	-	4.46	5.13	70.0	73.0	
21	FILLER	16.43	-	-	7.11	-	-	-	0.60	64.0	67.0	
22	JKMH - 951	13.04	-	3.92	4.00	15.70	-	-	11.25	66.8	69.8	
23	A A M H - 441	17.58	-	-	8.18	5.33	-	-	6.41	63.5	66.3	
24	G K - 3046	27.05	1.20	9.65	16.89	17.69	-	-	17.38	64.3	67.3	
25	PRUDWI - 116	21.26	9.05	13.04	11.56	26.82	-	-	21.02	63.0	65.8	
CHECKS:												
26	PRO - 311	5.22	-	-	-	9.72	-	-	4.80	63.0	65.8	
27	DECCAN - 103	-	-	-	-	6.57	-	-	-	62.5	65.5	
28	BIO - 9681	-	-	-	-	16.29	-	-	7.05	63.8	66.8	
29	GANGA - 11	8.70	-	-	-	-	-	-	-	64.5	67.5	
MEAN LOCATION												
C.D. At 5% =												
C.V. % =												
F (Prob) =												

TABLE NO. 38 (CONT.)

NO	PEDIGREE	DRY HUSK 50%		PLANT ASP. *		EAR ASP. *		HUSK COV. *		UNIF. *		PLANT HT (cm)		EAR HT (cm)		EAR NO. / PLANT POON		STAND AT HARV. POON	
		POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON	POON
1	J H - 10521	108.0	2.0	1.8	1.0	2.0	1.8	1.0	2.0	209	132	1.10	18						
2	UMH - 39	108.5	2.0	1.8	1.8	2.0	2.0	2.0	2.0	230	127	1.10	23						
3	BH - 2355	107.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	235	125	1.03	22						
4	BH - 2358	109.5	2.0	2.3	1.8	2.0	2.3	1.8	2.0	149	74	1.03	9						
5	BH - 2523	110.0	2.0	2.0	1.8	2.0	2.0	1.8	2.0	203	91	1.06	20						
6	BH - 2528	107.5	1.3	1.5	1.5	1.5	1.5	1.5	1.3	192	85	1.10	24						
7	HKH - 1193	109.5	2.8	3.0	1.5	3.0	3.0	1.5	2.3	171	76	1.04	3						
8	101501 x 101505	107.3	1.5	2.0	1.8	2.0	2.0	1.8	1.5	175	73	0.94	24						
9	101502 x 101505	108.5	2.0	2.0	1.8	2.0	2.0	1.8	2.0	199	91	0.96	24						
10	101503 x 101522	110.3	1.3	1.5	1.3	1.5	1.5	1.3	1.0	224	115	0.96	30						
11	X 1231 H	108.0	2.0	1.3	1.0	1.3	1.3	1.0	2.0	254	118	1.02	21						
12	MCH - 1	107.5	2.0	1.3	1.8	1.3	1.3	1.8	2.0	201	120	0.94	21						
13	MCH - 3	107.3	1.0	1.8	1.0	1.8	1.8	1.0	1.0	205	101	1.02	27						
14	VIPL 1804	108.5	1.8	2.0	1.8	2.0	2.0	1.8	1.8	233	126	0.99	24						
15	X - 2125	105.8	1.3	1.0	1.3	1.0	1.0	1.3	2.0	196	92	0.96	23						
16	SEDETEC - C 12	109.3	1.8	2.0	1.0	2.0	2.0	1.0	2.0	198	100	1.00	24						
17	BISCO - 167	109.8	1.0	2.0	1.3	2.0	2.0	1.3	1.0	223	111	0.97	27						
18	PAC 71061	109.5	2.0	1.8	1.3	1.8	1.8	1.3	2.0	204	102	0.98	21						
19	ROBUST	107.5	2.0	1.3	1.5	1.3	1.3	1.5	1.8	180	88	1.05	28						
20	NECH - 118	113.3	2.0	1.3	1.8	1.3	1.3	1.8	2.0	251	137	0.98	22						
21	FILLER	107.3	2.0	1.8	2.0	1.8	1.8	2.0	2.0	178	70	0.95	25						
22	JKMH - 951	109.3	1.8	1.0	1.0	1.0	1.0	1.0	1.5	197	85	0.99	28						
23	A A M H - 441	107.8	2.0	1.5	1.5	1.5	1.5	1.5	2.0	199	97	1.06	28						
24	G K - 3046	108.0	1.0	1.0	1.5	1.0	1.0	1.5	1.5	203	101	1.12	28						
25	PRUDWI - 116	107.8	1.8	1.8	1.0	1.8	1.8	1.0	1.8	190	88	1.08	21						
CHECKS:																			
26	PRO - 311	107.8	1.5	1.8	1.3	1.8	1.8	1.3	1.8	182	80	1.17	21						
27	DECCAN - 103	107.5	1.0	1.8	1.5	1.8	1.8	1.5	1.5	193	93	1.11	22						
28	BIO - 9681	107.8	1.0	1.3	1.0	1.3	1.3	1.0	1.0	200	100	1.07	27						
29	GANGA - 11	109.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	198	106	1.12	23						
MEAN LOCATION		108.4	1.7	1.7	1.5	1.7	1.7	1.5	1.7	202	100	-	23						
C.D. AT 5% =		1.0	0.4	0.6	0.6	0.6	0.6	0.6	0.4	13.2	9.8	-	2.7						
C.V. %		0.6	17.4	25.8	29.5	17.8	25.8	29.5	17.8	4.6	7.0	-	8.4						
F (Prob)		.000	.000	.000	.001	.000	.000	.001	.000	.000	.000	-	.000						

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

TABLE NO. 39

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, IN IET OF 2002 KHARIF AND PLANTED KHARIF 2003 IN TRIAL NO. TR61BS DURING .

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		S	R			S	R
1	J E - 10535	3773	22	16	SEEDTEC - C 11	3753	23
2	BH - 2348	3992	15	17	BISCO - 902	4333	2
3	BH - 2356	3835	21	18	P R O - 359	4000	14
4	BH - 2854	3843	19	19	PAC 71062	3420	28
5	BH - 2202	3180	29	20	NECH - 117	3588	24
6	A H - 01410	4173	5	21	BIO - 20212	4157	7
7	A H - 01415	4118	8	22	FILLER	3969	16
8	HKH - 1215	3910	17	23	POOJA	4094	11
9	101509 x 101515	4000	13	24	A A M H - 459	4098	9
10	101510 x 101515	3580	25	25	G K - 3047	4165	6
11	101511 x 101515	4282	3		CHECKS:		
12	X 1280 B	3871	18	26	PRO - 311	4463	1
13	MCH - 2	3533	27	27	DECCAN - 103	4098	10
14	MCH - 4	3557	26	28	BIO - 9681	4031	12
15	X - 2001	3843	20	29	GANGA - 11	4251	4
MEAN YIELD=		3928					
MEAN STAND		-					
C.D. AT 5%=		732					
C.V. % =		13.26					
F (Prob)		.196					
PLOT SIZE=		6.00					
AGRONOMY DATA:							
SOWING DATE (2003)		14-05					
HARVEST DATE (2003)		30-10					
IRRIGATION Nos		-					
FERTILIZER APPLIED		N 80					
		P 60					
		K 40					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : POON 47.7%

TABLE NO. 40
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT
 SRINAGAR IN IET OF 2002 KHARIF PLANTED KHARIF 2003 IN TRIAL NO. TR62AS.

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R			SRIN	R
1	W C - 14 - 1 (DBM)	3569	17	15	PMZ - 237	4310	5
2	EH - 30969	4463	1	16	NECH - 120	4282	9
3	EC - 3121	4286	8	17	FILLER	4306	6
4	BH - 2359	3631	14	18	JKMH - 1001	3392	24
5	HKH - 1169	3506	19	19	MAHABEEJ - 1100	3333	25
6	HKH - 1199	4447	3	20	A A M H - 513	2945	26
7	HKH - 1208	3690	13	21	STAR - 2001	3506	20
8	A H - 017047	3510	18	22	SURYA - 116	3482	21
9	L - 166	4086	12		CHECKS:		
10	X 1231 K	3592	15	23	NAVJOT	4455	2
11	MCH - 7	3584	16	24	DECCAN - 107	4294	7
12	X - 26	4153	10	25	SUPER-1	4400	4
13	SEEDTEC - 1081	4102	11	26	KH 510	3435	23
14	BISCO - 1102	3467	22				
	MEAN YIELD=	3855					
	MEAN STAND	-					
	C.D. AT 5% =	546					
	C.V. % =	10.06					
	F (Prob)	.000					
	PLOT SIZE=	6.00					
	AGRONOMY DATA:						
	SOWING DATE (2003)	14-05					
	HARVEST DATE (2003)	14-10					
	IRRIGATION NOS	-					
	FERTILIZER APPLIED	N 80					
		P 60					
		K 40					

TABLE NO 41

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN IET OF 2002 KHARIF PLANTED KHARIF 2003 IN TRIAL NO. TR62BS

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R			SRIN	R
1	W C - 14 - 2 (DBM)	3333	20	15	BISCO - 201	4373	4
2	BH - 31079	4039	13	16	NECH - 119	4039	14
3	EC - 3122	4082	11	17	BIO - 22027	4608	1
4	BH - 2809	3475	18	18	FILLER	4118	9
5	HKH - 1187	3353	19	19	JKMH - 340	4098	10
6	HKH - 1203	3314	21	20	A M H - 511	4400	3
7	A H - 017045	4165	8	21	N M H - 20507	4216	7
8	A H - 017051	3255	22	22	STAR - 2011	3137	23
9	Jg - GM - 3	3118	24		CHECKS:		
10	SNEHA - 4002	4596	2	23	NAVJOT	4275	6
11	X 1280 A	3843	16	24	DECCAN - 107	3573	17
12	MCH - 8	3882	15	25	SUPER - 1	4373	5
13	X - 2151	2941	26	26	KH 510	3020	25
14	SEEDTEC - 168	4075	12				
MEAN YIELD=		3835					
MEAN STAND		-					
C.D. AT 5% =		877					
C.V. % =		16.24					
F (Prob)		.000					
PLOT SIZE=		6.00					
AGRONOMY DATA:							
SOWING DATE(2003)		14-05					
HARVEST DATE(2003)		13-10					
IRRIGATION Nos		-					
FERTILIZER APPLIED N		80		P		60 : K 40	

TABLE NO. 42

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN IET OF 2002 KHARIF PLANTED DEURING KHARIF 2003, IN TRIAL No. TR63AS.

SL NO PEDIGREE		GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD (kg/ha) AT 15% MOISTURE	
SL NO	PEDIGREE	SRIN	R	SRIN	R
1	KM H - 3	5478	1	17 X 1150 Z	2384 29
2	KM H - 9	4369	8	18 X - 2185	3820 20
3	F H - 3228	2976	28	19 SEEDTEC - 114	3467 24
4	J H - 3957	3125	25	20 BISCO - 204	4529 5
5	J H - 3999	3557	22	21 P R O - 358	4447 6
6	J H - 31026	3882	19	22 PAC 71007	4173 11
7	E H - 31008	3749	21	23 FILLER	4204 10
8	E H - 30964	1941	30	24 JKMH - 810	3961 16
9	HKH - 1176	4039	15	25 PONNI - 116	3478 23
10	HKH - 1182	3020	27	26 C - 6	4165 12
11	HKH - 1219	4102	13	CHECKS:	
12	D E H - 10102	3118	26	27 MEGHA	4643 3
13	Jh GM - 4	4627	4	28 PEHM - 2	3902 18
14	A H - 01411	4094	14	29 MAHI KANCHAN	5047 2
15	A H - 017 077	4416	7	30 X - 3342	4369 9
16	MCH - 6	3910	17		
MEAN YIELD=		3900			
MEAN STAND		-			
C.D. AT 5% =		692			
C.V. % =		12.63			
F (Prob)		.000			
PLOT SIZE=		6.00			
AGRONOMY DATA:					
SOWING DATE(2003)		14-05			
HARVEST DATE(2003)		5-10			
IRRIGATION Nos		-			
FERTILIZER APPLIED N		80	:	P	
			:	K	40

TABLE NO. 43

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN IET OF 2002 KHARIF 2002 PLANTED DEURING KHARIF 2003, IN TRIAL NO. TR63BS.

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R			SRIN	R
1	KM H - 2	4271	13	17	X 1150 Y	2976	28
2	KM H - 5	3792	19	18	X - 2182	3812	18
3	F H - 3227	5235	3	19	SEEDTEC - 122	4380	10
4	J H - 3851	4843	6	20	BISCO - 2434	3663	21
5	J H - 3964	4929	5	21	P R O - 357	3553	23
6	J H - 31006	4451	9	22	PAC 71006	3322	25
7	J H - 31027	4804	7	23	PMZ - 135	4282	12
8	E H - 31011	4569	8	24	FILLER	3663	22
9	BH - 2862	5157	4	25	A A M H - 363	3827	17
10	HKH - 1177	3176	26	26	C - 6	4349	11
11	HKH - 1188	3541	24		CHECKS:		
12	R - 9903	2988	27	27	MECHA	5345	2
13	D E H - 10702	5490	1	28	PEHM - 2	3773	20
14	A H - 017 061	1812	30	29	MAHI KANCHAN	4216	14
15	A H - 01409	2298	29	30	X - 3342	4161	15
16	MCH - 5	3957	16				
MEAN YIELD=		4021					
MEAN STAND		-					
C.D. AT 5%=		725					
C.V. % =		12.83					
F (Prob)		.000					
PLOT SIZE=		6.00					
AGRONOMY DATA:							
SOWING DATE(2003)		13-05					
HARVEST DATE(2003)		8-10					
IRRIGATION Nos							
FERTILIZER APPLIED N		80	:	P	60	:	K 40

TABLE NO. 44

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN IET OF 2002 PLANTED DEURING 2003 KHARIF, IN TRIAL NO. TR64S.

SL NO PEDIGREE		GRAIN YIELD (kg/ha) AT 15% MOISTURE	SRIN R	SL NO PEDIGREE		GRAIN YIELD (kg/ha) AT 15% MOISTURE	SRIN R
1	D E H - 10302	4231	6	12	SEEDTEC - 205	4157	9
2	HKH - 1183	3549	20	13	SEEDTEC - 1307	3765	15
3	HKH - 1185	3851	12	14	BISCO - 2051	4235	5
4	HKH - 1199	3788	13	15	BISCO - C 35	4204	7
5	HKH - 1210	3647	17	16	P R O - 356	3643	18
6	HKH - 1214	3576	19	17	JKMH - 495	3675	16
7	F H - 3208	3902	11	18	C - 6	4333	2
8	F H - 3210	3773	14	CHECKS:			
9	F H - 3215	4302	3	19	SURYA	4145	10
10	A H - 017049	4184	8	20	HIM - 129	4353	1
11	A H - 014 16	4243	4				
MEAN YIELD=		3978		60			40
MEAN STAND		-		P			K
C.D. AT 5%=		772		:			
C.V. %		13.71					
F (Prob)		.391					
PLOT SIZE=		6.00					
AGRONOMY DATA:							
SOWING DATE (2003)		14-05					
HARVEST DATE (2003)		2-10					
IRRIGATION Nos		-					
FERTILIZER APPLIED N		80					

TABLE NO. 45

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 1st YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL NO. TR66S

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R			SRIN	R
1	EC - 3116	4549	18	11	BIO - 92218	5210	13
2	L - 173	5000	16	12	JKMH - 1080	5357	10
3	HKH - 1191	5441	4	13	AAMH - 204	5539	2
4	KAVERI - 235	5063	15	14	AAMH - 206	5431	8
5	BISCO - 3123	5392	9	CHECKS:			
6	P R O - 349	5608	1	15	NAVJOT	5304	12
7	NECH - 112	5441	5	16	DECCAN - 107	5071	14
8	NECH - 113	5441	6	17	SUPER - 1	4598	17
9	X - 2003	5522	3	18	KH 510	5435	7
10	P M Z - 131	5353	11				
MEAN YIELD=		5264					
MEAN STAND		-					
C.D. AT 5% =		473					
C.V. % =		6.32					
F (Prob)		.001					
PLOT SIZE=		12.00					
AGRONOMY DATA:							
SOWING DATE(2003)		14-05		60		:	40
HARVEST DATE(2003)		13-10		P		:	K
IRRIGATION NOS		-					
FERTILIZER APPLIED N		90					

TABLE NO. 46

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 1st YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR67S.

Sl No	PEDIGREE	GRAIN YIELD	
		(kg/ha) AT 15% MOISTURE	SRIN R
1	SEEDTEC - 1204	4637	3
2	PAC 70002	4510	4
3	PAC 70001	3824	7
4	BIO - 92109	3412	9
5	C - 6	4275	5
CHECKS:			
6	PEHM - 2	4216	6
7	MAHI KANCHAN	3676	8
8	MEGHA	4804	1
9	X - 3342	4755	2
	MEAN YIELD=	4234	
	MEAN STAND	-	
	C.D. AT 5%	550	
	C.V. %	8.89	
	F (Prob)	.000	
	PLOT SIZE=	12.00	
AGRONOMY DATA:			
	SOWING DATE(2003)	14-05	
	HARVEST DATE(2003)	10-10	
	IRRIGATION Nos	-	
	FERTILIZER APPLIED	N 80	
		P 60	
		K 40	

TABLE NO. 47

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 1st YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL NO. TR68S.

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R
1	F H - 3186	3841	5
2	F H - 3176	4696	1
3	C - 15	4167	4
CHECKS:			
4	SURYA	4539	2
5	HIM - 129	4441	3
	MEAN YIELD=	4337	
	MEAN STAND	-	
	C.D. AT 5%=	281	
	C.V. %	4.20	
	F (Prob)	.000	
	PLOT SIZE=	12.00	
AGRONOMY DATA:			
	SOWING DATE(2003)	12-05	
	HARVEST DATE(2003)	3-10	
	IRRIGATION NOS	-	
	FERTILIZER APPLIED	N	90
		P	60
		K	40

TABLE NO. 48

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT SRINAGAR, IN AET 2nd YEAR OF 2002 PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR69S .

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R
1	B H - 1015 (RETEST.)	4196	1
2	NECH - 105	4144	2
CHECKS:			
3	PRO - 311	3786	4
4	DECCAN - 103	3621	5
5	GANGA - 11	3908	3
	MEAN YIELD=	3931	
	MEAN STAND	-	
	C.D. AT 5%=	364	
	C.V. % =	6.01	
	F (Prob)	.024	
	PLOT SIZE=	18.00	
AGRONOMY DATA:			
	SOWING DATE (2003)	14-05	
	HARVEST DATE (2003)	30-10	
	IRRIGATION NOS	-	
	FERTILIZER APPLIED	N 80	
		P 60	
		K 40	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : POON 33.5%

TABLE NO. 49

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 2nd YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR70S.

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE
1	BIO - 81009	4288 2
2	BIO - 81096	3647 6
3	C - - 6	4183 3
CHECKS:		
4	NAVJOT	4013 5
5	DECCAN - 107	4052 4
6	KH - 510	4353 1
	MEAN YIELD=	4089
	MEAN STAND	-
	C.D. AT 5% =	173
	C.V. % =	2.80
	F (Prob)	.000
	PLOT SIZE=	18.00
AGRONOMY DATA:		
	SOWING DATE(2003)	14-05
	HARVEST DATE(2003)	1-51
	IRRIGATION Nos	-
	FERTILIZER APPLIED N	90
	P	60
	K	40

TABLE NO. 50

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR IN AET 2nd YEAR OF 2002 KHARIF PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR71S.

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	
		SRIN	R
1	EC - 1108	4209	2
2	F H - 3138	3935	7
3	C - 15	4026	6
CHECKS:			
4	MEGHA	4399	1
5	PEHM - 2	4118	4
6	MAHI KANCHAN	4157	3
7	X - 3342	4052	5
MEAN YIELD=		4128	
MEAN STAND		-	
C.D. AT 5%=		387	
C.V. % =		6.32	
F (Prob)		.300	
PLOT SIZE=		18.00	
AGRONOMY DATA:			
SOWING DATE(2003)		14-05	
HARVEST DATE(2003)		30-09	
IRRIGATION Nos		-	
FERTILIZER APPLIED N		90	
P		60	
K		40	

TABLE NO. 51

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS
& COMPOSITES AT SRINAGAR IN AET 2nd YEAR OF 2002
PLANTED DEURING 2003 KHARIF, IN TRIAL No. TR72S.

Sl No	PEDIGREE	GRAIN YIELD	
		(kg/ha) AT 15% MOISTURE	SRIN R
1	A H - 421	4575	1
2	C - 15	4163	3
CHECKS:			
3	SURYA	4098	4
4	HIM - 129	4268	2
	MEAN YIELD=	4276	
	MEAN STAND	-	
	C.D. AT 5% =	163	
	C.V. % =	2.39	
	F (Prob)	.000	
	PLOT SIZE=	18.00	
AGRONOMY DATA:			
	SOWING DATE(2003)	17-05	
	HARVEST DATE(2003)	4-10	
	IRRIGATION Nos	-	
	FERTILIZER APPLIED	N 80	
		P 60	
		K 40	

TABLE NO. 52

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA IN ZONAL TRIAL NO. TRI02 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN I	
		SRIN	R	POON	R	ALMO	R	BAJA	R	KANG	R	MEAN	R		
1	D E H - 10102	3386	20	6302	16	5327	15	5584	16	3809	16	4882	18		
2	D E H - 10102	3725	15	5710	18	3839	21	4794	21	3738	18	4361	20		
3	D - 996	4614	18	4163	22	4723	18	4083	22	3626	21	4242	22		
4	D - 9919	4150	11	4466	21	5466	13	6152	8	4858	5	5018	17		
5	D B C M - 1	4863	12	6957	12	6453	6	6958	4	4585	9	5963	5		
6	B B C M - 2	4412	9	7115	11	6001	10	7532	2	4582	10	5928	6		
7	B B C M - 3	3987	13	6480	13	5498	12	5465	19	4215	13	5129	14		
8	B B C M - 4	4712	4	6378	14	6619	4	5671	14	4418	11	5560	10		
9	B C 1406	3333	22	9372	2	7975	1	7145	3	6291	1	6823	1		
10	C H - 1821	4660	7	8729	3	6986	2	5818	11	4739	7	6186	4		
11	K H - 2002	3758	14	9984	1	6592	5	7606	1	5529	2	6516	3		
12	K M H - 2005	4020	12	8571	4	6812	3	6778	6	5410	3	6548	2		
13	N M H - 1032	3693	16	7393	7	6263	7	6127	9	4231	12	5842	7		
14	N M H - 1028	4673	6	5370	19	6202	8	6025	10	4931	4	5649	8		
15	L - 185	3366	21	7193	10	5655	11	5490	18	4851	6	5208	13		
16	L - 186	3497	17	5175	20	4092	20	5711	13	3687	20	5078	16		
17	L E H B - 187	3458	18	7769	6	5017	17	6798	5	3912	15	5391	11		
18	E H B - 1576	3431	19	7240	9	5249	16	5814	12	4630	8	5273	12		
19	E H B - 1577	5033	1	6348	15	4492	19	5493	17	4114	14	5096	15		
20	NAVJOT	4706	15	6195	17	3142	22	5622	15	3623	22	4658	19		
21	LOCAL	4379	10	7272	8	6138	9	6675	17	3749	17	5642	9		
22	K H - 510	4122	6918	6918	22	5635	21	6029	34	4421	24	5425	25		
	MEAN YIELD=	596	1058	1139	1176	1139	1176	1176	940	940	940	982	982		
	MEAN STAND	8.77	9.29	12.27	11.85	12.27	11.85	11.85	12.92	12.92	12.92	12.92	12.92		
	C.D. AT 5%	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
	C.V. %	4.80	4.80	4.80	4.80	3.60	3.60	4.80	4.80	5.00	5.00	5.00	5.00		
	F. (Prob)														
	PLOT SIZE=														
	AGRONOMY DATA:														
	SOWING DATE (2003)	10-06	24-06	24-06	24-06	15-07	15-07	29-06	29-06	19-06	19-06	19-06	19-06		
	HARVEST DATE (2003)	5-11	15-10	15-10	15-10	12-11	12-11	18-10	18-10	26-09	26-09	26-09	26-09		
	IRRIGATION NOS	80	60	60	60	100	100	90	90	80	80	80	80		
	FERTILIZER APPLIED	60	40	40	40	60	60	45	45	60	60	60	60		
		40	20	20	20	40	40	30	30	40	40	40	40		

TABLE NO. 52 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT							ZN 1 MEAN
		SRIN	POON	ALMO	BAJA	KANG			
1	D E H - 10102	-	-	18.58	1.65	-	-	-	-
2	D E H - 10102	-	-	-	-	-	-	-	-
3	D - 996	-	-	5.15	-	-	-	-	-
4	D - 9919	-	-	21.68	11.99	-	-	18.08	-
5	B C M - 1	-	9.58	43.64	26.67	-	-	11.45	17.01
6	B C M - 2	-	12.07	33.58	37.11	-	-	11.36	16.33
7	B C M - 3	-	2.08	22.39	-	-	-	2.45	0.64
8	B C M - 4	-	0.47	47.34	3.23	-	-	7.38	9.09
9	C 1406	-	47.64	77.52	30.07	-	-	52.90	33.89
10	C 1821	-	37.49	55.51	5.91	-	-	15.18	21.39
11	K H - 2002	-	26.35	46.73	38.47	-	-	34.39	27.85
12	K H - 2005	-	57.26	51.63	23.39	-	-	31.49	28.49
13	N M H - 1032	-	35.01	39.41	11.53	-	-	2.83	14.64
14	N M H - 1028	-	16.46	38.05	9.68	-	-	19.86	10.84
15	L - 185	-	-	25.89	-	-	-	17.92	2.19
16	L - 186	-	13.31	20.89	3.97	-	-	-	-
17	L - 187	-	-	-	-	-	-	-	-
18	E H B - 1576	-	22.37	11.68	23.75	-	-	-	5.78
19	E H B - 1577	-	14.04	16.86	5.84	-	-	12.54	3.47
CHECKS:									
20	NAVJOT	-	-	-	-	-	-	-	-
21	LOCAL	-	-	-	2.35	-	-	-	-
22	K H - 510	-	14.54	36.63	21.51	-	-	-	10.72

TABLE NO. 52 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE LOCAL							ZN 1
	SRIN	POON	ALMO	BAJA	KANG	MEAN		
1 D E H - 10102	-	1.73	69.57	-	5.15	4.81		
2 D E H - 10102	-	-	22.18	-	3.19	-		
3 D - 996	-	-	50.35	-	0.10	-		
4 D - 9919	-	-	73.99	9.42	34.10	7.75		
5 B C M - 1	3.33	12.29	105.40	23.76	26.57	28.03		
6 B C M - 2	-	14.84	91.01	33.96	26.47	27.28		
7 B C M - 3	-	4.60	75.01	-	16.35	10.12		
8 B C M - 4	0.14	2.95	110.69	0.86	21.95	19.37		
9 C 1406	-	51.28	153.84	27.08	73.65	46.50		
10 C 1821	-	40.89	122.36	3.48	30.81	32.82		
11 K H - 2002	2.64	29.47	109.82	35.28	52.63	39.89		
12 K H - 2005	-	61.15	116.82	20.55	49.33	40.59		
13 N M H - 1032	-	38.34	99.35	8.97	16.79	25.43		
14 N M H - 1028	-	19.33	97.40	7.16	36.12	21.28		
15 L - 185	-	-	80.01	-	33.92	11.81		
16 L - 186	-	16.11	72.86	1.58	1.77	9.02		
17 L - 187	-	-	30.26	-	2.81	-		
18 E H B - 1576	-	25.40	59.69	20.91	7.99	15.74		
19 E H B - 1577	-	16.86	67.10	3.41	27.82	13.21		
CHECKS:								
20 NAVJOT	6.94	2.47	42.99	-	13.57	9.42		
21 LOCAL	-	-	-	-	-	-		
22 K H - 510	-	17.37	95.36	18.71	3.50	21.15		

TABLE NO. 52 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING					
		POON	ALMO	BAJA	KANG	ZN 1 MEAN	POON	ALMO	BAJA	KANG	ZN 1 MEAN
1	D E H - 10102	60.3	49.7	55.7	47.7	53.3	62.7	50.7	59.3	51.3	56.0
2	D E H - 10102	58.3	49.7	54.3	45.0	51.8	61.3	50.7	57.7	50.0	54.9
3	D - 996	59.3	51.7	57.3	49.7	54.5	62.0	53.0	62.3	52.0	57.3
4	D - 9919	59.7	55.7	59.0	50.0	56.1	62.7	57.0	62.7	53.0	58.8
5	B C M - 1	62.7	57.3	61.0	52.0	58.3	65.0	58.3	64.7	54.7	60.7
6	B C M - 2	58.7	58.7	62.0	50.7	57.5	61.7	60.0	65.7	54.0	60.3
7	B C M - 3	59.0	56.3	61.3	49.7	56.6	62.0	57.3	64.0	52.0	58.8
8	B C M - 4	60.7	54.3	60.3	50.7	56.5	63.3	55.7	64.7	53.7	59.3
9	C 1406	60.0	57.3	59.0	54.0	57.6	63.0	58.3	64.0	57.0	60.6
10	C 1821	63.3	57.3	61.3	54.3	59.1	65.7	59.0	65.3	57.3	61.8
11	K H - 2002	59.7	57.7	62.3	53.3	58.3	62.7	59.0	66.3	56.3	61.1
12	K H - 2005	59.0	56.0	60.7	50.3	56.5	62.0	56.7	64.3	53.0	59.0
13	N M H - 1032	61.0	58.3	61.7	50.3	57.8	63.3	59.0	65.3	53.0	60.2
14	N M H - 1028	59.3	60.3	62.3	54.0	59.0	62.0	61.7	65.7	57.0	61.6
15	L - 185	60.7	54.0	62.0	54.3	57.8	63.7	55.3	66.0	57.0	60.5
16	L - 186	59.3	56.0	59.3	53.7	57.1	62.3	57.0	63.7	56.3	59.8
17	L - 187	60.0	55.0	58.3	48.3	55.4	62.7	55.7	62.0	51.7	58.0
18	E H B - 1576	60.0	57.7	61.3	54.3	58.3	63.0	59.0	65.3	57.3	61.2
19	E H B - 1577	60.3	56.0	56.0	48.7	55.3	63.3	57.3	62.0	51.3	58.5
CHECKS:											
20	NAVJOT	61.3	54.3	56.3	49.7	55.4	64.0	55.3	59.7	51.7	57.7
21	LOCAL	61.7	55.3	62.0	49.0	57.0	64.7	56.7	65.7	52.0	59.8
22	K H - 510	60.7	56.7	61.0	53.7	58.0	63.7	57.7	64.7	56.7	60.7
MEAN LOCATION											
	C.D. AT 5%	1.5	1.8	1.5	1.5	1.6	1.5	1.6	1.7	1.6	1.6
	C.V. %	1.6	1.9	1.5	1.7	-	1.5	1.7	1.6	1.8	-
	F (Prob)	.000	.000	.000	.000	-	.000	.000	.000	.000	-

TABLE NO. 52 (CONT.)

SI	NO PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT ASPECT *				
		POON	ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ZN 1 MEAN	POON	ALMO	BAJA	ZN 1 MEAN
1	D E H - 10102	96.3	93.3	99.0	88.3	94.3	31.3	23.3	24.3	26.3	2.0	2.6	2.5	2.4
2	D E H - 10102	98.0	96.0	98.0	89.0	95.3	28.0	21.4	23.4	24.3	2.7	2.8	3.0	2.8
3	D - 996	102.7	99.3	101.0	88.3	97.8	32.2	22.6	23.9	26.2	2.0	2.6	3.0	2.5
4	D - 9919	99.0	101.0	101.3	88.3	97.4	33.5	23.0	24.2	26.9	2.0	2.6	2.5	2.4
5	B C M - 1	108.0	104.7	103.3	90.7	101.7	40.3	24.0	25.2	29.8	1.7	2.5	2.5	2.2
6	B C M - 2	100.7	106.3	106.3	92.7	101.5	40.1	24.7	24.9	29.9	1.3	2.5	2.2	2.0
7	B C M - 3	103.3	105.3	101.7	92.0	100.6	33.8	22.8	24.9	27.2	1.7	2.6	2.5	2.3
8	B C M - 4	103.0	106.0	101.7	93.7	101.1	34.4	23.4	24.8	27.5	2.0	2.6	2.5	2.4
9	C 1406	103.0	101.7	101.7	91.0	99.3	34.4	22.2	25.5	27.4	1.7	2.4	2.3	2.1
10	C 1821	109.0	107.7	106.3	93.0	104.0	35.6	24.6	24.7	28.3	1.7	2.4	2.5	2.2
11	K H - 2002	102.7	107.7	103.0	92.3	101.4	36.7	23.0	24.8	28.2	2.0	2.5	2.3	2.3
12	K H - 2005	100.0	98.0	101.3	90.0	97.3	36.7	22.3	25.1	28.0	1.0	2.6	2.5	2.0
13	N M H - 1032	103.7	106.7	103.0	92.7	101.5	39.2	24.5	26.0	29.9	1.0	2.5	2.3	1.9
14	N M H - 1028	100.7	108.3	103.0	93.7	101.4	37.0	24.0	25.5	28.8	1.7	2.4	2.3	2.1
15	L - 185	106.3	99.7	102.7	91.0	99.9	30.6	22.1	25.4	26.1	2.0	2.5	2.5	2.3
16	L - 186	102.0	102.0	104.0	89.7	99.4	36.0	23.7	24.3	28.0	2.0	2.5	2.5	2.3
17	L - 187	102.7	99.3	101.3	89.7	98.3	34.8	21.1	24.6	26.8	2.0	2.6	3.0	2.5
18	E H B - 1576	106.3	107.3	102.0	92.0	101.9	38.7	22.6	27.0	29.4	1.0	2.4	2.3	1.9
19	E H B - 1577	104.3	105.0	102.3	90.7	100.6	36.5	21.1	25.8	27.8	1.7	2.7	2.7	2.3
CHECKS:														
20	NAVJOT	104.7	100.7	100.7	89.3	98.8	32.4	21.5	24.9	26.3	2.0	2.7	2.8	2.5
21	LOCAL	104.3	101.0	102.0	92.7	100.0	30.6	24.5	26.1	27.0	1.7	3.0	2.5	2.4
22	K H - 510	106.0	101.7	103.0	93.0	100.9	35.2	23.1	24.8	27.7	2.0	2.5	2.2	2.2
MEAN LOCATION														
	C.D. AT 5%	2.5	2.2	1.9	1.2	2.0	2.8	1.1	2.3	2.1	0.6	0.2	0.4	0.4
	C.V. %	1.5	1.3	1.1	0.8	-	4.9	2.9	5.6	-	21.3	5.3	8.5	-
	F (Prob)	.000	.000	.000	.000	-	.000	.000	.522	-	.000	.000	.000	-

TABLE NO. 52 (CONT.)

S1 NO PEDIGREE	EAR ASPECT *				HUSK COVER *				UNIFORMITY *				ZN#1 MEAN
	POON	ALMO	BAJA	ZN 1 MEAN	POON	ALMO	BAJA	ZN 1 MEAN	POON	ALMO	BAJA	ZN 1 MEAN	
1 D E H - 10102	2.0	2.5	2.7	2.4	2.7	2.4	2.5	3.3	2.7	2.4	2.5	2.4	2.5
2 D E H - 10102	2.7	2.9	2.7	2.7	2.7	2.3	2.5	3.0	2.6	2.4	2.5	2.4	2.5
3 D - 996	2.0	2.8	2.8	2.5	2.7	2.0	2.3	3.0	2.5	2.5	2.5	2.5	2.3
4 D - 9919	2.0	2.9	2.5	2.5	1.7	2.1	2.0	3.0	2.2	2.4	2.5	2.4	2.3
5 B C M - 1	1.7	2.5	2.3	2.2	2.0	2.1	2.2	2.3	2.1	2.6	2.5	2.6	2.4
6 B C M - 2	1.3	2.6	2.7	2.2	1.7	2.2	2.0	2.3	2.0	2.6	2.5	2.6	2.4
7 B C M - 3	2.0	2.6	2.7	2.4	1.3	2.0	2.2	2.3	2.0	2.7	2.5	2.7	2.4
8 B C M - 4	2.0	2.5	2.5	2.3	1.3	2.3	2.0	2.0	1.9	2.6	2.5	2.6	2.4
9 C 1406	1.3	2.5	2.3	2.1	1.7	2.1	2.0	3.3	2.3	2.4	2.2	2.4	2.1
10 C 1821	1.7	2.5	2.7	2.3	2.0	2.1	2.0	2.3	2.1	2.4	2.5	2.4	2.2
11 K H - 2002	1.7	2.5	2.5	2.2	1.7	2.1	2.0	3.3	2.3	2.3	2.2	2.3	2.4
12 K H - 2005	1.3	2.5	2.5	2.1	1.0	2.0	2.2	2.7	2.0	2.4	2.3	2.4	2.1
13 N M H - 1032	1.3	2.6	2.7	2.2	1.3	2.1	2.0	2.7	2.0	2.4	2.2	2.4	2.0
14 N M H - 1028	2.7	2.5	2.7	2.6	1.7	2.4	2.0	3.0	2.3	2.3	2.0	2.3	2.3
15 L - 185	2.3	2.6	2.5	2.5	1.0	2.1	2.2	2.3	1.9	2.7	2.5	2.7	2.5
16 L - 186	2.0	2.6	2.7	2.4	1.7	2.0	2.0	3.0	2.2	2.6	2.5	2.6	2.5
17 L - 187	2.0	2.7	2.7	2.5	1.7	2.2	2.5	2.7	2.3	2.4	2.5	2.4	2.3
18 E H B - 1576	1.0	2.7	2.5	2.1	1.0	1.8	2.0	2.0	1.7	2.4	2.0	2.4	2.0
19 E H B - 1577	1.7	2.6	2.5	2.3	1.3	2.1	2.0	3.3	2.2	2.4	2.3	2.4	2.4
CHECKS:													
20 NAVJOT	2.0	2.6	2.5	2.4	2.3	2.2	2.5	4.0	2.8	2.6	2.5	2.6	2.5
21 LOCAL	2.0	2.9	2.5	2.5	1.0	2.2	2.2	3.0	2.1	2.6	2.5	2.6	2.4
22 K H - 510	2.0	2.6	2.3	2.3	1.3	2.0	2.0	3.3	2.2	2.4	2.3	2.4	2.4
MEAN LOCATION													
C.D. AT 5% =	0.7	0.2	0.3	0.4	0.8	0.3	0.2	1.1	0.6	0.2	0.3	0.2	0.4
C.V. % =	22.6	4.6	8.1	-	29.7	7.4	7.0	24.2	-	20.8	6.4	5.6	-
F (Prob)	.001	.000	.288	-	.000	.018	.000	.079	-	.047	.000	.021	-

TABLE NO. 52 (CONT.)

SL NO	PEDIGREE	EAR NO. / PLANT		H.tur. H.maydis *		PHYSO. STAND		AT HARVEST		OV' L MEAN						
		POON	ALMO	KANG	ZN 1 MEAN	ALMO	KANG	ALMO	BAJA		KANG					
1	D E H - 10102	1.10	1.03	1.18	1.11	2.9	1.9	2.3	2.1	1.5	24	21	36	31	28	
2	D E H - 10102	1.13	1.00	0.99	1.04	2.6	1.6	2.0	1.8	1.3	28	20	38	23	27	
3	D - 996	1.07	1.03	0.99	1.03	3.1	2.0	2.7	2.3	1.5	2	18	27	15	16	
4	D - 9919	0.98	1.01	1.12	1.04	2.3	1.7	2.3	2.0	1.5	5	18	21	18	16	
5	B C M - 1	0.98	0.98	0.99	0.98	1.9	1.5	2.7	2.1	1.4	16	21	32	20	22	
6	B C M - 2	1.05	1.00	1.19	1.08	1.9	1.6	2.0	1.8	1.4	21	20	32	30	26	
7	B C M - 3	0.97	1.00	0.91	0.96	2.0	1.6	2.3	2.0	1.4	20	22	37	26	26	
8	B C M - 4	1.14	1.00	0.98	1.04	2.1	1.6	3.3	2.5	1.3	27	21	31	33	28	
9	C 1406	0.97	1.00	1.17	1.05	2.0	1.8	2.7	2.2	1.7	25	22	37	27	28	
10	C 1821	0.99	1.02	1.13	1.04	2.8	1.9	3.3	2.6	1.4	26	23	37	28	29	
11	K H - 2002	1.02	1.02	1.06	1.03	2.8	1.9	2.3	2.1	1.5	24	22	37	28	28	
12	K H - 2005	0.93	0.98	1.10	1.01	2.5	1.5	2.3	1.9	1.4	24	21	37	26	27	
13	N M H - 1032	1.04	1.00	1.06	1.03	2.2	1.6	2.0	1.8	1.3	28	23	39	33	31	
14	N M H - 1028	0.97	1.00	1.05	1.01	1.9	1.5	2.7	2.1	1.5	23	22	36	24	26	
15	L - 185	1.00	1.00	1.08	1.03	3.5	1.9	2.7	2.3	1.5	27	22	39	27	29	
16	L - 186	1.31	0.98	1.06	1.12	2.6	1.9	2.7	2.3	1.7	27	22	34	28	28	
17	L - 187	1.06	1.00	1.04	1.03	2.9	2.2	3.7	2.9	1.5	23	21	36	22	25	
18	E H B - 1576	1.00	1.01	0.99	1.00	2.4	1.6	3.3	2.5	1.3	25	20	31	21	24	
19	E H B - 1577	1.05	0.98	0.97	1.00	2.3	1.6	2.7	2.1	1.3	19	21	31	21	23	
CHECKS:																
20	NAVJOT	1.16	0.99	1.01	1.05	3.8	1.8	3.7	2.7	1.4	22	20	31	18	23	
21	LOCAL	1.09	1.03	0.87	1.00	3.7	2.5	2.0	2.3	1.6	30	21	35	21	27	
22	K H - 510	1.02	1.00	0.93	0.98	2.1	1.7	3.7	2.7	1.3	21	20	35	17	23	
MEAN LOCATION																
C.D. AT 5% =																
C.V. % =																
F (Prob) =																
											3.9	2.5	2.8	5.8	-	
											10.6	7.1	5.0	14.4	-	
											.000	.008	.000	.000	-	

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

TABLE NO. 52 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 1	
	POON	ALMO	BAJA	KANG	POON	ALMO	BAJA	KANG	MEAN	MEAN
1 D E H - 10102	226	192	152	207	106	95	75	118	98	98
2 D E H - 10102	226	165	142	199	121	74	74	93	91	91
3 D - 996	221	190	146	189	111	94	73	87	91	91
4 D - 9919	227	194	158	221	106	95	75	126	101	101
5 B C M - 1	239	202	176	219	107	96	85	110	100	100
6 B C M - 2	239	202	187	241	115	101	81	126	106	106
7 B C M - 3	235	187	179	208	112	96	84	117	102	102
8 B C M - 4	248	189	175	236	124	91	92	132	110	110
9 C 1406	229	208	183	216	115	101	85	100	100	100
10 C 1821	265	201	163	234	124	99	80	123	107	107
11 K H - 2002	239	217	196	224	122	106	91	121	110	110
12 K H - 2005	238	191	168	215	122	90	76	110	99	99
13 N M H - 1032	225	189	164	224	109	95	71	112	97	97
14 N M H - 1028	226	192	181	234	106	88	81	115	98	98
15 L - 185	242	191	164	229	125	96	85	124	108	108
16 L - 186	225	193	159	209	111	93	73	104	95	95
17 L - 187	228	192	161	201	112	94	75	110	98	98
18 E H B - 1576	232	199	181	234	116	99	88	116	105	105
19 E H B - 1577	234	185	150	209	112	85	57	96	88	88
CHECKS:										
20 NAVJOT	238	198	173	215	133	98	80	108	105	105
21 LOCAL	252	176	177	242	137	85	90	129	110	110
22 K H - 510	244	192	152	217	133	97	76	100	101	101
MEAN LOCATION	235	193	168	219	117	94	79	113	101	101
C.D. AT 5%	16.9	11.0	12.9	17.6	15.3	8.6	15.6	12.1	12.9	12.9
C.V. %	4.4	3.4	4.7	4.9	7.9	5.6	11.9	6.5	-	-
F (Prob)	.001	.000	.000	.000	.001	.000	.014	.000	-	-

TABLE NO. 53

PERFORMANCE OF EXTRA EARLY & EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, ALMORA, BAJAURA, KANGRA, IN TRIAL NO. TR103 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1	
		SRIN	R	ALMO	R	BAJA	R	KANG	R	MEAN	R		
1	F H - 3269	4026	25	6849	11	3461	15	4608	12	4736	10		
2	F H - 3270	4035	24	5366	32	4269	3	3764	26	4359	25		
3	F H - 3271	4270	14	5757	28	3054	25	3261	31	4085	31		
4	F H - 3273	4157	17	7262	6	4639	2	4225	16	5071	5		
5	F H - 3276	4593	5	6577	13	3521	9	4088	21	4695	11		
6	F H - 3277	4113	19	7397	4	3641	8	6116	1	5317	1		
7	F H - 3278	4349	13	6182	18	3464	14	3774	25	4442	24		
8	F H - 3283	3773	33	5763	27	3142	23	5263	3	4485	17		
9	F H - 3284	4000	27	6314	16	2900	30	4863	8	4519	16		
10	F H - 3285	4009	26	6547	14	3848	6	5012	6	4854	8		
11	F H - 3286	4183	16	7508	3	3340	18	4427	14	4865	7		
12	F H - 3287	4357	12	5953	23	3905	5	4126	19	4585	13		
13	F H - 3289	4619	3	7323	5	3223	20	6043	2	5302	3		
14	F H - 3293	3721	34	6934	10	3393	17	4708	11	4689	12		
15	F H - 3294	4505	7	7243	7	3493	11	5025	5	5067	6		
16	F H - 3295	4662	1	6478	15	2883	31	3856	23	4470	18		
17	F H - 3296	3974	28	6004	22	2946	29	3107	34	4008	33		
18	F H - 3297	4052	22	7195	8	2660	33	3210	32	4279	26		
19	F H - 3298	3895	30	6707	12	3158	21	4058	22	4455	22		
20	PEH-3	3791	32	5920	24	2959	28	3729	27	4100	30		
21	PS-65	4453	9	5342	33	2262	35	4261	15	4079	32		
22	VL - 103	3808	31	6023	21	3509	10	4807	9	4537	15		
23	VL - 105	4462	8	5391	31	2987	26	4944	7	4446	23		

TABLE NO. 53 (CONT.)

Sl	No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												Zn 1	
		SRIN	R	ALMO	R	BAJA	R	KANG	R	MEAN	R				
24	C - 1408	4209	15	8280	1	4651	1	4106	20	5312	2				
25	C - 1415	4619	4	7963	2	3480	12	4731	10	5198	4				
26	KDM-C-36	4044	23	5910	25	2825	32	3774	24	4138	28				
27	SKU-M9	4087	21	5433	30	3143	22	3170	33	3958	34				
28	L-188	4514	6	5116	34	3291	19	3486	29	4102	29				
29	L-200	4627	2	6033	20	3736	7	3468	30	4466	19				
30	L-201	4401	11	6221	17	3094	24	4141	18	4464	20				
CHECKS:															
31	SURYA	4096	20	4554	35	2281	34	2539	35	3368	35				
32	LOCAL	3904	29	5490	29	3943	4	4501	13	4460	21				
33	H I M - 129	3617	35	5886	26	2972	27	4187	17	4165	27				
34	VIVEK HYB. - 9	4157	18	7147	9	3475	13	3497	28	4569	14				
35	MEGHA	4444	10	6162	19	3424	16	5133	4	4791	9				
	MEAN YIELD=	4186		6349		3342		4229		4527					
	MEAN STAND	-		22		23		16		20					
	C.D. AT 5%	1399		1342		826		1141		1177					
	C.V. %	20.51		12.97		15.17		16.56		-					
	F (Prob)	.999		.000		.000		.000		-					
	PLOT SIZE=	3.60		3.60		4.80		3.60		-					
AGRONOMY DATA:															
	SOWING DATE(2003)	10-06		7-07		20-06		20-06		-					
	HARVEST DATE(2003)	28-10		7-11		15-10		29-09		-					
	IRRIGATION Nos	-		-		1		-		-					
	FERTILIZER APPLIED N	80		80		90		80		-					
	P	60		60		45		60		-					
	K	40		40		30		40		-					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : PANT 36.6%

TABLE NO. 53 (CONT.)

SI NO	PEDIGREE	GRAIN SURYA		YIELD		% SUPERIORITY		OVER THE LOCAL		BAJA	KANG	ALMO	ZN 1 MEAN	ZN 1 MEAN
		SRIN	SRIN	ALMO	BAJA	BAJA	KANG	ZN 1 MEAN	SRIN					
1	F H - 3269	-	-	50.40	51.72	81.46	40.63	3.13	24.74	-	2.38	-	6.20	-
2	F H - 3270	-	-	17.83	87.17	48.24	29.43	3.35	-	8.28	-	-	-	-
3	F H - 3271	4.26	-	26.41	33.86	28.42	21.31	9.38	4.85	-	-	-	13.71	-
4	F H - 3273	1.49	-	59.47	103.38	66.37	50.58	6.47	32.27	17.67	-	-	5.27	-
5	F H - 3276	12.13	-	44.44	54.35	60.98	39.41	17.63	19.80	-	-	-	19.22	-
6	F H - 3277	0.43	-	62.43	59.63	140.85	57.89	5.36	34.72	-	35.89	-	-	-
7	F H - 3278	6.17	-	35.76	51.85	48.61	31.91	11.38	12.60	-	-	-	-	-
8	F H - 3283	-	-	26.54	37.74	107.26	33.19	-	4.95	-	16.94	-	0.58	-
9	F H - 3284	-	-	38.64	27.13	91.51	34.20	2.46	14.99	-	8.05	-	1.34	-
10	F H - 3285	-	-	43.77	68.69	97.38	44.14	2.68	19.24	-	11.37	-	8.84	-
11	F H - 3286	2.13	-	64.87	46.44	74.35	44.46	7.14	36.74	-	-	-	9.08	-
12	F H - 3287	6.38	-	30.72	71.18	62.48	36.16	11.61	8.42	-	34.27	-	2.82	-
13	F H - 3289	12.77	-	60.81	41.28	137.97	57.44	18.30	33.37	-	-	-	18.89	-
14	F H - 3293	-	-	52.26	48.73	85.40	39.24	-	26.28	-	-	-	5.14	-
15	F H - 3294	10.00	-	59.05	53.12	97.89	50.45	15.40	31.92	-	-	-	13.61	-
16	F H - 3295	13.83	-	42.26	26.40	51.83	32.74	19.42	17.99	-	11.66	-	0.23	-
17	F H - 3296	-	-	31.85	29.15	22.35	19.01	1.79	9.35	-	-	-	-	-
18	F H - 3297	-	-	57.99	16.63	26.40	27.07	3.79	31.04	-	-	-	-	-
19	F H - 3298	-	-	47.29	38.46	59.81	32.29	-	22.16	-	-	-	-	-
20	PEH-3	-	-	30.01	29.72	46.85	21.75	-	7.83	-	-	-	-	-
21	PS-65	8.72	-	17.30	-	67.81	21.14	14.06	-	-	-	-	1.73	-
22	VL - 103	-	-	32.27	53.81	89.28	34.72	-	9.70	-	6.79	-	-	-
23	VL - 105	8.94	-	18.39	30.96	94.71	32.03	14.29	-	-	9.86	-	-	-
24	C - 1408	2.77	-	81.84	103.91	61.68	57.73	17.81	50.81	17.97	-	-	19.11	-
25	C - 1415	12.77	-	74.86	52.56	86.29	54.36	18.30	45.03	-	5.11	-	16.56	-
26	KDM-C-36	-	-	29.79	23.85	48.61	22.89	3.57	7.65	-	-	-	-	-
27	SKU-M9	-	-	19.31	37.76	24.82	17.54	4.69	-	-	-	-	-	-
28	L-188	10.21	-	12.35	44.26	37.27	21.80	15.62	-	-	-	-	-	-
29	L-200	12.98	-	32.49	63.79	36.56	32.62	18.53	9.89	-	-	-	0.15	-
30	L-201	7.45	-	36.60	35.65	63.05	32.56	12.72	13.30	-	-	-	0.10	-
CHECKS:														
31	SURYA	-	-	-	-	-	-	4.91	-	-	-	-	-	-
32	LOCAL	-	-	20.57	72.85	77.24	32.43	-	-	-	-	-	-	-
33	H I M - 129	-	-	29.25	30.29	64.88	23.69	-	7.20	-	-	-	-	-
34	VIVEK HYB. - 9	1.49	-	56.95	52.36	37.71	35.68	6.47	30.17	-	-	-	2.46	-
35	MEGHA	8.51	-	35.31	50.12	102.12	42.27	13.84	12.23	-	14.04	-	7.43	-

TABLE NO. 53 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MEGHA						ZN I MEAN
		SRIN	ALMO	BAJA	KANG			
1	F H - 3269	-	11.15	1.06	-	-	-	
2	F H - 3270	-	-	24.68	-	-	-	
3	F H - 3271	-	-	-	-	-	-	
4	F H - 3273	-	17.86	35.48	-	-	5.84	
5	F H - 3276	3.33	6.74	2.82	-	-	-	
6	F H - 3277	-	20.04	6.34	19.16	-	10.98	
7	F H - 3278	-	0.33	1.15	-	-	-	
8	F H - 3283	-	-	-	2.54	-	-	
9	F H - 3284	-	2.46	-	-	-	-	
10	F H - 3285	-	6.25	12.37	-	-	1.32	
11	F H - 3286	-	21.84	-	-	-	1.54	
12	F H - 3287	-	-	14.03	-	-	-	
13	F H - 3289	3.92	18.84	-	17.74	-	10.67	
14	F H - 3293	-	12.52	-	-	-	-	
15	F H - 3294	1.37	17.54	2.00	-	-	5.76	
16	F H - 3295	4.90	5.14	-	-	-	-	
17	F H - 3296	-	-	-	-	-	-	
18	F H - 3297	-	16.76	-	-	-	-	
19	F H - 3298	-	8.85	-	-	-	-	
20	PEH-3	-	-	-	-	-	-	
21	PS-65	0.20	-	-	-	-	-	
22	VL - 103	-	-	2.46	-	-	-	
23	VL - 105	0.39	-	-	-	-	-	
24	C - 1408	-	34.38	35.83	-	-	10.87	
25	C - 1415	3.92	29.23	1.63	-	-	8.50	
26	KDM-C-36	-	-	-	-	-	-	
27	SKU-M9	-	-	-	-	-	-	
28	L-188	1.57	-	-	-	-	-	
29	L-200	4.12	-	9.11	-	-	-	
30	L-201	-	0.95	-	-	-	-	
CHECKS:								
31	SURYA	-	-	-	-	-	-	
32	LOCAL	-	-	15.14	-	-	-	
33	H I M - 129	-	-	-	-	-	-	
34	VIVEK HYB. - 9	-	15.99	1.49	-	-	-	
35	MEGHA	-	-	-	-	-	-	

TABLE NO. 53 (CONT.)

SI 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
1	F H	48.7	66.0	44.0	52.9	49.7	69.3	47.3	55.4	90.3	111.7	82.7	94.9		
2	F H	49.7	64.7	45.0	53.1	51.0	67.3	49.0	55.8	90.3	108.7	82.3	93.8		
3	F H	50.3	64.3	44.3	53.0	51.3	68.7	48.7	56.2	90.7	110.3	79.3	93.4		
4	F H	51.3	65.7	45.7	54.2	52.3	69.3	47.3	55.6	91.7	109.7	83.7	95.0		
5	F H	51.7	63.7	43.3	52.8	52.3	67.0	47.3	56.4	96.3	110.0	82.0	96.1		
6	F H	51.7	65.7	43.3	53.6	52.7	68.7	48.0	56.4	96.0	109.0	82.3	95.8		
7	F H	50.3	63.0	44.0	52.4	51.3	67.7	48.7	55.9	96.0	107.7	84.7	96.1		
8	F H	52.7	66.0	43.7	54.1	53.7	71.3	47.3	57.4	98.7	110.7	82.7	97.3		
9	F H	51.3	65.3	44.0	53.6	52.0	69.3	48.3	56.6	95.0	109.7	83.7	96.1		
10	F H	50.7	65.7	44.7	53.7	51.7	68.7	48.7	57.2	93.0	110.7	83.7	95.8		
11	F H	51.7	66.3	45.7	54.6	52.7	68.7	49.7	57.0	95.3	110.7	84.3	96.8		
12	F H	52.3	65.7	45.7	54.6	53.3	70.3	49.7	57.8	90.7	110.3	85.7	95.6		
13	F H	52.0	63.7	43.0	53.8	53.3	67.3	49.7	56.8	95.7	109.3	89.7	98.2		
14	F H	51.0	64.0	43.0	52.7	52.0	68.0	47.0	55.8	91.7	109.7	82.3	94.4		
15	F H	48.7	65.3	45.0	53.0	53.0	70.7	49.0	55.8	93.3	108.7	82.0	94.7		
16	F H	52.3	67.0	42.3	52.2	51.7	68.7	46.0	55.4	94.0	108.7	82.7	95.1		
17	F H	50.7	63.7	45.3	54.9	51.0	71.0	47.0	57.8	93.0	111.0	84.3	96.1		
18	F H	52.0	65.3	42.7	52.7	51.0	70.0	47.0	56.0	93.0	110.3	89.0	98.7		
19	F H	52.3	65.7	45.7	54.6	53.3	69.0	49.7	57.3	96.7	110.7	84.3	97.2		
20	PS-65	53.7	68.0	46.0	55.9	55.0	71.0	50.3	58.8	96.7	110.7	84.3	97.2		
21	VL - 103	51.3	62.0	45.0	52.8	52.0	64.3	50.0	55.4	92.7	107.0	79.7	93.1		
22	VL - 105	51.3	62.0	45.3	53.6	52.3	67.3	49.7	56.4	91.7	108.7	83.7	94.7		
23	C - 1408	57.7	68.3	45.7	57.2	59.3	72.0	49.7	60.3	101.3	110.3	85.3	99.0		
24	C - 1415	54.7	66.3	45.7	55.6	56.3	68.3	49.7	58.1	100.0	108.3	88.7	99.0		
25	KDM-C-36	51.7	63.7	45.3	53.6	52.7	67.0	49.3	56.3	95.3	113.3	80.7	95.3		
26	SKU-M9	57.7	71.3	49.3	59.4	57.7	76.7	53.3	63.7	103.7	111.3	90.0	102.3		
27	L-188	56.7	64.3	45.3	55.4	57.7	72.0	49.3	59.7	99.7	111.3	83.7	98.2		
28	L-200	52.0	67.0	44.3	54.4	53.7	69.7	49.0	57.4	92.7	107.7	83.0	94.4		
29	L-201	51.3	64.7	45.3	53.8	53.0	68.3	49.3	56.9	92.0	110.3	82.3	94.9		
30	CHECKS:														
31	SURYA	50.7	66.0	44.3	53.7	51.7	68.7	49.0	56.4	90.7	109.0	83.7	94.4		
32	LOCAL	50.0	66.0	45.3	53.8	51.0	70.7	49.3	57.0	91.0	110.3	81.7	94.3		
33	H I M - 129	49.7	63.3	43.0	52.0	50.3	68.0	47.0	55.1	91.3	109.0	81.7	94.0		
34	VIVEK HYB. - 9	50.0	63.7	43.7	52.4	50.7	68.0	47.0	55.2	93.7	109.3	84.3	95.8		
35	MEGHA	56.0	66.0	46.0	56.0	57.0	69.0	50.0	58.7	95.7	110.3	83.7	96.6		
	MEAN LOCATION	51.9	65.4	44.9	54.0	53.0	69.2	48.9	57.0	94.3	109.8	83.6	95.9		
	C.D. AT 5%	1.3	3.0	1.6	1.9	1.2	3.0	1.4	1.9	1.3	2.3	1.0	1.5		
	C.V. %	1.5	2.8	2.2	-	1.4	2.7	1.8	-	0.9	1.3	0.7	-		
	F (Prob)	.000	.000	.000	-	.000	.000	.000	-	.000	.002	.000	-		

TABLE NO. 53 (CONT.)

Sl NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *		
		ALMO	BAJA	KANG	ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN
1	F H - 3269	27.3	21.8	21.0	2.5	2.8	2.7	2.5	3.0	2.8
2	F H - 3270	24.6	20.6	21.9	2.6	2.7	2.6	2.7	2.3	2.5
3	F H - 3271	23.1	24.2	21.3	2.8	2.7	2.7	2.6	2.7	2.6
4	F H - 3273	25.1	25.1	22.9	2.5	2.3	2.4	2.5	1.8	2.2
5	F H - 3276	27.6	22.3	21.2	2.4	2.2	2.3	2.5	2.2	2.3
6	F H - 3277	29.3	25.3	21.4	2.5	2.5	2.5	2.4	2.5	2.5
7	F H - 3278	25.0	22.8	20.5	2.0	2.5	2.5	2.5	2.7	2.6
8	F H - 3283	27.9	24.6	20.6	2.7	2.7	2.6	2.6	2.8	2.7
9	F H - 3284	27.9	23.3	21.7	2.4	2.3	2.4	2.4	2.5	2.5
10	F H - 3285	29.6	24.1	20.8	2.5	2.7	2.6	2.4	2.5	2.5
11	F H - 3286	27.8	24.1	20.6	2.5	2.7	2.6	2.4	2.5	2.5
12	F H - 3287	27.8	25.0	23.6	2.5	2.7	2.4	2.4	2.7	2.7
13	F H - 3287	27.1	24.7	20.4	2.5	2.3	2.3	2.5	2.5	2.7
14	F H - 3289	28.5	23.8	21.4	2.4	3.0	2.4	2.5	2.8	2.6
15	F H - 3293	29.1	21.3	21.9	2.5	2.7	2.4	2.5	2.7	2.7
16	F H - 3294	31.1	18.6	21.9	2.6	2.7	2.6	2.6	2.8	2.9
17	F H - 3295	27.7	26.8	23.2	2.8	2.7	2.8	2.6	3.0	2.6
18	F H - 3296	29.7	21.1	22.7	2.6	2.7	2.5	2.5	2.8	2.6
19	F H - 3297	27.5	24.4	22.4	2.6	2.7	2.7	2.6	3.0	2.8
20	PEH-3	27.5	20.8	22.7	2.6	2.7	2.5	2.8	3.0	2.9
21	PS-65	27.9	24.4	21.2	2.7	2.5	2.8	2.6	3.0	2.7
22	VL - 103	27.6	19.9	22.0	2.5	3.0	2.5	2.6	3.0	2.9
23	VL - 105	26.2	21.2	22.7	2.8	2.2	2.8	2.4	3.0	2.4
24	C - 1408	33.5	24.8	22.0	2.5	2.7	2.9	2.4	2.8	2.6
25	C - 1415	35.7	23.1	21.8	2.7	2.7	2.6	2.8	3.0	2.8
26	KDM-C-36	34.5	21.7	21.5	2.6	3.0	2.8	2.7	3.0	3.0
27	SKU-M9	30.4	26.6	22.7	2.5	2.3	2.7	2.6	2.7	2.6
28	L-188	28.5	23.6	22.7	2.5	2.3	2.4	2.6	2.7	2.6
29	L-200	30.4	23.0	23.1	2.7	2.8	2.7	2.8	3.0	2.8
30	L-201	28.5	23.0	23.1	2.5	2.7	2.7	2.8	3.0	2.8
31	CHECKS:									
31	SURYA	23.0	21.0	20.7	2.9	3.2	3.0	2.8	3.3	3.0
32	LOCAL	27.6	24.0	23.4	2.6	2.5	2.5	2.6	2.5	2.5
33	H I M - 129	26.6	21.1	21.3	2.8	3.0	2.9	2.8	3.0	2.9
34	VIVEK HYB. - 9	30.0	23.3	21.6	2.5	2.7	2.4	2.5	2.3	2.4
35	MEGHA	29.9	22.7	22.4	2.9	2.6	2.8	2.6	2.7	2.8
	MEAN LOCATION	28.3	23.0	21.9	2.4	2.6	2.6	2.6	2.7	2.7
	C.D. AT 5% =	1.9	2.3	2.1	0.2	0.4	0.3	0.2	0.4	0.3
	C.V. % =	4.2	6.2	5.9	4.7	10.4	-	5.5	8.7	-
	F (Prob)	.000	.000	.194	.000	.001	-	.002	.000	-

TABLE NO. 53 (CONT.)

SI NO	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 1 MEAN
		ALMO	BAJA	KANG	ALMO	BAJA	MEAN	ALMO	BAJA	KANG	
1	F	2.4	2.2	2.3	2.4	2.0	2.2	212	123	192	176
2	F	2.4	2.3	2.7	2.5	2.2	2.3	210	136	192	179
3	F	2.4	2.5	2.0	2.2	2.2	2.5	197	132	190	173
4	F	2.5	2.2	2.3	2.5	2.0	2.3	198	128	180	169
5	F	2.1	2.2	2.3	2.2	2.0	2.2	200	127	177	173
6	F	2.0	2.2	2.3	2.2	2.0	2.3	214	127	194	184
7	F	2.2	2.5	3.0	2.2	2.0	2.3	220	138	186	169
8	F	2.5	2.2	4.0	2.6	2.2	2.4	203	119	186	178
9	F	2.5	2.0	4.0	2.6	2.2	2.4	187	137	196	178
10	F	2.1	2.2	3.3	2.2	2.2	2.1	203	129	176	161
11	F	2.1	2.2	2.7	2.2	2.0	2.2	188	113	188	174
12	F	2.4	2.2	2.3	2.6	2.2	2.4	201	112	199	167
13	F	2.4	2.2	3.0	2.6	2.2	2.4	207	133	196	171
14	F	2.4	2.2	2.7	2.6	2.2	2.4	209	122	190	173
15	F	2.4	2.2	3.0	2.6	2.2	2.4	190	110	177	159
16	F	2.4	2.2	2.7	2.7	2.2	2.4	207	131	192	176
17	F	2.4	2.2	2.0	2.5	2.2	2.3	211	125	195	177
18	F	2.0	2.2	2.3	2.5	2.0	2.3	208	130	196	177
19	F	2.4	2.2	3.3	2.6	2.2	2.3	212	124	194	178
20	F	2.1	2.2	3.0	2.5	2.2	2.3	185	114	189	163
21	PS-65	2.1	2.2	3.0	2.5	2.2	2.3	213	133	209	185
22	VL - 103	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
23	VL - 105	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
24	C - 1408	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
25	C - 1415	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
26	KDM-C-36	2.1	2.2	3.3	2.8	2.2	2.6	226	125	208	187
27	SKU-M9	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
28	L-188	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
29	L-200	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
30	L-201	2.4	2.2	3.3	2.8	2.2	2.6	226	125	208	187
31	CHECKS:										
31	SURYA	2.4	2.5	2.3	2.4	2.3	2.7	210	114	212	179
32	LOCAL	2.5	2.3	2.3	2.4	2.3	2.7	194	160	210	188
33	H I M - 129	2.4	2.2	3.0	2.5	2.0	2.5	205	116	183	169
34	VIVEK HYB. - 9	2.4	2.2	3.0	2.5	2.0	2.5	217	127	195	180
35	MEGHA	2.5	2.3	3.0	2.6	2.2	2.8	267	154	226	216
	MEAN LOCATION	2.2	2.3	2.7	2.4	2.2	2.4	212	128	196	179
	C.D. AT 5% =	0.2	0.5	0.9	0.5	0.4	0.3	10.1	16.2	20.3	15.5
	C.V. %	4.9	13.1	20.0	4.4	11.3	0.3	2.9	17.8	6.3	15.5
	F (Prob)	.000	.468	.000	.000	.002	-	.000	.000	.000	-

TABLE NO. 53 (CONT.)

Sl NO	PEDIGREE	EAR HEIGHT (cm)		EAR NO. / PLANT		H. turcicum *		H. maydis *		STAND AT HARVEST			
		ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	KANG	ALMO	BAJA	ALMO	BAJA	KANG	
1	F H - 3269	89	43	79	70	1.02	1.20	1.9	1.8	2.7	2.3	29	15
2	F H - 3270	88	53	75	72	1.02	1.04	1.6	1.8	2.3	2.0	22	17
3	F H - 3271	82	45	85	71	1.02	1.14	1.8	1.7	2.7	2.2	24	16
4	F H - 3273	91	54	85	77	1.00	1.01	1.0	1.1	2.7	1.8	24	17
5	F H - 3276	99	50	90	79	1.04	1.029	1.0	1.4	2.7	1.8	22	18
6	F H - 3277	102	42	74	73	0.97	0.93	1.0	1.4	3.0	2.0	21	14
7	F H - 3278	117	65	91	91	0.98	1.00	1.3	1.4	3.0	1.8	21	17
8	F H - 3283	99	46	91	79	1.00	1.00	1.9	1.8	2.3	2.2	26	16
9	F H - 3284	96	64	92	84	0.98	1.30	1.0	1.7	2.3	2.2	23	19
10	F H - 3285	82	55	73	70	0.98	1.11	1.0	1.3	2.3	2.0	24	18
11	F H - 3286	88	45	78	70	0.98	0.92	1.0	1.7	1.7	1.5	21	17
12	F H - 3287	86	43	90	73	0.92	0.98	1.6	1.5	2.3	1.8	25	17
13	F H - 3289	103	47	101	84	0.97	1.21	1.5	1.8	1.7	1.6	21	17
14	F H - 3293	95	46	86	76	1.02	1.08	1.8	1.8	2.3	1.2	23	20
15	F H - 3294	95	43	95	78	0.98	1.09	1.5	1.8	1.7	1.7	24	16
16	F H - 3295	97	55	85	75	0.99	1.19	1.0	1.3	2.3	1.3	21	18
17	F H - 3296	102	55	91	83	1.01	1.09	1.5	1.6	2.7	2.0	23	15
18	F H - 3297	102	52	93	84	0.99	1.00	1.0	1.4	2.7	1.8	24	13
19	F H - 3298	92	51	88	79	1.00	1.03	1.3	1.8	2.7	1.9	18	17
20	PEH-3	98	51	92	79	1.00	1.03	1.6	1.5	2.7	2.6	24	15
21	PS-65	83	40	88	70	1.00	1.27	1.7	1.8	3.0	2.3	20	16
22	VL - 103	107	51	101	86	1.00	1.09	1.9	1.7	2.7	2.3	23	14
23	VL - 105	115	45	98	86	1.00	1.09	1.9	1.8	2.7	2.3	26	17
24	C - 1408	128	66	113	102	1.00	1.32	1.0	1.3	2.7	1.7	24	15
25	C - 1415	111	49	93	89	1.04	1.17	2.4	2.2	3.0	2.6	24	13
26	KDM-C-36	119	55	91	89	1.04	1.06	2.7	2.4	3.0	2.2	24	10
27	SKU-M9	110	58	103	90	1.00	1.01	1.8	1.7	3.0	2.5	22	17
28	L-188	115	50	92	86	0.97	1.08	1.7	1.7	3.0	2.9	23	17
29	L-200	118	60	100	93	0.91	1.21	2.4	1.7	3.0	2.5	25	17
30	L-201	113	48	102	88	1.00	0.97	1.8	1.7	3.0	2.5	22	15
CHECKS:													
31	SURYA	106	40	101	82	1.00	1.07	2.7	2.0	2.7	2.5	23	18
32	LOCAL	90	57	98	82	1.02	1.08	1.8	2.0	2.7	2.4	23	15
33	H I M - 129	101	52	95	83	1.05	1.05	1.5	1.5	2.7	2.4	24	16
34	VIVEK HYB.-9	100	46	86	77	0.95	1.16	1.7	1.7	2.3	2.0	22	15
35	MEGHA	139	65	117	107	0.98	1.18	2.8	1.7	1.7	1.7	21	12
	MEAN LOCATION	102	51	92	81	-	-	1.6	1.7	2.0	2.1	22	16
	C.D. AT 5%	8.1	11.0	13.7	10.9	-	-	0.4	0.5	1.0	0.7	4.2	2.8
	C.V. %	4.9	13.3	9.2	-	-	-	13.7	19.4	24.3	11.1	11.1	10.6
	F (Prob)	.000	.000	.000	-	-	-	.000	.131	.021	.136	.015	.000

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

TABLE NO. 54

PERFORMANCE OF EXTRA EARLY & EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT SRINAGAR, ALMORA, BAJAURA, KANGRA, PANTNAGAR IN TRIAL NO. TR103A DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L	
		SRIN	R	ALMO	R	BAJA	R	KANG	R	ZN 1	MEAN	R	ZN 2	PANT	R
1	F H - 3299	4009	29	7306	6	6566	5	4250	18	5533	10	2970	22	5020	11
2	F H - 3300	3965	30	6557	12	5835	15	3554	25	4978	19	3284	13	4639	21
3	F H - 3301	4654	11	6123	20	5091	22	2845	32	4678	28	1863	32	4115	31
4	F H - 3302	4366	18	7362	5	4593	32	5829	3	5538	9	3003	21	5031	10
5	F H - 3303	4322	22	6782	10	5486	19	4654	10	5311	13	3460	10	4941	14
6	F H - 3304	4924	4	6769	11	4722	30	6082	2	5624	6	3182	18	5136	7
7	F H - 3305	4427	17	7612	4	5893	14	4488	15	5605	7	2793	26	5043	9
8	F H - 3306	4026	27	6142	19	5086	23	4583	12	4959	20	3933	5	4754	19
9	F H - 3307	3895	31	5904	24	5057	24	3568	24	4606	30	2407	30	4166	30
10	F H - 3308	4627	13	6094	21	6004	12	3356	30	5020	17	3695	9	4755	18
11	V L - 108	4540	14	6244	17	5327	20	3835	22	4986	18	2800	25	4549	24
12	V L - 109	4357	19	5614	26	4860	27	4525	13	4839	26	3401	11	4552	23
13	V L - 110	4462	16	5924	23	4560	33	4480	16	4856	24	2706	29	4426	28
14	V L - 111	4749	6	5474	29	4919	26	4634	11	4944	23	4228	3	4801	15
15	B C M - 5	4340	21	5529	28	6664	4	3292	31	4956	21	3258	15	4616	22
16	B C M - 6	4959	1	4931	32	5935	13	1839	33	4416	32	1544	33	3842	33
17	B C M - 7	4479	15	6071	22	6539	6	4120	20	5302	14	2752	28	4792	17
18	B C M - 8	4357	20	7067	9	6121	10	4962	7	5627	5	3178	19	5137	6
19	X - 102	4697	8	9471	1	7956	1	7143	1	7317	1	3838	7	6621	1
20	MAKKI	4941	3	7127	8	6693	3	5786	5	6137	2	2131	31	5335	4
21	D E H - 10702	4680	10	6443	13	5695	17	3367	29	5046	15	3232	17	4683	20
22	D E H - 10703	4139	25	5735	25	5677	18	3390	27	4735	27	3048	20	4398	29

TABLE NO. 54 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE H I M - 129							OV'L MEAN
	SRIN	ALMO	BAJA	KANG	ZN 1 MEAN	ZN 2 PANT		
1 F H - 3299	-	15.78	24.17	25.39	11.88	-	1.06	
2 F H - 3300	-	3.90	10.36	4.87	0.66	-	-	
3 F H - 3301	-	-	-	-	-	-	-	
4 F H - 3302	-	16.66	-	71.99	11.98	-	1.27	
5 F H - 3303	-	7.46	3.75	37.33	7.40	-	-	
6 F H - 3304	2.73	7.26	-	79.44	13.73	-	3.38	
7 F H - 3305	-	20.63	11.44	32.42	13.34	-	1.51	
8 F H - 3306	-	-	-	35.24	0.29	-	-	
9 F H - 3307	-	-	-	5.28	-	-	-	
10 F H - 3308	-	-	13.55	-	1.52	-	-	
11 V L - 108	-	-	0.73	13.15	0.83	-	-	
12 V L - 109	-	-	-	33.52	-	-	-	
13 V L - 110	-	-	-	32.18	-	-	-	
14 V L - 111	-	-	-	36.73	-	-	-	
15 B C M - 5	-	-	26.02	-	0.22	-	-	
16 B C M - 6	3.45	-	12.23	-	-	-	-	
17 B C M - 7	-	-	23.66	21.56	7.22	-	-	
18 B C M - 8	-	11.99	15.76	46.39	13.79	-	3.41	
19 X - 102	-	50.09	50.46	110.77	47.96	-	33.29	
20 MAKKI	3.09	12.93	26.57	70.72	24.09	-	7.41	
21 D E H - 10702	-	2.09	7.71	-	2.04	-	-	
22 D E H - 10703	-	-	7.35	0.03	-	-	-	
23 D E H - 10302	-	-	-	32.73	-	-	-	
24 D E H - 11103	-	-	-	20.57	-	-	-	
25 D - 994	-	0.69	7.73	47.01	9.86	-	4.57	
26 D - 995	-	1.41	-	22.67	1.84	-	-	
27 N M H - 1035	3.45	30.88	16.34	41.65	22.19	-	8.83	
28 N M H - 1036	-	27.37	30.45	44.24	21.81	-	8.22	
CHECKS:								
29 H I M - 129	-	-	-	8.47	-	-	-	-
30 SURYA	-	-	-	70.73	12.66	-	2.95	-
31 MEGHA	-	-	13.73	1.82	-	-	-	-
32 LOCAL	-	-	20.22	28.59	9.99	-	-	-
33 VIVEK HYB. - 9	-	13.26	16.72	-	-	-	0.80	-

TABLE NO. 54 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SURYA							OV'L MEAN
		SRIN	ALMO	BAJA	KANG	ZN 1 MEAN	ZN 2 PANT		
1	F H - 3299	5.75	44.61	36.57	15.60	27.72	-	22.05	
2	F H - 3300	4.60	29.77	21.38	-	14.92	1.37	12.78	
3	F H - 3301	22.76	21.18	5.89	-	8.00	-	0.04	
4	F H - 3302	15.17	45.72	-	58.56	27.84	-	22.31	
5	F H - 3303	14.02	34.22	14.12	26.61	22.61	6.81	20.12	
6	F H - 3304	29.89	33.98	-	65.43	29.83	-	24.86	
7	F H - 3305	16.78	50.67	22.58	22.08	29.39	-	22.59	
8	F H - 3306	6.21	21.57	5.79	24.68	14.49	21.43	15.58	
9	F H - 3307	2.76	16.85	5.19	-	6.33	-	1.29	
10	F H - 3308	22.07	20.61	24.89	-	15.90	14.09	15.61	
11	V L - 108	19.77	23.57	10.80	4.31	15.11	-	10.60	
12	V L - 109	14.94	11.11	1.10	23.10	11.71	5.01	10.66	
13	V L - 110	17.70	17.24	-	21.86	12.11	-	7.61	
14	V L - 111	25.29	8.35	2.33	26.06	14.14	30.52	16.72	
15	B C M - 5	14.48	9.43	38.61	-	14.41	0.57	12.23	
16	B C M - 6	30.80	-	23.45	-	1.94	-	-	
17	B C M - 7	18.16	20.16	36.01	12.07	22.40	-	16.51	
18	B C M - 8	14.94	39.88	27.33	34.96	29.90	-	24.89	
19	X - 102	23.91	87.46	65.50	94.31	68.92	18.49	60.97	
20	MAKKI	30.34	41.05	39.22	57.39	41.67	-	29.72	
21	D E H - 10702	23.45	27.52	18.47	-	16.49	-	13.86	
22	D E H - 10703	9.20	13.52	18.08	-	9.32	-	6.92	
23	D E H - 10302	2.07	-	-	22.36	3.90	28.84	7.83	
24	D E H - 11103	25.29	-	-	11.15	7.46	16.02	8.81	
25	D - 994	23.91	25.76	18.49	35.54	25.41	30.96	26.29	
26	D - 995	22.53	26.67	2.79	13.10	16.26	18.51	16.61	
27	N M H - 1035	30.80	63.47	27.96	30.59	39.50	-	31.44	
28	N M H - 1036	12.64	59.09	43.49	32.97	39.06	-	30.70	
CHECKS:									
29	H I M - 129	26.44	24.90	9.99	-	14.16	56.13	20.77	
30	SURYA	-	-	-	-	-	-	-	
31	MEGHA	12.18	23.34	25.09	57.40	28.61	1.47	24.34	
32	LOCAL	6.21	9.82	32.23	-	11.86	-	7.96	
33	VIVEK HYB. - 9	7.59	41.47	28.38	18.55	25.56	1.27	21.74	

TABLE NO. 54 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MEGHA							OV'L MEAN
		SRIN	ALMO	BAJA	KANG	ZN 1 MEAN	ZN 2 PANT		
1	F H - 3299	-	17.25	9.18	-	-	-	-	-
2	F H - 3300	-	5.22	-	-	-	-	-	-
3	F H - 3301	9.43	-	-	-	-	-	-	-
4	F H - 3302	2.66	18.14	-	0.74	-	5.27	-	-
5	F H - 3303	1.64	8.83	-	-	-	-	-	0.42
6	F H - 3304	15.78	8.63	-	5.10	-	-	-	-
7	F H - 3305	4.10	22.16	-	-	-	19.67	-	-
8	F H - 3306	-	-	-	-	-	-	-	-
9	F H - 3307	-	-	-	-	-	-	-	-
10	F H - 3308	8.81	-	-	-	-	12.44	-	-
11	V L - 108	6.76	0.19	-	-	-	-	-	-
12	V L - 109	2.46	-	-	-	-	3.49	-	-
13	V L - 110	4.92	-	-	-	-	-	-	-
14	V L - 111	11.68	-	-	-	-	28.64	-	-
15	B C M - 5	2.05	-	10.81	-	-	-	-	-
16	B C M - 6	16.60	-	-	-	-	-	-	-
17	B C M - 7	5.33	-	8.73	-	-	-	-	-
18	B C M - 8	2.46	13.41	1.79	-	-	-	-	0.45
19	X - 102	10.45	51.99	32.30	23.45	1.00	16.78	29.47	4.33
20	MAKKI	16.19	14.36	11.29	-	31.34	-	-	-
21	D E H - 10702	10.04	3.39	-	-	10.15	-	-	-
22	D E H - 10703	-	-	-	-	-	-	-	-
23	D E H - 10302	-	-	-	-	-	26.98	-	-
24	D E H - 11103	-	-	-	-	-	14.35	-	-
25	D - 994	11.68	1.97	-	-	-	29.07	1.57	-
26	D - 995	10.45	2.70	-	-	-	16.80	-	-
27	N M H - 1035	9.22	32.54	2.29	-	8.46	-	5.71	-
28	N M H - 1036	16.60	28.99	14.70	-	8.12	-	5.12	-
29	H I M - 129	0.41	-	-	-	-	53.88	-	-
30	SURYA	12.70	1.27	-	-	-	-	-	-
31	MEGHA	-	-	-	-	-	-	-	-
32	LOCAL	-	-	5.70	-	-	-	-	-
33	VIVEK HYB. - 9	-	14.70	2.62	-	-	-	-	-

TABLE NO. 54 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE LOCAL							OV/L MEAN
		SRIN	ALMO	BAJA	KANG	ZN 1 MEAN	ZN 2 PANT		
1	F H - 3299	-	31.68	3.29	23.14	14.18	5.30	13.05	
2	F H - 3300	-	18.17	-	2.99	2.73	16.41	4.47	
3	F H - 3301	15.58	10.35	-	-	-	-	-	
4	F H - 3302	8.44	32.69	-	68.91	14.28	6.45	13.29	
5	F H - 3303	7.36	22.22	-	34.87	9.61	22.66	11.27	
6	F H - 3304	22.29	22.00	-	76.23	16.06	12.82	15.65	
7	F H - 3305	9.96	37.19	-	30.04	15.67	-	13.55	
8	F H - 3306	-	10.70	-	32.81	2.35	39.43	7.06	
9	F H - 3307	-	6.40	-	3.39	-	-	-	
10	F H - 3308	14.94	9.83	-	-	3.61	31.01	7.09	
11	V L - 108	12.77	12.53	-	11.12	2.90	-	2.44	
12	V L - 109	8.23	1.17	-	31.13	-	20.58	2.50	
13	V L - 110	10.82	6.76	-	29.81	0.22	-	-	
14	V L - 111	17.97	-	-	34.28	2.04	49.88	8.12	
15	B C M - 5	7.79	-	4.83	-	2.28	15.49	3.96	
16	B C M - 6	23.16	-	-	-	-	-	-	
17	B C M - 7	11.26	9.42	2.86	19.38	9.42	-	7.92	
18	B C M - 8	8.23	27.37	-	43.77	16.12	12.68	15.69	
19	X - 102	16.67	70.70	25.16	106.99	51.00	36.06	49.10	
20	MAKKI	22.73	28.44	5.29	67.66	26.64	-	20.15	
21	D E H - 10702	16.23	16.11	-	-	4.14	14.57	5.47	
22	D E H - 10703	2.81	3.37	-	-	-	8.07	-	
23	D E H - 10302	-	-	-	30.35	-	47.95	-	
24	D E H - 11103	17.97	-	-	18.40	-	33.23	0.79	
25	D - 994	16.67	14.52	-	44.38	12.11	50.38	16.97	
26	D - 995	15.37	15.34	-	20.48	3.93	36.09	8.01	
27	N M H - 1035	23.16	48.85	-	39.12	24.70	1.41	21.74	
28	N M H - 1036	6.06	44.87	8.52	41.65	24.31	-	21.07	
CHECKS:									
29	H I M - 129	19.05	13.74	-	-	2.05	79.29	11.87	
30	SURYA	-	-	-	6.52	-	14.83	-	
31	MEGHA	5.63	12.31	-	67.67	14.97	16.51	15.17	
32	LOCAL	-	-	-	-	-	-	-	
33	VIVEK HYB. - 9	1.30	28.82	-	26.29	12.25	16.29	12.76	

TABLE NO. 54 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN			DAYS TO 50% SILKING			OV'L MEAN		
		ALMO	BAJA	KANG	ALMO	BAJA	KANG			
1	F H - 3299	51.7	58.3	46.3	52.7	61.0	50.3	54.7	57.5	55.4
2	F H - 3300	49.3	59.0	44.7	50.3	61.7	49.0	54.7	54.3	53.8
3	F H - 3301	51.0	58.7	43.7	52.0	61.3	47.7	53.7	53.7	53.6
4	F H - 3302	51.1	58.0	45.0	51.3	60.7	48.7	53.6	53.3	53.5
5	F H - 3303	50.3	57.0	46.0	51.3	59.7	50.0	53.7	49.7	52.7
6	F H - 3304	50.7	57.7	44.3	51.7	63.3	48.0	54.3	53.0	54.0
7	F H - 3305	50.3	57.3	46.3	51.3	60.7	50.7	54.2	49.0	52.9
8	F H - 3306	49.7	57.3	45.0	50.7	60.7	48.3	53.2	53.3	53.3
9	F H - 3307	50.3	57.7	45.7	51.3	60.7	49.7	53.9	51.3	53.3
10	F H - 3308	50.0	56.7	44.7	51.3	60.0	48.7	53.3	48.0	52.0
11	V L - 108	49.3	56.7	46.3	50.3	60.0	50.3	53.6	54.7	53.8
12	V L - 109	48.0	56.3	42.7	49.0	58.3	46.0	51.1	49.7	50.8
13	V L - 110	49.7	57.3	44.0	50.3	60.3	48.0	52.9	49.7	52.1
14	V L - 111	49.0	57.0	44.7	50.2	59.0	48.0	52.3	51.3	52.1
15	B C M - 5	58.0	63.0	48.0	59.7	65.3	52.7	59.2	57.3	58.7
16	B C M - 6	57.0	62.3	48.7	58.0	65.3	53.3	58.9	58.0	58.7
17	B C M - 7	57.7	61.0	46.3	59.0	64.7	49.7	57.8	55.7	57.3
18	B C M - 8	56.3	59.7	49.3	57.0	63.0	53.7	57.9	57.7	57.8
19	X - 102	53.0	60.7	49.3	54.0	64.0	53.3	57.1	52.0	55.8
20	MAKKI - 1070	53.3	59.3	47.3	54.3	62.3	51.7	56.1	55.3	55.9
21	D E H - 10702	48.3	54.7	44.7	49.7	57.3	49.3	52.1	49.3	51.4
22	D E H - 10703	50.3	55.3	44.7	51.3	57.7	49.3	52.8	49.5	52.0
23	D E H - 10302	48.0	56.0	44.3	49.3	58.0	48.0	51.8	49.3	51.2
24	D E H - 11103	49.0	56.3	44.7	49.3	59.3	48.3	52.7	51.7	52.4
25	D - 994	51.3	56.0	46.3	52.3	58.0	50.3	53.6	52.0	53.2
26	D - 995	49.3	57.0	47.0	50.7	60.0	51.0	53.9	47.7	52.3
27	N M H - 1035	58.7	62.7	49.3	59.7	66.3	53.7	59.9	55.3	58.8
28	N M H - 1036	58.3	62.3	53.3	59.3	66.0	57.3	60.9	58.0	60.2
CHECKS:										
29	H I M - 129	48.3	57.3	44.3	49.3	61.3	49.0	53.2	49.0	52.2
30	SURYA	50.3	56.7	44.3	51.7	59.7	48.0	53.1	54.3	53.4
31	MEGHA	54.7	61.7	50.7	56.3	65.0	54.7	58.7	57.0	58.3
32	LOCAL	50.0	61.3	45.7	51.0	64.3	50.3	55.2	55.0	55.2
33	VIVEK HYB. - 9	51.6	56.7	45.7	51.0	59.0	49.7	53.2	51.0	52.7
	MEAN LOCATION	51.6	58.3	46.2	52.7	61.3	50.2	54.7	52.8	54.3
	C.D. AT 5% =	1.2	2.7	1.6	1.3	3.1	1.7	2.0	5.1	-
	C.V. % =	1.5	2.9	2.1	1.5	3.1	2.0	-	5.9	-
	F (Prob)	.000	.000	.000	.000	.000	.000	-	.000	-

TABLE NO. 54 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				OV'L MEAN	
		ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ZN 1 MEAN		
1	F H - 3299	92.3	102.7	89.3	94.8	30.2	16.0	22.1	22.8	20.7	22.2
2	F H - 3300	90.7	102.3	88.7	93.9	27.2	15.8	22.3	21.8	24.0	22.3
3	F H - 3301	94.0	102.7	86.3	94.3	27.6	18.4	21.2	22.4	29.9	24.3
4	F H - 3302	91.7	102.0	89.3	94.3	27.6	18.8	19.5	21.9	23.1	22.2
5	F H - 3303	92.0	102.7	89.3	94.7	30.5	17.3	19.1	22.3	21.8	21.2
6	F H - 3304	92.0	102.3	86.7	93.7	25.9	17.6	19.5	21.0	23.2	22.7
7	F H - 3305	91.3	102.3	90.0	94.6	27.8	18.5	21.4	22.6	25.0	22.6
8	F H - 3306	91.7	101.7	86.7	93.3	26.1	19.0	20.5	21.8	26.6	22.7
9	F H - 3307	93.7	102.7	89.3	95.2	30.8	18.1	19.1	22.7	24.0	22.7
10	F H - 3308	91.7	103.7	89.7	95.0	26.0	18.8	22.0	22.3	22.3	22.9
11	V L - 108	91.3	101.3	87.7	93.4	29.6	18.9	20.8	23.1	22.3	22.9
12	V L - 109	89.7	100.7	88.3	92.9	29.5	19.1	21.6	23.4	25.3	23.9
13	V L - 110	92.7	103.0	89.3	95.0	25.5	19.3	21.6	22.1	25.7	23.0
14	V L - 111	90.3	103.7	88.3	94.1	27.1	19.7	23.1	23.3	21.5	22.8
15	B C M - 5	102.3	104.7	92.3	99.8	30.6	19.8	21.7	24.0	24.1	24.0
16	B C M - 6	105.0	104.0	90.0	99.7	30.0	20.1	21.7	23.9	22.5	23.6
17	B C M - 7	101.3	104.0	90.0	98.4	29.1	20.5	20.1	23.2	28.0	24.4
18	B C M - 8	98.7	104.0	94.7	99.1	31.5	18.8	20.9	23.7	27.8	24.7
19	X - 102	100.3	105.0	89.7	98.3	32.9	21.3	21.7	25.3	26.9	25.7
20	MAKKI	97.0	102.7	89.7	96.4	29.1	23.4	22.5	25.0	23.7	24.7
21	D E H - 10702	91.3	101.7	86.7	93.2	27.7	18.0	19.8	21.8	21.7	21.8
22	D E H - 10703	90.7	101.3	85.3	92.4	26.9	19.0	21.3	22.4	20.5	21.9
23	D E H - 10302	90.7	101.3	90.0	94.0	27.3	19.8	21.4	22.8	23.4	23.0
24	D E H - 11103	90.3	102.0	88.7	93.7	22.7	18.6	21.8	21.1	20.3	20.9
25	D - 994	92.7	103.0	89.7	95.1	29.1	19.5	22.4	23.7	25.6	24.1
26	D - 995	93.0	103.0	85.3	93.8	28.3	19.0	21.8	23.1	22.5	22.9
27	N M H - 1035	108.3	104.7	94.7	102.6	35.3	20.6	21.4	25.8	24.6	25.5
28	N M H - 1036	109.0	105.0	93.3	102.4	40.9	21.8	22.2	28.3	30.3	28.8
CHECKS:											
29	H I M - 129	91.0	103.0	86.0	93.3	27.0	19.7	22.3	23.0	22.6	22.9
30	SURYA	91.3	103.3	89.3	94.7	26.6	18.8	21.3	22.3	22.0	22.2
31	MEGHA	97.3	104.0	90.0	97.1	26.5	20.1	21.5	22.7	30.6	24.7
32	LOCAL	92.0	103.3	89.7	95.0	28.1	23.6	22.6	24.8	24.2	24.6
33	VIVEK HYB. - 9	95.0	102.7	89.7	95.8	28.4	17.9	20.4	22.2	24.7	22.8
	MEAN LOCATION	94.6	102.9	89.2	95.6	28.8	19.3	21.3	23.1	24.3	23.4
	C.D. AT 5% =	1.8	2.2	0.8	1.6	2.4	1.6	2.5	2.2	4.7	-
	C.V. % =	1.2	1.3	0.6	-	5.1	5.2	7.3	-	11.9	-
	F (Prob)	.000	.008	.000	-	.000	.000	.160	-	.000	-

TABLE NO. 54 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
		ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN
1	F H - 3299	2.4	3.0	2.7	2.5	2.5	2.5	2.4	2.0	2.2	2.5	2.3	2.4
2	F H - 3300	2.5	3.0	2.8	2.5	2.5	2.5	2.5	2.2	2.3	2.5	2.6	2.7
3	F H - 3301	2.8	2.7	2.6	2.5	2.7	2.6	2.4	2.3	2.3	2.6	2.3	2.5
4	F H - 3302	2.6	2.7	2.6	2.5	2.7	2.6	2.4	2.2	2.3	2.6	2.3	2.5
5	F H - 3303	2.5	2.7	2.7	2.5	2.7	2.7	2.4	2.5	2.4	2.7	2.5	2.6
6	F H - 3304	2.7	2.7	2.5	2.5	2.7	2.4	2.4	2.0	2.2	2.5	2.2	2.3
7	F H - 3305	2.6	2.5	2.7	2.5	2.3	2.6	2.4	2.2	2.3	2.6	2.3	2.5
8	F H - 3306	2.7	3.0	2.8	2.6	2.3	2.5	2.4	2.2	2.2	2.6	2.7	2.6
9	F H - 3307	2.5	2.8	2.7	2.5	2.5	2.5	2.5	2.2	2.3	2.5	2.7	2.9
10	F H - 3308	2.8	3.0	2.9	2.7	2.3	2.8	2.5	2.5	2.5	2.8	3.0	2.8
11	V L - 108	2.7	3.0	2.8	2.7	2.8	2.8	2.4	2.2	2.5	2.9	2.8	2.9
12	V L - 109	2.5	3.0	2.9	2.8	2.7	2.8	2.4	2.5	2.4	2.7	2.8	2.8
13	V L - 110	2.7	3.0	2.8	2.7	2.7	2.7	2.3	2.3	2.3	2.9	2.7	2.8
14	V L - 111	2.9	2.8	2.7	2.7	2.5	2.6	2.1	2.5	2.3	2.2	3.0	3.1
15	V L C M - 5	2.8	2.5	2.8	2.7	2.5	2.7	2.0	2.5	2.3	2.9	2.8	2.9
16	B C M - 6	2.9	2.8	2.9	2.6	2.5	2.5	2.0	2.3	2.2	3.3	2.7	3.0
17	B C M - 7	2.9	2.8	2.7	2.6	2.5	2.5	2.1	2.3	2.2	3.4	3.0	3.2
18	B C M - 8	2.3	1.8	2.1	2.0	1.8	1.9	2.2	2.0	2.2	2.8	2.3	2.6
19	X - 102	2.5	2.5	2.5	2.6	2.6	1.5	2.3	2.0	2.1	2.4	2.0	2.7
20	MAKKI	2.6	2.7	2.6	2.6	2.6	2.5	2.4	2.3	2.3	2.7	2.7	2.7
21	D E H - 10702	2.6	3.0	2.8	2.6	2.5	2.5	2.5	2.7	2.6	2.6	2.8	2.7
22	D E H - 10703	2.9	3.0	2.9	2.9	2.5	2.7	2.3	2.5	2.4	2.7	2.7	2.9
23	D E H - 10302	2.8	3.0	2.9	2.9	2.7	2.7	2.5	2.2	2.5	2.8	3.0	2.8
24	D E H - 11103	2.6	2.8	2.7	2.6	2.5	2.5	2.4	2.7	2.5	2.8	2.7	2.8
25	D - 994	2.8	2.8	2.8	2.8	2.5	2.5	2.4	2.7	2.5	2.8	2.8	2.7
26	D - 995	2.5	2.0	2.3	2.4	2.3	2.6	2.4	2.5	2.0	2.8	2.7	2.6
27	N M H - 1035	2.4	2.2	2.3	2.2	2.0	2.2	2.0	2.0	2.0	2.7	2.3	2.5
28	N M H - 1036	2.7	3.0	2.8	2.6	2.2	2.2	2.0	2.0	2.0	2.7	2.3	2.5
CHECKS:													
29	H I M - 129	2.7	3.0	2.8	2.6	2.7	2.3	2.4	2.3	2.4	2.7	2.7	2.7
30	SURYA	2.9	3.0	2.9	2.9	2.7	2.7	2.0	2.5	2.3	2.8	3.0	2.9
31	MEGHA	2.8	2.8	2.8	2.7	2.7	2.7	2.5	2.2	2.3	3.1	3.0	3.1
32	LOCAL	2.6	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.4	2.7	2.7	2.7
33	VIVEK HYB. - 9	2.5	2.7	2.6	2.6	2.4	2.2	2.3	2.0	2.1	2.7	2.2	2.3
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													

TABLE NO. 54 (CONT.)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				OV'L MEAN			
		ALMO	BAJA	KANG	ZN 1 MEAN	ZN 2 PANT	OV'L MEAN	ALMO	BAJA		KANG	ZN 1 MEAN	ZN 2 PANT
1	F H - 3299	204	125	181	170	164	168	93	55	79	76	64	73
2	F H - 3300	200	126	175	167	174	169	95	61	88	81	71	79
3	F H - 3301	189	123	156	156	153	155	86	69	74	76	65	73
4	F H - 3302	198	121	159	159	169	162	94	57	77	76	66	73
5	F H - 3303	206	142	180	176	186	177	102	68	91	87	75	84
6	F H - 3304	200	135	190	175	183	177	98	62	85	81	109	88
7	F H - 3305	194	120	209	174	155	170	97	58	95	84	61	78
8	F H - 3306	199	125	177	167	197	174	97	63	90	83	78	82
9	F H - 3307	200	134	170	168	172	169	99	62	77	79	77	79
10	F H - 3308	179	134	151	155	166	158	90	68	77	77	71	76
11	V L L - 108	202	152	181	178	189	181	103	77	87	89	74	85
12	V L L - 109	201	135	190	175	183	177	95	63	93	84	72	81
13	V L L - 110	210	143	181	178	181	179	105	72	85	87	70	83
14	V L L - 111	211	142	207	186	184	186	99	72	99	90	78	87
15	B C M - 5	273	205	236	238	211	231	164	107	131	134	123	131
16	B C M - 6	286	192	171	216	216	216	150	102	106	119	100	114
17	B C M - 7	298	213	209	240	207	232	176	110	107	131	120	128
18	B C M - 8	285	155	212	217	196	212	173	93	109	125	121	124
19	X - 102	243	175	204	207	209	208	129	93	99	107	83	101
20	MAKKI	213	152	207	191	163	184	110	78	95	94	74	89
21	D E H - 10702	205	160	136	167	195	174	101	65	88	85	83	84
22	D E H - 10703	195	138	183	172	180	174	95	68	87	83	78	82
23	D E H - 10302	189	127	189	169	190	174	92	65	90	82	82	82
24	D E H - 11103	202	133	189	174	183	177	101	63	88	84	74	81
25	D - 994	207	162	199	189	202	192	104	88	96	91	97	96
26	D - 995	217	137	186	180	190	182	109	70	93	96	84	89
27	N M H - 1035	249	174	222	215	210	214	143	90	117	117	88	110
28	N M H - 1036	261	178	200	213	204	211	155	87	107	116	86	109
CHECKS:													
29	H I M - 129	203	133	169	169	166	168	104	67	80	84	78	82
30	SURYA	213	132	179	175	191	179	110	71	91	91	88	90
31	MEGHA	265	167	221	218	226	220	144	90	121	118	100	114
32	LOCAL	194	177	202	191	193	191	98	87	91	92	79	89
33	VIVEK HYB. - 9	217	147	181	182	208	188	104	67	82	84	77	82
MEAN LOCATION		218	149	188	185	188	186	113	75	93	93	83	91
C.D. AT 5%		10.6	24.0	30.4	21.7	32.5	-	9.2	13.9	17.7	13.6	28.6	-
C.V. %		3.0	9.9	9.9	-	10.6	-	5.0	11.4	11.7	-	21.1	-
F (Prob)		.000	.000	.000	-	.001	-	.000	.000	.000	-	.001	-

TABLE NO. 54 (CONT.)

S1 NO	PEDIGREE	EAR NO. / PLANT		H. turcicum *		H. maydis *		ZN 1		RUST		STAND AT HARVEST	
		ALMO	KANG	ALMO	BAJA	ALMO	KANG	ALMO	KANG	ALMO	BAJA	KANG	PANT
1	F H - 3299	1.00	0.93	1.8	1.7	1.7	1.3	1.5	1.3	22	32	18	13
2	F H - 3300	0.97	0.97	1.5	1.7	1.6	1.8	2.4	1.8	22	36	19	9
3	F H - 3301	1.00	1.09	1.7	1.8	1.8	1.3	1.6	1.0	22	36	16	12
4	F H - 3302	1.00	1.15	1.3	1.5	1.4	2.7	2.0	1.2	23	30	16	11
5	F H - 3303	1.06	1.17	1.6	1.8	1.7	2.3	2.2	1.8	22	35	18	8
6	F H - 3304	1.07	0.97	1.5	2.0	1.8	2.3	2.0	1.9	22	36	16	18
7	F H - 3305	1.03	0.96	1.5	1.8	1.7	3.0	2.3	1.0	22	33	18	19
8	F H - 3306	0.98	1.00	1.0	1.5	1.3	2.0	1.8	1.9	23	36	18	18
9	F H - 3307	1.01	1.09	1.5	1.5	1.5	3.0	2.2	1.0	21	29	17	14
10	F H - 3308	1.09	0.99	1.7	1.5	1.9	3.0	2.3	1.3	21	31	17	6
11	V L - 108	0.99	0.93	2.0	2.2	2.1	3.0	2.6	1.7	23	33	17	14
12	V L - 109	1.03	1.04	2.3	2.0	2.1	2.7	2.3	1.7	23	33	17	17
13	V L - 110	1.00	1.04	2.1	2.0	2.0	2.3	2.0	1.0	21	29	16	14
14	V L - 111	1.03	1.18	1.4	1.7	1.9	2.3	2.1	1.8	22	29	16	18
15	B C M - 5	1.01	1.25	2.6	1.8	1.5	3.0	2.5	2.0	21	27	13	20
16	B C M - 6	1.02	1.26	1.0	1.8	1.5	1.7	1.6	2.2	22	26	16	15
17	B C M - 7	1.00	0.99	1.2	1.5	1.8	2.0	1.9	1.9	20	29	17	11
18	B C M - 8	1.00	0.97	1.0	1.7	1.3	2.3	1.9	1.0	22	32	17	18
19	X - 102	1.02	1.05	1.4	1.8	1.6	1.7	1.6	1.6	21	34	17	14
20	MAKKI	0.98	1.13	2.7	2.0	2.3	3.3	2.5	1.3	23	35	16	17
21	D E H - 10702	1.04	0.96	1.9	2.0	2.0	3.7	2.9	1.4	22	34	16	15
22	D E H - 10703	1.01	1.10	1.8	2.0	1.9	3.7	2.9	2.0	24	38	16	12
23	D E H - 10302	1.06	0.99	1.8	2.2	2.3	3.7	3.0	2.0	20	33	19	19
24	D E H - 11103	1.00	1.11	1.8	2.0	1.9	2.7	2.2	1.7	21	36	15	21
25	D - 994	0.97	1.11	1.6	1.8	1.7	2.7	2.2	1.0	23	35	15	10
26	D - 995	1.04	1.08	1.0	1.8	1.4	2.0	1.7	1.2	23	32	16	17
27	N M H - 1035	1.03	1.09	1.0	1.5	1.3	2.7	1.8	1.0	23	30	17	12
28	N M H - 1036	1.07	1.09	1.5	1.8	1.7	2.7	1.8	1.8	22	34	15	20
29	H I M - 129	1.03	1.14	3.0	2.0	2.5	3.3	2.8	1.7	24	32	17	15
30	SURYA	1.09	1.17	2.8	1.8	2.3	2.0	2.0	2.1	21	35	19	12
31	MEGHA	1.00	1.04	1.5	1.7	1.6	2.7	2.1	2.2	21	34	18	12
32	LOCAL	1.03	0.90	1.3	1.7	1.5	2.0	1.9	1.2	23	33	16	16
33	VIVEK HYB. - 9	-	-	1.7	1.8	1.8	2.6	2.2	1.5	22	33	17	15
	MEAN LOCATION	-	-	0.5	0.5	0.5	0.8	0.7	0.6	2.7	4.4	3.7	9.2
	C.D. AT 5% =	-	-	19.2	16.3	-	19.2	-	25.6	7.6	8.2	13.4	38.5
	C.V. % =	-	-	0.00	0.118	-	0.00	-	0.00	0.642	0.00	0.366	0.178
	F (Prob)	-	-	0.00	0.118	-	0.00	-	0.00	0.642	0.00	0.366	0.178

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

TABLE NO. 55

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, KANPUR IN ZONAL TRIAL No. TR201 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE BIO		Zn 2 MEAN			
		DELH	R	KARN	R	KANP	R	MEAN	R	DELH	KARN	9681 KANP	ZN 2 MEAN
1	J H - 10704	5395	4	6957	2	5386	1	5913	1	23.57	-	38.43	5.07
2	A H - 23053	5050	7	5130	10	3717	10	4632	10	15.67	-	-	-
3	A H - 23057	3862	15	4643	13	4750	2	4418	13	-	-	22.08	-
4	A H - 23059	4887	9	5125	11	3876	7	4630	11	11.94	-	-	-
5	A H - 24005	5000	8	6306	4	3853	8	5053	5	14.53	-	-	-
6	A H - 24017	4323	14	3979	14	2990	15	3764	15	-	-	-	-
7	H K H - 1194	4874	10	5378	9	3647	12	4633	9	11.64	-	-	-
8	H K H - 1220	5451	3	5622	8	3980	4	5018	6	24.86	-	-	-
9	H K H - 1400	4686	11	5059	12	3701	11	4482	12	7.34	-	2.30	-
10	H K H - 1401	5542	2	6245	5	3075	14	4954	7	26.93	-	-	-
11	H K H - 1403	5384	5	6245	6	3168	13	4932	8	23.32	-	-	-
CHECKS:													
12	BIO - 9681	4366	13	8625	1	3891	6	5627	2	-	-	-	-
13	SEEDTEC - 2324	6299	1	6450	3	3752	9	5500	3	44.29	-	-	-
14	PARBHAT	4588	12	3095	15	3925	5	3869	14	5.08	-	0.88	-
15	PRO - 311	5199	6	5831	7	4339	3	5123	4	19.07	-	11.53	-
MEAN YIELD=													
MEAN STAND													
C.D. AT 5% =													
C.V. % =													
F (Prob)													
PLOT SIZE=													
AGRONOMY DATA:													
SOWING DATE (2003)													
HARVEST DATE (2003)													
IRRIGATION Nos													
FERTILIZER APPLIED N													
P													
K													

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : LUDDH 28.6%

TABLE NO. 55 (CONT.)

S1 No PEDIGREE	DAYS TO 50%		DAYS TO 50%		DAYS TO 50%		50% DRY		MOISTURE % AT	
	POLLEN SHED DELH KARN	SHED ZN 2 MEAN	SILKING DELH KARN	SILKING ZN 2 MEAN	HUSK KARN	HUSK ZN 2 MEAN	HARVEST DELH KARN	HARVEST ZN 2 MEAN		
1 J H - 10704	51.3	53.5	52.4	53.7	56.0	54.8	87.5	35.1	16.7	25.9
2 A H - 23053	47.7	48.5	48.1	49.3	51.0	50.2	85.5	25.1	16.3	20.7
3 A H - 23057	47.0	49.0	48.0	51.7	51.0	51.3	87.0	29.8	16.3	23.1
4 A H - 23059	48.0	49.5	48.8	50.3	52.5	51.4	86.5	27.0	16.0	21.5
5 A H - 24005	48.0	49.5	48.8	50.0	51.5	50.8	85.5	26.5	15.7	21.1
6 A H - 24017	46.0	51.0	48.5	50.0	53.5	51.8	84.5	22.2	15.7	18.9
7 H K H - 1194	51.7	51.5	51.6	54.7	54.0	54.3	88.0	28.3	15.3	21.8
8 H K H - 1220	53.0	51.5	52.3	56.3	53.5	54.9	87.5	33.1	16.0	24.5
9 H K H - 1400	52.0	50.5	51.3	54.3	53.0	53.7	86.5	28.0	16.0	22.0
10 H K H - 1401	47.3	49.5	48.4	49.0	52.0	50.5	86.5	26.0	15.0	20.5
11 H K H - 1403	52.0	52.5	52.3	55.0	54.5	54.8	86.5	35.0	15.3	25.2
CHECKS:										
12 BIO - 9681	47.3	49.0	48.2	49.7	51.0	50.3	83.5	29.2	16.0	22.6
13 SEEDTEC - 2324	51.0	52.5	51.8	53.0	55.0	54.0	86.0	37.3	15.7	26.5
14 PARBHAT	51.0	53.0	52.0	54.0	55.0	54.5	85.5	34.2	16.0	25.1
15 PRO - 311	50.7	53.5	52.1	53.3	55.5	54.4	85.5	33.3	16.3	24.8
MEAN LOCATION										
C.D. AT 5% =	1.7	1.3	1.5	2.0	0.8	1.4	1.4	0.0	1.0	0.5
C.V. % =	2.0	1.2	-	2.3	0.7	-	0.8	0.0	3.6	-
F (Prob)	.000	.000	-	.000	.000	-	.001	.000	.082	-

TABLE NO. 55 (CONT.)

Sl NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COV. * -RMITY*			PLANT HEIGHT (cm)			
		DELH	KANP	ZN 2 MEAN	DELH	KANP	ZN 2 MEAN	KANP	COV.	KANP	DELH	KANP	ZN 2 MEAN	
1	J H - 10704	2.0	2.0	2.0	1.5	2.0	1.8	2.0	2.0	2.0	210	240	175	208
2	A H - 23053	2.5	2.0	2.3	2.5	2.3	2.4	2.3	2.3	2.2	213	188	138	179
3	A H - 23057	2.5	2.3	2.4	2.3	2.2	2.2	2.0	2.3	2.2	220	180	138	179
4	A H - 23059	2.5	2.3	2.4	2.5	2.2	2.3	2.0	2.2	2.2	215	215	171	200
5	A H - 24005	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.5	2.5	208	228	135	190
6	A H - 24017	2.8	2.8	2.8	2.5	2.8	2.7	2.8	2.8	2.8	223	185	141	183
7	H K H - 1194	2.8	2.5	2.7	2.0	2.2	2.1	2.3	2.2	2.2	213	208	156	192
8	H K H - 1220	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.3	213	218	150	193
9	H K H - 1400	2.5	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	215	215	146	192
10	H K H - 1401	2.3	2.7	2.5	2.0	2.7	2.3	2.7	2.7	2.7	205	195	146	182
11	H K H - 1403	2.2	2.7	2.4	2.0	2.7	2.3	2.5	2.5	2.7	193	188	146	175
CHECKS:														
12	BIO - 9681	1.8	2.2	2.0	2.0	2.2	2.1	2.0	2.0	2.2	250	215	151	205
13	SEEDTEC - 2324	1.7	2.5	2.1	1.5	2.3	1.9	2.3	2.3	2.3	208	188	139	178
14	PARBHAT	2.2	2.2	2.2	2.3	2.0	2.1	2.3	2.3	2.3	218	210	160	196
15	PRO - 311	2.0	2.2	2.1	2.0	2.3	2.2	2.5	2.5	2.3	193	205	140	179
MEAN LOCATION														
C.D. AT 5% =		0.6	0.4	0.5	0.3	0.6	0.4	0.4	0.4	0.4	13.6	22.7	19.9	18.7
C.V. % =		14.4	9.9	-	9.4	14.5	-	9.9	10.5	10.5	3.8	5.2	8.0	-
F (Prob)		.006	.003	-	.000	.121	-	.002	.013	.013	.000	.002	.005	-

TABLE NO. 55 (CONT.)

SI NO PEDIGREE	EAR HEIGHT (cm)				EAR NO. STAND AT HARVEST				OV'L MEAN	
	DELE	KARN	KANP	ZN 2 MEAN	DELH /PLANT	DELH	KARN	KANP		
1 J H - 10704	85	140	92	106	0.92	40	27	35	34	
2 A H - 23053	93	103	61	85	1.04	33	28	36	33	
3 A H - 23057	103	93	78	91	1.06	41	30	35	35	
4 A H - 23059	85	113	80	93	0.98	43	29	36	36	
5 A H - 24005	93	133	69	98	0.98	37	32	32	34	
6 A H - 24017	105	105	74	95	1.00	35	28	29	30	
7 H K H - 1194	100	118	83	100	0.97	40	35	32	36	
8 H K H - 1220	83	115	72	90	1.32	35	30	34	33	
9 H K H - 1400	83	115	66	88	0.96	39	26	35	33	
10 H K H - 1401	90	95	68	84	0.99	31	33	28	31	
11 H K H - 1403	88	95	67	83	1.00	38	25	29	31	
CHECKS:										
12 BIO - 9681	95	115	57	89	0.97	40	33	32	35	
13 SEEDTEC - 2324	98	90	72	87	1.15	34	30	32	32	
14 PARBHAT	105	115	72	97	0.96	34	29	33	32	
15 PRO - 311	85	108	79	91	0.99	39	31	35	35	
MEAN LOCATION										
C.D. AT 5%	9.2	19.4	16.3	15.0	-	10.4	2.8	3.9	-	
C.V. %	5.9	8.2	13.4	-	-	16.7	4.4	7.1	-	
F (Prob)	.000	.003	.020	-	-	.598	.000	.001	-	

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

TABLE NO. 56

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR IN ZONAL TRIAL No. TR202 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 2	
		DELH	R	LUDH	R	KARN	R	KANP	R	MEAN	R		
1	J H - 10705	6135	1	8620	1	7479	1	3788	8	6505	1		
2	A H - 23061	4269	9	5405	7	4292	10	3818	7	4446	9		
3	A H - 23069	4579	6	5459	6	5586	4	3519	11	4786	7		
4	A H - 24003	4033	10	4231	11	4008	12	3370	12	3911	12		
5	A H - 24018	3641	12	4503	10	4099	11	3956	2	4050	11		
6	A H - 24022	4292	8	5379	8	5371	6	3836	6	4719	8		
7	H K H - 1114	4951	4	6269	2	6697	2	3689	10	5402	2		
8	H K H - 1178	5632	2	4199	12	5684	3	3702	9	4804	6		
9	H K H - 1204	4803	5	6256	3	5136	7	3894	4	5022	3		
10	H K H - 1426	4363	7	5559	5	5421	5	3883	5	4807	5		
CHECKS:													
11	NAVJOT	3767	11	4657	9	4543	9	4339	1	4326	10		
12	K H - 510	5281	3	6035	4	4633	8	3954	3	4976	4		
	MEAN YIELD=	4646		5548		5246		3812		4813			
	MEAN STAND	36		26		31		33		31			
	C.D. AT 5% =	1241		1143		209		521		778			
	C.V. % =	15.82		14.35		1.81		8.09		-			
	F (Prob)	.105		.000		.000		.010		-			
	PLOT SIZE=	7.50		3.90		5.60		5.40		-			
AGRONOMY DATA:													
	SOWING DATE (2003)	8-07		15-07		5-07		24-07		-			
	HARVEST DATE (2003)	18-10		21-10		10-10		20-10		-			
	IRRIGATION NOS	-		3		4		-		-			
	FERTILIZER APPLIED	N 120		125		150		120		-			
		P 80		60		60		60		-			
		K 40		30		-		60		-			

TABLE NO. 56 (CONT.)

S1 No PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT					ZN 2 MEAN
	DELH	LUDH	KARN	KANP		
1 J H - 10705	62.86	85.11	64.62	-	-	50.37
2 A H - 23061	13.34	16.06	-	-	-	2.76
3 A H - 23069	21.57	17.24	22.96	-	-	10.62
4 A H - 24003	7.08	-	-	-	-	-
5 A H - 24018	-	-	-	-	-	-
6 A H - 24022	13.95	15.51	18.23	-	-	9.09
7 H K H - 1114	31.45	34.63	47.42	-	-	24.86
8 H K H - 1178	49.52	-	25.12	-	-	11.05
9 H K H - 1204	27.50	34.34	13.05	-	-	16.08
10 H K H - 1426	15.83	19.39	19.34	-	-	11.10
CHECKS:						
11 NAVJOT	-	-	-	-	-	-
12 K H - 510	40.20	29.60	1.99	-	-	15.01

S1 No PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KH - 510					ZN 2 MEAN
	DELH	LUDH	KARN	KANP		
1 J H - 10705	16.16	42.84	61.41	-	-	30.74
2 A H - 23061	-	-	-	-	-	-
3 A H - 23069	-	-	20.56	-	-	-
4 A H - 24003	-	-	-	-	-	-
5 A H - 24018	-	-	-	0.06	-	-
6 A H - 24022	-	-	15.92	-	-	-
7 H K H - 1114	-	3.89	44.54	-	-	8.56
8 H K H - 1178	6.65	-	22.67	-	-	-
9 H K H - 1204	-	3.66	10.84	-	-	0.93
10 H K H - 1426	-	-	17.01	-	-	-
CHECKS:						
11 NAVJOT	-	-	-	9.75	-	-
12 K H - 510	-	-	-	-	-	-

TABLE NO. 56 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN			SHED			DAYS TO 50% SILKING			DAYS TO 50% HUSK			DRY		
		DELH	LUOH	KARN	DELH	LUOH	KARN	DELH	LUOH	KARN	DELH	LUOH	KARN	DELH	LUOH	KARN
1	J H - 10705	50.0	49.5	50.5	50.0	50.5	52.0	51.7	81.3	86.5	83.9					
2	A H - 23061	46.7	49.0	49.5	48.4	51.0	52.0	51.3	79.5	85.5	82.5					
3	A H - 23069	45.7	48.0	48.0	47.2	49.0	50.5	49.5	78.5	82.5	80.5					
4	A H - 24003	47.7	49.5	51.5	49.6	50.5	53.5	51.1	79.8	87.5	83.6					
5	A H - 24018	46.7	50.0	47.5	48.1	51.0	49.5	50.5	79.3	85.5	82.4					
6	A H K H - 24022	48.0	50.0	49.5	49.2	51.0	52.0	51.5	79.5	86.0	82.8					
7	H K H - 1114	47.0	47.8	48.0	47.6	48.8	50.0	49.1	79.0	84.5	81.8					
8	H K H - 1178	46.7	47.8	47.5	47.3	49.0	49.5	49.1	78.8	83.0	80.9					
9	H K H - 1204	49.0	50.5	50.5	50.0	51.7	52.5	51.9	80.0	86.5	83.3					
10	H K H - 1426	47.7	48.3	49.0	48.3	49.3	51.5	50.0	79.3	83.0	81.1					
CHECKS:																
11	NAVJOT	45.3	46.8	47.5	46.5	49.0	49.5	48.8	79.0	82.5	80.8					
12	K H - 510	48.7	49.8	50.0	49.5	51.0	52.5	51.4	78.5	83.5	81.0					
MEAN LOCATION																
C.D. AT 5% =		2.5	48.9	49.1	48.5	50.3	50.0	50.5	79.4	84.7	82.0					
C.V. % =		3.1	1.5	1.2	1.6	2.1	1.0	1.5	1.0	1.0	1.0					
F (Prob)		.026	.000	.000	.000	.045	.000	.000	.000	.000	.000					

SI NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *			HUSK COV. * -RMITY*			
		LUOH	KARN	ZN 2 MEAN	DELH	KARN	ZN 2 MEAN	DELH	KARN	DELH	KARN	ZN 2 MEAN	DELH	KARN
1	J H - 10705	24.7	15.3	20.0	2.2	2.3	2.3	2.0	2.5	2.3	2.3	2.5	2.3	2.5
2	A H - 23061	23.2	15.3	19.3	2.3	2.5	2.4	2.0	2.7	2.3	2.3	2.5	2.3	2.5
3	A H - 23069	22.6	15.7	19.1	2.5	2.2	2.3	2.0	2.5	2.3	2.3	2.5	2.3	2.5
4	A H - 24003	23.5	16.0	19.4	2.5	2.3	2.5	2.3	2.3	2.3	2.4	2.2	2.3	2.5
5	A H - 24018	22.7	16.0	19.4	2.5	2.3	2.4	2.0	2.3	2.3	2.3	2.2	2.3	2.5
6	A H - 24022	22.3	15.7	19.0	2.3	2.5	2.4	2.0	2.5	2.3	2.3	2.3	2.3	2.5
7	H K H - 1114	23.3	15.7	19.5	2.0	2.7	2.3	2.0	2.3	2.3	2.0	2.3	2.3	2.5
8	H K H - 1178	22.6	15.7	19.1	2.0	2.5	2.2	1.8	2.3	2.3	2.3	2.3	2.3	2.5
9	H K H - 1204	23.5	15.3	19.4	2.3	2.5	2.4	2.0	2.3	2.3	2.2	2.2	2.3	2.5
10	H K H - 1426	22.3	15.7	19.0	2.2	2.7	2.4	2.0	2.5	2.3	2.3	2.2	2.3	2.7
CHECKS:														
11	NAVJOT	22.6	16.3	19.5	2.3	2.3	2.3	2.3	2.0	2.3	2.1	2.0	2.3	2.2
12	K H - 510	23.0	15.7	19.6	2.3	2.4	2.3	2.0	2.4	2.2	2.2	2.3	2.3	2.4
MEAN LOCATION														
C.D. AT 5% =		0.9	1.1	1.0	0.4	0.5	0.5	0.2	0.7	0.5	-	0.6	0.6	0.6
C.V. % =		2.6	4.0	-	10.8	12.6	-	6.0	17.3	-	-	16.4	15.4	15.4
F (Prob)		.000	.684	-	.099	.557	-	.002	.776	-	-	.702	.813	.813

TABLE NO. 56 (CONT.)

S1 NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 2 MEAN	KARN	KANP	ZN 2 MEAN
		DELH	LU DH	KARN	KANP	DELH	LU DH	KARN	KANP				
1	J H - 10705	235	199	195	161	197	108	100	100	64	93		
2	A H - 23061	195	178	188	139	172	73	98	98	55	75		
3	A H - 23069	198	165	188	127	169	85	105	105	50	78		
4	A H - 24003	208	178	200	144	182	83	118	118	59	85		
5	A H - 24018	238	173	173	145	182	123	86	85	61	89		
6	A H - 24022	230	180	213	148	194	103	138	138	62	99		
7	H K H - 1114	230	180	205	147	191	93	113	113	59	86		
8	H K H - 1178	190	151	170	130	160	75	68	95	52	72		
9	H K H - 1204	215	178	178	154	181	93	90	95	62	85		
10	H K H - 1426	188	163	160	141	163	75	73	85	62	74		
CHECKS:													
11	NAVJOT	233	179	205	148	191	95	86	105	66	88		
12	K H - 510	248	178	230	137	198	105	79	108	56	87		
MEAN LOCATION		218	175	191	143	182	92	82	104	59	84		
C.D. AT 5% =		19.9	14.3	18.3	18.8	17.8	17.0	13.3	14.3	14.9	14.9		
C.V. % =		5.4	5.7	4.4	7.7	-	10.9	11.3	6.3	14.9	-		
F (Prob)		.000	.000	.000	.055	-	.000	.000	.000	.522	-		

S1 NO	PEDIGREE	EAR NO. / PLANT DELH	STAND AT HARVEST				OV'L MEAN
			LU DH	DELH	LU DH	KARN	
1	J H - 10705	0.94	0.95	32	27	33	31
2	A H - 23061	1.06	0.98	31	25	31	30
3	A H - 23069	0.85	0.92	39	25	33	33
4	A H - 24003	0.96	0.87	44	28	24	33
5	A H - 24018	1.21	0.98	34	26	32	32
6	A H - 24022	1.02	0.95	38	25	33	32
7	H K H - 1114	1.02	0.93	34	30	37	33
8	H K H - 1178	0.90	1.01	29	20	23	26
9	H K H - 1204	1.08	0.98	34	25	33	31
10	H K H - 1426	1.08	0.96	35	24	28	29
CHECKS:							
11	NAVJOT	0.90	1.02	38	27	31	33
12	K H - 510	0.88	0.96	38	28	36	34
MEAN LOCATION		-	-	36	26	31	31
C.D. AT 5% =		-	-	9.7	4.1	4.9	-
C.V. % =		-	-	16.1	11.1	7.1	-
F (Prob)		-	-	.166	.003	.002	-

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

TABLE NO. 57

PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT DELHI, LUDHIANA, KARNAL IN ZONAL TRIAL No. TR203 DURING KHARIF (2003).

SL NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE X - 3342					
		DELH	R	LUDH	R	KARN	R	DELH	LUDH	KARN			
1	H K H - 1112	4008	4	3852	10	5750	6	4537	8	2.40	-	-	-
2	H K H - 1173	2634	16	2903	16	6821	2	4119	13	-	-	-	-
3	H K H - 1186	3360	10	3717	13	6351	4	4476	10	-	-	-	-
4	H K H - 1187	3318	11	3163	15	5564	11	4015	16	-	-	-	-
5	H K H - 1189	4403	1	4416	6	5703	9	4841	3	12.50	-	-	-
6	J C - 3263	3042	14	3922	9	5438	13	4134	12	-	-	-	-
7	J C - 3272	4080	3	3632	14	6689	3	4800	5	4.23	-	-	-
8	J C - 3284	3463	9	4059	7	6002	5	4508	9	-	-	-	-
9	A H - 23037	4277	2	4428	5	5718	7	4807	4	9.27	-	-	-
10	A H - 23043	2717	15	4053	8	5498	12	4089	14	-	-	-	-
11	A H - 23051	4002	5	5073	1	5713	8	4929	2	2.24	13.37	-	-
12	A H - 24004	3851	8	4659	2	5591	10	4700	6	-	4.11	-	-
13	A H - 24010	3134	13	3734	12	5227	16	4031	15	-	-	-	-
CHECKS:													
14	X - 3342	3914	7	4475	3	8941	1	5777	1	-	-	-	-
15	KIRAN	3293	12	3842	11	5394	14	4176	11	-	-	-	-
16	PEHM- 3	3990	6	4429	4	5251	15	4557	7	1.94	-	-	-
	MEAN YIELD=	3593		4022		5978		4531					
	MEAN STAND	32		34		33		33					
	C.D. AT 5%=	1228		1352		186		922					
	C.V. %	20.53		23.62		1.46		-					
	F (Prob)	.240		.113		.000		-					
	PLOT SIZE=	7.50		5.20		5.60		-					
AGRONOMY DATA:													
	SOWING DATE(2003)	8-07		14-07		5-07		-					
	HARVEST DATE(2003)	27-10		14-10		10-10		-					
	IRRIGATION NOS	-		-		3		-					
	FERTILIZER APPLIED N	120		80		150		-					
	P	80		40		60		-					
	K	40		-		-		-					

TABLE NO. 57 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN			GRAIN YIELD % SUPERIORITY OVER THE PEHM-3			GRAIN YIELD % SUPERIORITY OVER THE DELH			CHECKS:
		DELH	LU DH	KARN	DELH	LU DH	KARN	DELH	LU DH	KARN	
1	H 1112	21.71	0.26	6.60	8.63	0.45	9.50	-	-	-	-
2	K 1173	2.04	-	26.46	7.18	-	29.95	-	-	-	-
3	K 1186	0.78	-	17.17	-	-	20.97	-	-	-	-
4	K 1187	33.72	-	5.83	15.91	10.36	5.67	-	-	-	6.24
5	H 3263	-	14.93	0.02	-	-	3.39	-	-	-	5.35
6	K 3272	-	12.07	4.01	-	-	14.87	-	-	-	5.51
7	K 3284	-	5.63	11.01	14.94	2.25	27.31	-	-	-	8.17
8	C 3303	-	15.24	1.94	15.11	7.19	4.87	-	-	-	3.15
9	A 3304	-	5.49	1.91	-	-	18.02	-	-	-	-
10	A 3305	-	32.03	3.67	18.02	0.29	6.49	-	-	-	-
11	A 2400	21.52	21.25	-	12.55	-	-	14.53	-	-	-
12	A 2401	16.94	-	-	-	-	-	5.18	-	-	-
13	A 24010	-	-	-	-	-	-	-	-	-	-
14	X 3342	18.86	16.46	65.77	38.32	-	70.28	1.03	-	26.77	-
15	KIRAN - 3	21.17	15.27	-	9.11	-	2.72	-	-	-	-
16	PEHM - 3	-	-	-	-	-	-	-	-	-	-
DAYS TO 50% POLLEN SHED											
Sl NO	PEDIGREE	DAYS TO 50% POLLEN			DAYS TO 50% SILKING			DAYS TO 50% DRY			
		DELH	LU DH	KARN	DELH	LU DH	KARN	DELH	LU DH	KARN	
1	H 1112	47.0	48.0	47.5	50.7	51.0	49.5	76.0	77.5	79.0	77.5
2	K 1173	46.5	47.0	46.3	48.7	50.0	48.5	76.5	77.0	79.0	77.0
3	K 1186	46.7	47.5	47.6	47.7	51.8	50.5	77.3	78.0	80.5	78.0
4	K 1187	46.7	48.3	47.8	50.7	48.0	50.5	77.3	78.5	80.5	78.0
5	H 3263	45.0	46.3	45.1	48.7	48.8	49.0	76.5	78.0	80.5	78.0
6	K 3272	44.7	47.3	45.8	47.3	58.9	50.0	76.5	77.5	81.5	79.0
7	K 3284	44.7	47.5	46.0	47.3	49.0	50.5	77.5	78.5	81.5	80.0
8	C 3303	46.0	47.0	47.1	49.0	50.3	50.5	78.5	79.0	82.5	80.5
9	A 3304	45.0	48.3	47.9	48.0	50.8	50.5	78.5	79.5	82.5	80.5
10	A 2400	46.3	48.0	47.1	50.7	50.3	50.5	78.5	79.5	82.5	80.5
11	A 2401	46.3	48.0	47.1	50.7	50.3	50.5	78.5	79.5	82.5	80.5
12	A 24010	46.3	48.0	47.1	50.7	50.3	50.5	78.5	79.5	82.5	80.5
13	A 24010	46.3	48.0	47.1	50.7	50.3	50.5	78.5	79.5	82.5	80.5
14	X 3342	46.3	47.3	46.7	49.0	49.5	48.0	76.5	77.0	82.5	79.5
15	KIRAN - 3	45.0	48.0	46.5	48.3	50.3	50.5	77.0	78.0	80.5	78.0
16	PEHM - 3	46.7	47.6	47.1	49.0	50.3	50.5	77.0	78.0	80.5	78.0
C.V. AT 5% =											
F (Prob)											

TABLE NO. 57 (CONT.)

SI NO	PEDIGREE	MOISTURE % AT HARVEST		AT ZN MEAN		PLANT ASP DELH		EAR ASP DELH		PLANT HEIGHT (cm)		ZN 2 MEAN	
		DELH	LUHD	DELH	LUHD	DELH	LUHD	DELH	LUHD	DELH	LUHD	DELH	LUHD
1	H	21	7	22	5	2	0	2	0	15	10	1	19
2	H	19	4	22	3	2	0	3	0	14	9	1	18
3	H	22	3	22	3	3	0	3	0	14	8	1	17
4	H	22	3	22	3	3	0	3	0	14	8	1	17
5	H	16	3	22	2	3	0	3	0	15	9	1	19
6	H	22	3	22	2	3	0	3	0	14	8	1	17
7	H	22	3	22	2	3	0	3	0	14	8	1	17
8	H	22	3	22	2	3	0	3	0	14	8	1	17
9	H	22	3	22	2	3	0	3	0	14	8	1	17
10	H	22	3	22	2	3	0	3	0	14	8	1	17
11	H	22	3	22	2	3	0	3	0	14	8	1	17
12	H	22	3	22	2	3	0	3	0	14	8	1	17
13	H	22	3	22	2	3	0	3	0	14	8	1	17
14	H	22	3	22	2	3	0	3	0	14	8	1	17
15	H	22	3	22	2	3	0	3	0	14	8	1	17
16	H	22	3	22	2	3	0	3	0	14	8	1	17
	CHECKS:	20	4	22	4	3	3	3	3	15	20	2	20
	X KIRAN - 3	21	3	22	2	3	2	2	2	15	18	1	18
	MEAN	20	3	22	2	3	2	2	2	15	18	1	18
	C.D. AT 5%	5.4	0.4	1.7	0.4	0.8	0.6	0.7	0.7	1.5	0.4	0.1	1.6
	C.V. (Prob)	14.7	1.0	7.7	1.3	4.8	3.0	4.6	4.6	10.0	2.6	0.6	8.9
	E												
	LOCATION												

SI NO	PEDIGREE	EAR HEIGHT (cm)		AT ZN MEAN		EAR NO PLANT DELH		STAND AT HARVEST		OV'L MEAN	
		DELH	LUHD	DELH	LUHD	DELH	LUHD	DELH	LUHD	DELH	LUHD
1	H	75	63	11	3	8	4	3	9	3	4
2	H	60	56	11	3	0	0	3	6	3	6
3	H	70	60	11	3	1	0	3	3	3	3
4	H	70	67	11	3	1	0	3	3	3	3
5	H	90	76	11	3	2	0	3	2	3	3
6	H	85	70	11	3	3	0	3	2	3	3
7	H	85	70	11	3	3	0	3	2	3	3
8	H	75	68	11	3	1	0	3	3	3	3
9	H	90	84	11	3	2	0	3	3	3	3
10	H	90	85	11	3	4	0	3	3	3	3
11	H	90	85	11	3	5	0	3	3	3	3
12	H	90	85	11	3	5	0	3	3	3	3
13	H	90	85	11	3	5	0	3	3	3	3
14	H	85	73	11	3	9	0	3	3	3	3
15	H	65	58	11	3	6	0	3	3	3	3
16	H	78	70	11	3	6	0	3	3	3	3
	CHECKS:	12.8	13.5	11.6	11.6	11.4	11.4	11.4	11.4	11.4	11.4
	X KIRAN - 3	9.9	10.1	12.6	12.6	21.2	21.2	21.2	21.2	21.2	21.2
	MEAN	9.9	10.1	12.6	12.6	21.2	21.2	21.2	21.2	21.2	21.2
	C.D. AT 5%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	C.V. (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E										
	LOCATION										

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

TABLE NO. 58

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL IN ZONAL TRIAL NO. TR204 DURING KHARIF (2003).

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY			OVER ZN 2 MEAN		
		DELH	R	LUDH	R	KARN	R	DELH	LUDH	KARN			
1	A H - 23019	3799	8	3067	5	5102	5	3989	5	17.99	58.85	42.38	37.03
2	A H - 23045	4340	3	2883	7	4339	9	3854	8	34.78	49.33	21.08	32.38
3	A H - 23047	3727	9	2509	9	4272	11	3503	11	15.74	29.95	19.23	20.31
4	A H - 23055	3840	7	3279	4	4649	8	3923	7	19.27	69.83	29.74	34.74
5	A H - 23063	3497	12	2890	6	4758	7	3715	10	8.60	49.67	32.77	27.60
6	J H - 31041	4796	2	4362	1	5126	4	4761	1	48.95	125.94	43.04	63.55
7	J H - 31048	3843	6	3806	2	5701	1	4450	2	19.36	97.16	59.10	52.86
8	H K H - 1175	4256	5	2396	10	4832	6	3828	9	32.18	24.12	34.85	31.50
9	H K H - 1180	3704	10	2534	8	5552	3	3930	6	15.05	31.25	54.94	35.00
10	H K H - 1184	4328	4	3333	3	5586	2	4416	3	34.41	72.66	55.89	51.68
11	H K H - 1476	5766	1	2337	11	4323	10	4142	4	79.07	21.07	20.65	42.28
CHECKS:													
12	SURYA	3220	13	1931	12	3583	13	2911	13	-	-	-	-
13	HIM - 129	3547	11	1849	13	3762	12	3053	12	10.17	-	4.99	4.87
	MEAN YIELD=	4051		2860		4737		3883					
	MEAN STAND	28		33		29		30					
	C.D. AT 5% =	1101		823		171		698					
	C.V. % =	16.17		20.10		1.66		-					
	F (Prob)	.001		.000		.000		-					
	PLOT SIZE=	7.50		5.20		5.60		-					
AGRONOMY DATA:													
	SOWING DATE (2003)	8-07		14-07		5-07		-					
	HARVEST DATE (2003)	27-10		14-10		10-10		-					
	IRRIGATION NOS	-		-		4		-					
	FERTILIZER APPLIED	N 120		80		150		-					
		P 80		40		60		-					
		K 40		-		-		-					

TABLE NO. 58 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			EAR NO./ PLANT		STAND AT HARVEST				OV'L MEAN
	LU DH	KAR N	MEAN	LU DH	KAR N	MEAN	DELH	DELH	LU DH	DELH	LU DH	KAR N	
1 A H - 23019	130	195	163	56	113	84	1.08	0.92	24	36	31	30	
2 A H - 23045	140	180	160	55	105	80	0.90	0.89	32	33	34	33	
3 A H - 23047	123	188	155	61	98	79	0.95	0.92	24	30	29	28	
4 A H - 23055	140	205	173	68	118	93	0.98	0.96	30	38	25	31	
5 A H - 23063	126	205	166	51	98	74	0.99	0.93	29	37	35	33	
6 J H - 31041	136	210	173	69	108	88	1.00	0.95	28	36	30	31	
7 J H - 31048	156	215	186	76	125	101	0.98	0.92	23	35	34	30	
8 H K H - 1175	118	170	144	45	88	66	0.90	0.88	32	31	28	30	
9 H K H - 1180	133	190	161	60	98	79	1.08	0.87	24	30	34	29	
10 H K H - 1184	129	195	162	50	85	68	0.88	0.86	21	31	25	25	
11 H K H - 1476	114	158	136	53	78	65	0.97	1.02	35	26	23	28	
CHECKS:													
12 SURYA	131	155	143	63	60	61	0.95	0.95	26	34	26	29	
13 HIM - 129	118	175	146	48	85	66	0.92	0.85	30	29	27	29	
MEAN LOCATION	130	188	159	58	97	77	-	-	28	33	29	30	
C.D. AT 5%	15.1	14.9	15.0	10.8	10.2	10.5	-	-	7.5	4.6	4.1	-	
C.V. %	8.1	3.6	-	13.0	4.9	-	-	-	16.2	9.8	6.6	-	
F (Prob)	.000	.000	-	.000	.000	-	-	-	.015	.000	.000	-	

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

TABLE NO. 59

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, DHOLI, JASHIPUR IN TRIAL No. TR301 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		GORA		BELI		VARA		DHOL		JASH		R		MEAN	R
1	M H 03-1	5435	12	4960	3	2788	15	3498	5	4170	8				
2	M H 03-2	5990	6	3885	13	2853	14	3480	7	4052	10				
3	M H 03-3	5909	8	4331	6	3794	5	3485	6	4380	4				
4	M H 03-5	6575	4	4125	7	3871	3	3828	3	4600	2				
5	CD II 162 X 135	5300	14	4537	5	3561	6	3043	9	4110	9				
6	CD I 73 X 137	5830	10	4618	4	3176	9	2104	17	3932	12				
7	IS - 16 X 137	4469	16	4110	8	3337	8	2788	13	3676	14				
8	C S - 47 X 137	5953	7	4016	10	3038	12	2144	16	3788	13				
9	C S - 40 X 137	6513	5	3674	16	3843	4	3288	8	4330	6				
10	CD II 89 X 135	7071	1	3945	12	4018	2	3040	10	4519	3				
11	B V M - 4	5487	11	3865	14	3068	11	2217	15	3660	15				
12	C - 1415	5340	13	3991	11	2940	13	3858	2	4032	11				
13	N M H - 1047	4855	15	3845	15	3100	10	2674	14	3618	17				
14	X - 102	6878	2	4025	9	3441	7	2977	11	4330	5				
15	X - 103	6813	3	5905	1	2748	16	4483	1	4987	1				
CHECKS:															
16	KIRAN	4167	17	3370	17	4094	1	2874	12	3626	16				
17	X - 3342	5898	9	5236	2	2483	17	3639	4	4314	7				
	MEAN YIELD=	5793		4261		3303		3143		4125					
	MEAN STAND	36		37		-		28		34					
	C.D. AT 5% =	653		400		1310		273		659					
	C.V. % =	6.78		5.65		23.84		5.22		-					
	F (Prob)	.000		.000		.347		.000		-					
	PLOT SIZE=	6.00		7.50		7.50		6.00		-					
AGRONOMY DATA:															
	SOWING DATE (2003)	2-07		25-06		6-07		10-07		-					
	HARVEST DATE (2003)	12-10		19-09		23-10		-		-					
	IRRIGATION Nos	-		-		-		-		-					
	FERTILIZER APPLIED	N 120		100		100		311		-					
		P 60		60		60		-		-					
		K 60		40		40		120		-					

TABLE NO. 59 (CONT.)

SI	NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER										ZN 3
		THE KIRAN					THE X - 3342					
		BELI	VARA	DHOL	JASH	ZN 3	MEAN	BELI	VARA	DHOL	JASH	ZN 3
1	M H 03-1	30.45	47.20	-	21.71	15.01	-	-	-	12.25	-	-
2	M H 03-2	43.75	15.29	-	21.09	11.74	1.55	-	-	14.88	-	-
3	M H 03-3	41.82	28.54	-	21.26	20.79	0.19	-	-	52.80	-	1.53
4	M H 03-5	57.81	22.42	-	33.20	26.86	11.48	-	-	55.89	5.21	6.63
5	CD II 162 X 135	27.21	34.64	-	5.87	13.35	-	-	-	43.39	-	-
6	CD I 73 X 137	39.92	37.04	-	-	8.44	-	-	-	27.91	-	-
7	IS - 16 X 137	7.25	21.99	-	-	1.37	-	-	-	34.36	-	-
8	C S - 47 X 137	42.88	19.18	-	-	4.46	0.93	-	-	22.35	-	-
9	C S - 40 X 137	56.30	9.05	-	14.40	19.40	10.41	-	-	54.75	-	0.36
10	CD II 89 X 135	69.71	17.08	-	5.78	24.61	19.89	-	-	61.81	-	4.74
11	B V M - 4	31.70	14.72	-	-	0.92	-	-	-	23.54	-	-
12	C - 1415	28.16	18.45	-	34.23	11.20	-	-	-	18.40	6.02	-
13	N M H - 1047	16.51	14.12	-	-	-	-	-	-	24.84	-	-
14	X - 102	65.07	19.45	-	3.57	19.42	16.61	-	-	38.57	-	0.37
15	X - 103	63.51	75.25	-	55.98	37.54	15.51	12.78	10.65	23.20	15.60	-
CHECKS:												
16	KIRAN	-	-	-	-	-	-	-	-	64.86	-	-
17	X - 3342	41.56	55.39	-	26.61	18.97	-	-	-	-	-	-

TABLE NO. 59 (CONT.)

SI NO PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING					
	GORA BELI	VARA	DHOL	JASH	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH	ZN 3 MEAN
1 M H 03-1	50.7	45.0	51.3	51.3	49.6	52.7	49.3	54.0	55.3	52.8
2 M H 03-2	49.0	44.0	50.7	49.0	48.2	51.3	48.7	53.0	51.7	51.2
3 M H 03-3	51.0	46.0	50.3	48.7	49.0	53.0	49.7	53.3	51.7	51.9
4 M H 03-5	52.3	47.0	52.7	51.0	50.8	54.7	52.3	55.7	54.7	54.3
5 CD II 162 X 135	47.0	43.7	49.7	45.7	46.5	49.7	47.7	52.0	49.3	49.7
6 CD I 73 X 137	45.3	40.7	48.7	43.7	44.6	47.3	45.0	50.7	47.7	47.7
7 IS - 16 X 137	46.0	42.0	48.7	44.3	45.3	47.7	46.7	50.0	48.0	48.1
8 C S - 47 X 137	47.0	42.3	48.3	45.7	45.8	49.0	46.3	50.7	49.0	48.8
9 C S - 40 X 137	46.3	43.3	47.3	44.0	45.3	48.0	47.0	50.0	47.3	48.1
10 CD II 89 X 135	47.3	41.7	47.7	44.3	45.3	49.3	46.7	50.7	48.3	48.8
11 B V M - 4	46.0	42.3	46.7	44.0	44.8	47.7	47.0	49.0	48.7	48.1
12 C - 1415	48.3	46.0	50.7	48.3	48.3	51.0	50.7	53.7	50.3	51.4
13 N M H - 1047	52.3	48.0	51.3	50.7	50.6	54.0	51.3	53.3	54.0	53.2
14 X - 102	50.7	46.0	50.0	48.3	48.8	52.0	49.3	53.0	52.0	51.6
15 X - 103	50.7	44.0	50.3	46.3	47.8	52.7	48.7	53.0	50.0	51.1
CHECKS:										
16 KIRAN	46.7	43.3	48.3	50.3	47.2	48.7	47.3	50.7	52.3	49.8
17 X - 3342	47.3	44.0	47.3	48.7	46.8	51.0	47.7	50.3	52.0	50.3
MEAN LOCATION										
C.D. AT 5% =	1.9	2.2	2.1	1.7	2.0	1.8	2.1	2.2	1.9	2.0
C.V. % =	2.3	3.0	2.5	2.2	-	2.1	2.6	2.5	2.3	-
F (Prob)	.000	.000	.000	.000	-	.000	.000	.000	.000	-

TABLE NO. 59 (CONT.)

S1	NO PEDIGREE	DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST			PLANT ASPECT *															
		GORA	VARA	DHOL JASH	ZN 3 MEAN	BELI	VARA	ZN 3 MEAN	BELI	VARA	DHOL JASH	ZN 3 MEAN											
1	M H 03-1	83.0	76.3	75.7	92.3	81.8	22.2	30.1	26.1	2.8	2.5	3.0	2.0	2.6									
2	M H 03-2	84.3	77.7	78.3	91.0	82.8	22.4	33.0	27.7	2.5	2.5	2.3	2.0	2.3									
3	M H 03-3	85.3	77.3	77.0	92.3	83.0	23.7	32.2	27.9	2.8	2.0	2.5	2.0	2.3									
4	M H 03-5	87.0	77.7	76.7	93.7	83.7	23.2	35.0	29.1	2.7	2.0	2.8	1.0	2.1									
5	CD II 162 X 135	84.0	75.7	78.3	87.0	81.3	22.3	32.3	27.3	2.7	2.0	2.8	2.0	2.4									
6	CD I 73 X 137	83.3	73.3	75.7	80.3	78.2	19.9	29.5	24.7	2.5	2.5	3.0	3.7	2.9									
7	IS - 16 X 137	80.7	74.3	74.3	82.3	77.9	19.6	30.4	25.0	3.0	2.0	2.8	3.0	2.7									
8	C S - 47 X 137	82.7	74.7	75.7	81.0	78.5	20.4	29.4	24.9	2.7	2.3	3.7	3.7	3.1									
9	C S - 40 X 137	84.0	74.7	73.3	82.3	78.6	22.3	29.5	25.9	2.5	2.0	3.8	2.0	2.6									
10	CD II 89 X 135	80.7	75.7	72.7	81.0	77.5	21.7	29.8	25.7	2.5	2.0	3.0	2.0	2.4									
11	B V M - 4	82.0	73.0	73.7	82.0	77.7	21.8	32.5	27.1	2.8	2.0	3.5	3.7	3.0									
12	C - 1415	85.0	77.7	74.7	90.7	82.0	23.2	32.3	27.8	2.8	2.3	3.7	2.0	2.7									
13	N M H - 1047	85.3	78.7	74.7	93.0	82.9	24.5	40.1	32.3	2.2	1.5	3.2	2.3	2.3									
14	X - 102	86.3	76.7	75.0	93.7	82.9	26.1	36.8	31.4	2.3	1.8	2.8	2.3	2.3									
15	X - 103	85.3	76.3	76.7	90.0	82.1	25.9	34.1	30.0	2.3	1.5	2.5	1.0	1.8									
CHECKS:																							
16	KIRAN	83.3	74.0	76.3	90.3	81.0	21.5	31.6	26.5	2.5	2.5	3.0	2.0	2.5									
17	X - 3342	82.3	71.7	73.7	91.3	79.8	22.5	29.2	25.9	2.3	2.0	2.5	2.0	2.2									
MEAN LOCATION																							
C.D. AT 5% =											2.9	2.3	4.3	1.9	2.8	2.6	1.0	1.8	0.7	0.2	1.3	0.5	0.7
C.V. % =											2.1	1.8	3.4	1.3	-	7.1	1.9	-	15.6	4.7	25.5	14.1	-
F (Prob)											.002	.000	.293	.000	-	.001	.000	-	.512	.000	.467	.000	-

TABLE NO. 59 (CONT.)

SL	NO PEDIGREE	EAR ASPECT *			HUSK COVER *			UNIFORMITY *						
		GORA	BELI VARA DHOL JASH MEAN	ZN 3	GORA	BELI VARA JASH MEAN	ZN 3	GORA	BELI VARA DHOL JASH MEAN	ZN 3				
1	M H 03-1	2.5	2.5	2.8	2.0	2.0	1.7	1.9	2.5	2.8	3.2	2.3	2.7	
2	M H 03-2	2.5	2.5	3.2	2.0	2.5	1.3	1.8	2.2	2.8	2.5	2.3	2.4	
3	M H 03-3	2.2	2.5	2.5	2.0	2.3	1.7	2.1	2.3	2.5	3.0	2.3	2.5	
4	M H 03-5	2.3	2.5	2.7	1.0	2.1	2.0	1.9	2.5	2.8	2.7	2.0	2.5	
5	CD II 162 X 135	2.7	2.5	3.0	3.0	2.8	1.8	2.0	2.5	2.0	3.3	2.3	2.5	
6	CD I 73 X 137	2.3	2.5	2.8	4.0	2.9	2.0	2.3	2.5	2.7	2.0	3.2	4.0	
7	IS - 16 X 137	2.3	2.3	2.5	3.3	2.6	1.8	2.5	2.2	2.8	2.0	3.3	2.9	
8	C S - 47 X 137	2.8	2.3	3.2	3.7	3.0	2.3	2.7	2.4	2.8	2.5	3.8	3.2	
9	C S - 40 X 137	2.3	2.5	3.2	2.7	2.7	1.7	2.0	2.1	2.2	1.5	3.8	2.5	
10	CD II 89 X 135	2.3	2.0	2.8	3.0	2.5	2.7	2.3	2.2	2.2	1.5	3.2	2.3	
11	B V M - 4	2.7	2.3	3.3	3.3	2.9	1.8	2.0	2.2	2.5	1.5	3.7	2.8	
12	C - 1415	2.5	2.5	3.0	2.0	2.5	2.7	2.5	2.5	2.2	2.3	3.5	2.6	
13	N M H - 1047	2.3	2.0	3.3	3.0	2.7	1.7	2.0	1.9	2.3	1.5	3.5	2.6	
14	X - 102	2.3	1.5	3.7	3.0	2.6	2.3	2.0	2.2	1.8	1.5	3.2	2.4	
15	X - 103	2.3	1.5	4.2	1.0	2.3	1.7	1.5	1.4	1.8	1.8	2.7	2.0	
CHECKS:														
16	KIRAN	2.8	2.5	3.3	3.0	2.9	2.2	2.5	2.3	2.3	2.0	3.0	3.0	2.7
17	X - 3342	2.2	2.0	2.8	2.0	2.3	1.8	2.0	2.0	1.9	1.8	2.0	2.7	2.3
MEAN LOCATION														
C.D. AT 5% =		0.6	0.2	1.2	0.5	0.6	0.6	0.2	0.7	0.5	0.8	0.2	0.8	0.6
C.V. % =		15.7	6.5	23.7	10.9	-	17.6	5.4	21.8	-	20.7	6.5	15.1	16.3
F (Prob)		.632	.000	.481	.000	-	.012	.000	.000	-	.230	.000	.031	.000

TABLE NO. 59 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			ZN 3			
	GORA BELI	VARA	DHOL	JASH	GORA BELI	VARA	DHOL	JASH	MEAN	MEAN
1 M H 03-1	203	252	155	146	109	125	80	61	94	94
2 M H 03-2	202	252	148	147	110	120	74	72	94	94
3 M H 03-3	204	232	152	150	104	103	87	62	89	89
4 M H 03-5	202	247	153	158	112	122	90	65	97	97
5 CD II 162 X 135	202	248	165	152	105	90	85	56	84	84
6 CD I 73 X 137	201	253	163	146	95	107	85	58	86	86
7 IS - 16 X 137	183	238	143	144	80	93	73	58	76	76
8 C S - 47 X 137	179	222	136	153	94	97	67	57	78	78
9 C S - 40 X 137	201	255	145	156	92	107	72	57	82	82
10 CD II 89 X 135	184	215	142	139	79	82	66	60	71	71
11 B V M - 4	216	255	153	145	107	100	83	59	87	87
12 C - 1415	186	230	143	149	76	88	73	51	72	72
13 N M H - 1047	188	223	144	122	88	97	67	51	76	76
14 X - 102	202	247	154	143	99	95	85	58	84	84
15 X - 103	189	255	146	151	99	95	72	65	83	83
CHECKS:										
16 KIRAN	200	237	149	133	107	95	82	55	85	85
17 X - 3342	193	247	142	145	89	92	73	62	79	79
MEAN LOCATION										
C.D. AT 5%	19.7	21.8	17.8	7.0	16.6	18.4	16.9	7.9	15.1	15.1
C.V. %	6.0	5.4	7.2	2.9	10.7	11.0	13.2	8.0	-	-
F (Prob)	.039	.005	.139	.000	.001	.001	.087	.001	-	-

TABLE NO. 59 (CONT.)

Sl NO	PEDIGREE	EAR No. /PLANT		H. may. *		STAND GORA		AT HARVEST		ZN 3 MEAN
		BELI	VARA	BELI	VARA	BELI	VARA	JASH	JASH	
1	M H 03-1	0.99	0.99	1.8		34	37	29	29	33
2	M H 03-2	1.00	0.95	1.2		37	37	29	29	34
3	M H 03-3	0.99	0.90	1.0		36	37	30	30	34
4	M H 03-5	1.00	0.93	1.3		36	39	26	26	33
5	CD II 162 X 135	0.97	0.99	1.5		37	38	30	30	35
6	CD I 73 X 137	0.97	0.83	1.7		35	39	26	26	33
7	IS - 16 X 137	0.97	0.87	2.2		36	37	26	26	33
8	C S - 47 X 137	1.00	0.93	1.7		33	39	26	26	33
9	C S - 40 X 137	0.98	0.93	1.2		38	34	29	29	34
10	CD II 89 X 135	0.96	0.91	1.7		37	35	25	25	32
11	B V M - 4	0.96	1.05	2.0		35	39	29	29	35
12	C - 1415	0.98	0.96	1.3		34	36	29	29	33
13	N M H - 1047	0.95	0.89	1.3		34	34	27	27	32
14	X - 102	0.98	0.89	1.0		37	36	31	31	35
15	X - 103	0.97	0.95	1.3		36	37	30	30	34
CHECKS:										
16	KIRAN	0.97	0.91	1.8		34	38	25	25	32
17	X - 3342	0.96	0.97	1.3		34	38	32	32	35
MEAN LOCATION										
C.D. AT 5% =		-	-	0.6		3.6	4.1	6.2	6.2	4.6
C.V. % =		-	-	22.5		6.1	6.7	13.2	13.2	-
F (Prob)		-	-	.003		.219	.198	.427	.427	-

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

TABLE NO. 60

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BELIPAR GORAKHPUR, VARANASI, JASHIPUR IN ZONAL TRIAL NO. TR302 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER						
		GORA		VARA		JASH		THE NAVJOT		ZN 3	MEAN			
		BELI	R	VARA	R	JASH	R	MEAN	R	BELI	VARA	JASH	ZN 3	MEAN
1	M H 03-4	3979	5	1578	5	2866	7	2808	7	5.03	-	8.84	2.38	
2	M H 03-6	4101	3	1490	6	3209	5	2933	4	8.25	-	21.88	6.96	
3	C - 1406	4528	1	1446	7	3962	2	3312	1	19.51	-	50.46	20.75	
4	N M H - 1049	4241	2	1242	8	3056	6	2847	6	11.95	-	16.08	3.79	
5	K H - 2002	3248	8	1923	1	3577	4	2916	5	-	6.48	35.86	6.32	
6	K H - 2005	3803	6	1703	3	4286	1	3264	2	0.39	-	62.77	19.01	
CHECKS:														
7	NAVJOT	3789	7	1806	2	2633	8	2743	8	-	-	-	-	-
8	K H - 510	4079	4	1607	4	3937	3	3208	3	7.66	-	49.53	16.96	
	MEAN YIELD=	3971		1599		3441		3004						
	MEAN STAND	35		32		29		32						
	C.D. AT 5%	409		302		446		386						
	C.V. %	5.92		10.85		7.44		-						
	F (Prob)	.000		.007		.000		-						
	PLOT SIZE=	6.00		7.50		6.00		-						
AGRONOMY DATA:														
	SOWING DATE(2003)	2-07		27-06		10-07		-						
	HARVEST DATE(2003)	13-10		24-09		3-11		-						
	IRRIGATION NOS	-		-		-		-						
	FERTILIZER APPLIED N	120		80		120		-						
	P	60		40		60		-						
	K	60		40		60		-						

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DHOL 21.8%

TABLE NO. 60 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE K H - 510			DAYS TO 50% POLLEN SHED			
		BELI	VARA	JASH	GORA BELI	VARA	JASH	ZN 3 MEAN
1	M H 03-4	-	-	-	49.3	45.0	44.0	46.1
2	M H 03-6	0.55	-	-	52.3	51.7	47.0	50.3
3	C -1406	11.01	-	0.62	51.3	51.7	45.3	49.4
4	N M H - 1049	3.99	-	-	51.7	53.0	43.0	49.2
5	K H - 2002	-	19.66	-	52.7	51.0	44.3	49.3
6	K H - 2005	-	5.95	8.85	51.3	51.0	44.3	48.9
CHECKS:								
7	NAVJOT	-	12.38	-	51.3	48.7	44.0	48.0
8	K H - 510	-	-	-	52.7	51.0	44.3	49.3
MEAN LOCATION								
C.D. AT 5% =								
C.V. % =								
F (Prob) =								

SI NO	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST			
		GORA BELI	VARA	JASH	ZN 3 MEAN	BELI	JASH	ZN 3 MEAN	BELI	VARA	ZN 3 MEAN
1	M H 03-4	52.3	49.0	47.0	49.4	85.0	81.7	83.3	21.4	31.1	26.3
2	M H 03-6	54.3	56.3	51.0	53.9	85.0	81.0	83.0	23.0	31.1	27.1
3	C -1406	54.3	56.7	48.7	53.2	85.0	80.3	82.7	24.1	31.9	28.0
4	N M H - 1049	53.3	60.3	46.3	53.3	84.0	80.7	82.3	23.4	32.8	28.1
5	K H - 2002	54.7	57.0	47.0	52.9	86.0	81.0	83.5	24.2	31.8	28.0
6	K H - 2005	53.3	57.7	47.0	52.7	84.0	81.7	82.8	24.2	31.6	27.9
CHECKS:											
7	NAVJOT	53.3	54.3	47.0	51.6	85.0	81.0	83.0	22.8	31.0	26.9
8	K H - 510	54.3	56.3	47.0	52.6	83.0	79.0	81.0	23.9	30.4	27.1
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											

TABLE NO. 60 (CONT.)

SI NO	PEDIGREE	PLANT ASP. * BELI		EAR ASP. * BELI		HUSK COVER * GORA BELI		UNIFORMITY * GORA BELI		ZN 3 MEAN		PLANT HEIGHT (cm) GORA BELI VARA JASH			ZN 3 MEAN	
		BELI	ASP. *	BELI	ASP. *	BELI	GORA	BELI	GORA	BELI	JASH	ZN 3 MEAN	BELI	VARA	JASH	ZN 3 MEAN
1	M H 03-4	2.7	2.7	2.3	2.3	2.3	2.3	2.3	3.0	2.7	2.7	191	238	152	193	
2	M H 03-6	2.2	2.8	2.2	2.3	2.2	2.3	2.2	2.7	2.4	2.4	177	230	147	185	
3	C - 1406	2.7	2.5	2.5	2.1	2.5	2.1	2.5	2.0	2.3	2.3	195	260	143	199	
4	N M H - 1049	3.0	2.7	2.3	2.2	2.8	2.2	2.3	2.3	2.6	2.6	181	243	135	186	
5	K H - 2002	2.5	2.2	2.2	2.1	2.2	2.1	2.3	2.0	2.2	2.2	193	248	159	200	
6	K H - 2005	2.7	2.5	1.7	1.7	1.7	1.7	2.0	2.3	2.2	2.2	178	247	142	189	
CHECKS:																
7	NAVJOT	3.0	2.8	2.7	2.0	2.7	2.0	2.3	3.0	2.7	2.7	196	245	138	193	
8	K H - 510	2.7	2.7	1.7	2.0	1.7	2.0	2.7	2.7	2.7	2.7	181	215	145	180	
MEAN LOCATION																
C.D. AT 5% =																
C.V. % =																
F (Prob) =																

SI NO	PEDIGREE	EAR HEIGHT (cm) GORA BELI		VARA		JASH		ZN 3 MEAN		EAR NO. / PLANT BELI		H. may. * BELI		STAND AT HARVEST GORA BELI VARA JASH			ZN 3 MEAN	
		BELI	VARA	BELI	VARA	BELI	JASH	BELI	ZN 3 MEAN	BELI	VARA	BELI	VARA	BELI	VARA	JASH	ZN 3 MEAN	ZN 3 MEAN
1	M H 03-4	100	113	56	90	0.97	0.75	2.2	2.2	35	33	29	33	31	33			
2	M H 03-6	78	88	56	74	0.99	0.79	2.0	2.0	32	32	30	31	31	31			
3	C - 1406	96	95	54	82	0.97	0.70	1.7	1.7	39	33	33	35	35	30			
4	N M H - 1049	90	108	44	81	0.97	0.78	2.0	2.0	35	30	26	30	26	31			
5	K H - 2002	94	120	69	94	0.96	0.79	2.0	2.0	32	34	26	31	26	31			
6	K H - 2005	82	105	55	81	0.97	0.79	1.3	1.3	35	30	29	31	29	31			
CHECKS:																		
7	NAVJOT	89	105	66	87	1.02	0.70	2.2	2.2	35	33	28	32	28	32			
8	K H - 510	79	103	62	81	0.97	0.79	1.3	1.3	34	33	28	32	28	32			
MEAN LOCATION																		
C.D. AT 5% =																		
C.V. % =																		
F (Prob) =																		

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

TABLE NO. 61
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT JALNA MAHYCO, MAHABEEK AT AKOLA IN TRIAL NO. TR402B DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha)		DAYS TO 50% POLLEN SHED		DAYS TO 50% SILKING		Zn 4 MEAN	Zn 4 MEAN
		MAHY JALN	AKOL MAHA	MAHY JALN	AKOL MAHA	MAHY JALN	AKOL MAHA		
1	B H - 2003336	7082	3715	7	8	51	49	54	7
2	B H - 2003337	5290	3865	25	23	52	52	55	7
3	B H - 2003338	7047	3945	1	3	56	57	57	3
4	B H - 2003339	7224	3920	2	4	59	59	55	0
5	MAHABEEK-1101	5224	3914	2	3	48	48	55	3
6	K X - 2185	7368	4173	3	5	55	55	55	3
7	X N - 122	6545	3454	2	3	49	49	55	8
8	N N - 1037	6420	3459	1	1	49	49	55	2
9	N N - 1038	4990	3052	7	8	53	53	55	5
10	C C - 1821	6071	3204	3	3	54	54	55	5
11	C C - 132	5715	3337	2	1	55	55	55	3
12	C C - 204	1936	3397	5	9	54	54	55	5
13	M H - 2201	7606	3397	2	2	54	54	55	5
14	M H - 2202	6100	3377	1	1	54	54	55	5
15	M H - 2203	6428	3377	2	4	54	54	55	5
16	M H - 2178	6598	3377	2	4	54	54	55	5
17	M H - 113	5922	3377	1	1	54	54	55	5
18	M H - 102	5922	3377	1	1	54	54	55	5
19	M H - 1041	5922	3377	1	1	54	54	55	5
20	M H - 1042	5922	3377	1	1	54	54	55	5
21	M H - 1415	5922	3377	1	1	54	54	55	5
22	M H - 1405	5922	3377	1	1	54	54	55	5
23	M H - 1401	5922	3377	1	1	54	54	55	5
24	M H - 1401	5922	3377	1	1	54	54	55	5
25	M H - 1401	5922	3377	1	1	54	54	55	5
26	M H - 1401	5922	3377	1	1	54	54	55	5
27	M H - 1401	5922	3377	1	1	54	54	55	5
28	M H - 1401	5922	3377	1	1	54	54	55	5

MEAN YIELD=
 MEAN STAND
 C.D. AT 5% =
 C.V. (%) =
 PLOT SIZE=
 AGRONOMY DATA: (2003)
 SOWING DATE: (2003)
 HARVEST DATE: (2003)
 IRRIGATION NOS
 FERTILIZER APPLIED N P K

TABLE NO. 61 (CONT.)

SL NO	PEDIGREE	DRY HUSK 50%		MOIS TURE %		PLANT ASP. *		EAR ASP. *		HUSK COV. *		UNIFO -RMITY *		PLANT HEIGHT (cm)		EAR HEIGHT (cm)		STAND AT HARVEST	
		AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA	AKOL MAHA
1	B H - 200336	88.7	24.4	2.0	1.7	2.3	1.7	178	196	98	93	96	38	38					
2	B H - 200337	90.0	23.7	1.3	1.7	2.7	1.3	177	193	72	87	79	40	31					
3	B H - 200338	95.7	25.4	2.0	2.7	2.0	1.7	202	194	103	99	101	38	34					
4	B H - 200339	98.3	24.2	1.7	2.3	1.7	1.0	222	204	127	103	115	40	30					
5	MAHABEEJ-1101	91.7	21.9	2.0	1.7	1.7	1.0	195	191	82	98	90	37	35					
6	K H - 2005	91.7	21.1	1.7	2.0	2.0	1.7	195	192	92	98	95	38	33					
7	X - 2185	93.3	25.1	2.0	2.3	1.7	2.7	208	203	95	96	95	39	40					
8	X - 122	91.7	21.7	1.7	1.7	1.7	1.3	187	200	73	89	81	38	34					
9	N M H - 1037	92.3	23.6	1.7	2.0	1.7	2.0	195	187	97	106	101	28	38					
10	N M H - 1038	95.0	22.0	1.3	2.3	2.3	1.7	202	196	105	89	97	26	34					
11	C - 111	89.3	23.4	1.7	1.3	1.3	1.3	207	199	98	99	99	35	40					
12	C - 1821	91.0	24.7	1.7	1.7	1.3	1.7	208	214	93	95	94	35	36					
13	C - 32	89.3	24.3	2.0	2.0	1.3	1.3	207	212	88	100	94	34	33					
14	J K M H - 204	87.7	25.3	1.3	2.0	2.0	2.0	207	209	98	98	98	39	39					
15	K M H - 2201	92.0	23.3	2.0	1.7	2.0	1.3	207	204	93	97	95	37	40					
16	K M H - 2202	90.0	23.4	1.0	1.7	2.3	2.3	218	213	110	94	102	39	36					
17	K M H - 2203	93.0	24.1	2.3	2.3	1.3	2.0	215	202	102	95	98	39	33					
18	K M H - 2068	94.3	20.1	2.0	2.3	2.3	1.7	212	208	108	115	112	40	29					
19	K M H - 2178	92.0	21.0	2.0	2.0	2.7	2.0	222	209	105	104	105	40	37					
20	M P Q - 13	91.7	20.7	1.7	1.7	1.7	1.7	223	214	98	110	104	39	37					
21	K H - 101	90.0	24.0	1.3	2.0	1.7	2.7	198	204	93	102	98	39	38					
22	K H - 102	95.0	23.3	1.7	2.7	1.0	1.3	200	188	95	93	94	40	32					
23	N M H - 1041	90.0	20.9	1.7	2.0	1.7	2.0	210	201	100	101	101	28	31					
24	N M H - 1042	94.7	24.2	1.3	3.3	1.3	1.7	217	208	100	95	98	29	32					
25	C - 1415	88.7	24.4	2.0	1.7	2.3	1.7	200	189	97	93	95	40	38					
26	C - 1405	90.0	23.7	1.3	1.7	2.7	1.3	188	199	90	87	88	39	31					
27	J K M H - 1401	95.7	25.4	2.0	2.7	2.0	1.7	203	195	90	99	94	40	34					
28	900 M	-	-	-	-	-	-	202	202	100	-	100	40	-					
	MEAN LOCATION	92.0	23.3	1.7	2.0	1.9	1.7	205	201	97	98	97	37	35					
	C.D. AT 5%	2.7	2.2	0.7	0.9	1.1	1.0	26.5	12.6	26.6	7.0	16.8	3.7	6.9					
	C.V. %	1.8	5.7	24.9	27.5	34.5	37.2	7.9	3.9	16.8	4.4	-	6.1	12.0					
	F (Prob)	.000	.000	.062	.025	.092	.173	.139	.000	.206	.000	-	.000	.038					

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

TABLE NO. 62
PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, CHHINDIWARA IN ZONAL TRIAL NO. TR502 DURING KHARIF (2003).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN			ZN 5 MEAN		
		UDAI	R	BANS	R	CHHI	R	UDAI	BANS	CHHI			
1	C - 111	6620	2	4483	6	7922	3	6342	2	132.99	23.62	47.73	60.82
2	C - 1821	4413	10	3728	11	9117	1	5753	6	55.31	2.80	70.03	45.88
3	MAHABEEJ - 1102	3987	15	3483	16	4697	21	4056	20	40.32	-	-	2.85
4	I H - 0209 (Y)	2417	21	4248	15	6893	9	4519	16	-	17.14	28.54	14.60
5	I H - 9842 (Y)	2897	19	3538	15	5800	18	4078	19	1.94	-	8.17	3.42
6	I C - 9631 (W)	4330	11	4034	8	6087	14	4817	11	52.40	11.22	13.51	22.15
7	I C - 9666 (Y)	3397	17	3322	20	6360	11	4360	17	19.55	-	18.60	10.55
8	I C H H - 217	3217	18	3820	10	5963	17	4333	18	13.23	5.33	11.21	9.89
9	C C H H - 218	4222	13	4496	4	7095	7	5271	8	48.59	23.98	32.31	33.67
10	C C H H - 219	5118	8	3462	17	6989	8	5190	9	80.12	-	30.33	31.60
11	C C H H - 220	4210	14	3913	9	6260	12	4795	12	48.17	7.90	16.75	21.58
12	W C H - 237	4314	12	4692	2	7141	6	5382	7	48.17	29.37	33.17	36.48
13	N M H - 1028	6251	1	4492	5	7738	5	6160	4	51.81	23.87	44.30	56.21
14	N M H - 1031	7159	1	3222	21	8235	2	6205	3	119.98	-	53.57	57.36
15	E C H - 3136	4547	9	3704	12	6067	15	4773	13	60.02	2.13	13.14	21.02
16	E H H - 1489	5356	7	3414	19	4914	20	4561	14	88.48	-	14.35	15.66
17	E H H - 1490	5403	6	3428	18	6132	13	4987	10	90.15	-	21.75	26.47
18	E H H - 1491	5517	5	5350	1	6529	10	5798	5	94.14	47.53	46.79	47.04
19	MAHI KANCHAN	2841	20	3627	14	5362	19	3943	21	-	-	-	-
20	K H - 510	6581	3	4622	3	7871	4	6358	1	131.61	27.44	46.79	61.23
21	NAVJOT	3928	16	3661	13	5991	16	4527	15	38.25	0.96	11.72	14.79
	MEAN YIELD=	4606		3940		6627		5058					
	MEAN STAND	33		25		34		31					
	C.D. AT 5% =	764		750		1207		907					
	C.V. % =	11.73		13.46		12.88		-					
	F (Prob) =	.000		.000		.000		-					
	PLOT SIZE=	6.00		6.00		5.60		-					
	AGRONOMY DATA:												
	SOWING DATE (2003)	3-07		3-07		27-06		-					
	HARVEST DATE (2003)	12-10		16-10		21-10		-					
	IRRIGATION NOS	-		-		-		-					
	FERTILIZER APPLIED	N 100		80		100		-					
		P 60		60		50		-					
		K -		-		-		-					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 28.5%

TABLE NO. 62 (CONT.)

SI	NO PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			
		UDAI	BANS	CHHI	ZN 5 MEAN	UDAI	BANS	ZN 5 MEAN	UDAI	BANS	ZN 5 MEAN	UDAI	BANS	ZN 5 MEAN
1	C - 111	13.0	17.6	20.5	17.1	2.3	2.0	2.2	2.5	2.1	2.3	2.4	2.3	2.3
2	C - 1821	12.9	16.2	18.2	15.8	2.9	2.0	2.4	2.7	2.4	2.5	2.8	2.5	2.7
3	MAHABEEJ-1102	13.2	16.8	16.4	15.5	2.5	2.4	2.5	2.6	2.1	2.4	2.5	2.4	2.4
4	I H - 0209 (Y)	13.1	17.8	18.5	16.4	3.3	2.3	2.8	2.8	2.1	2.4	3.2	2.1	2.7
5	I H - 9842 (Y)	13.0	16.2	18.5	15.9	3.3	2.4	2.8	2.7	2.3	2.5	3.2	2.4	2.8
6	I C - 9631 (W)	12.4	17.4	18.3	16.0	2.7	2.4	2.5	2.6	2.3	2.4	2.8	2.3	2.5
7	I C - 9666 (Y)	14.9	17.2	15.6	15.9	3.0	2.5	2.8	2.7	2.3	2.5	3.0	2.1	2.5
8	C H H - 217	15.0	16.8	19.5	17.1	3.2	2.3	2.7	2.8	1.9	2.3	3.0	2.0	2.5
9	C H H - 218	14.7	17.4	18.7	16.9	3.2	2.3	2.7	2.7	2.1	2.4	3.2	2.1	2.7
10	C H H - 219	16.0	16.8	19.0	17.3	2.7	2.5	2.6	2.2	2.3	2.2	2.7	2.5	2.6
11	C H H - 220	13.3	16.9	18.6	16.2	3.3	2.3	2.8	2.5	2.0	2.2	3.0	2.4	2.7
12	W C - 237	13.0	16.5	18.8	16.1	3.0	2.4	2.7	2.5	2.1	2.3	3.0	2.0	2.5
13	N M H - 1028	13.5	16.6	19.9	16.7	2.1	2.0	2.1	2.3	2.0	2.1	2.1	1.8	1.9
14	N M H - 1031	18.1	16.7	20.4	18.4	2.3	2.4	2.3	2.2	2.5	2.4	2.2	2.4	2.3
15	E C - 3136	12.3	16.5	16.9	15.3	2.7	2.3	2.5	2.7	2.1	2.4	2.7	2.1	2.4
16	E H - 1489	13.3	16.1	17.3	15.6	2.7	2.5	2.6	2.4	2.4	2.4	2.5	2.1	2.3
17	E H - 1490	13.1	16.5	18.1	15.9	2.7	2.1	2.4	2.5	2.4	2.4	2.7	2.3	2.5
18	E H - 1491	15.0	17.8	19.3	17.4	2.3	2.0	2.1	2.6	2.1	2.4	2.3	2.0	2.1
CHECKS:														
19	MAHI KANCHAN	12.8	16.5	17.6	15.6	3.3	2.0	2.7	2.7	2.4	2.5	3.3	2.4	2.8
20	K H - 510	16.7	16.6	19.8	17.7	2.2	2.0	2.1	2.4	2.0	2.2	2.0	2.4	2.2
21	NAVJOT	13.0	16.5	18.7	16.1	2.8	2.0	2.4	2.9	2.3	2.6	2.8	2.4	2.6
MEAN LOCATION		13.9	16.8	18.5	16.4	2.8	2.2	2.5	2.6	2.2	2.4	2.7	2.2	2.5
C.D. AT 5% =		0.6	0.8	0.8	0.7	0.5	0.3	0.4	0.4	0.4	0.4	0.5	0.3	0.4
C.V. % =		2.8	3.4	2.9	-	13.5	9.4	-	10.1	12.8	-	13.3	10.9	-
F (Prob)		.000	.001	.000	-	.000	.000	-	.010	.258	-	.000	.003	-

TABLE NO. 62 (CONT.)

Sl NO	PEDIGREE	UNIFORMITY *					PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 5	
		UDAI	BANS	CHHI	MEAN	ZN 5	UDAI	BANS	CHHI	MEAN	ZN 5	UDAI	BANS	CHHI	MEAN	ZN 5	MEAN	
1	C - 111	2.4	2.1	1.3	1.9	180	191	189	187	187	93	91	86	86	90			
2	C - 1821	2.7	2.4	1.5	2.2	185	166	174	175	88	69	84	84	80				
3	MAHABEEJ - 1102	2.4	2.4	1.8	2.2	191	176	165	178	103	70	79	79	84				
4	I H - 0209 (Y)	3.3	2.1	2.0	2.5	190	191	186	189	84	101	94	94	93				
5	I H - 9842 (Y)	3.0	2.3	1.8	2.4	185	179	181	182	93	89	75	75	85				
6	I C - 9631 (W)	2.7	2.3	1.8	2.2	205	204	195	201	113	106	90	90	103				
7	I C - 9666 (Y)	3.0	2.4	1.8	2.4	185	176	184	182	88	80	89	89	85				
8	C H H - 217	3.2	2.0	1.8	2.3	188	154	179	173	86	66	93	93	82				
9	C H H - 218	3.2	2.3	1.8	2.4	188	204	198	196	100	99	89	89	96				
10	C H H - 219	2.7	2.1	1.5	2.1	180	146	196	174	95	61	89	89	82				
11	C H H - 220	3.2	2.1	1.5	2.3	195	209	190	198	98	111	86	86	98				
12	W C - 237	3.0	2.3	2.0	2.4	198	201	206	202	94	104	105	105	101				
13	N M H - 1028	2.3	1.8	1.8	1.9	193	186	194	191	100	90	98	98	96				
14	N M H - 1031	2.4	2.3	1.5	2.1	210	184	204	199	105	74	96	96	92				
15	E C - 3136	2.6	2.3	2.0	2.3	200	221	190	204	100	116	96	96	104				
16	E H - 1489	2.5	2.1	1.5	2.0	174	184	181	180	89	86	83	83	86				
17	E H - 1490	2.7	2.3	2.0	2.3	181	154	180	172	93	73	83	83	83				
18	E H - 1491	2.3	2.3	1.5	2.0	203	215	191	203	103	94	94	94	97				
CHECKS:																		
19	MAHI KANCHAN	3.3	2.1	2.0	2.5	180	184	174	179	89	75	76	76	80				
20	K H - 510	2.1	2.1	1.3	1.8	203	203	189	198	105	105	86	86	99				
21	NAVJOT	2.9	2.3	2.0	2.4	203	194	205	200	108	95	103	103	102				
MEAN LOCATION																		
C.D. AT 5% =		0.6	0.4	0.6	0.5	18.4	12.7	17.1	16.1	18.3	10.8	17.1	17.1	15.4				
C.V. % =		14.9	12.6	26.8	-	6.8	4.8	6.4	-	13.5	8.6	13.5	-	-				
F (Prob)		.001	.443	.326	-	.006	.000	.000	.125	.000	.050	-	-	-				

TABLE NO. 62 (CONT.)

Sl No	PEDIGREE	EAR NO. / PLANT				STAND AT HARVEST				OV'L MEAN	
		UDAI	BANS	CHHI	UDAI	BANS	CHHI	UDAI	BANS		CHHI
1	C - 111	0.78	0.88	0.88	26	24	28	26	24	28	26
2	C - 1821	0.86	1.11	0.95	32	18	33	32	18	33	28
3	MAHABEEJ - 1102	0.80	0.96	0.95	34	25	29	34	25	29	29
4	I H - 0209 (Y)	0.96	0.93	0.96	32	31	36	32	31	36	33
5	I H - 9842 (Y)	0.77	0.92	1.00	39	23	34	39	23	34	32
6	I C - 9631 (W)	0.77	0.95	0.96	41	25	38	41	25	38	34
7	I C - 9666 (Y)	0.88	1.05	0.99	33	23	36	33	23	36	30
8	C H H - 217	0.89	0.99	0.97	29	28	37	29	28	37	31
9	C H H - 218	0.82	1.08	0.89	36	24	33	36	24	33	31
10	C H H - 219	0.81	1.04	0.91	34	27	36	34	27	36	32
11	C H H - 220	0.87	1.02	0.96	29	27	34	29	27	34	30
12	W C - 237	0.82	0.92	0.95	29	22	36	29	22	36	29
13	N M H - 1028	0.80	1.00	0.91	39	33	34	39	33	34	35
14	N M H - 1031	0.88	1.00	0.93	33	26	35	33	26	35	31
15	E C - 3136	0.88	1.06	1.03	38	26	37	38	26	37	34
16	E H - 1489	0.87	1.06	0.92	35	24	36	35	24	36	32
17	E H - 1490	0.91	1.10	1.00	34	25	38	34	25	38	32
18	E H - 1491	0.83	1.09	0.83	30	30	30	30	30	30	30
CHECKS:											
19	MAHI KANCHAN	0.96	1.05	0.96	29	22	28	29	22	28	26
20	K H - 510	0.92	1.05	1.01	35	20	33	35	20	33	30
21	NAVJOT	0.79	1.10	1.08	30	21	34	30	21	34	28
MEAN LOCATION											
C.D. AT 5% = 6.4 4.5 6.3											
C.V. % = 13.6 12.8 13.2											
F (Prob) = .000 .000 .036											

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

TABLE NO. 63
 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, CHHINDIWARA IN
 ZONAL TRIAL No. TR503 DURING KHARIF (2003).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN							
		UDAI	R	BANS	R	CHHI	R	UDAI	BANS	CHHI	ZN 5 MEAN		
1	E C - 3140	4386	4	3961	13	7230	9	5192	7	78.44	10.29	40.43	39.11
2	E C - 3142	3400	13	3983	11	6071	19	4485	16	38.34	10.91	17.92	20.15
3	E C - 3137	3353	14	3830	15	6838	12	4674	13	36.41	6.65	32.81	25.21
4	E C - 3143	3498	11	3684	22	6427	16	4536	15	42.30	2.60	24.83	21.54
5	E C - 3139	3628	8	4090	8	6302	17	4673	14	47.59	13.88	22.40	25.20
6	E C - 3144	2631	24	3784	18	6486	15	4300	19	7.04	5.36	25.97	15.21
7	E H - 1492	3633	7	3762	20	6007	21	4467	17	47.79	4.77	16.67	19.68
8	E H - 1493	2866	21	4176	5	5972	24	4338	18	16.60	16.29	15.99	16.22
9	E H - 1494	4473	3	3959	14	7071	10	5167	9	81.97	10.24	37.33	38.44
10	NMH - 1029	5168	1	3787	17	9940	1	6299	1	110.26	5.47	93.07	68.75
11	NMH - 1030	3083	18	5034	4	8749	2	5622	4	25.41	40.19	69.93	50.62
12	WC - 236	3618	9	5155	3	6781	13	5185	8	47.22	43.56	31.71	38.91
13	JKMH - 792	2580	27	3291	29	6010	20	3960	27	4.95	-	16.74	6.11
14	JKMH - 082	2953	20	5875	1	7872	5	5567	5	20.16	63.59	52.89	49.14
15	CHH - 212	4056	5	4158	6	7447	6	5220	6	65.00	15.79	44.65	39.86
16	CHH - 213	2114	30	3962	12	6766	14	4281	21	-	10.33	31.42	14.69
17	CHH - 214	2615	25	4015	10	5654	26	4094	25	6.38	11.81	9.81	9.70
18	CHH - 215	3466	12	3805	16	6929	11	4733	11	41.00	5.96	34.57	26.81
19	I C - 9701	2688	23	3766	19	6116	18	4190	23	9.37	4.88	18.79	12.26
20	I C - 9646	3240	17	3746	21	5434	28	4140	24	31.80	4.31	5.55	10.92
21	SMZ - 421	3260	16	3586	24	7313	8	4720	12	32.61	-	42.04	26.44
22	I H - 364	3042	19	4153	7	7412	7	4869	10	23.75	15.64	43.97	30.45

TABLE NO. 63 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN							
		UDAI	R	BANS	R	CHHI	R	MEAN	R	UDAI	BANS	CHHI	MEAN
23	I H - 0223	2706	22	3395	28	5711	25	3937	28	10.07	-	10.92	5.48
24	C - 1415	5101	2	4066	9	8691	3	5953	2	107.52	13.21	68.81	59.48
25	C - 1408	3660	6	5287	2	7933	4	5626	3	48.90	47.22	54.08	50.74
CHECKS:													
26	MAHI KANCHAN	2458	29	3591	23	5149	29	3733	29	-	-	-	-
27	GUJARAT MAKKAI - 6	2563	28	3526	25	5993	22	4028	26	4.29	-	16.41	7.91
28	PUSA EARLY	3615	10	3421	27	5605	27	4214	22	47.09	-	8.87	12.90
HYBRID MAKKA-2													
29	SURYA	2585	26	3090	30	4265	30	3313	30	5.18	-	16.19	14.75
30	NARMADA MOTI	3345	15	3523	26	5982	23	4283	20	36.09	-	-	-
MEAN YIELD=		3326		3982		6672		4660					
MEAN STAND		33		26		36		32					
C.D. AT 5%		498		956		1177		877					
C.V. %		10.66		17.09		12.55		-					
F (Prob)		.000		.000		.000		-					
PLOT SIZE=		6.00		6.00		5.60		-					
AGRONOMY DATA:													
SOWING DATE (2003)		3-07		3-07		27-06		-					
HARVEST DATE (2003)		14-10		16-10		21-10		-					
IRRIGATION Nos		-		-		-		-					
FERTILIZER APPLIED N		90		80		120		-					
P		60		60		60		-					
K		-		-		40		-					

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 44.9%

TABLE NO. 63 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD		% SUPPLY		PUSA		EARLY HYBRID		OVER		THE	
		GUJARAT UDAI	MAKKAI-6 BANS	CHHI	ZN 5 MEAN	UDAI	BANS	MAKKA-2 CHHI	ZN 5 MEAN				
1	EC - 3140	71.11	12.32	20.63	28.91	21.32	15.77	28.98	23.22				
2	EC - 3142	32.66	12.95	1.30	11.35	-	16.42	8.31	6.43				
3	EC - 3137	30.81	8.61	14.09	16.04	-	11.95	21.99	10.91				
4	EC - 3143	36.45	4.48	7.24	12.63	-	7.70	14.66	7.65				
5	EC - 3139	41.53	15.97	5.15	16.02	0.34	19.54	12.43	10.90				
6	EC - 3144	2.64	7.29	8.22	6.76	-	10.59	15.71	2.05				
7	EH - 1492	41.71	6.69	0.22	10.91	0.48	9.97	7.16	6.01				
8	EH - 1493	11.81	18.42	-	7.71	-	22.07	6.54	2.95				
9	EH - 1494	74.49	12.26	17.98	28.30	23.72	15.71	26.14	22.63				
10	NMH - 1029	101.62	7.40	65.86	56.38	42.95	10.71	77.34	49.47				
11	NMH - 1030	20.26	42.76	45.98	39.58	-	47.16	56.09	33.42				
12	WC - 236	41.17	46.20	13.14	28.74	0.09	50.70	20.98	23.05				
13	JKMH - 792	0.64	-	0.28	-	-	-	7.23	-				
14	JKMH - 082	15.22	66.59	31.34	38.21	-	71.72	40.43	32.10				
15	CHH - 212	58.22	17.92	24.26	29.61	12.18	21.54	32.86	23.88				
16	CHH - 213	-	12.36	12.89	6.28	-	15.81	20.71	1.59				
17	CHH - 214	2.00	13.86	-	1.66	-	17.36	0.86	-				
18	CHH - 215	35.20	7.91	15.60	17.51	-	11.23	23.61	12.32				
19	IC - 9701	4.88	6.81	2.04	4.04	-	10.09	9.11	-				
20	IC - 9646	26.39	6.22	-	2.79	-	9.49	-	-				
21	SMZ - 421	27.16	1.68	22.02	17.18	-	4.81	30.47	12.00				
22	IH - 364	18.66	17.77	23.68	20.89	-	21.39	32.24	15.55				
23	IH - 0223	5.55	-	-	-	-	-	1.88	-				
24	C - 1415	98.99	15.29	45.02	47.79	41.09	18.84	55.06	41.26				
25	C - 1408	42.78	49.92	32.36	39.70	1.23	54.53	41.52	33.52				
CHECKS:													
26	MAHI KANCHAN	-	1.84	-	-	-	4.97	-	-				
27	GUJARAT MAKKAI-6	-	-	-	-	-	3.08	6.92	-				
28	PUSA EARLY HYBRID MAKKA-2	41.04	-	-	4.62	-	-	-	-				
29	SURYA	0.86	-	-	-	-	-	-	-				
30	NARMADA MOTI	30.49	-	-	6.34	-	2.96	6.72	1.64				

TABLE NO. 63 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD %				SUPERIORITY				OVER THE	
		SURYA UDAI	BANS	CHHI	ZN 5 MEAN	NARMADA UDAI	BANS	CHHI	ZN 5 MEAN	CHHI	ZN 5 MEAN
1	E C - 3140	69.65	28.18	69.53	56.71	31.12	12.44	20.86	21.22		
2	E C - 3142	31.53	28.90	42.36	35.36	1.66	13.07	1.49	4.71		
3	E C - 3137	29.69	23.95	60.35	41.06	0.24	8.73	14.31	9.12		
4	E C - 3143	35.29	19.24	50.71	36.92	4.56	4.60	7.44	5.91		
5	E C - 3139	40.32	32.35	47.78	41.04	8.45	16.10	5.35	9.10		
6	E C - 3144	1.77	22.45	52.09	29.79	-	7.41	8.42	0.40		
7	E H - 1492	40.51	21.76	40.85	34.83	8.60	6.81	0.41	4.30		
8	E H - 1493	10.86	35.15	40.03	30.93	-	18.55	-	1.28		
9	E H - 1494	73.01	28.12	65.80	55.96	33.72	12.38	18.20	20.64		
10	NMH - 1029	99.90	22.57	133.09	90.10	54.51	7.52	66.17	47.06		
11	NMH - 1030	19.23	62.93	105.16	69.68	-	42.92	46.25	31.26		
12	WC - 236	39.96	66.85	59.01	56.49	8.18	46.36	13.36	21.06		
13	JKMH - 792	-	6.52	40.94	19.53	-	-	0.47	-		
14	JKMH - 082	14.24	90.12	84.58	68.01	-	66.77	31.59	29.96		
15	CHH - 212	56.87	34.57	74.63	57.56	21.25	18.05	24.49	21.88		
16	CHH - 213	-	28.23	58.66	29.20	-	12.48	13.11	-		
17	CHH - 214	1.14	29.94	32.57	23.58	-	13.98	-	-		
18	CHH - 215	34.05	23.15	62.47	42.85	3.61	8.02	15.82	10.50		
19	I C - 9701	3.99	21.89	43.41	26.47	-	6.92	2.24	-		
20	I C - 9646	25.31	21.23	27.43	24.95	-	6.34	-	-		
21	SMZ - 421	26.08	16.05	71.49	42.44	-	1.79	22.25	10.19		
22	I H - 364	17.65	34.40	73.81	46.95	-	17.90	23.91	13.68		
23	I H - 0223	4.65	9.87	33.91	18.83	-	-	-	-		
24	C - 1415	97.30	31.58	103.80	79.66	52.49	15.42	45.29	38.97		
25	C - 1408	41.57	71.10	86.02	69.82	9.42	50.08	32.61	31.36		
CHECKS:											
26	MAHI KANCHAN	-	16.22	20.73	12.65	-	1.95	-	-		
27	GUJARAT MAKKAI - 6	-	14.13	40.54	21.56	-	0.11	0.19	-		
28	PUSA EARLY HYBRID MAKKA-2	39.84	10.72	31.44	27.18	8.08	-	-	-		
29	SURYA	-	-	-	-	-	-	-	-		
30	NARMADA MOTI	29.38	14.00	40.27	29.27	-	-	-	-		

TABLE NO. 63 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			
		UDAI	BANS	CHHI	UDAI	BANS	CHHI	UDAI	BANS	CHHI	ZN 5 MEAN
1	E C - 3140	49.8	40.0	52.5	51.8	43.5	52.5	79.5	66.0	90.8	78.8
2	E C - 3142	50.3	39.0	49.0	51.5	42.5	51.0	79.0	63.8	88.3	77.0
3	E C - 3137	48.5	38.8	52.0	51.5	42.8	53.3	82.5	66.3	92.0	80.3
4	E C - 3143	48.5	38.8	51.0	50.5	42.5	52.0	82.5	65.0	89.5	79.0
5	E C - 3139	48.5	38.8	50.8	50.3	42.5	51.5	78.5	66.0	90.0	78.2
6	E C - 3144	48.3	41.0	52.0	50.5	44.5	52.5	82.5	66.0	86.5	78.3
7	E H - 1492	47.5	40.3	48.5	49.8	44.0	47.4	80.0	64.0	89.0	77.7
8	E H - 1493	48.8	40.0	50.3	50.5	43.8	48.8	81.3	65.5	89.0	78.6
9	E H - 1494	49.3	39.8	51.8	51.8	43.5	52.0	80.3	62.5	90.8	77.8
10	NMH - 1029	50.3	41.0	53.3	52.5	45.0	50.7	86.8	67.3	95.8	83.3
11	NMH - 1030	49.8	39.8	54.0	53.5	44.0	50.5	85.3	67.8	94.8	82.6
12	WC - 236	50.8	39.0	52.0	52.8	42.8	49.8	81.5	64.8	91.5	79.3
13	JKMH - 792	46.5	38.8	48.0	48.5	42.3	46.3	77.5	64.5	83.5	75.2
14	JKMH - 082	50.0	39.5	52.3	51.5	43.5	49.2	80.0	66.3	91.0	79.1
15	CHH - 212	49.5	41.3	52.0	52.0	45.0	50.3	82.0	65.5	91.8	79.8
16	CHH - 213	49.0	41.3	50.8	51.3	45.3	49.7	80.3	65.8	91.5	79.2
17	CHH - 214	48.8	40.5	51.5	52.3	44.3	49.6	78.8	68.5	89.3	78.8
18	CHH - 215	50.5	43.5	54.0	52.8	47.5	51.7	82.0	66.5	96.0	81.5
19	I C - 9701	50.5	38.8	51.8	52.5	43.0	49.5	78.8	64.8	89.5	77.7
20	I C - 9646	48.5	40.3	50.5	50.0	44.0	48.5	79.0	66.5	88.8	78.1
21	SMZ - 421	50.8	42.0	54.5	53.3	45.8	51.2	81.5	67.5	95.8	81.6
22	I H - 364	48.5	40.3	51.5	50.8	44.0	49.2	79.8	65.0	90.8	78.5
23	I H - 0223	49.0	41.0	51.0	51.5	44.3	49.1	80.0	66.5	90.0	78.8
24	C - 1415	50.3	38.5	53.0	52.5	43.0	49.6	83.3	67.0	93.8	81.3
25	C - 1408	50.5	41.5	53.5	53.5	45.3	54.0	83.5	67.3	93.8	81.5
CHECKS:											
26	MAHI KANCHAN	48.0	39.5	49.5	49.8	43.5	50.5	76.5	64.8	88.8	76.7
27	GUJARAT MAKKAI-6	50.8	39.5	49.5	52.0	43.3	48.8	78.3	66.5	87.0	77.3
28	PUSA EARLY	49.8	40.5	51.8	52.3	44.5	50.1	82.5	69.0	91.3	80.9
HYBRID MAKKA-2											
29	SURYA	45.8	38.8	48.0	48.5	42.5	46.3	78.0	61.8	85.3	75.0
30	NARMADA MOTI	50.3	39.5	50.8	51.5	43.5	49.1	80.0	66.0	87.8	77.9
NARMADA MOTI											
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											

TABLE NO. 63 (CONT.)

Sl NO	PEDIGREE	MOISTURE & AT HARVEST					PLANT ASPECT *					EAR ASPECT *					ZN 5 MEAN
		UDAI	BANS	CHHI	ZN 5 MEAN	UDAI	BANS	UDAI	BANS	UDAI	BANS	UDAI	BANS	UDAI	BANS	CHHI	
1	E C - 3140	16.8	16.5	19.9	17.7	1.8	2.3	1.6	2.0	2.1	1.8	2.0	2.3	1.6	2.1	1.8	2.0
2	E C - 3142	15.8	17.1	19.0	17.3	2.3	2.3	2.2	2.3	2.1	2.3	2.3	2.3	2.2	2.1	2.5	2.3
3	E C - 3137	15.6	16.5	19.7	17.3	2.4	2.3	2.0	2.3	2.1	2.3	2.3	2.3	2.2	2.1	2.3	2.1
4	E C - 3143	15.1	16.7	18.6	16.8	2.1	2.3	2.2	2.3	2.1	2.3	2.3	2.3	2.2	2.0	2.0	2.1
5	E C - 3139	16.5	17.3	20.4	18.1	2.4	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.7	1.8	2.2	2.6
6	E C - 3144	16.5	15.6	20.2	17.5	2.3	2.4	2.2	2.4	2.3	2.4	2.4	2.4	2.5	3.0	2.3	2.3
7	E H - 1492	14.5	16.5	20.0	17.0	2.3	2.1	2.2	2.2	2.3	2.3	2.1	2.2	2.2	2.2	2.2	2.1
8	E H - 1493	15.3	16.9	19.8	17.3	2.2	2.0	1.9	2.1	2.2	2.3	2.0	2.1	2.2	1.3	2.2	1.8
9	E H - 1494	14.6	16.5	20.4	17.2	1.5	2.0	2.0	2.0	1.5	2.0	2.0	2.0	1.9	1.3	2.2	1.8
10	NMH - 1029	16.3	16.4	20.9	18.0	2.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.3	2.2	1.8
11	NMH - 1030	14.6	16.5	20.0	17.0	2.4	2.1	2.4	2.3	2.4	2.4	2.1	2.3	2.4	1.5	2.2	2.1
12	WC - 236	14.9	17.0	19.0	17.0	3.0	1.9	2.4	2.5	3.0	2.4	2.1	2.2	2.4	1.6	2.3	2.3
13	JKMH - 792	14.9	17.8	20.7	17.8	2.5	1.9	2.5	2.2	2.5	2.2	1.9	2.2	2.0	1.0	2.3	2.6
14	JKMH - 082	14.4	16.3	20.1	17.3	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.2	2.2	1.0	2.3	2.1
15	CHH - 212	15.4	16.3	20.1	17.1	2.1	2.5	2.1	2.3	2.1	2.5	2.3	2.3	2.2	1.8	2.2	1.9
16	CHH - 213	15.6	16.6	19.1	17.7	2.6	2.3	2.1	2.4	2.6	2.4	2.3	2.3	2.2	1.5	2.2	1.7
17	CHH - 214	16.1	17.3	19.7	17.8	2.4	2.0	2.4	2.2	2.4	2.4	2.0	2.3	2.1	1.8	2.1	2.4
18	CHH - 215	16.0	17.1	20.4	17.8	2.4	2.0	2.4	2.2	2.4	2.4	2.0	2.3	2.1	1.0	2.3	2.4
19	I C - 9701	14.6	16.5	20.2	17.1	2.3	2.1	2.3	2.2	2.3	2.3	2.1	2.2	2.4	2.0	2.3	2.0
20	I C - 9646	14.9	16.6	19.3	16.9	2.5	2.0	2.5	2.4	2.5	2.4	2.3	2.4	2.4	2.3	2.3	1.9
21	SMZ - 421	15.5	16.9	20.9	17.8	2.0	2.0	2.0	2.2	2.0	2.1	2.2	2.3	2.1	1.5	2.1	2.3
22	I H - 364	14.3	16.6	19.5	16.8	2.6	2.6	2.6	2.4	2.6	2.8	2.3	2.3	2.8	1.5	2.1	2.1
23	I H - 0223	13.9	16.8	19.7	16.8	2.9	2.1	2.9	2.5	2.9	3.1	2.1	2.1	3.1	1.5	2.3	2.3
24	C - 1415	15.1	17.5	19.7	17.4	1.9	2.0	1.8	1.9	1.9	1.8	2.0	2.0	1.8	1.5	1.8	1.8
25	C - 1408	15.9	17.3	20.7	17.9	1.5	2.0	1.5	1.8	1.5	1.8	2.0	2.0	1.8	1.0	1.6	1.6
CHECKS:																	
26	MAHI KANCHAN	13.5	16.4	18.2	16.0	2.8	2.4	3.1	2.6	2.8	3.1	2.4	2.4	3.1	2.3	2.5	2.8
27	GUJARAT MAKKAI - 6	14.6	16.5	18.5	16.6	3.1	2.3	3.1	2.7	3.1	3.1	2.3	2.3	3.1	2.0	2.4	2.3
28	PUSA EARLY	16.0	15.9	19.0	17.0	2.0	2.4	2.0	2.2	2.0	2.0	2.4	2.4	2.0	1.8	2.3	2.0
HYBRID MAKKA-2																	
29	SURYA	15.1	16.5	16.6	16.0	2.8	2.1	2.9	2.4	2.8	2.9	2.1	2.1	2.9	3.0	2.5	2.8
30	NARMADA MOTI	16.8	16.1	19.3	17.4	2.2	2.1	2.4	2.2	2.2	2.4	2.1	2.1	2.4	2.0	2.4	2.3
MEAN LOCATION		15.4	16.7	19.7	17.2	2.3	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.3	1.8	2.2	2.1
C.D. AT 5%		0.3	0.8	0.7	0.6	0.4	0.3	0.6	0.4	0.4	0.6	0.3	0.3	0.6	0.3	0.4	0.4
C.V. %		1.3	3.5	2.4	-	13.4	10.6	17.7	-	12.1	17.7	12.1	10.6	17.7	12.1	12.2	-
F (Prob)		.000	.001	.000	-	.000	.111	.000	-	.010	.000	.111	.000	.000	.000	.000	-

TABLE NO. 63 (CONT.)

Sl No	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 5 MEAN
		UDAI	BANS	CHHI	UDAI	BANS	CHHI	UDAI	BANS	CHHI	
1	E C - 3140	1.7	2.1	1.5	1.8	2.1	2.0	1.95	1.96	1.86	193
2	E C - 3142	1.6	2.1	1.8	1.8	1.9	1.7	1.95	2.03	1.89	195
3	E C - 3137	2.1	2.3	1.0	1.6	2.4	2.1	1.93	1.93	2.01	195
4	E C - 3143	1.8	2.0	1.0	1.7	2.5	2.0	1.73	2.04	1.94	190
5	E C - 3139	1.9	2.1	1.0	1.8	2.3	2.0	1.96	2.11	2.01	203
6	E C - 3144	1.9	2.3	1.3	1.7	2.4	2.0	1.86	1.78	1.89	184
7	E H - 1492	1.7	2.1	1.3	1.9	2.0	2.0	1.94	2.06	1.81	194
8	E H - 1493	2.0	2.3	1.3	1.7	2.3	2.2	1.98	1.68	1.94	186
9	E H - 1494	1.9	2.3	1.0	1.9	2.3	2.0	1.81	1.99	2.05	195
10	NMH - 1029	1.5	2.3	1.0	1.6	2.3	1.8	2.06	1.73	2.05	192
11	NMH - 1030	1.6	2.1	1.0	1.7	2.0	1.6	1.73	1.99	1.88	187
12	WC - 236	1.9	2.3	1.8	2.0	2.3	2.1	1.85	1.70	1.96	184
13	JKMH - 792	2.5	2.5	1.0	2.0	2.5	2.1	1.94	2.08	1.98	200
14	JKMH - 082	1.9	1.5	1.3	1.6	2.3	1.8	1.73	1.91	1.83	182
15	CHH - 212	1.9	2.1	1.3	1.8	2.3	2.2	1.93	2.04	2.01	199
16	CHH - 213	1.7	2.5	1.3	1.8	2.6	2.0	2.05	1.89	1.94	196
17	CHH - 214	1.7	2.4	2.0	2.0	2.3	2.1	2.03	1.98	1.85	195
18	CHH - 215	2.0	2.0	1.5	1.8	2.4	2.4	2.15	1.99	2.00	205
19	I C - 9701	1.6	2.3	1.0	1.5	2.6	2.1	1.78	2.03	2.05	195
20	I C - 9646	1.8	2.3	1.5	1.9	2.4	1.8	1.85	1.74	1.93	184
21	SMZ - 421	1.8	2.1	1.0	1.6	2.4	1.3	1.85	1.73	1.90	183
22	I H - 364	1.9	2.3	1.0	1.7	2.5	1.8	1.85	1.68	1.94	182
23	I H - 0223	1.8	2.4	1.5	1.9	2.1	1.8	1.80	2.16	1.91	196
24	C - 1415	1.5	2.1	1.0	1.6	2.6	1.0	1.88	1.78	1.84	183
25	C - 1408	1.6	1.8	1.0	1.4	1.6	1.5	2.00	1.86	1.85	190
CHECKS:											
26	MAHI KANCHAN	2.0	2.3	1.8	2.0	2.3	2.0	1.90	1.86	1.86	188
27	GUJARAT MAKKAI - 6	1.9	2.4	1.3	1.9	2.3	1.8	1.91	2.06	1.99	199
28	PUSA EARLY	1.6	2.3	1.5	1.8	2.5	2.2	1.95	2.08	1.91	198
HYBRID MAKKA-2											
29	SURYA	1.9	2.3	1.8	2.0	2.1	2.0	1.48	1.73	1.91	170
30	NARMADA MOTI	1.6	2.4	1.0	1.7	2.3	2.0	1.83	1.85	1.94	187
MEAN LOCATION											
C.D. AT 5% =		0.4	0.4	0.6	0.4	0.4	0.6	25.7	10.6	16.2	17.5
C.V. % =		14.5	13.7	30.7	-	13.9	26.5	9.7	4.0	6.0	-
F (Prob)		.001	.017	.003	-	.000	.020	.009	.000	.174	-

TABLE NO. 63 (CONT.)

Sl No	PEDIGREE	EAR HEIGHT (cm)			EAR No. / PLANT			STAND AT HARVEST			OV/L MEAN
		UDAI	BANS	CHHI	UDAI	BANS	CHHI	UDAI	BANS	CHHI	
1	E C - 3140	105	99	81	1.00	1.00	0.94	33	24	37	31
2	E C - 3142	98	89	89	1.01	1.04	0.95	39	33	36	36
3	E C - 3137	95	91	95	1.01	0.88	0.98	38	21	38	32
4	E C - 3143	83	100	88	1.03	1.00	0.99	39	28	37	35
5	E C - 3139	113	109	88	1.08	0.99	1.01	36	30	36	34
6	E C - 3144	100	68	78	1.01	1.00	0.99	36	26	40	34
7	E H - 1492	96	111	79	1.03	0.90	0.97	33	26	37	32
8	E H - 1493	105	81	100	1.02	1.08	0.95	40	27	38	35
9	E H - 1494	104	99	91	1.01	1.09	0.93	35	27	40	34
10	NMH - 1029	98	80	93	1.03	1.05	0.97	40	20	40	33
11	NMH - 1030	92	98	88	1.01	0.96	0.96	45	27	36	36
12	WC - 236	79	68	88	1.09	0.93	0.98	24	15	37	25
13	JKMH - 792	94	101	85	1.02	0.89	0.93	34	25	42	33
14	JKMH - 082	90	84	89	1.03	0.93	0.99	25	28	41	31
15	CHH - 212	99	96	89	1.05	1.05	0.98	30	26	39	32
16	CHH - 213	109	91	90	1.02	1.05	0.93	40	24	38	34
17	CHH - 214	104	99	90	1.03	1.00	0.99	25	25	37	29
18	CHH - 215	124	94	104	1.02	1.00	1.00	27	28	23	26
19	I C - 9701	94	103	95	1.04	1.00	1.00	26	28	36	30
20	I C - 9646	95	94	99	1.01	0.99	0.95	37	24	40	34
21	SMZ - 421	85	79	86	1.03	1.02	0.94	29	23	28	27
22	I H - 364	79	78	98	1.00	0.96	0.99	30	29	35	31
23	I H - 0223	98	106	89	0.97	1.01	0.94	28	31	41	33
24	C - 1415	98	74	81	1.02	1.05	0.99	34	27	36	32
25	C - 1408	93	90	101	1.03	0.96	0.95	39	37	40	38
CHECKS:											
26	MAHI KANCHAN	95	88	89	1.03	0.98	0.99	21	25	28	25
27	GUJARAT MAKKAI - 6	93	100	90	1.10	0.97	1.01	28	23	39	30
28	PUSA EARLY	106	104	98	0.99	1.01	1.02	47	16	30	31
HYBRID MAKKA-2											
29	SURYA	70	71	83	1.02	0.82	0.94	29	23	35	29
30	NARMADA MOTI	98	85	91	1.03	1.00	1.00	33	26	36	33
MEAN LOCATION											
C.D. AT 5%		21.8	8.6	16.3	-	-	-	5.2	4.3	5.9	-
C.V. %		16.2	6.7	12.9	-	-	-	11.1	12.0	11.5	-
F (Prob)		.013	.000	.174	-	-	-	.000	.000	.000	-

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

TABLE NO. 64
 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, GODHRA IN TRIAL NO. TR512 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD THE PUSA UDAI		% SUPERIORITY OVER EARLY HYBRID MAKKA-2		GODHRA	MEAN
		UDAI	BANS	R	GODH	R	MEAN	UDAI	BANS		
1	H 1496	5186	3957	8	104	4	8	67.08	49.06	31.31	
2	H 1497	5735	3416	4	2690	6	7	29.52	48.06	26.24	
3	H 1498	4562	2897	1	2097	5	9	44.38	20.85	16.91	
4	H 1499	4717	3595	1	687	1	1	22.68	147.76	14.95	
5	H 1500	4540	3357	1	580	1	6	55.83	30.02	23.85	
6	H 1501	4733	3257	1	248	3	3	41.90	9.74	15.85	
7	H 1502	4723	3244	1	250	3	3	32.07	3.02	12.68	
8	H 1503	4742	3288	1	245	1	2	26.19	39.94	38.78	
9	H 1504	3480	2983	1	475	1	1	91.01	97.84	-	
10	H 1505	3823	4520	2	543	2	2	17.80	32.32	-	
11	H 1506	3678	2790	2	862	1	1	15.46	97.91	23.74	
12	H 1507	3778	2477	1	751	1	5	42.56	24.74	11.67	
13	H 1508	4477	3370	1	670	1	2	65.03	89.17	15.65	
14	H 1509	4246	3908	1	98	1	1	4.66	20.14	17.32	
15	H 1510	4507	4279	1	779	1	1	78.15	15.89	20.39	
16	H 1511	4637	3476	1	670	1	2	23.15	37.09	14.17	
17	H 1512	4464	4079	1	98	1	1	16.45	15.09	20.39	
18	H 1513	4510	4079	1	216	1	2	16.15	15.09	14.17	
19	H 1514	4507	4079	1	216	1	2	16.15	15.09	14.17	
20	H 1515	4510	4079	1	216	1	2	16.15	15.09	14.17	
21	H 1516	4510	4079	1	216	1	2	16.15	15.09	14.17	
22	H 1517	4510	4079	1	216	1	2	16.15	15.09	14.17	
23	H 1518	4510	4079	1	216	1	2	16.15	15.09	14.17	
24	H 1519	4510	4079	1	216	1	2	16.15	15.09	14.17	
25	H 1520	4510	4079	1	216	1	2	16.15	15.09	14.17	
26	CHCKS: PUSA EARLY	4786	2368	12	1412	25	23	-	-	-	
27	HYBRID MAKKA-2	4444	3468	23	1353	9	26	45.46	23.69	8.18	
28	MAJOT	3661	3878	26	1746	7	16	63.74	-	-	
	MAJOT-KANCHAN	4758	3177	26	1936	19	19	-	-	-	
	MEAN YIELD=	523	25		31			-	-	-	
	MEAN STAND	1169	868		911			-	-	-	
	C.D. @ 5%	2249	2877		2877			-	-	-	
	C.V. %	6.00	6.00		6.00			-	-	-	
	F (P<0.05)	6.00	6.00		6.00			-	-	-	
	PLOT SIZE=	3-07	3-07		30-06			-	-	-	
	AGRONOMY DATA:	14-10	15-10		2-10			-	-	-	
	SOWING DATE (2003)	90	80		100			-	-	-	
	HARVEST DATE (2003)	60	60		50			-	-	-	
	IRRIGATION NOS							-	-	-	
	FERTILIZER APPLIED							-	-	-	
		N	P	K				-	-	-	

TABLE NO. 64 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD %			SUPERIORITY OVER THE		MAHI-KANCHAN		GODH	ZN 5 MEAN
		NAVJOT UDAI	BANS	GODH	ZN 5 MEAN	UDAI	BANS			
1	E H - 1495	16.69	14.08	55.51	21.38	41.67	2.04	20.51	21.14	
2	E H - 1496	24.37	-	67.68	17.24	50.99	-	29.94	17.01	
3	E H - 1497	29.05	-	54.47	21.32	56.67	-	19.70	21.08	
4	E H - 1498	2.66	-	25.41	-	24.63	-	-	-	
5	E H - 1499	6.14	-	54.24	5.56	28.86	-	19.53	5.35	
6	E H - 1500	2.15	6.40	158.70	26.60	24.02	-	100.48	26.35	
7	E H - 1501	6.58	-	90.67	14.52	29.39	-	47.76	14.29	
8	E H - 1502	6.28	-	35.96	7.10	29.03	-	5.36	6.88	
9	E H - 1503	6.68	-	101.41	14.33	29.52	-	56.08	14.10	
10	E H - 1504	11.41	-	7.17	-	35.26	-	-	-	
11	E H - 1505	-	-	46.00	-	-	-	13.14	-	
12	E H - 1506	31.01	30.42	13.91	28.29	59.05	16.65	-	28.03	
13	E H - 1507	-	-	106.40	-	-	-	59.95	-	
14	E H - 1508	-	-	38.05	-	0.47	-	6.98	-	
15	E H - 1509	22.55	-	96.04	14.36	48.78	-	51.92	14.13	
16	E H - 1510	7.48	-	30.14	6.99	30.49	-	0.85	6.78	
17	E H - 1511	17.11	-	97.36	3.23	42.17	-	52.94	3.03	
18	E H - 1512	0.40	12.68	0.85	5.06	21.89	0.78	-	4.85	
19	E H - 1513	2.22	-	25.34	-	24.10	-	-	-	
20	E H - 1514	32.92	21.65	20.89	26.94	61.37	8.80	-	26.69	
21	E H - 1515	15.42	-	43.03	7.72	40.12	-	10.84	7.50	
22	E H - 1516	20.52	17.61	-	14.81	46.32	5.19	-	14.58	
23	E H - 1517	1.91	-	-	-	23.73	-	-	-	
24	E H - 1518	15.63	-	2.08	1.94	40.38	-	-	1.73	
25	E H - 1519	-	17.18	16.12	5.29	12.56	4.81	-	5.08	
CHECKS:										
26	PUSA EARLY	7.68	-	4.33	-	30.73	-	-	-	
HYBRID MAKKA-2										
27	NAJOT	-	-	-	-	21.41	-	-	-	
28	MAHI-KANCHAN	-	11.80	29.04	0.20	-	-	-	-	

TABLE NO. 64 (CONT..)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			
		UDAI	BANS	GODH ZN 5 MEAN	UDAI	BANS	GODH ZN 5 MEAN	UDAI	BANS	GODH ZN 5 MEAN	
1	E H - 1495	49.0	39.0	48.7	50.3	42.7	52.0	79.7	64.0	72.0	71.9
2	E H - 1496	48.7	38.7	47.0	50.7	42.0	50.7	81.3	66.0	70.0	72.4
3	E H - 1497	50.3	40.3	48.0	51.7	43.7	51.7	81.3	66.7	71.7	73.2
4	E H - 1498	48.7	40.7	48.3	51.0	44.3	54.3	78.7	66.0	74.7	73.1
5	E H - 1499	48.3	41.0	46.7	49.7	44.3	51.3	77.3	66.7	68.7	70.9
6	E H - 1500	48.3	38.7	47.0	50.0	42.3	51.0	80.3	65.7	71.0	72.3
7	E H - 1501	48.7	40.3	44.8	50.0	44.3	50.3	79.0	65.3	69.3	71.2
8	E H - 1502	48.7	40.0	47.3	49.7	43.7	51.7	78.3	66.3	68.0	70.9
9	E H - 1503	48.7	39.0	45.1	50.0	42.3	51.0	79.3	65.3	69.3	71.3
10	E H - 1504	48.3	38.3	44.2	49.3	42.3	51.3	78.7	63.3	67.3	69.8
11	E H - 1505	48.7	39.7	48.7	50.0	43.3	51.3	82.0	66.0	69.3	72.4
12	E H - 1506	49.0	38.3	49.7	50.3	42.0	55.0	77.7	64.3	71.7	71.2
13	E H - 1507	48.3	40.3	47.7	50.0	43.7	53.0	85.3	67.3	72.0	74.9
14	E H - 1508	49.0	40.0	46.0	52.0	43.3	53.7	80.0	66.7	74.7	73.8
15	E H - 1509	48.7	37.3	44.2	50.3	41.0	52.7	79.0	62.3	75.3	72.2
16	E H - 1510	48.7	40.7	45.9	50.7	43.7	54.0	81.7	67.0	75.3	74.7
17	E H - 1511	48.3	38.3	44.7	50.3	42.3	52.7	79.0	64.7	68.7	70.8
18	E H - 1512	49.3	40.0	46.1	51.7	44.0	55.0	87.3	67.7	73.0	76.0
19	E H - 1513	48.7	42.0	46.3	50.7	45.3	54.3	78.3	69.3	73.7	73.8
20	E H - 1514	48.7	38.7	46.0	49.7	42.7	56.3	81.3	65.7	73.0	73.3
21	E H - 1515	49.0	40.3	45.9	51.0	44.0	54.0	83.7	69.0	72.7	75.1
22	E H - 1516	50.0	40.3	46.8	52.0	44.3	54.0	84.3	67.3	73.3	75.0
23	E H - 1517	48.3	40.3	47.7	50.3	43.7	54.3	82.3	63.7	74.3	73.4
24	E H - 1518	47.7	40.3	46.0	49.3	44.0	50.7	77.7	65.7	68.7	70.7
25	E H - 1519	48.0	38.3	47.0	50.3	42.0	51.3	77.7	64.7	70.0	70.8
CHECKS:											
26	PUSA EARLY	49.7	37.7	51.7	50.7	41.3	55.7	85.3	65.3	75.3	75.3
HYBRID MAKKA-2											
27	NAJOT	49.3	41.0	51.7	51.7	44.3	55.7	84.3	68.0	77.3	76.6
28	MAHI-KANCHAN	48.7	38.7	48.3	50.3	42.7	53.7	78.0	64.0	73.0	71.7
MEAN LOCATION											
	C.D. AT 5% =	1.2	1.8	2.3	1.2	1.8	3.2	2.8	3.1	3.2	3.0
	C.V. % =	1.5	2.8	2.9	1.5	2.5	3.7	2.1	2.9	2.7	-
	F (Prob)	.028	.000	.000	.000	.000	.003	.000	.006	.000	-

TABLE NO. 64 (CONT.)

Sl No	PEDIGREE	MOISTURE % AT HARVEST				PLANT ASPECT *				EAR ASPECT *			
		UDAI	BANS	GODH	ZN 5 MEAN	UDAI	BANS	GODH	ZN 5 MEAN	UDAI	BANS	GODH	ZN 5 MEAN
1	EH - 1495	15.1	16.5	11.4	14.3	1.9	2.0	3.0	2.3	1.8	2.0	3.4	2.4
2	EH - 1496	16.1	16.2	12.1	14.8	1.9	2.5	2.7	2.3	1.5	2.2	3.2	2.3
3	EH - 1497	15.6	16.9	14.6	15.7	1.9	2.0	3.0	2.3	1.8	2.3	3.5	2.5
4	EH - 1498	14.6	16.1	11.8	14.2	2.1	2.0	3.2	2.4	2.1	2.3	3.8	2.8
5	EH - 1499	15.1	16.2	16.0	15.8	2.0	2.5	2.8	2.4	2.0	2.5	3.2	2.6
6	EH - 1500	14.4	16.6	10.0	13.6	2.0	2.0	2.2	2.1	1.9	2.3	2.7	2.3
7	EH - 1501	15.6	16.4	14.1	15.3	2.1	2.0	2.8	2.3	2.0	2.3	3.5	2.6
8	EH - 1502	15.0	16.2	13.4	14.9	2.0	2.2	2.5	2.2	1.9	2.2	3.2	2.4
9	EH - 1503	14.6	16.8	12.8	14.8	1.9	2.0	2.5	2.1	2.5	2.3	3.0	2.6
10	EH - 1504	15.0	16.1	16.0	15.7	2.2	2.5	2.8	2.5	2.6	2.5	3.7	2.9
11	EH - 1505	15.7	16.3	13.2	15.1	2.7	2.3	2.7	2.6	2.3	2.5	3.3	2.7
12	EH - 1506	14.5	16.7	13.5	14.9	2.2	2.2	2.8	2.4	1.9	2.5	3.5	2.6
13	EH - 1507	16.2	15.8	13.9	15.3	2.2	2.3	3.0	2.5	2.0	2.3	3.0	2.4
14	EH - 1508	16.3	16.1	13.4	15.3	2.5	2.3	2.8	2.6	2.3	2.3	3.3	2.7
15	EH - 1509	15.0	16.3	11.1	14.1	3.0	2.8	2.5	2.8	2.3	2.3	3.3	2.7
16	EH - 1510	14.3	16.7	11.5	14.1	2.3	2.5	2.7	2.5	2.2	2.2	3.3	2.6
17	EH - 1511	14.9	15.8	13.4	14.7	2.0	2.8	2.5	2.4	1.7	2.7	3.0	2.4
18	EH - 1512	15.9	17.0	14.4	15.8	2.1	2.0	2.8	2.3	1.8	2.2	3.7	2.6
19	EH - 1513	14.9	15.4	13.0	14.4	2.3	2.2	3.2	2.6	2.7	2.2	3.7	2.8
20	EH - 1514	15.9	16.2	14.4	15.5	2.3	2.3	3.0	2.6	2.1	2.3	3.5	2.6
21	EH - 1515	16.2	16.1	11.9	14.7	2.3	2.3	2.7	2.4	1.9	2.3	3.5	2.6
22	EH - 1516	15.4	16.1	11.1	14.2	2.2	2.0	3.0	2.4	1.9	2.3	3.8	2.7
23	EH - 1517	16.3	15.7	14.2	15.4	2.1	2.2	3.2	2.5	2.2	2.3	3.7	2.7
24	EH - 1518	14.9	16.5	13.5	15.0	2.0	2.5	3.3	2.6	2.6	2.5	3.8	3.0
25	EH - 1519	14.6	16.1	14.1	14.9	2.6	2.3	3.0	2.6	2.4	2.3	3.7	2.8
CHECKS:													
26	PUSA EARLY	15.6	16.1	13.0	14.9	2.5	2.5	2.7	2.5	2.3	2.5	3.3	2.7
HYBRID MAKKA-2													
27	NAJOT	15.4	16.1	15.7	15.7	2.3	2.0	3.0	2.4	2.0	2.2	3.3	2.5
28	MAHI-KANCHAN	14.8	15.6	12.3	14.2	2.7	2.2	3.0	2.6	2.6	2.3	3.5	2.8
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													
0.4 0.6 1.1 0.7 13.8 10.4 13.8 0.5 18.0 11.6 11.8 0.6													
.000 .000 .000 .003 .003 .000 .187 .020 .615 .098													

TABLE NO. 64 (CONT.)

Sl NO	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 5 MEAN		
		UDAI	BANS	GODH	UDAI	BANS	GODH	UDAI	BANS	GODH			
1	EH - 1495	1.7	2.3	3.3	2.5	2.0	2.3	3.0	2.4	188	173	177	180
2	EH - 1496	1.8	2.7	3.0	2.5	2.1	2.3	3.0	2.5	192	173	178	181
3	EH - 1497	1.8	2.3	3.3	2.5	2.2	2.2	2.8	2.4	213	153	171	179
4	EH - 1498	1.8	2.3	3.5	2.6	2.2	2.2	3.0	2.4	212	182	180	191
5	EH - 1499	1.5	2.5	3.2	2.4	2.0	2.5	2.7	2.4	190	182	179	184
6	EH - 1500	2.0	2.0	2.3	2.1	2.0	2.3	2.7	2.3	173	182	181	179
7	EH - 1501	1.6	2.5	3.2	2.4	1.8	2.2	3.0	2.3	200	180	173	184
8	EH - 1502	1.7	2.2	3.3	2.4	2.0	2.2	3.2	2.4	197	190	177	188
9	EH - 1503	1.6	2.0	2.8	2.2	1.8	2.3	2.7	2.3	207	195	178	193
10	EH - 1504	2.0	2.3	3.7	2.7	2.2	2.3	2.8	2.4	187	182	173	180
11	EH - 1505	2.6	2.5	3.3	2.8	2.5	2.2	2.5	2.4	200	217	177	198
12	EH - 1506	2.2	2.0	3.5	2.6	2.2	2.5	2.8	2.5	160	180	171	170
13	EH - 1507	1.8	2.3	3.0	2.4	2.0	2.5	2.7	2.4	218	195	174	196
14	EH - 1508	2.2	2.5	3.3	2.7	2.2	2.3	3.0	2.5	213	195	180	196
15	EH - 1509	2.0	2.5	3.2	2.6	2.9	2.5	2.8	2.7	165	188	168	174
16	EH - 1510	1.8	2.3	3.3	2.5	2.1	2.5	3.0	2.5	187	167	173	175
17	EH - 1511	1.7	2.5	3.0	2.4	2.1	2.7	2.7	2.5	180	170	179	176
18	EH - 1512	1.9	2.0	3.5	2.5	2.3	2.2	3.0	2.5	187	195	167	183
19	EH - 1513	2.0	2.5	3.5	2.7	2.3	2.0	3.0	2.4	205	158	168	177
20	EH - 1514	1.7	2.2	3.5	2.5	2.5	2.3	2.8	2.5	197	207	176	193
21	EH - 1515	1.8	2.2	3.3	2.4	2.2	2.3	3.0	2.5	213	163	172	183
22	EH - 1516	2.0	1.8	3.7	2.5	2.2	2.2	2.7	2.4	187	190	175	184
23	EH - 1517	1.8	2.3	3.7	2.6	2.1	2.5	3.0	2.5	177	197	175	183
24	EH - 1518	1.7	2.5	3.7	2.6	2.0	2.5	3.2	2.6	163	198	175	179
25	EH - 1519	2.3	2.3	3.7	2.8	2.3	2.2	3.0	2.5	163	180	170	171
CHECKS:													
26	PUSA EARLY	2.2	2.3	3.3	2.6	2.2	2.3	3.0	2.5	185	187	174	182
HYBRID MAKKA-2													
27	NAJOT	1.7	2.3	3.3	2.5	2.7	2.5	2.8	2.7	233	152	172	186
28	MAHI-KANCHAN	2.5	2.3	3.5	2.8	2.7	2.3	2.8	2.6	203	198	175	192
MEAN LOCATION													
C.D. AT 5%		0.4	0.4	0.7	0.5	0.4	0.4	0.4	0.4	31.3	13.5	11.4	18.7
C.V. %		12.9	10.5	13.0	-	12.2	10.3	8.1	-	9.9	4.5	4.0	-
F (Prob)		.000	.011	.138	-	.001	.207	.073	-	.001	.000	.597	-

TABLE NO. 64 (CONT.)

Sl No	PEDIGREE	EAR HEIGHT (cm)			EAR No. / PLANT			STAND AT HARVEST			ZN 5 MEAN
		UDAI	BANS	GODH	UDAI	BANS	GODH	UDAI	BANS	GODH	
1	E H - 1495	107	83	78	1.00	0.99	0.75	31	30	36	32
2	E H - 1496	97	85	79	1.00	1.00	0.62	35	26	30	30
3	E H - 1497	115	82	73	1.01	0.97	0.92	34	28	28	30
4	E H - 1498	110	82	78	1.03	1.02	0.75	36	36	28	33
5	E H - 1499	110	92	81	1.00	1.05	0.80	39	26	30	31
6	E H - 1500	90	92	85	1.01	0.77	0.76	39	30	39	36
7	E H - 1501	103	82	76	1.01	1.06	0.75	36	21	39	32
8	E H - 1502	113	102	80	0.98	0.92	0.70	39	29	39	36
9	E H - 1503	113	92	84	1.03	0.93	0.75	36	26	34	32
10	E H - 1504	100	90	75	1.02	0.96	0.77	37	23	31	31
11	E H - 1505	107	118	83	1.02	0.88	0.74	40	22	27	30
12	E H - 1506	87	92	73	1.00	0.96	0.80	36	26	24	28
13	E H - 1507	120	100	78	1.04	0.92	0.76	38	17	23	26
14	E H - 1508	123	97	82	1.03	1.09	0.65	38	18	35	30
15	E H - 1509	87	90	71	1.02	1.16	0.69	36	25	36	32
16	E H - 1510	90	75	75	1.02	1.05	0.66	35	19	31	28
17	E H - 1511	113	75	84	1.02	1.01	0.96	32	21	29	27
18	E H - 1512	103	90	69	1.05	1.08	0.80	33	25	30	29
19	E H - 1513	113	58	69	1.04	1.06	0.81	28	25	36	30
20	E H - 1514	120	105	80	1.06	1.06	0.85	21	35	38	31
21	E H - 1515	107	72	76	1.03	0.98	0.80	32	19	38	30
22	E H - 1516	83	102	78	1.02	1.10	0.87	31	25	30	29
23	E H - 1517	100	95	82	1.04	0.92	0.66	39	21	40	33
24	E H - 1518	85	92	74	1.02	1.02	0.65	39	25	30	31
25	E H - 1519	93	80	72	1.03	1.23	0.64	33	29	29	30
CHECKS:											
26	PUSA EARLY HYBRID MAKKA-2	93	103	74	1.01	1.09	0.82	37	25	15	26
27	NAJOT	132	78	73	1.04	0.93	0.61	32	24	23	26
28	MAHI-KANCHAN	113	87	79	1.02	1.01	0.87	37	28	31	32
MEAN LOCATION											
C.D. AT 5%		27.1	11.3	11.4	16.6	-	-	4.9	5.9	9.3	6.7
C.V. %		15.8	7.8	9.0	-	-	-	8.5	14.3	18.0	-
F (Prob)		.036	.000	.207	-	-	-	.000	.000	.000	-

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

TABLE NO. 65
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, PRATAPGARH, CHHINDIWARA IN TRIAL NO. TR514 DURING KHARIF (2003).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE MAHI DHAWAL PRAT				ZN 5 MEAN			
		UDAI	R	PRAT	R	CHHI	R	CHHI	R				
1	1546	7250	1	6758	9	8056	7	7355	4	87.12	11.64	7.08	26.43
2	1547	3129	15	4587	19	3552	12	4929	19	1.60	-	-	-
3	1548	3937	13	6881	18	6894	23	4156	22	2.92	13.63	-	1.77
4	1549	3988	12	6482	11	6509	17	5920	11	3.61	7.09	-	-
5	1550	4014	12	8757	3	8526	3	5668	13	-	44.67	13.33	15.01
6	1551	2786	19	8386	3	8028	8	6690	6	-	38.53	6.70	13.63
7	1552	3415	11	4116	22	5059	20	4433	20	6.43	-	-	-
8	1553	4123	24	2541	24	3054	24	2363	24	-	-	-	-
9	1554	1493	24	5310	17	5245	19	5038	18	17.71	-	-	-
10	1555	4561	23	6650	10	6123	18	5082	17	-	9.86	-	-
11	1556	2473	17	3900	23	3787	22	3801	23	-	-	-	-
12	1557	3718	7	6209	7	7408	10	6526	7	-	-	-	-
13	1558	5203	8	6209	14	8100	16	6299	10	34.30	15.12	7.66	12.20
14	1559	4587	8	6417	12	7355	11	6436	19	18.39	2.58	-	8.28
15	1560	5535	4	10232	1	8927	5	8190	1	42.86	6.02	-	10.64
16	1561	5412	6	8167	4	8252	5	8411	2	39.68	69.04	18.66	40.80
17	1562	3503	18	7657	6	8417	4	7411	8	50.10	34.92	11.88	27.41
18	3138	5557	3	4506	20	6630	16	6526	15	-	26.50	-	12.19
19	3135	4349	10	5454	16	6937	14	5580	14	43.42	-	-	-
20	3141	3874	16	6053	15	7523	9	5817	12	12.24	-	-	-
21	MAHI DHAWAL	3412	20	6244	13	7030	13	5562	16	-	3.15	-	-
22	NAVJOI	5426	5	7768	15	8979	1	7391	3	-	28.34	-	-
23	KH-510	3976	14	4339	21	4663	21	4326	21	40.05	-	19.35	27.06
24	MAHI KANCHAN	4231	14	6223	21	6755	21	5736	21	2.63	-	-	-
	MEAN YIELD	32											
	MEAN STAND	1264		556		1486		1102					
	C.D. AT 5%	18.19		5.44		10.63		-					
	C.V. %	6.00		0.00		0.00		-					
	F. (Prob)	6.00		6.00		5.60		-					
	PLOT SIZE												
	AGRONOMY DATA:												
	SOWING DATE (2003)	3-07		30-06		27-06		-					
	HARVEST DATE (2003)	14-10		11-10		30-10		-					
	IRRIGATION NOS												
	FERTILIZER APPLIED	N 100		-		120		-					
		P 60		-		60		-					
		K -		-		40		-					

TABLE NO. 65 (CONT.)

SL NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN		CHHI	MEAN	DAYS TO 50% POLLEN SHED			ZN 5 MEAN	
		UDAI	PRAT			UDAI	PRAT	CHHI		
1	E H - 1546	82.33	55.74	72.77	70.01	50.3	50.0	52.5	50.9	
2	E H - 1547	-	5.71	51.62	13.93	50.3	50.0	52.5	50.9	
3	E H - 1548	-	14.79	-	-	49.3	50.3	49.5	49.7	
4	E H - 1549	0.29	58.51	47.84	36.84	51.0	51.3	51.0	51.1	
5	E H - 1550	0.96	49.39	39.58	31.03	51.7	52.7	52.5	52.3	
6	E H - 1551	-	101.81	82.85	54.64	52.0	52.3	56.0	53.4	
7	E H - 1552	-	93.26	72.15	52.78	51.7	51.0	56.0	52.9	
8	E H - 1553	3.70	-	8.48	2.47	48.3	49.3	48.5	48.7	
9	E H - 1554	-	-	-	-	49.7	48.7	51.0	49.8	
10	E H - 1555	14.70	22.37	12.47	16.46	49.3	48.7	49.0	49.0	
11	E H - 1556	-	53.25	31.31	17.47	49.0	49.3	49.0	49.1	
12	E H - 1557	-	-	-	-	49.7	49.3	49.0	49.3	
13	E H - 1558	30.86	60.59	58.86	50.86	52.0	52.3	56.0	53.4	
14	E H - 1559	15.36	43.10	73.70	45.59	52.3	52.7	56.0	53.7	
15	E H - 1560	39.20	47.89	57.73	48.76	52.3	50.0	56.0	52.8	
16	E H - 1561	36.10	135.81	91.44	89.32	52.3	51.7	55.5	53.2	
17	E H - 1562	46.26	88.21	76.96	71.32	52.3	51.7	56.0	53.3	
18	E C - 3138	-	76.47	80.51	50.85	50.7	49.7	54.5	51.6	
19	E C - 3135	39.75	3.84	42.17	28.61	53.7	54.0	57.0	54.9	
20	E C - 3141	9.36	25.69	48.76	28.97	52.7	52.7	55.0	53.4	
CHECKS:										
21	MAHI DHAWAL	-	39.50	61.34	34.46	53.0	53.3	57.5	54.6	
22	NAVJOT	-	43.89	50.77	28.56	51.0	51.3	52.0	51.4	
23	KH- 510	36.46	79.04	92.56	70.85	52.3	52.0	56.5	53.6	
24	MAHI KANCHAN	-	-	-	-	48.3	49.0	50.5	49.3	
MEAN LOCATION										
C.D. AT 5% =										
C.V. % =										
P (Prob) =										
						1.0	1.0	1.5	1.2	-
						1.2	1.1	1.3	-	-
						.000	.000	.000	.000	-

TABLE NO. 65 (CONT.)

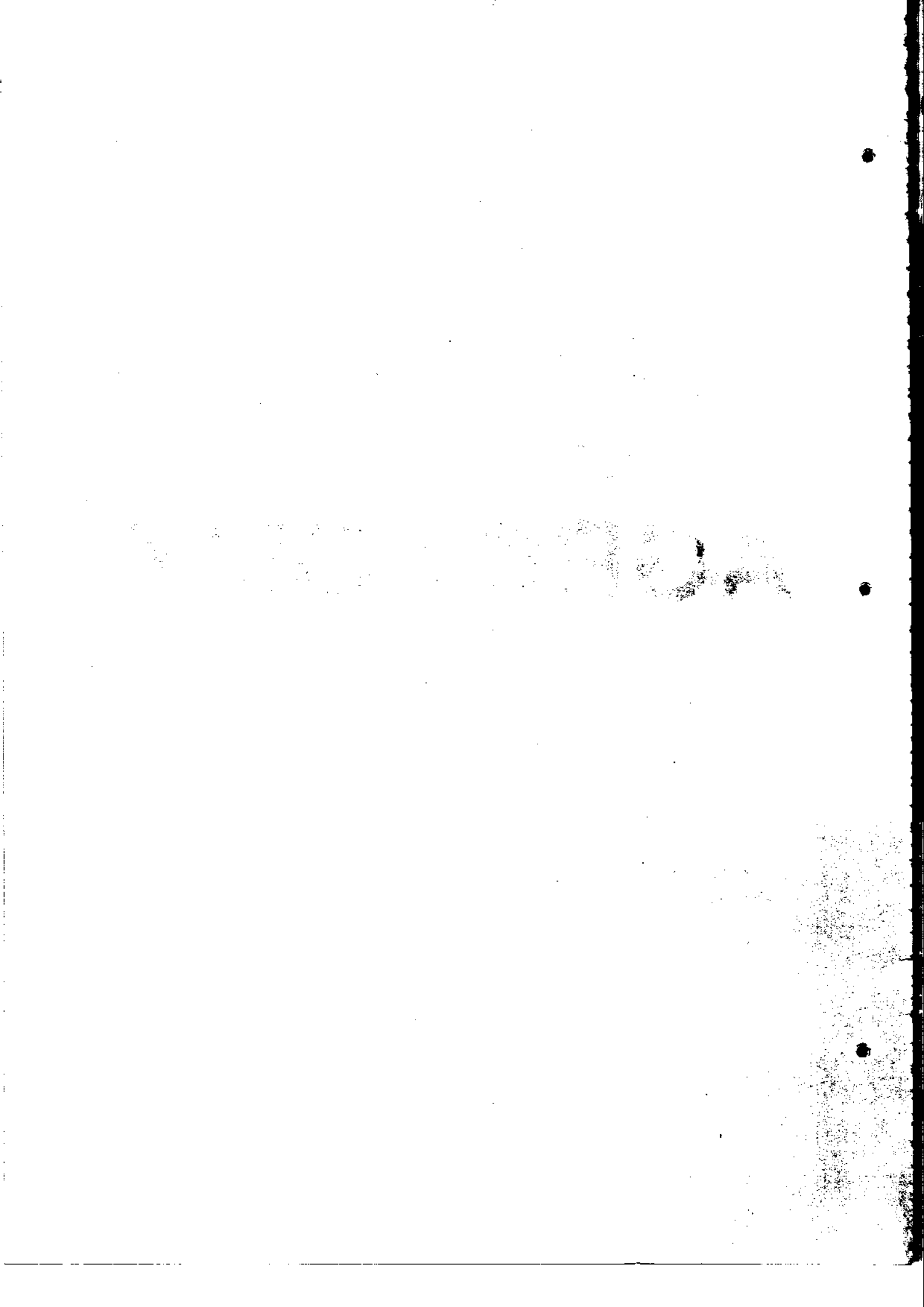
SI NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	E H - 1546	2.2	1.0	1.6	1.8	1.5	1.7	2.2	1.5	1.8	2.3	2.0	2.2
2	E H - 1547	2.8	1.0	1.9	3.0	2.0	2.5	2.3	1.5	1.9	2.7	2.0	2.3
3	E H - 1548	2.7	1.0	1.8	3.2	3.0	3.1	3.0	2.0	2.5	2.7	2.0	2.3
4	E H - 1549	2.8	1.0	1.9	2.8	2.0	2.4	2.8	1.0	1.9	2.8	1.5	2.2
5	E H - 1550	2.0	1.0	1.5	2.8	2.0	2.4	2.5	1.5	2.0	2.3	1.5	1.9
6	E H - 1551	2.5	1.0	1.8	2.8	2.0	2.4	2.3	1.5	1.9	2.5	1.5	2.0
7	E H - 1552	2.7	1.0	1.8	2.7	1.5	2.1	2.5	1.5	2.0	3.0	2.0	2.5
8	E H - 1553	3.0	1.0	2.0	3.0	2.0	2.5	3.3	1.0	2.2	2.0	2.0	2.0
9	E H - 1554	3.2	1.5	2.3	4.3	3.0	3.7	2.7	2.0	2.3	2.5	2.0	2.3
10	E H - 1555	2.7	1.0	1.8	2.6	2.0	2.3	3.3	2.0	2.7	2.4	2.0	2.2
11	E H - 1556	3.3	1.0	2.2	3.5	2.0	2.8	2.8	1.5	2.2	3.1	2.0	2.5
12	E H - 1557	2.8	1.5	2.2	3.2	2.5	2.8	2.7	2.0	2.3	2.7	2.0	2.3
13	E H - 1558	2.5	1.0	1.8	2.5	1.5	2.0	2.2	1.5	1.8	2.2	2.0	2.1
14	E H - 1559	2.2	1.0	1.6	3.2	1.0	2.1	3.0	1.0	2.0	2.3	1.5	1.9
15	E H - 1560	2.3	1.0	1.7	2.0	1.0	1.5	2.0	1.0	1.5	2.3	2.0	2.2
16	E H - 1561	2.0	1.0	1.5	2.5	1.5	2.0	2.2	1.0	1.6	2.3	2.0	2.2
17	E H - 1562	2.0	1.0	1.5	2.0	1.5	1.8	2.2	1.0	1.6	2.0	1.5	1.8
18	E C - 3138	2.9	1.5	2.2	2.8	1.0	1.9	2.5	1.5	2.0	3.1	2.0	2.5
19	E C - 3135	2.5	1.0	1.8	2.2	2.0	2.1	2.8	1.5	2.2	2.5	2.0	2.3
20	E C - 3141	2.5	1.0	1.8	3.2	2.0	2.6	2.3	1.0	1.7	3.2	2.0	2.6
CHECKS:													
21	MAHI DHAWAL	2.7	1.0	1.8	3.2	1.5	2.3	3.3	1.5	2.4	3.3	2.0	2.7
22	NAVJOT	2.3	1.0	1.7	3.5	1.5	2.5	2.3	1.0	1.7	2.7	2.0	2.3
23	KH- 510	2.3	1.0	1.7	2.0	1.5	1.8	2.0	1.0	1.5	2.2	2.0	2.1
24	MAHI KANCHAN	2.5	1.5	2.0	3.2	1.5	2.3	2.3	2.0	2.2	2.7	2.0	2.3
MEAN LOCATION													
C.D. AT 5% =		0.4	0.6	0.5	0.7	1.0	0.8	0.5	0.9	0.7	0.4	0.7	0.5
C.V. % =		9.0	27.2	-	14.4	25.8	-	10.8	30.3	-	8.6	16.7	-
F (Prob)		.000	.667	-	.000	.012	-	.000	.144	-	.000	.644	-

TABLE NO. 65 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			EAR NO. / PLANT		STAND AT HARVEST			
		UDAI	PRAT	CHHI	ZN 5 MEAN	UDAI	PRAT	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	
1	E H - 1546	200	218	225	214	93	102	110	102	0.94	32	31	31
2	E H - 1547	183	192	208	194	108	102	85	98	0.92	32	35	34
3	E H - 1548	190	205	205	200	97	100	90	96	1.03	30	33	31
4	E H - 1549	207	217	218	214	123	98	105	109	0.91	30	35	32
5	E H - 1550	190	195	188	191	90	87	88	88	0.95	27	39	33
6	E H - 1551	210	235	218	221	113	120	113	115	0.97	38	33	36
7	E H - 1552	190	197	230	206	93	88	113	98	0.95	33	36	35
8	E H - 1553	170	182	200	184	90	87	93	90	0.92	27	40	34
9	E H - 1554	173	185	175	178	83	87	80	83	0.90	30	42	36
10	E H - 1555	193	213	210	206	103	107	100	103	0.93	28	34	31
11	E H - 1556	212	202	208	207	113	103	108	108	0.91	36	42	39
12	E H - 1557	190	207	178	191	90	100	83	91	1.06	25	34	30
13	E H - 1558	192	195	223	203	93	102	110	102	0.96	40	39	39
14	E H - 1559	200	208	230	213	98	98	98	98	0.96	32	34	33
15	E H - 1560	207	223	193	208	107	117	98	107	0.96	35	37	36
16	E H - 1561	200	207	183	196	100	105	93	99	0.94	29	39	34
17	E H - 1562	177	185	205	189	83	90	103	92	1.00	35	37	36
18	E C - 3138	200	203	225	209	93	98	113	101	0.97	31	33	32
19	E C - 3135	222	240	215	226	120	132	128	126	0.95	32	33	32
20	E C - 3141	213	223	215	217	117	120	110	116	1.00	34	37	35
CHECKS:													
21	MAHI DHAWAL	198	212	205	205	100	98	115	104	1.01	35	37	36
22	NAVJOT	197	205	208	203	100	93	113	102	0.95	32	39	36
23	KH- 510	187	188	223	199	90	92	110	97	0.92	40	40	40
24	MAHI KANCHAN	197	198	203	199	93	102	108	101	0.96	32	33	32
MEAN LOCATION													
C.D. AT 5%		14.6	8.4	25.6	16.2	11.2	5.9	29.8	15.6	-	3.6	8.3	5.9
C.V. %		4.5	2.5	6.0	-	6.8	3.5	14.1	-	-	6.7	11.1	-
F (Prob)		.000	.000	.003	-	.000	.000	.219	-	-	.000	.288	-

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

ACRONYMY



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Table 1. Relative performance of pre release germplasm of Full Maturity at Different levels of Nitrogen during kharif 2003 in Zone II

Main Plot	Treatments	Grain Yield (kg/ha)			
		Ludhiana	Delhi	Kanpur	Karnal
N 60	F 9572 A	4744.54	3066.67	5444.44	3700.00
	PRO - 311	4422.12	3955.56	5750.00	3933.33
	BIO - 9681	4186.51	3555.56	5111.11	4333.33
	PARBHAT	4434.52	3511.11	5055.56	4766.67
	GANGA - 11	3668.15	3244.44	6194.44	4200.00
N 120	F 9572 A	6800.60	4133.33	5305.56	6066.67
	PRO - 311	5538.19	4844.44	5500.00	6266.67
	BIO - 9681	5553.08	4755.56	5027.78	6766.67
	PARBHAT	5081.85	4577.78	5555.56	7100.00
	GANGA - 11	4613.10	4311.11	5694.44	6966.67
N 180	F 9572 A	7673.61	4800.00	5555.56	6500.00
	PRO - 311	6520.34	5244.44	5527.78	6900.00
	BIO - 9681	6071.43	5155.56	6138.89	7800.00
	PARBHAT	5585.32	5022.22	6222.22	8200.00
	GANGA - 11	5252.98	4844.44	6638.89	7633.33

Location Mean	5343.09	4334.81	5648.15	6075.56
C.D.(5%) A Bj-A Bk	894.22	170.80	346.54	451.33
C.D.(5%) A Bk-A Bk	1110.85	163.03	351.57	430.54
F(5%)	n.s.	s	s	n.s.

N 60	4291.17	3466.67	5511.11	4186.67
N 120	5517.36	4524.44	5416.67	6633.33
N 180	6220.73	5013.33	6016.67	7406.67

C.D.(5%) A Aj	787.95	58.74	170.81	154.47
C.V.(%) Error A	14.55	1.34	2.98	2.51
F(5%)	s	s	s	s

F 9572 A	6406.25	4000.00	5435.19	5422.22
PRO - 311	5493.55	4681.48	5592.59	5700.00
BIO - 9681	5270.34	4488.89	5425.93	6300.00
PARBHAT	5033.90	4370.37	5611.11	6688.89
GANGA - 11	4511.41	4133.33	6175.93	6266.67

C.D.(5%) B Bj	516.28	98.61	200.07	260.57
C.V.(%) Error B	9.93	2.34	3.64	4.41
F(5%)	s	s	s	s

cont.....

A - 2

Main Pld	Treatments	Plant Stand (000/ha)				Molsture %
		Ludhiana	Delhi	Kanpur	Karnal	Karnal
N 60	F 9572 A	71.68	66.67	54.17	51.67	56.00
	PRO - 311	74.16	66.67	51.67	53.00	56.33
	BIO - 9681	69.69	66.22	50.83	52.33	49.67
	PARBHAT	73.91	66.22	50.83	53.00	57.00
	GANGA - 11	69.20	66.67	51.39	52.00	59.00
N 120	F 9572 A	74.65	66.67	51.67	54.00	56.00
	PRO - 311	73.16	66.22	52.50	52.00	57.00
	BIO - 9681	74.40	66.22	51.94	52.33	50.00
	PARBHAT	69.94	66.67	51.11	52.67	57.00
	GANGA - 11	70.44	66.22	55.28	52.67	59.33
N 180	F 9572 A	73.41	66.22	53.61	53.00	55.67
	PRO - 311	70.68	66.67	51.94	52.67	55.33
	BIO - 9681	73.41	66.67	53.61	53.67	49.33
	PARBHAT	71.43	66.67	52.22	53.33	58.00
	GANGA - 11	70.19	66.67	55.28	52.00	59.00

Location Mean	72.02	66.49	52.54	52.69	55.64
C.D.(5%) AiBj-AiBk	5.43	0.79	4.97	1.65	0.79
C.D.(5%) AiBk-AjBk	5.94	0.98	5.72	1.78	0.73
F(5%)	n.s.	n.s.	n.s.	n.s.	s

N 60	71.73	66.49	51.78	52.40	55.60
N 120	72.52	66.40	52.50	52.73	55.87
N 180	71.83	66.58	53.33	52.93	55.47

C.D.(5%) Ai-Aj	3.50	0.70	3.68	1.02	0.15
C.V.(%) Error A	4.79	1.04	6.92	1.92	0.27
F(5%)	n.s.	n.s.	n.s.	n.s.	s

F 9572 A	73.25	66.52	53.15	52.69	55.89
PRO - 311	72.67	66.52	52.04	52.56	56.22
BIO - 9681	72.50	66.37	52.13	52.78	49.67
PARBHAT	71.76	66.52	51.39	53.00	57.33
GANGA - 11	69.94	66.52	53.98	52.22	59.11

C.D.(5%) Bi-Bj	3.14	0.45	2.87	0.95	0.46
C.V.(%) Error B	4.48	0.70	5.61	1.86	0.85
F(5%)	n.s.	n.s.	n.s.	n.s.	s

cont.....

A - 3

Main Plc	Treatments	Days to 50% Silking			No. of cob (000/ha)		
		Ludhiana	Kanpur	Karnal	Ludhiana	Delhi	Kanpur
N 60	F 9572 A	56.00	56.67	61.67	73.16	60.44	52.50
	PRO - 311	57.00	57.00	62.33	74.16	63.56	50.00
	BIO - 9681	54.00	58.33	63.67	68.20	61.33	48.61
	PARSHAT	57.00	58.67	62.00	67.21	60.44	48.89
	GANGA - 11	57.00	56.67	62.33	60.76	60.44	49.72
N 120	F 9572 A	55.00	56.33	60.00	73.16	61.78	50.00
	PRO - 311	56.00	58.00	61.67	71.18	65.33	51.11
	BIO - 9681	53.00	56.33	60.00	74.40	64.44	50.00
	PARBHAT	55.33	55.67	60.33	67.21	62.67	50.00
	GANGA - 11	54.00	56.67	60.67	61.26	61.78	53.33
N 180	F 9572 A	54.33	56.33	60.00	73.66	62.22	52.22
	PRO - 311	54.00	57.00	61.00	70.68	66.22	50.83
	BIO - 9681	52.67	55.67	59.67	70.19	64.44	55.00
	PARBHAT	53.67	57.33	60.33	66.96	64.00	50.83
	GANGA - 11	52.33	57.33	60.67	68.70	63.11	53.61

Location Mean	54.76	56.93	61.09	69.39	62.81	51.11
C.D.(5%) A/Bj-A/Bk	1.52	5.02	3.87	8.32	0.96	4.97
C.D.(5%) A/Bk-A/Bk	1.43	6.92	5.69	8.52	1.00	6.13
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	56.20	57.47	62.40	68.70	61.24	49.94
N 120	54.67	56.60	60.53	69.44	63.20	50.89
N 180	53.40	56.73	60.33	70.04	64.00	52.50

C.D.(5%) A/Aj	0.44	5.37	4.60	4.27	0.53	4.32
C.V.(%) Error A	0.79	9.31	7.42	6.07	0.84	8.33
F(5%)	s	n.s.	n.s.	n.s.	s	n.s.

F 9572 A	55.11	56.44	60.56	73.33	61.48	51.57
PRO - 311	55.67	57.33	61.67	72.01	65.04	50.65
BIO - 9681	53.22	56.78	61.11	70.93	63.41	51.20
PARBHAT	55.33	57.22	60.89	67.13	62.37	49.91
GANGA - 11	54.44	56.89	61.22	63.57	61.78	52.22

C.D.(5%) B/Bj	0.88	2.90	2.23	4.80	0.56	2.87
C.V.(%) Error B	1.65	5.23	3.76	7.11	0.91	5.77
F(5%)	s	n.s.	n.s.	s	s	n.s.

cont.....

A - 4

Main Plot	Treatments	Plant Height (cm)				Days to 50% Pollen Shed	Stover Weight	Ear Height
		Ludhiana	Delhi	Kanpur	Karnal			
			Delhi	Kanpur		Delhi	Kanpur	
N 60	F 9572 A	176.67	117.67	131.67	61.67	6133.33	59.33	
	PRO - 311	181.67	120.67	136.00	62.33	7111.11	58.33	
	BIO - 9681	180.00	128.00	132.33	63.67	6977.78	56.67	
	PARBHAT	181.67	118.33	130.33	62.00	7288.89	55.67	
	GANGA - 11	185.00	136.67	134.67	62.33	6133.33	58.00	
N 120	F 9572 A	186.87	125.33	131.67	60.00	7422.22	59.67	
	PRO - 311	193.33	128.00	132.00	61.67	8400.00	58.00	
	BIO - 9681	191.67	134.67	128.33	60.00	8711.11	58.67	
	PARBHAT	200.00	127.00	131.00	60.33	8222.22	55.67	
	GANGA - 11	196.67	141.67	135.67	60.67	7244.44	59.00	
N 180	F 9572 A	195.00	128.67	131.00	60.00	8686.67	59.33	
	PRO - 311	200.00	136.00	134.67	61.00	9066.67	59.00	
	BIO - 9681	206.67	141.00	134.33	59.67	9111.11	57.67	
	PARBHAT	210.00	129.67	131.67	60.33	8755.56	61.00	
	GANGA - 11	205.00	149.00	134.33	60.67	8844.44	61.67	

Location Mean	192.67	130.82	132.64	61.09	7872.59	58.51
C.D.(5%) A Bj-A Bk	9.40	1.71	5.05	3.87	291.53	5.67
C.D.(5%) A Bk-A Bk	11.20	2.30	4.76	5.69	306.15	6.56
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

N 60	181.00	124.27	133.00	62.40	6728.89	57.60
N 120	193.67	131.33	131.73	60.53	8000.00	58.20
N 180	203.33	136.87	133.20	60.33	8888.89	59.73

C.D.(5%) Ai-Aj	7.57	1.75	1.56	4.60	164.91	4.27
C.V.(%) Error A	3.88	1.32	1.16	7.42	2.07	7.19
F(5%)	s	s	n.s.	n.s.	s	n.s.

F 9572 A	186.11	123.89	131.44	60.56	7407.41	59.44
PRO - 311	191.67	128.22	134.22	61.67	8192.59	58.44
BIO - 9681	192.78	134.56	131.67	61.11	8266.67	57.67
PARBHAT	187.22	125.00	131.00	60.89	8088.89	57.44
GANGA - 11	195.56	142.44	134.89	61.22	7407.41	59.56

C.D.(5%) Bi-Bj	5.43	0.99	2.91	2.23	168.32	3.27
C.V.(%) Error B	2.90	0.78	2.26	3.76	2.20	5.75
F(5%)	s	s	s	n.s.	s	n.s.

A - 5

Table 2. Relative performance of pre release germplasm of Full Maturity at Different levels of Nitrogen during kharif 2003 in Zone III

Main Plot	Treatment	Grain Yield (000/ha)				
		Dholi	Jashi	Bahraich	Varanasi	Ambikapur
N 60	PMZ - 234	3883.33	2293.33	1122.22	1518.00	4685.19
	JKMH - 1090	3350.00	2566.67	871.11	2295.67	3666.67
	F - 1562	1633.33	2360.00	937.78	1851.00	5740.74
	PRO - 311	2516.67	2813.33	886.67	2999.33	4833.33
	BIO - 9681	2666.67	2690.00	1008.89	2925.33	4888.89
	PARBHAT	1866.67	2810.00	886.67	1740.00	3259.26
N 120	GANGA - 11	1966.67	2156.67	860.00	1740.00	3037.04
	PMZ - 234	4466.67	3900.00	1575.56	4147.33	5296.30
	JKMH - 1090	3616.67	5343.33	1373.33	4295.67	4851.85
	F - 1562	1850.00	4270.00	1191.11	3925.33	5844.44
	PRO - 311	3666.67	4653.33	1293.33	4851.33	5240.74
	BIO - 9681	3633.33	4736.67	1460.00	3962.33	5111.11
N 180	PARBHAT	2283.33	3416.67	1300.00	2999.33	4129.63
	GANGA - 11	2183.33	3863.33	1382.22	2666.00	3611.11
	PMZ - 234	6150.00	4386.67	2155.56	4740.33	5759.26
	JKMH - 1090	4566.67	5900.00	1802.22	4481.00	5111.11
	F - 1562	2483.33	4956.67	1537.78	5370.00	6129.63
	PRO - 311	4233.33	5533.33	1537.78	3555.00	5388.89
	BIO - 9681	3333.33	5333.33	2017.78	5110.67	5296.30
	PARBHAT	2666.67	4456.67	1633.33	3184.67	4518.52
	GANGA - 11	2850.00	3583.33	1791.11	3036.67	4037.04

Location Mean	3136.51	3905.87	1353.54	3399.76	4787.48
C.D.(5%) AIBj-AIBk	685.76	689.85	153.25	790.69	977.84
C.D.(5%) AIBk-AjBk	816.17	719.01	157.92	864.34	1189.01
F(5%)	s	n.s.	s	s	n.s.

N 60	2554.76	2527.14	939.05	2152.76	4301.59
N 120	3100.00	4311.90	1367.94	3835.33	4883.60
N 180	3754.76	4878.57	1753.65	4211.19	5177.25

C.D.(5%) Ai-Aj	518.69	341.14	71.67	473.80	791.43
C.V.(%) Error A	25.29	10.19	6.18	16.27	19.30
F(5%)	s	n.s.	s	s	n.s.

PMZ - 234	4833.33	3526.67	1617.78	3468.56	5246.91
JKMH - 1090	3644.44	4603.33	1282.22	3690.78	4543.21
F - 1562	1988.89	3662.22	1222.22	3715.44	5938.27
PRO - 311	3472.22	4333.33	1239.26	3801.89	5154.32
BIO - 9681	3211.11	4253.33	1495.56	3999.44	5098.77
PARBHAT	2272.22	3561.11	1273.33	2641.33	3969.14
GANGA - 11	2333.33	3201.11	1344.44	2480.89	3561.73

C.D.(5%) Bi-Bj	395.93	398.28	88.48	456.51	564.56
C.V.(%) Error B	15.41	10.66	6.83	14.04	12.33
F(5%)	s	s	s	s	s

Cont.....

A - 6

Main Plot	Treatment	Plant Stand (000/ha)			
		Dholi	Jashi	Baharaich	Varanasi
N 60	PMZ - 234	43.67	65.57	23.78	44.22
	JKMH - 1090	43.33	60.57	23.33	44.22
	F - 1562	39.67	60.30	23.33	41.33
	PRO - 311	46.50	63.07	23.33	44.22
	BIO - 9681	49.83	66.10	23.33	46.00
	PARBHAT	45.17	65.57	22.89	41.56
	GANGA - 11	44.33	58.87	23.11	41.78
N 120	PMZ - 234	47.83	64.47	23.56	48.89
	JKMH - 1090	44.83	61.97	23.78	48.67
	F - 1562	37.00	62.50	23.33	48.67
	PRO - 311	48.50	62.47	23.33	48.89
	BIO - 9681	50.50	59.13	23.78	50.00
	PARBHAT	48.00	64.17	23.56	47.78
	GANGA - 11	41.83	61.13	24.00	47.11
N 180	PMZ - 234	47.67	62.23	24.44	49.56
	JKMH - 1090	48.17	64.17	23.78	48.67
	F - 1562	40.00	58.90	23.11	50.00
	PRO - 311	49.33	62.50	23.78	48.00
	BIO - 9681	46.50	60.57	24.44	48.44
	PARBHAT	43.17	65.83	24.00	47.56
	GANGA - 11	44.33	55.87	23.33	47.78

Location Mean	45.25	62.19	23.59	46.83
C.D.(5%) A B A Bk	5.68	6.50	0.95	2.23
C.D.(5%) A Bk-A Bk	6.09	7.24	1.01	2.52
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60	44.64	62.86	23.30	43.33
N 120	45.50	62.26	23.62	48.57
N 180	45.60	61.44	23.84	48.57

C.D.(5%) A A J	3.11	4.15	0.52	1.49
C.V.(%) Error A	10.49	7.78	2.58	3.72
F(5%)	n.s.	n.s.	n.s.	s

PMZ - 234	46.39	64.09	23.93	47.56
JKMH - 1090	45.44	62.23	23.63	47.19
F - 1562	38.89	60.57	23.26	46.67
PRO - 311	48.11	62.68	23.48	47.04
BIO - 9681	48.94	61.93	23.85	48.15
PARBHAT	45.44	65.19	23.48	45.63
GANGA - 11	43.50	58.62	23.48	45.56

C.D.(5%) B B J	3.28	3.75	0.55	1.29
C.V.(%) Error B	8.85	6.31	2.42	2.87
F(5%)	s	s	n.s.	s

Cont.....

A - 7

Main Plot	Treatment	Days to 50% Silking				
		Dholi	Jashi	Baharaich	Varanasi	Ambikapur
N 60	PMZ - 234	50.00	53.67	61.00	58.33	58.00
	JKMH - 1090	49.75	53.00	60.00	56.00	63.33
	F - 1562	49.50	55.00	61.00	58.33	60.67
	PRO - 311	49.50	38.00	59.00	55.00	57.33
	BIO - 9681	47.25	53.33	61.00	52.67	55.67
	PARBHAT	48.25	55.00	59.33	59.00	58.67
	GANGA - 11	49.25	55.67	61.00	62.00	59.00
N 120	PMZ - 234	53.00	50.33	59.00	56.00	58.00
	JKMH - 1090	53.25	49.33	61.00	53.33	63.33
	F - 1562	52.25	51.33	59.00	54.33	56.67
	PRO - 311	50.00	46.00	61.33	52.33	56.00
	BIO - 9681	47.00	48.00	62.00	52.33	55.67
	PARBHAT	49.00	51.33	61.00	55.33	59.33
	GANGA - 11	50.50	51.67	62.00	55.67	60.00
N 180	PMZ - 234	51.00	47.33	60.00	53.33	58.67
	JKMH - 1090	51.50	47.67	62.00	54.33	63.67
	F - 1562	49.50	48.67	59.00	52.67	59.67
	PRO - 311	49.50	47.00	61.00	53.33	56.33
	BIO - 9681	48.25	44.00	61.00	53.00	55.33
	PARBHAT	48.00	47.67	60.00	54.33	59.33
	GANGA - 11	49.00	48.33	61.00	54.67	62.33

Location Mean	49.77	49.54	60.56	55.06	58.90
C.D.(5%) AIBJ-AIBk	3.13	9.40	1.82	2.31	3.49
C.D.(5%) AIBK-AJBk	3.71	10.08	1.83	2.46	3.35
F(5%)	n.s.	n.s.	s	s	n.s.

N 60	49.07	51.67	60.33	57.33	58.95
N 120	50.71	49.71	60.76	54.19	58.43
N 180	49.54	47.24	60.57	53.67	59.33

C.D.(5%) Ai-Aj	2.34	5.24	0.74	1.24	0.93
C.V.(%) Error A	7.18	12.35	1.43	2.62	1.83
F(5%)	n.s.	n.s.	n.s.	s	n.s.

PMZ - 234	51.33	50.44	60.00	55.89	58.22
JKMH - 1090	51.50	50.00	61.00	54.56	63.44
F - 1562	50.42	51.67	59.67	55.11	59.00
PRO - 311	49.67	43.00	60.44	53.56	56.56
BIO - 9681	47.50	48.44	61.33	52.67	55.56
PARBHAT	48.42	51.33	60.11	56.22	59.11
GANGA - 11	49.58	51.89	61.33	57.44	60.44

C.D.(5%) BI-BJ	1.81	5.43	1.05	1.34	2.01
C.V.(%) Error B	4.43	11.46	1.81	2.54	3.57
F(5%)	s	s	s	s	s

Cont.....

A - 8

Main Plot	Treatment	Plant Height (cm)				
		Dholi	Jashi	Baharaich	Varanasi	Ambikapur
N 60	PMZ - 234	159.50	172.03	170.00	217.00	246.17
	JKMH - 1090	157.85	178.67	168.33	207.67	220.67
	F - 1562	160.25	166.63	175.00	194.33	228.25
	PRO - 311	161.50	175.80	180.00	214.67	228.25
	BIO - 9681	150.30	170.07	182.33	230.33	233.08
	PARBHAT	140.20	185.30	176.33	211.33	244.25
	GANGA - 11	151.80	179.27	175.00	221.33	233.58
N 120	PMZ - 234	160.45	186.27	198.33	237.67	247.00
	JKMH - 1090	163.95	185.63	190.00	230.00	221.00
	F - 1562	154.95	193.87	191.67	221.00	221.17
	PRO - 311	167.40	188.37	186.67	227.33	220.58
	BIO - 9681	147.70	192.23	205.00	238.33	249.42
	PARBHAT	141.20	200.70	200.00	240.67	252.17
	GANGA - 11	138.95	194.00	205.00	232.67	237.25
N 180	PMZ - 234	157.70	200.57	206.67	241.67	225.50
	JKMH - 1090	173.95	196.60	201.67	233.67	232.75
	F - 1562	167.10	196.80	201.67	242.00	218.42
	PRO - 311	178.15	186.63	206.67	235.00	214.50
	BIO - 9681	144.45	198.90	205.00	248.33	234.25
	PARBHAT	143.05	204.13	203.33	249.00	256.67
	GANGA - 11	152.30	200.50	203.33	237.33	243.75

Location Mean	155.84	188.24	192.00	229.11	233.75
C.D.(5%) A Bj-A Bk	12.26	13.58	10.36	13.07	17.10
C.D.(5%) A Bk-A Bj	17.19	12.95	9.89	15.07	23.82
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	154.49	175.40	175.29	213.81	233.46
N 120	153.51	191.58	196.67	232.52	235.51
N 180	159.53	197.73	204.05	241.00	232.26

C.D.(5%) A A j	13.02	3.22	2.50	9.25	18.19
C.V.(%) Error A	12.78	2.00	1.52	4.71	9.08
F(5%)	n.s.	s	s	s	n.s.

PMZ - 234	159.22	186.29	191.67	232.11	239.56
JKMH - 1090	165.25	186.97	186.67	223.78	224.61
F - 1562	160.77	185.77	189.44	219.11	222.61
PRO - 311	169.02	183.60	191.11	225.67	221.11
BIO - 9681	147.48	187.07	197.44	239.00	238.92
PARBHAT	141.48	196.71	193.22	233.67	251.03
GANGA - 11	147.68	191.26	194.44	230.44	238.19

C.D.(5%) B B j	7.08	7.84	5.98	7.54	9.87
C.V.(%) Error B	5.54	4.35	3.26	3.44	4.42
F(5%)	s	s	s	s	s

Cont.....

A - 9

Main Plot	Treatment	No. of Ears (000/ha)				
		Dholi	Jashi	Baharai	Varanasi	Ambikapur
N 60	PMZ - 234	45.17	49.43	24.44	43.33	36.85
	JKMH - 1090	44.50	46.13	24.00	42.22	30.00
	F - 1562	43.50	46.40	24.00	40.89	45.56
	PRO - 311	46.00	46.40	24.00	44.00	46.30
	BIO - 9681	43.67	35.53	24.00	44.22	44.81
	PARBHAT	40.83	46.10	23.78	40.00	35.19
	GANGA - 11	42.33	34.97	23.78	40.00	28.52
N 120	PMZ - 234	49.33	55.30	24.22	48.89	37.59
	JKMH - 1090	46.33	55.60	24.67	47.11	34.26
	F - 1562	32.33	59.17	24.22	48.89	48.70
	PRO - 311	47.50	59.17	24.00	48.22	43.15
	BIO - 9681	53.67	43.07	24.22	49.56	37.04
	PARBHAT	46.33	54.17	24.00	46.67	35.93
	GANGA - 11	41.00	40.27	24.44	45.33	29.63
N 180	PMZ - 234	50.83	57.50	25.11	49.78	39.26
	JKMH - 1090	49.67	63.57	24.44	48.22	30.93
	F - 1562	38.83	56.93	24.00	50.89	42.22
	PRO - 311	46.17	60.00	24.44	47.11	40.93
	BIO - 9681	44.50	50.00	25.11	49.56	43.15
	PARBHAT	38.67	55.00	24.44	45.78	38.70
	GANGA - 11	42.33	46.97	24.22	47.11	34.26

Location Mean	44.45	50.56	24.26	46.08	38.24
C.D.(5%) AIBj-AjBk	9.38	8.23	0.98	2.84	8.43
C.D.(5%) AIBk-AjBk	9.31	8.57	1.05	3.12	8.72
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	43.71	43.57	24.00	42.10	38.17
N 120	45.21	52.39	24.25	47.81	38.04
N 180	44.43	55.71	24.54	48.35	38.49

C.D.(5%) Ai-Aj	3.39	4.05	0.55	1.74	4.03
C.V.(%) Error A	11.65	9.34	2.64	4.41	12.31
F(5%)	n.s.	s	n.s.	s	n.s.

PMZ - 234	48.44	54.08	24.59	47.33	37.90
JKMH - 1090	46.83	55.10	24.37	45.85	31.73
F - 1562	38.22	54.17	24.07	46.89	45.49
PRO - 311	46.56	55.19	24.15	46.44	43.46
BIO - 9681	47.28	42.87	24.44	47.78	41.67
PARBHAT	41.94	51.76	24.07	44.15	36.60
GANGA - 11	41.89	40.73	24.15	44.15	30.80

C.D.(5%) Bi-Bj	5.42	4.75	0.57	1.64	4.87
C.V.(%) Error B	14.87	9.83	2.44	3.72	13.30
F(5%)	s	s	n.s.	s	s

A - 10

Table 3. Relative performance of pre release germplasm of Full Maturity at Different levels of Nitrogen during kharif 2003 In Zone IV

Main Plot	Treatments	Grain Yield (kg/ha)		Plant Stand (000/ha)		Days to 50% Silking
		Karim	Kolha	Karim	Kolha	Kolha
N 60	BIO - 92327	4857.656	7735.56	58.89	57.33	56.67
	PRO - 311	6197.368	6928.89	69.17	58.22	56.00
	BIO - 9681	4897.129	8368.89	73.75	58.22	56.67
	PARBHAT	4588.517	5448.89	71.94	55.78	59.00
	GANGA - 11	3825.359	5333.33	68.33	58.22	59.00
N 120	BIO - 92327	5856.459	8613.33	70.28	55.56	56.67
	PRO - 311	6709.33	9086.67	66.25	58.00	57.67
	BIO - 9681	5613.636	8480.00	64.03	54.00	56.33
	PARBHAT	5332.536	7104.44	61.53	63.11	58.00
	GANGA - 11	5172.249	6244.44	54.72	56.44	59.00
N 180	BIO - 92327	6472.488	8613.33	72.78	59.56	56.33
	PRO - 311	7122.01	9531.11	68.47	54.44	58.33
	BIO - 9681	6505.981	9244.44	65.00	48.22	55.67
	PARBHAT	6026.316	7504.44	67.64	54.22	57.67
	GANGA - 11	4929.426	7111.11	56.94	55.11	59.00

Location Mean	5607.097	7689.93	65.98	56.30	57.47
C.D.(5%) A B A Bk	1026.048	416.90	2.30	4.82	2.99
C.D.(5%) A Bk-A Bk	1470.926	586.04	2.45	5.33	2.97
F(5%)	n.s.	s	s	s	n.s.

N 60	4873.206	6763.11	68.42	57.16	57.47
N 120	5736.842	7905.78	63.36	57.42	57.53
N 180	6211.244	8400.89	66.17	54.31	57.40

C.D.(5%) A A	1157.62	460.40	1.36	3.21	1.33
C.V.(%) Error A	26.68	5.91	2.66	5.63	2.29
F(5%)	n.s.	s	s	n.s.	n.s.

BIO - 92327	5728.87	8320.74	67.31	57.48	56.56
PRO - 311	6676.24	8515.56	67.96	56.89	57.33
BIO - 9681	5672.25	8697.78	67.59	52.81	56.22
PARBHAT	5315.79	6685.93	67.04	57.70	58.22
GANGA - 11	4642.34	6229.63	60.00	56.59	59.00

C.D.(5%) B B	592.39	240.70	1.33	2.78	1.72
C.V.(%) Error B	12.75	3.22	2.42	5.08	3.08
F(5%)	s	s	s	s	s

Cont.....

A - 11

Main Plot	Treatments	Plant Height (cm)		No of Ears(000/ha)	
		Karim	Kolha	Karim	Kolha
N 60	BIO - 92327	223.75	189.67	61.94	53.78
	PRO - 311	217.25	190.33	75.56	53.11
	BIO - 9681	231.25	197.67	62.92	52.44
	PARBHAT	216.25	205.00	58.89	48.67
	GANGA - 11	217.00	189.33	45.83	48.00
N 120	BIO - 92327	205.50	196.67	75.42	52.89
	PRO - 311	212.50	211.00	71.81	51.33
	BIO - 9681	210.50	197.00	66.11	50.67
	PARBHAT	249.00	210.00	59.86	58.00
	GANGA - 11	215.75	223.33	52.50	45.56
N 180	BIO - 92327	218.00	201.67	68.75	56.44
	PRO - 311	202.00	216.67	74.58	49.11
	BIO - 9681	212.25	205.00	69.58	51.33
	PARBHAT	235.00	216.00	66.11	48.89
	GANGA - 11	238.50	222.67	52.92	43.33

Location Mean	220.30	205.47	64.19	50.90
C.D.(5%) A B - A Bk	6.26	8.26	8.39	3.24
C.D.(5%) A Bk - A Bk	6.51	8.33	9.45	3.21
F(5%)	s	s	n.s.	s

N 60	221.10	196.40	61.03	51.20
N 120	218.65	207.60	65.14	51.69
N 180	221.15	212.40	66.39	49.82

C.D.(5%) A - A j	3.36	3.96	5.81	1.41
C.V.(%) Error A	1.97	1.90	11.69	2.73
F(5%)	n.s.	s	n.s.	s

BIO - 92327	215.75	196.00	68.70	54.37
PRO - 311	210.58	206.00	73.98	51.19
BIO - 9681	218.00	199.89	66.20	51.48
PARBHAT	233.42	210.33	61.62	51.85
GANGA - 11	223.75	215.11	50.42	45.63

C.D.(5%) B - B j	3.61	4.77	4.84	1.87
C.V.(%) Error B	1.98	2.39	9.11	3.78
F(5%)	s	s	s	s

A - 12

Table 4. Relative performance of pre release germplasm of Full Maturity at Different levels of Nitrogen during kharif 2003 in Zone V

Main Plot	Treatments	Grain Yield kg/ha			Plant Stand (000/ha)		
		Udaipur	Bans	Godhra	Udaipur	Bans	Godhra
N 60	BIO - 92327	4428.33	4296.67	2584.26	62.00	62.97	63.66
	BISCO - 851	3611.67	4207.00	3040.97	64.00	59.48	63.43
	NECH - 110	4206.67	4952.00	2481.02	63.50	60.98	70.14
	X - 2006	4736.67	5218.00	1936.34	63.67	64.99	63.89
	PRO - 311	4511.67	5090.00	2145.14	63.33	63.31	63.89
	BIO - 9681	4111.67	4898.00	1800.93	63.17	56.66	60.19
	PARBHAT	2506.67	3390.00	1751.85	62.67	54.57	55.56
	GANGA - 11	2505.00	2999.33	1513.19	61.33	53.82	53.70
N 120	BIO - 92327	5001.67	4749.00	3349.07	62.00	62.73	64.12
	BISCO - 851	4105.00	5164.00	4268.98	63.17	62.65	65.28
	NECH - 110	4706.67	6612.00	3202.31	63.33	64.15	72.22
	X - 2006	5301.67	7136.00	2575.93	63.33	63.92	66.20
	PRO - 311	5006.67	6769.00	3244.44	63.50	64.23	68.06
	BIO - 9681	4703.33	5211.33	2104.40	63.50	57.32	64.58
	PARBHAT	2908.33	3565.00	1913.19	63.00	55.98	56.71
	GANGA - 11	2920.00	3881.00	2085.65	63.50	56.65	56.71
N 180	BIO - 92327	5211.67	5022.00	4434.72	61.33	62.40	67.82
	BISCO - 851	4165.00	6079.00	4753.47	62.67	59.77	66.90
	NECH - 110	4778.67	6037.67	4290.05	62.67	63.21	73.61
	X - 2006	5381.67	5921.00	3574.54	62.83	63.89	70.14
	PRO - 311	5213.33	6591.00	4238.89	62.67	65.28	74.54
	BIO - 9681	5876.67	5438.00	2850.46	63.50	56.27	65.28
	PARBHAT	3101.67	3801.00	2284.95	62.00	54.43	59.49
	GANGA - 11	3113.33	4056.00	2383.80	60.83	55.40	58.56
Location Mean		4254.74	5045.17	2867.02	62.81	60.21	64.36
C.D.(5%) AiBj-AiBk		521.15	116.38	433.91	4.75	7.78	6.50
C.V.(5%) AiBk-AjBk		581.94	12.33	486.79	5.13	7.44	6.49
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.
N 60		3827.29	4381.38	2156.71	62.96	59.60	61.81
N 120		4331.67	5385.92	2843.00	63.17	60.95	64.24
N 180		4605.25	5368.21	3601.36	62.31	60.06	67.04
C.D.(5%) Ai-Aj		322.03	597.40	277.12	2.59	1.60	2.36
C.V.(%) Error A		12.37	14.78	12.06	6.75	3.31	4.58
F(5%)		s	s	s	n.s.	n.s.	s
BIO - 92327		4880.56	4689.22	3456.02	61.78	62.70	65.20
BISCO - 851		3960.56	5150.00	4021.14	63.28	60.63	65.20
NECH - 110		4584.00	5867.22	3324.46	63.17	62.78	71.99
X - 2006		5140.00	6091.67	2695.60	63.28	64.27	66.74
PRO - 311		4910.56	6150.00	3209.49	63.17	64.27	66.83
BIO - 9681		4897.22	5182.44	2251.93	63.39	56.75	63.35
PARBHAT		2838.89	3585.33	1983.33	62.56	54.99	57.25
GANGA - 11		2846.11	3645.44	1984.21	61.89	55.29	56.33
C.D.(5%) Bi-Bj		300.89	671.92	250.52	2.74	4.49	3.75
C.V.(%) Error B		8.67	13.99	9.18	5.35	7.84	6.12
F(5%)		s	s	s	n.s.	s	s

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A - 13

Main Plot	Treatments	Days to 50% Silking			Plant Height		
		Udalpur	Bans	Godhra	Udalpur	Bans	Godhra
N 60	BIO - 92327	55.00	52.00	62.33	229.25	196.05	141.67
	BISCO - 851	56.25	54.67	63.33	220.50	185.87	131.33
	NECH - 110	56.25	54.33	63.67	232.00	203.81	113.67
	X - 2006	53.00	52.33	63.00	219.00	203.50	123.67
	PRO - 311	54.75	54.00	64.33	215.00	184.25	99.00
	BIO - 9681	54.00	50.67	62.67	214.00	197.11	131.00
	PARBHAT	56.25	51.33	63.67	226.00	205.50	126.33
	GANGA - 11	56.75	53.67	64.67	228.50	181.71	136.00
N 120	BIO - 92327	56.00	50.00	61.00	235.00	199.15	162.67
	BISCO - 851	57.00	53.33	61.00	225.00	205.82	156.33
	NECH - 110	57.00	53.00	62.33	235.50	218.40	133.33
	X - 2006	54.25	50.67	61.67	225.00	230.76	138.00
	PRO - 311	56.00	53.33	62.33	220.25	194.40	128.00
	BIO - 9681	55.00	50.00	61.33	219.00	202.75	160.67
	PARBHAT	57.25	50.67	61.67	231.50	221.05	148.00
	GANGA - 11	57.25	51.33	63.33	235.00	212.95	159.00
N 180	BIO - 92327	56.25	49.33	59.67	234.00	206.45	174.33
	BISCO - 851	57.25	53.00	59.67	226.00	200.05	165.33
	NECH - 110	57.25	52.00	60.67	233.00	232.14	161.67
	X - 2006	54.50	50.33	60.33	225.00	217.67	152.33
	PRO - 311	56.25	53.33	60.33	222.00	211.39	148.00
	BIO - 9681	55.25	49.67	59.67	223.75	227.47	171.33
	PARBHAT	57.25	50.33	60.33	231.25	233.82	167.67
	GANGA - 11	57.5	51.33	61.67	237.25	217.48	173.00
Location Mean	55.98	51.86	61.86	226.78	207.90	145.93	
C.D.(5%) AiBj-AiBk	1.02	2.17	0.96	36.46	29.06	10.97	
C.D.(5%) AiBk-AjBk	5.41	2.36	1.00	39.35	27.83	10.95	
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	

N 60	55.28	52.88	63.46	223.03	194.73	125.33
N 120	56.22	51.54	61.83	228.28	210.66	148.25
N 180	56.44	51.17	60.29	229.03	218.31	164.21
C.D.(5%) Ai-Aj	5.33	1.24	0.44	19.90	6.20	3.97
C.V.(%) Error A	15.56	2.98	0.89	14.34	3.72	3.39
F(5%)	n.s.	s	s	n.s.	s	s

BIO - 92327	55.75	50.44	61.00	232.75	200.55	159.56
BISCO - 851	56.83	53.67	61.33	223.83	197.25	151.00
NECH - 110	56.83	53.11	62.22	233.50	218.12	136.22
X - 2006	53.92	51.11	61.67	223.00	217.31	138.00
PRO - 311	55.67	53.56	62.33	219.08	196.68	125.00
BIO - 9681	54.75	50.11	61.22	218.92	209.11	154.33
PARBHAT	56.92	50.78	61.89	228.58	220.12	147.33
GANGA - 11	57.17	52.11	63.22	233.58	204.05	156.00

C.D.(5%) Bi-Bj	0.59	1.25	0.55	21.05	16.78	6.33
C.V.(%) Error B	1.29	2.54	0.94	11.37	8.48	4.56
F(5%)	s	s	s	n.s.	s	s

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A - 14

Main Plot	Treatment	% post flowering stock root affected plant/plot	% of Barren plants/plot	Fodder yield (kg/ha)
		Udaipur	Udaipur	Godhra
		N 60	BIO - 92327	2.67
	BISCO - 851	2.33	3.75	4398.15
	NECH - 110	0.33	3.50	3865.74
	X - 2006	0.00	0.00	3009.26
	PRO - 311	0.33	0.00	3379.63
	BIO - 9681	3.00	0.00	2868.06
	PARBHAT	2.17	0.50	2754.63
	GANGA - 11	3.33	2.00	2407.41
N 120	BIO - 92327	3.33	0.00	5300.93
	BISCO - 851	2.33	3.25	6087.96
	NECH - 110	0.33	3.25	4768.52
	X - 2006	0.17	0.25	3842.59
	PRO - 311	0.17	0.25	4861.11
	BIO - 9681	3.33	0.25	3310.19
	PARBHAT	2.50	1.00	2986.11
	GANGA - 11	3.50	2.00	3217.59
N 180	BIO - 92327	3.50	0.25	7083.33
	BISCO - 851	2.17	2.00	7129.63
	NECH - 110	0.33	3.75	6458.33
	X - 2006	0.00	0.25	5416.67
	PRO - 311	0.17	0.25	6342.59
	BIO - 9681	3.17	0.00	4259.26
	PARBHAT	2.67	0.50	3634.26
	GANGA - 11	3.33	1.25	3703.70
Location Mean		1.88	1.18	4379.73
C.D.(5%) AiBj-AiBk		0.86	0.99	601.68
C.D.(5%) AiBk-AjBk		0.84	1.08	692.40
F(5%)		n.s.	n.s.	s
N 60		1.77	1.22	3338.83
N 120		1.96	1.28	4296.88
N 180		1.92	1.03	5503.47
C.D.(5%) Ai-Aj		0.24	0.55	415.46
C.V.(%) Error A		20.56	7.60	11.84
F(5%)		n.s.	n.s.	s
BIO - 92327		3.17	0.08	5470.68
BISCO - 851		2.28	3.00	5871.91
NECH - 110		0.33	3.50	5030.86
X - 2006		0.06	0.17	4089.51
PRO - 311		0.22	0.17	4861.11
BIO - 9681		3.17	0.08	3479.17
PARBHAT		2.44	0.67	3125.00
GANGA - 11		3.39	1.75	3109.57
C.D.(5%) Bi-Bj		0.50	0.57	347.38
C.V.(%) Error B		32.35	5.90	8.33
F(5%)		s	s	s

A - 15

Table 5. Relative performance of pre release germplasm of Medium Maturity at Different levels of Nitrogen during kharif 2003 In Zone I

M. Plot	Treatments	Grain Yield (kg/ha)			Plant Stand (000/ha)	
		Bajaura	Jorhat	Almora	Bajaura	Jorhat
N60	BISCO - 3123	4150.00	2084.44	8024.69	80.67	57.33
	AAMH - 204	3336.67	2182.22	6820.99	77.33	58.00
	NECH - 113	4476.67	2480.00	6975.31	82.33	56.44
	X - 2003	4390.00	2422.22	7500.00	82.33	58.44
	KH - 510	3986.67	1502.22	6493.83	83.00	56.67
	NAVJOT	3403.33	2575.56	4537.04	79.00	57.78
N120	BISCO - 3123	4303.33	2737.78	7882.72	77.00	59.33
	AAMH - 204	3713.33	2617.78	6975.31	77.33	59.33
	NECH - 113	5323.33	2966.67	9259.26	78.33	60.89
	X - 2003	5110.00	3206.67	9283.95	82.00	60.67
	KH - 510	3946.67	2535.56	6296.30	74.67	58.44
	NAVJOT	3540.00	3024.44	5339.51	72.67	61.11
N180	BISCO - 3123	4416.67	2748.89	9691.36	79.00	59.78
	AAMH - 204	3883.33	2997.78	7407.41	82.00	59.56
	NECH - 113	5223.33	3084.44	8888.89	81.33	59.78
	X - 2003	5326.67	3157.78	8580.25	81.00	62.00
	KH - 510	4136.67	2842.22	7901.23	80.00	59.56
	NAVJOT	4570.00	3148.89	6419.75	81.67	61.11

Location Mean	4290.93	2684.20	7459.88	79.54	59.12
C.D.(5%) AiBj-AiBk	410.38	463.52	1187.01	5.32	2.61
C.D.(5%) AiBk-AjBk	396.81	590.04	1640.25	6.34	4.78
F(5%)	s	n.s.	s	n.s.	n.s.

N 40	3957.22	2207.78	6725.31	80.78	57.11
N 100	4322.78	2848.15	7506.17	77.00	59.96
N 160	4592.78	2996.67	8148.15	80.83	60.30

C.D.(5%) Ai-Aj	135.31	420.92	1257.05	4.18	4.20
C.V.(%) Error A	3.41	16.95	18.21	5.68	7.67
F(5%)	s	s	n.s.	n.s.	n.s.

BISCO - 3123	4290.00	2523.70	8532.92	78.89	58.81
AAMH - 204	3844.44	2599.26	7067.90	78.89	58.96
NECH - 113	5007.78	2843.70	8374.49	80.67	59.04
X - 2003	4942.22	2928.89	8454.73	81.78	59.70
KH - 510	4023.33	2293.33	6897.12	79.22	58.22
NAVJOT	3837.78	2916.30	5432.10	77.78	60.00

C.D.(5%) Bi-Bj	236.94	267.61	685.32	3.07	1.51
C.V.(%) Error B	5.74	10.36	9.54	4.01	2.65
F(5%)	s	s	s	n.s.	n.s.

Cont.....

A - 16

M. Plot	Treatments	Days to 50% Silking		Plant Height (cm)	
		Jorhat	Almora	Bajaura	Almora
N60	BISCO - 3123	53.00	65.00	169.67	266.67
	AAMH - 204	53.00	64.33	162.67	284.33
	NECH - 113	52.67	61.33	167.00	271.67
	X - 2003	53.00	61.33	154.67	269.67
	KH - 510	53.67	62.00	145.00	265.00
	NAVJOT	54.00	59.00	159.00	265.67
	N120	BISCO - 3123	54.33	64.67	175.00
AAMH - 204		54.00	64.33	153.33	288.00
NECH - 113		55.00	63.00	171.00	277.33
X - 2003		55.00	62.33	157.33	271.67
KH - 510		55.33	62.33	153.33	277.00
NAVJOT		54.67	59.67	163.67	270.33
N180		BISCO - 3123	54.00	64.00	174.67
	AAMH - 204	55.67	63.00	170.33	292.33
	NECH - 113	54.67	61.33	171.00	278.67
	X - 2003	54.33	62.67	160.67	275.00
	KH - 510	54.00	63.33	163.33	281.00
	NAVJOT	54.00	60.67	176.67	275.00

Location Mean	54.13	62.48	163.80	276.07
C.D.(5%) AiBj-AiBk	1.61	1.69	10.53	6.62
C.D.(5%) AiBk-AjBk	1.65	2.73	13.96	6.84
F(5%)	n.s.	n.s.	n.s.	n.s.

N 40	53.22	62.17	159.67	270.50
N 100	54.72	62.72	162.28	277.11
N 160	54.44	62.50	169.44	280.61

C.D.(5%) Ai-Aj	0.78	2.29	10.35	3.31
C.V.(%) Error A	1.56	3.96	6.83	1.30
F(5%)	s	n.s.	n.s.	s

BISCO - 3123	53.78	64.56	173.11	275.56
AAMH - 204	54.22	63.89	162.11	288.22
NECH - 113	54.11	61.89	169.67	275.89
X - 2003	54.11	62.11	157.56	272.11
KH - 510	54.33	62.56	153.89	274.33
NAVJOT	54.22	59.78	166.44	270.33

C.D.(5%) Bi-Bj	0.93	0.98	6.08	3.82
C.V.(%) Error B	1.78	1.62	3.86	1.44
F(5%)	n.s.	s	s	s

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A - 17

Main Plot	Treatments	No. of Barren Plants		No. of Ears (000/ha)		
		Jorhat	Almora	Bajaura	Jorhat	Almora
N60	BISCO - 3123	15.00	0.33	74.67	57.11	35.67
	AAMH - 204	16.67	6.33	70.67	58.00	29.67
	NECH - 113	15.33	2.67	81.33	57.56	33.33
	X - 2003	15.00	4.67	78.67	59.11	31.33
	KH - 510	16.67	1.33	82.00	56.00	34.67
	NAVJOT	13.00	6.33	77.00	58.22	29.67
N120	BISCO - 3123	13.00	0.67	73.00	58.67	35.33
	AAMH - 204	12.67	4.00	73.33	59.56	33.33
	NECH - 113	10.33	0.33	77.33	62.00	37.67
	X - 2003	9.67	0.33	77.33	64.00	35.67
	KH - 510	12.33	3.00	72.33	61.11	33.67
	NAVJOT	9.00	2.00	68.00	62.89	34.67
N180	BISCO - 3123	11.00	0.67	77.33	61.33	35.33
	AAMH - 204	10.33	3.00	76.67	62.67	32.67
	NECH - 113	9.00	0.33	79.67	62.89	38.33
	X - 2003	9.33	0.00	79.33	62.22	36.67
	KH - 510	10.00	1.33	76.33	60.89	35.33
	NAVJOT	9.33	0.33	80.67	63.56	36.00

Location Mean	12.09	2.09	76.43	60.43	34.39
C.D.(5%) AiBj-AiBk	4.03	2.02	5.17	2.92	4.33
C.D.(5%) AiBk-AjBk	6.86	2.61	6.49	5.04	6.95
F(5%)	n.s.	s	s	n.s.	n.s.

N 40	15.28	3.61	77.39	57.67	32.39
N 100	11.17	1.72	73.56	61.37	35.06
N 160	9.83	0.94	78.33	62.26	35.72

C.D.(5%) Ai-Aj	5.88	1.89	4.57	4.35	5.81
C.V.(%) Error A	52.55	97.44	6.46	7.78	18.25
F(5%)	n.s.	s	n.s.	n.s.	n.s.

BISCO - 3123	13.00	0.56	75.00	59.04	35.44
AAMH - 204	13.22	4.44	73.56	60.07	31.89
NECH - 113	11.56	1.11	79.44	60.81	36.44
X - 2003	11.33	1.67	78.44	61.78	34.56
KH - 510	13.00	1.89	76.89	59.33	34.56
NAVJOT	10.44	2.89	75.22	61.56	33.44

C.D.(5%) Bi-Bj	2.33	1.17	2.99	1.68	2.50
C.V.(%) Error B	20.00	57.87	4.06	2.89	7.55
F(5%)	n.s.	s	s	s	s

A - 19

Main Plot	Treatments	Days to 50% Silking		Plant Height (cm)		Ear Height (000/ha) (cm)	
		Ludhiana	Kanpur	Ludhiana	Kanpur	Ludhiana	Kanpur
N 60	HKH - 1206	56.00	52.67	131.67	130.33	51.09	51.94
	KAVERI - 235	56.67	54.33	171.67	128.67	67.46	52.78
	KH - 510	57.33	55.00	170.00	131.00	67.21	53.33
	NAVJOT	53.33	56.00	168.33	130.33	63.99	54.72
N 120	HKH - 1206	54.00	55.33	146.67	130.67	54.32	51.94
	KAVERI - 235	55.33	55.00	183.33	130.67	64.46	52.78
	KH - 510	54.67	54.00	176.67	130.00	66.72	54.17
	NAVJOT	53.33	56.33	180.00	128.33	69.94	54.17
N 180	HKH - 1206	53.33	54.67	161.67	131.00	52.08	53.61
	KAVERI - 235	55.00	55.00	198.33	131.67	71.68	53.61
	KH - 510	55.00	56.67	188.33	132.33	65.72	54.44
	NAVJOT	52.33	55.33	186.67	129.33	67.46	53.89

Location Mean	54.69	55.03	171.94	130.36	63.51	53.45
C.D.(5%) A/Bj-A/Bk	1.78	3.60	8.89	3.64	6.29	2.95
C.D.(5%) A/Bk-AjBk	1.88	3.51	9.11	3.35	6.24	2.78
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	55.83	54.50	160.42	130.08	62.44	53.19
N 120	54.33	55.17	171.67	129.92	63.86	53.26
N 180	53.92	55.42	183.75	131.08	64.24	53.89

C.D.(5%) Ai-Aj	1.10	1.66	5.00	1.17	3.11	1.14
C.V.(%) Error A	1.78	2.67	2.56	0.79	4.32	1.87
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.

HKH - 1206	54.44	54.22	146.67	130.67	52.50	52.50
KAVERI - 235	55.67	54.78	184.44	130.33	67.87	53.06
KH - 510	55.67	55.22	178.33	131.11	66.55	53.98
NAVJOT	53.00	55.89	178.33	129.33	67.13	54.26

C.D.(5%) Bi-Bj	1.03	2.08	5.13	2.10	3.63	1.70
C.V.(%) Error B	1.89	3.82	3.01	1.63	5.77	3.21
F(5%)	s	n.s.	s	n.s.	s	n.s.

Cont.....

A - 20

Main Plot	Treatments	No. of Barren Plants	Moisture %	Days to 50% Pollen Shed	
				Kanpur	Kamal
N 60	HKH - 1206	2.00	30.00	52.87	57.33
	KAVERI - 235	2.00	30.00	54.33	52.00
	KH - 510	2.33	29.67	55.00	52.67
	NAVJOT	2.00	30.33	56.00	51.33
N 120	HKH - 1206	2.00	29.33	55.33	57.67
	KAVERI - 235	2.00	30.00	55.00	53.00
	KH - 510	2.33	31.00	54.00	54.00
	NAVJOT	2.33	30.33	56.33	52.00
N 180	HKH - 1206	2.00	29.67	54.67	57.67
	KAVERI - 235	2.33	30.33	55.00	52.00
	KH - 510	2.33	30.33	56.67	53.00
	NAVJOT	2.00	29.67	55.33	52.00

Location Mean	2.14	30.06	55.03	53.72
C.D.(5%) A _i B _j -A _i B _k	0.89	1.41	3.60	0.84
C.D.(5%) A _i B _k -A _j B _k	1.12	1.56	3.51	0.91
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60	2.08	30.00	54.50	53.33
N 120	2.17	30.17	55.17	54.17
N 180	2.17	30.00	55.42	53.67

C.D.(5%) A _i -A _j	0.82	1.00	1.66	0.55
C.V.(%) Error A	33.97	2.93	2.67	0.90
F(5%)	n.s.	n.s.	n.s.	s

HKH - 1206	2.00	29.67	54.22	57.56
KAVERI - 235	2.11	30.11	54.78	52.33
KH - 510	2.33	30.33	55.22	53.22
NAVJOT	2.11	30.11	55.89	51.78

C.D.(5%) B _i -B _j	0.51	0.81	2.08	0.49
C.V.(%) Error B	24.23	2.74	3.82	0.91
F(5%)	n.s.	n.s.	n.s.	s

A - 21

Table 7. Relative performance of pre release germplasm of Medium Maturity at Different levels of Nitrogen during kharif 2003 in Zone III

Main Plot	Treatment	Grain yield(Kg/ha)				
		Dholi	Jashipur	Baharalch	Varanasi	Ambika
N 60	BISCO SURAJ	3583.33	2863.33	2611.11	1518.00	4148.15
	JKMH - 1080	3716.67	2258.67	2173.61	2295.67	4500.00
	X - 2003	3966.67	2723.33	3048.61	1851.00	3370.37
	KH - 510	3616.67	2286.67	2180.56	2999.33	2925.93
	NAVJOT	4316.67	2793.33	2152.78	2925.33	2444.44
N 120	BISCO SURAJ	3586.67	4713.33	4340.28	1740.00	4185.19
	JKMH - 1080	2150.00	3330.00	3708.33	1740.00	4462.96
	X - 2003	3633.33	3500.00	4909.72	4147.33	5333.33
	KH - 510	4000.00	4956.67	3972.22	4295.67	3944.44
	NAVJOT	4066.67	3890.00	3826.39	3925.33	3259.26
N 180	BISCO SURAJ	4566.67	5100.00	5916.67	4851.33	4703.70
	JKMH - 1080	4950.00	4086.67	5291.67	3962.33	4851.85
	X - 2003	3500.00	3736.67	6798.61	2999.33	5111.11
	KH - 510	2566.67	5086.67	5298.61	2666.00	4703.70
	NAVJOT	4183.33	4416.67	5222.22	4740.33	3944.44
Location Mean		3758.89	3716.00	4096.76	3110.47	4125.93
C.D.(5%) AiBj-AiBk		794.98	588.48	384.80	830.26	1112.68
C.D.(5%) AiBk-AjBk		840.42	645.13	403.63	874.93	1156.99
F(5%)		s	n.s.	n.s.	s	n.s.
N 60		3840.00	2584.67	2433.33	2317.87	3477.78
N 120		3483.33	4078.00	4151.39	3169.67	4237.04
N 180		3953.33	4485.33	5705.58	3843.87	4662.96
C.D.(5%) Ai-Aj		453.22	382.90	216.79	475.56	606.87
C.V.(%) Error A		15.58	12.52	5.22	15.08	14.51
F(5%)		n.s.	n.s.	s	s	s
BISCO SURAJ - 11		3905.56	4225.56	4289.35	2703.11	4345.68
JKMH - 1080		3605.56	3224.44	3724.54	2666.00	4604.94
X - 2003		3700.00	3320.00	4918.98	2999.22	4604.94
KH - 510		3394.44	4110.00	3817.13	3320.33	3858.02
NAVJOT		4188.89	3700.00	3733.80	3863.67	3216.05
C.D.(5%) Bi-Bj		458.98	339.76	222.16	479.35	642.40
C.V.(%) Error B		14.74	39.70	5.57	15.84	16.00
F(5%)		s	s	s	s	s

Cont.....

A - 22

Main Plot	Treatment	Plant Stand (000/ha)			
		Dholi	Jashipur	Bahraich	Varanasi
N 60	BISCO SURAJ	40.67	63.90	75.69	44.22
	JKMH - 1080	44.50	63.90	70.83	44.22
	X - 2003	48.00	65.83	77.08	41.33
	KH - 510	46.67	64.97	70.83	44.22
	NAVJOT	39.17	63.33	69.44	46.00
N 120	BISCO SURAJ	46.87	63.90	76.39	41.56
	JKMH - 1080	43.17	63.90	72.92	41.78
	X - 2003	42.83	65.27	75.00	48.89
	KH - 510	48.00	63.07	70.83	48.67
	NAVJOT	48.83	61.67	69.44	48.67
N 180	BISCO SURAJ	50.33	62.50	77.08	48.89
	JKMH - 1080	37.63	63.33	73.61	50.00
	X - 2003	44.33	64.43	77.08	47.78
	KH - 510	44.17	62.50	72.92	47.11
	NAVJOT	42.67	62.23	70.83	49.56

Location Mean	44.52	63.65	73.33	46.19
C.D.(5%) AiBj-AiBk	6.60	2.77	3.50	1.94
C.D.(5%) AiBk-AjBk	7.18	3.24	3.24	2.09
F(5%)	s	n.s.	n.s.	s

Fac A

N 60		43.80	64.39	72.78	44.00
N 120		45.90	63.56	72.92	45.91
N 180		43.87	63.00	74.31	48.67

C.D.(5%) Ai-Aj	4.14	2.14	0.86	1.21
C.V.(%) Error A	12.02	3.31	1.16	2.58
F(5%)	n.s.	n.s.	s	s

Fac B

BISCO SURAJ - 11		45.89	63.43	76.39	44.89
JKMH - 1080		41.83	63.71	72.45	45.33
X - 2003		45.06	65.18	76.39	46.00
KH - 510		46.28	63.51	71.53	46.67
NAVJOT		43.56	62.41	69.91	48.07

C.D.(5%) Bi-Bj	3.81	1.60	2.02	1.12
C.V.(%) Error B	10.33	2.58	2.83	2.49
F(5%)	n.s.	s	s	s

Cont.....

A - 23

Main Plot	Treatment	Days to 50% Silking				
		Dholi	Jashipur	Baharaich	Varanasi	Ambikapur
N 60	BISCO SURAJ	60.50	46.67	56.00	58.33	54.00
	JKMH - 1080	59.50	48.33	57.00	56.00	53.67
	X - 2003	58.75	49.00	56.00	58.33	55.00
	KH - 510	56.25	47.67	59.00	55.00	55.67
	NAVJOT	54.50	46.00	58.00	52.67	54.00
N 120	BISCO SURAJ	59.75	47.33	57.00	59.00	54.33
	JKMH - 1080	59.00	44.67	58.00	62.00	53.67
	X - 2003	60.50	45.67	57.00	56.00	55.67
	KH - 510	59.00	45.67	59.00	53.33	38.33
	NAVJOT	58.50	46.33	56.67	54.33	54.00
N 180	BISCO SURAJ	59.00	46.00	56.00	52.33	54.00
	JKMH - 1080	55.25	43.67	58.00	52.33	54.33
	X - 2003	56.25	44.67	57.00	55.33	55.33
	KH - 510	56.75	45.67	55.67	55.67	54.67
	NAVJOT	58.00	44.67	57.00	53.33	54.33

Location Mean	58.10	46.00	57.16	55.60	53.40
C.D.(5%) AIBj-AIBk	3.71	1.86	1.65	2.61	12.45
C.D.(5%) AIBk-AjBk	4.38	2.53	1.70	2.36	13.78
F(5%)	n.s.	n.s.	s	s	n.s.

N 60	57.90	47.13	57.20	56.07	54.47
N 120	59.35	45.93	57.53	56.93	51.20
N 180	57.05	44.93	56.73	53.80	54.53

C.D.(5%) Ai-Aj	2.90	1.94	0.86	0.37	8.33
C.V.(%) Error A	6.45	4.16	1.49	0.66	15.39
F(5%)	n.s.	n.s.	n.s.	s	n.s.

BISCO SURAJ - 11	59.75	46.67	56.33	56.56	54.11
JKMH - 1080	57.92	44.89	57.67	56.78	53.89
X - 2003	58.50	46.44	56.67	56.56	55.33
KH - 510	57.33	46.33	57.89	54.67	49.56
NAVJOT	57.00	45.67	57.22	53.44	54.11

C.D.(5%) Bi-Bj	2.14	1.07	0.95	1.51	7.19
C.V.(%) Error B	4.45	2.40	1.72	2.79	13.84
F(5%)	n.s.	s	s	s	n.s.

Cont.....

A - 24

Main Plot	Treatment	Plant Height (cm)				
		Dholl	Jashipur	Baharaich	Varanasi	Ambikapur
N 60	BISCO SURAJ	148.90	156.73	155.00	217.00	217.08
	JKMH - 1080	157.00	152.80	145.67	207.67	202.25
	X - 2003	162.65	169.00	155.67	194.33	208.08
	KH - 510	164.20	174.47	145.67	214.67	223.42
	NAVJOT	156.30	171.23	147.00	230.33	203.25
N 120	BISCO SURAJ	171.40	191.40	151.33	211.33	214.67
	JKMH - 1080	167.10	170.17	148.33	221.33	204.50
	X - 2003	153.10	182.63	155.33	237.67	215.42
	KH - 510	148.15	180.20	154.33	230.00	211.25
	NAVJOT	167.85	188.60	151.00	221.00	218.25
N 180	BISCO SURAJ	165.20	198.37	155.00	227.33	212.33
	JKMH - 1080	171.10	180.43	153.33	238.33	197.08
	X - 2003	176.55	196.13	157.00	240.67	218.25
	KH - 510	172.35	185.97	158.00	232.67	212.00
	NAVJOT	165.35	195.80	158.67	241.67	227.58

Location Mean	163.15	179.60	152.76	224.40	212.36
C.D.(5%) AiBj-AiBk	17.89	19.41	6.06	13.28	17.74
C.D.(5%) AiBk-AjBk	21.71	22.01	7.17	16.43	19.47
F(5%)	n.s.	n.s.	n.s.	s	n.s.

N 60	157.81	164.85	149.80	212.80	210.82
N 120	161.52	182.60	152.07	224.27	212.82
N 180	170.11	191.34	156.40	236.13	213.45

C.D.(5%) Ai-Aj	14.80	13.87	4.81	11.60	11.58
C.V.(%) Error A	11.73	7.62	3.10	5.10	5.38
F(5%)	n.s.	s	s	s	n.s.

BISCO SURAJ - 11	161.83	182.17	153.78	218.56	214.69
JKMH - 1080	165.07	167.80	149.11	222.44	201.28
X - 2003	164.10	182.59	156.00	224.22	213.92
KH - 510	161.57	180.21	152.67	225.78	215.56
NAVJOT	163.17	185.21	152.22	231.00	216.36

C.D.(5%) Bi-Bj	10.33	11.21	3.50	7.67	10.24
C.V.(%) Error B	7.64	6.41	2.35	3.51	4.96
F(5%)	n.s.	s	s	s	s

Cont.....

A - 25

Main Plot	Treatment	No of Ears (000/ha)				
		Dholi	Jashipur	Baharalch	Varanasi	Ambikapur
N 60	BISCO SURAJ	29.00	51.67	77.78	43.33	41.67
	JKMH - 1080	37.33	41.93	72.92	42.22	41.67
	X - 2003	37.17	49.43	78.47	40.89	36.67
	KH - 510	39.67	47.20	72.92	44.00	38.52
	NAVJOT	38.00	50.27	71.53	44.22	37.78
N 120	BISCO SURAJ	37.83	66.10	77.78	40.00	41.67
	JKMH - 1080	33.00	50.80	75.00	40.00	43.70
	X - 2003	33.00	58.90	78.47	48.89	37.22
	KH - 510	39.67	62.23	72.92	47.11	41.85
	NAVJOT	40.00	55.53	72.22	48.89	32.78
N 180	BISCO SURAJ	46.00	61.37	79.17	48.22	42.04
	JKMH - 1080	41.17	57.77	75.00	49.56	47.41
	X - 2003	37.83	58.07	79.86	46.67	40.19
	KH - 510	33.00	64.17	75.00	45.33	39.07
	NAVJOT	33.17	63.87	72.92	49.78	40.56

Location Mean	37.06	55.95	75.46	45.27	40.19
C.D.(5%) AIBj-AIBk	9.38	8.45	3.32	2.91	9.64
C.D.(5%) AIBk-AjBk	13.34	9.33	3.70	3.05	10.45
F(5%)	s	n.s.	n.s.	s	n.s.

N 60	36.23	48.10	74.72	42.93	39.26
N 120	36.70	58.71	75.28	44.98	39.44
N 180	38.23	61.05	76.39	47.91	41.85

C.D.(5%) Ai-Aj	10.44	5.61	2.27	1.64	6.06
C.V.(%) Error A	36.42	9.90	2.97	3.57	14.87
F(5%)	n.s.	s	n.s.	s	n.s.

BISCO SURAJ - 11	37.61	59.71	78.24	43.85	41.79
JKMH - 1080	37.17	50.17	74.31	43.93	44.26
X - 2003	36.00	55.47	78.94	45.48	38.02
KH - 510	37.44	57.87	73.61	45.48	39.81
NAVJOT	37.06	56.56	72.22	47.63	37.04

C.D.(5%) BI-Bj	5.42	4.88	1.92	1.68	5.57
C.V.(%) Error B	17.65	8.96	2.61	3.81	14.24
F(5%)	n.s.	s	s	s	n.s.

Cont.....

A - 26

Main Plot	Treatment	Barren Plants	Days to 50% tasseling
		Varanasi	Ambikapur
N 60	BISCO SURAJ	0.89	50.67
	JKMH - 1080	2.00	47.67
	X - 2003	0.44	52.33
	KH - 510	0.44	50.67
	NAVJOT	1.78	48.67
N 120	BISCO SURAJ	1.56	53.33
	JKMH - 1080	1.78	48.67
	X - 2003	0.67	51.00
	KH - 510	1.56	50.33
	NAVJOT	0.00	48.33
N 180	BISCO SURAJ	1.33	52.00
	JKMH - 1080	0.89	49.33
	X - 2003	1.33	51.33
	KH - 510	2.67	51.67
	NAVJOT	0.67	47.33

Location Mean	1.20	50.22
C.D.(5%) AiBj-AiBk	1.77	1.41
C.D.(5%) AiBk-AjBk	1.82	1.88
F(5%)	n.s.	s

N 60		1.11	50.00
N 120		1.11	50.33
N 180		1.38	50.33

C.D.(5%) Ai-Aj	0.92	1.42
C.V.(%) Error A	75.90	2.78
F(5%)	n.s.	n.s.

BISCO SURAJ - 11	1.26	52.00
JKMH - 1080	1.56	48.56
X - 2003	0.81	51.56
KH - 510	1.56	50.89
NAVJOT	0.81	48.11

C.D.(5%) Bi-Bj	1.02	0.81
C.V.(%) Error B	8.76	1.67
F(5%)	n.s.	s

A - 27

Table 8. Relative performance of pre release germplasm of Medium Maturity at Different levels of Nitrogen during Kharif 2003 in Zone IV

Main plot	Treatment	Grain Yield (Kg/ha)		Plant Stand (000/ha)	
		Karimnagar Kothapur		Karimnagar Kothapur	
N 60	KAVERI - 235	4901.73	6846.67	59.75	57.78
	KH - 510	5631.60	5866.67	59.14	50.44
	NAVJOT	4435.56	5315.56	55.43	54.67
N 120	KAVERI - 235	6838.52	9055.56	61.23	53.78
	KH - 510	5511.11	6071.11	62.59	57.78
	NAVJOT	4386.17	5835.56	57.41	57.78
N 180	KAVERI - 235	7279.01	9700.00	57.65	58.00
	KH - 510	7133.83	7128.89	61.48	54.67
	NAVJOT	5158.52	8448.89	58.40	52.89

Location Mean	5697.34	7140.99	59.23	55.31
C.D.(5%) AIBj-AiBk	1679.96	314.28	9.90	3.86
C.D.(5%) AIBk-AjBk	1757.35	309.71	9.15	3.45
F(5%)	n.s.	s	n.s.	s

N 60	4989.63	6009.63	58.11	54.30
N 120	5578.60	6987.41	60.41	56.44
N 180	6523.79	8425.93	59.18	55.19

C.D.(5%) Ai-Aj	1106.03	176.60	4.33	1.45
C.V.(%) Error A	19.43	1.89	7.32	2.00
F(5%)	s	s	n.s.	s

KAVERI - 235	6339.75	8534.07	59.55	56.52
KH - 510	6092.18	6355.56	61.07	54.30
NAVJOT	4660.08	6533.33	57.08	55.11

C.D.(5%) Bi-Bj	969.93	181.45	5.71	2.23
C.V.(%) Error B	19.85	2.47	11.24	3.92
F(5%)	s	s	n.s.	n.s.

Cont.....

A - 28

Main plot	Treatment	Plant Height (cm)		No. of Ears (000/ha)		Days to 50% silking
		Karim	Kolhapur	Karim	Kolhapur	Kolhapur
N 60	KAVERI - 235	189.25	182.33	54.94	54.22	55.00
	KH - 510	184.75	180.00	52.59	47.33	54.33
	NAVJOT	186.75	184.33	55.93	53.11	53.00
N 120	KAVERI - 235	206.50	193.33	57.65	49.33	55.33
	KH - 510	193.50	184.33	61.11	57.78	55.00
	NAVJOT	188.50	193.33	56.05	50.44	53.33
N 180	KAVERI - 235	200.50	197.00	52.10	48.89	54.67
	KH - 510	192.50	187.00	57.28	48.89	54.00
	NAVJOT	194.50	198.33	56.05	50.44	53.67

Location Mean	192.97	188.89	55.97	51.16	54.26
C.D.(5%) AIBj-AiBk	15.65	6.04	10.55	3.15	2.10
C.D.(5%) AiBk-AjBk	13.40	7.75	10.02	3.32	2.76
F(5%)	n.s.	n.s.	n.s.	s	n.s.

N 60	186.92	182.22	54.49	51.56	54.11
N 120	196.17	190.33	58.27	52.52	54.56
N 180	195.83	194.11	55.14	49.41	54.11

C.D.(5%) Ai-Aj	4.08	6.05	5.16	2.13	2.20
C.V.(%) Error A	2.11	2.45	9.23	3.19	3.09
F(5%)	s	s	n.s.	s	n.s.

KAVERI - 235	198.75	190.89	54.90	50.81	55.00
KH - 510	190.25	183.78	57.00	51.33	54.44
NAVJOT	189.92	192.00	56.01	51.33	53.33

C.D.(5%) Bi-Bj	9.04	3.49	6.09	1.82	1.21
C.V.(%) Error B	5.46	1.80	12.69	3.47	2.17
F(5%)	n.s.	s	n.s.	n.s.	s

Table 9. Relative performance of pre release germplasm of Medium Maturity at Different levels of Nitrogen during kharif 2003 in Zone V

Main Plot	Treatments	Grain Yield (Kg/ha)			
		Udaipur	Banswara	Godhra	Chhindwara
N 60	EC - 3116	2846.67	2857.00	2619.44	3851.85
	EC - 3110	2461.67	3140.00	2416.44	4159.26
	JKMH - 1080	3158.33	3832.00	3131.94	4614.81
	KAVERI - 235	3013.33	3964.00	3299.77	4714.81
	KH 510	2980.00	3969.00	2219.44	4522.22
	NAVJOT	2276.67	2632.00	2085.65	3618.52
N 120	EC - 3116	3336.67	2990.00	4070.37	4425.93
	EC - 3110	2856.67	3582.67	3765.05	4162.96
	JKMH - 1080	3660.00	5247.00	3506.94	6014.81
	KAVERI - 235	3560.00	4373.00	4645.14	6303.70
	KH 510	3435.00	4956.00	3532.64	5988.89
	NAVJOT	2801.67	3081.00	2681.94	3970.37
N 180	EC - 3116	3405.00	3423.33	5659.95	4885.19
	EC - 3110	3006.67	3956.00	4214.81	4425.93
	JKMH - 1080	3793.33	6059.00	4350.69	6674.07
	KAVERI - 235	3706.67	4664.00	6401.39	6692.59
	KH 510	3603.33	5747.00	4017.59	6388.89
	NAVJOT	2908.33	3207.00	3144.21	4044.44

Location Mean	3156.11	3971.11	3653.52	4969.96
C.D.(5%) AiBj-AiBk	341.89	943.82	694.27	584.64
C.D.(5%) AiBk-AjBk	496.90	931.35	758.29	543.69
F(5%)	n.s.	n.s.	s	s

N 60	2789.44	3365.67	2628.78	4246.91
N 120	3275.00	4038.28	3700.35	5144.44
N 180	3403.89	4509.39	4631.44	5518.52

C.D.(5%) Ai-Aj	389.61	365.52	428.50	107.50
C.V.(%) Error A	17.48	9.94	12.67	2.34
F(5%)	s	s	s	s

EC - 3116	3196.11	3023.44	4116.59	4387.65
EC - 3110	2775.00	3559.56	3465.43	4249.38
JKMH - 1080	3537.22	5046.00	3663.19	5767.90
KAVERI - 235	3426.67	4333.67	4782.10	5903.70
KH 510	3339.44	4890.67	3256.56	5633.33
NAVJOT	2662.22	2973.33	2637.27	3877.78

C.D.(5%) Bi-Bj	197.39	544.91	400.84	337.54
C.V.(%) Error B	7.60	14.25	11.40	7.06
F(5%)	s	s	s	s

Cont.....

A - 30

Main Plot	Treatments	Plant Stand (000/ha)			
		Udalpur	Banswara	Godhra	Chhindwara
N 60	EC - 3116	60.00	52.32	56.71	55.19
	EC - 3110	56.00	51.41	46.99	52.96
	JKMH - 1080	64.17	53.58	56.25	58.15
	KAVERI - 235	63.17	52.82	57.41	55.19
	KH 510	64.17	52.23	58.10	58.15
	NAVJOT	60.33	46.09	53.24	52.59
N 120	EC - 3116	60.67	54.98	61.11	57.04
	EC - 3110	56.67	52.49	50.93	57.41
	JKMH - 1080	64.50	53.66	57.64	60.74
	KAVERI - 235	61.67	52.24	59.72	56.67
	KH 510	64.50	52.33	59.95	60.37
	NAVJOT	58.67	46.12	58.56	55.19
N 180	EC - 3116	60.83	52.82	60.19	58.89
	EC - 3110	56.83	52.76	56.02	60.37
	JKMH - 1080	64.67	54.64	58.56	61.48
	KAVERI - 235	63.50	53.17	61.57	61.11
	KH 510	64.50	53.32	62.50	62.59
	NAVJOT	58.67	48.07	60.19	58.15

Location Mean	61.31	51.95	57.54	57.90
C.D.(5%) AiBj-AiBk	4.08	7.74	5.46	6.05
C.D.(5%) AiBk-AjBk	5.24	7.25	6.89	7.49
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60	61.31	51.41	54.78	55.37
N 120	61.11	51.97	57.99	57.90
N 180	61.50	52.46	59.84	60.43

C.D.(5%) Ai-Aj	3.73	1.68	4.86	5.19
C.V.(%) Error A	8.61	3.49	9.13	9.68
F(5%)	n.s.	n.s.	n.s.	n.s.

EC - 3116	60.50	53.37	59.34	57.04
EC - 3110	56.50	52.22	51.31	56.91
JKMH - 1080	64.44	53.96	57.48	60.12
KAVERI - 235	62.78	52.74	59.57	57.65
KH 510	64.39	52.63	60.19	60.37
NAVJOT	59.22	46.76	57.33	55.31

C.D.(5%) Bi-Bj	2.35	4.47	3.15	3.49
C.V.(%) Error B	4.66	8.94	5.69	6.26
F(5%)	s	s	s	s

Cont.....

A - 31

Main Plot	Treatments	Days to 50% Silking			
		Udaipur	Banswara	Godhra	Chhindwara
N 60	EC - 3116	50.00	48.67	60.67	50.67
	EC - 3110	52.00	49.00	57.33	51.00
	JKMH - 1080	51.50	50.67	57.00	51.33
	KAVERI - 235	47.00	50.00	58.67	51.67
	KH 510	50.00	51.00	59.33	52.33
	NAVJOT	50.00	51.00	58.33	51.33
N 120	EC - 3116	49.75	48.00	57.33	50.33
	EC - 3110	52.00	48.00	55.67	251.00
	JKMH - 1080	48.00	48.33	56.00	51.00
	KAVERI - 235	47.00	48.33	55.67	51.00
	KH 510	51.00	49.00	56.00	51.67
	NAVJOT	53.00	49.00	56.33	50.33
N 180	EC - 3116	53.00	47.33	54.67	49.67
	EC - 3110	48.00	48.00	53.33	50.00
	JKMH - 1080	46.00	48.00	52.67	51.00
	KAVERI - 235	48.25	48.33	53.00	50.33
	KH 510	48.25	48.67	54.33	51.67
	NAVJOT	53.00	48.33	54.33	49.33

Location Mean	49.88	48.87	56.15	61.98
C.D.(5%) AiBj-AiBk	4.30	2.63	1.17	135.55
C.D.(5%) AiBk-AjBk	8.34	2.63	1.41	143.82
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60	50.08	50.06	58.56	51.39
N 120	50.13	48.44	56.17	84.22
N 180	49.42	48.11	53.72	50.33

C.D.(5%) Ai-Aj	7.39	1.10	0.95	75.52
C.V.(%) Error A	20.99	2.43	1.82	131.68
F(5%)	n.s.	s	s	n.s.

EC - 3116	50.92	48.00	57.56	50.22
EC - 3110	50.67	48.33	55.44	117.33
JKMH - 1080	48.50	49.00	55.22	51.11
KAVERI - 235	47.42	48.89	55.78	51.00
KH 510	49.75	49.56	56.56	51.89
NAVJOT	52.00	49.44	56.33	50.33

C.D.(5%) Bi-Bj	2.48	1.52	0.68	78.26
C.V.(%) Error B	6.05	3.23	1.25	131.17
F(5%)	s	n.s.	s	n.s.

Cont.....

A - 32

Main Plot	Treatments	Plant Height (cm)		
		Banswara	Godhra	Chhindwara
N 60	EC - 3116	195.76	168.67	203.33
	EC - 3110	179.38	163.67	206.00
	JKMH - 1080	176.14	143.33	179.67
	KAVERI - 235	188.50	164.00	218.33
	KH 510	187.90	158.67	194.00
	NAVJOT	169.14	172.67	207.67
N 120	EC - 3116	212.08	181.33	207.00
	EC - 3110	189.92	180.00	208.00
	JKMH - 1080	180.90	150.00	182.33
	KAVERI - 235	219.38	181.00	219.33
	KH 510	192.58	178.33	213.33
	NAVJOT	206.81	193.00	211.33
N 180	EC - 3116	205.83	203.67	212.00
	EC - 3110	206.81	192.67	216.33
	JKMH - 1080	185.80	153.67	187.00
	KAVERI - 235	219.62	190.33	223.00
	KH 510	207.82	182.33	216.67
	NAVJOT	210.38	196.00	219.33

Location Mean	196.38	230.74	206.93
C.D.(5%) AiBj-AiBk	32.29	679.70	18.01
C.D.(5%) AiBk-AjBk	29.48	720.16	17.00
F(5%)	n.s.	n.s.	n.s.

N 60	182.80	161.83	201.50
N 120	200.28	343.94	206.89
N 180	206.04	186.44	212.39

C.D.(5%) Ai-Aj	0.72	376.72	4.47
C.V.(%) Error A	0.40	176.44	2.34
F(5%)	s	n.s.	s

EC - 3116	204.56	517.89	207.44
EC - 3110	192.04	178.78	210.11
JKMH - 1080	180.95	149.00	183.00
KAVERI - 235	209.17	178.44	220.22
KH 510	196.10	173.11	208.00
NAVJOT	195.44	187.22	212.78

C.D.(5%) Bi-Bj	18.64	392.42	10.40
C.V.(%) Error B	9.86	176.68	5.22
F(5%)	n.s.	n.s.	s

Cont.....

A - 33

Main Plot	Treatments	No. of Ears (000/ha)			
		Udaipur	Banswara	Godhra	Chhindwara
N 60	EC - 3116	61.00	47.74	32.18	52.59
	EC - 3110	56.67	47.99	32.87	51.85
	JKMH - 1080	65.33	51.65	35.42	56.67
	KAVERI - 235	63.33	49.82	40.97	53.33
	KH 510	65.33	50.16	29.86	52.22
	NAVJOT	58.67	46.57	29.40	51.85
N 120	EC - 3116	61.33	49.41	43.75	56.30
	EC - 3110	59.00	50.66	40.28	54.44
	JKMH - 1080	66.00	52.07	39.35	58.15
	KAVERI - 235	64.00	51.57	46.76	55.56
	KH 510	66.00	52.09	34.72	55.93
	NAVJOT	61.17	50.57	31.48	52.22
N 180	EC - 3116	61.50	49.82	49.54	56.30
	EC - 3110	60.83	53.40	44.21	58.15
	JKMH - 1080	66.33	52.56	46.06	59.26
	KAVERI - 235	64.33	52.40	54.40	59.26
	KH 510	66.00	52.35	39.12	60.37
	NAVJOT	59.33	53.49	34.03	52.96

Location Mean	62.56	50.80	39.13	55.41
C.D.(5%) AIBj-AIBk	5.44	7.97	4.98	4.77
C.D.(5%) AiBk-AjBk	6.94	7.32	5.01	5.91
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60	61.72	48.99	33.45	53.09
N 120	62.92	51.06	39.39	55.43
N 180	63.06	52.34	44.56	57.72

C.D.(5%) Ai-Aj	4.89	0.79	2.18	4.09
C.V.(%) Error A	11.07	1.69	6.02	7.98
F(5%)	n.s.	s	s	n.s.

EC - 3116	61.28	48.99	41.82	55.06
EC - 3110	58.83	50.68	39.12	54.81
JKMH - 1080	65.89	52.09	40.28	58.02
KAVERI - 235	63.89	51.26	47.38	56.05
KH 510	65.78	51.53	34.57	56.17
NAVJOT	59.72	50.21	31.64	52.35

C.D.(5%) BI-Bj	3.14	4.60	2.87	2.75
C.V.(%) Error B	6.10	9.42	7.63	5.16
F(5%)	s	n.s.	s	s

Cont.....

A - 34

Main Plot	Treatments	% post flowering stock root effected plants	Fodder yield	% of Barren plants
		Udaipur	Godhra	Udaipur
N 60	EC - 3116	4.00	3912.04	1.33
	EC - 3110	4.00	3518.52	1.67
	JKMH - 1080	5.50	4328.70	2.67
	KAVERI - 235	0.00	4699.07	0.00
	KH 510	4.00	3425.93	2.83
	NAVJOT	4.00	3217.59	2.50
N 120	EC - 3116	6.25	6087.96	5.17
	EC - 3110	12.00	5486.11	4.83
	JKMH - 1080	10.75	4953.70	4.50
	KAVERI - 235	13.50	6574.07	4.17
	KH 510	3.25	5462.96	1.33
	NAVJOT	4.00	4143.52	1.67
N 180	EC - 3116	5.75	8495.37	1.67
	EC - 3110	0.00	6087.96	0.17
	JKMH - 1080	3.50	6111.11	2.33
	KAVERI - 235	3.75	9074.07	2.83
	KH 510	8.00	6226.85	5.00
	NAVJOT	12.25	4884.26	3.83

Location Mean	5.92	5371.66	2.69
C.D.(5%) AiBj-AiBk	2.42	1008.30	1.09
C.D.(5%) AiBk-AjBk	2.88	1122.83	1.17
F(5%)	s	s	s

N 60		3.58	3850.31	1.83
N 120		8.63	5451.39	3.61
N 180		5.54	6813.27	2.64

C.D.(5%) Ai-Aj	1.86	661.39	0.63
C.V.(%) Error A	44.49	13.31	33.12
F(5%)	s	s	s

EC - 3116		6.00	6165.12	2.72
EC - 3110		5.33	5030.86	2.22
JKMH - 1080		6.58	5131.17	3.17
KAVERI - 235		5.75	6782.41	2.33
KH 510		5.08	5038.58	3.06
NAVJOT		6.75	4081.79	2.67
C.D.(5%) Bi-Bj		1.40	582.14	0.63
C.V.(%) Error B		28.74	11.26	28.40
F(5%)		n.s.	s	s

A - 35

Table 10. Relative performance of pre release germplasm of Early Maturity at Different levels of Nitrogen during kharif 2003 in Zone I

Main Plot	Treatment	Grain Yield (kg/ha)			Plant Stand (000/ha)	
		Bajaura	Kangra	Almora	Bajaura	Kangra
N40	BIO-92109	4213.33	6716.67	7561.73	82.00	52.67
	SEEDTEC - 1204	4403.33	6790.00	6358.02	82.67	48.60
	PAC - 70001	4250.00	5600.00	6790.12	83.00	52.30
	X - 3342	4290.00	5710.00	5586.42	81.33	47.67
	MAHI KANCHAN	3416.67	4010.00	3888.89	82.33	47.23
	KIRAN	3843.33	4280.00	3580.25	81.33	58.80
	FH - 3176	3816.67	4636.67	5524.69	82.00	57.40
	HIM - 129	3403.33	4880.00	4135.80	83.00	50.47
	SURYA	2936.67	4570.00	4043.21	81.00	50.43
	N100	BIO-92109	4293.33	6500.00	7932.10	77.33
SEEDTEC - 1204		4406.67	7050.00	7098.77	72.67	49.53
PAC - 70001		4253.33	7563.33	7037.04	80.67	53.30
X - 3342		4490.00	6556.67	5925.93	77.33	55.07
MAHI KANCHAN		3700.00	4140.00	4012.35	67.00	45.90
KIRAN		3893.33	4360.00	5160.49	76.33	50.53
FH - 3176		4253.33	5440.00	6481.48	79.33	51.40
HIM - 129		4256.67	4990.00	4382.72	78.67	46.40
SURYA		3253.33	4620.00	4290.12	75.33	58.43
N160		BIO-92109	5146.67	8183.33	10617.28	77.67
	SEEDTEC - 1204	5030.00	7933.33	9598.77	79.67	53.27
	PAC - 70001	4400.00	7023.33	7592.59	80.67	49.57
	X - 3342	5303.33	7713.33	8209.88	75.67	52.33
	MAHI KANCHAN	3850.00	4993.33	5308.64	76.00	49.53
	KIRAN	4313.33	5463.33	6172.84	75.67	54.17
	FH - 3176	5183.33	6266.67	7561.73	81.00	58.80
	HIM - 129	4880.00	5306.67	5216.05	76.67	50.47
	SURYA	4110.00	4423.33	5061.73	75.33	52.30
	Location Mean	4199.63	5767.41	6115.91	78.58	52.14
C.D.(5%) AiBj-AiBk	422.25	429.49	792.65	5.87	3.31	
C.D.(5%) AiBk-AjBk	424.33	486.89	1084.43	6.31	3.67	
F(5%)	s	n.s.	s	n.s.	s	
N 40	3841.48	5243.70	5274.35	82.07	51.73	
N 100	4088.89	5691.11	5813.44	76.07	51.75	
N 160	4688.52	6367.41	7259.95	77.59	52.94	
C.D.(5%) Ai-Aj	152.30	278.94	804.92	3.14	2.00	
C.V.(%) Error A	4.80	6.40	17.42	5.29	5.07	
F(5%)	s	n.s.	s	s	n.s.	
BIO-92109	4551.11	7133.33	8703.70	79.00	54.63	
SEEDTEC - 1204	4813.33	7257.78	7685.19	78.33	50.47	
PAC - 70001	4301.11	6728.89	7139.92	81.44	51.72	
X - 3342	4694.44	6860.00	6574.07	78.11	51.69	
MAHI KANCHAN	3855.56	4381.11	4403.29	75.11	47.56	
KIRAN	4016.67	4701.11	4971.10	77.78	54.50	
FH - 3176	4417.78	5447.78	6522.63	80.78	55.87	
HIM - 129	4113.33	5058.89	4578.19	79.44	49.11	
SURYA	3433.33	4537.78	4465.02	77.22	53.72	
C.D.(5%) Bi-Bj	243.78	247.96	457.64	3.39	1.91	
C.V.(%) Error B	6.12	4.53	7.89	4.54	3.87	
F(5%)	s	s	s	s	s	

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A - 36

Main Plot	Treatment	Days to 50% Silking		Plant Height (cm)		
		Kangra	Almora	Bajaura	Kangra	Almora
N40	BIO-92109	57.67	60.67	166.67	286.00	280.33
	SEEDTEC - 1204	58.33	61.00	162.00	297.33	278.67
	PAC - 70001	57.00	59.00	162.67	284.33	263.00
	X - 3342	57.33	57.33	152.00	288.67	272.67
	MAHI KANCHAN	57.00	58.00	158.00	288.00	260.00
	KIRAN	57.33	58.67	169.33	271.33	270.33
	FH - 3176	51.00	56.67	133.33	247.33	250.00
	HIM - 129	49.67	56.00	131.67	248.33	244.00
	SURYA	51.33	56.67	146.00	256.00	262.33
N100	BIO-92109	57.00	59.67	168.67	286.67	285.33
	SEEDTEC - 1204	57.00	61.00	163.00	289.00	278.67
	PAC - 70001	56.33	60.33	165.33	275.67	266.67
	X - 3342	55.00	60.00	151.67	274.33	275.00
	MAHI KANCHAN	53.67	58.33	163.00	257.67	266.00
	KIRAN	57.33	58.00	175.00	279.67	281.00
	FH - 3176	53.33	57.00	135.33	237.33	262.67
	HIM - 129	50.67	53.33	146.67	255.67	250.67
	SURYA	51.33	56.33	145.67	280.33	268.33
N160	BIO-92109	57.67	60.00	168.00	286.00	294.00
	SEEDTEC - 1204	56.67	61.00	166.33	283.00	287.33
	PAC - 70001	57.33	58.33	164.33	270.33	278.67
	X - 3342	54.33	57.00	159.67	273.33	287.33
	MAHI KANCHAN	55.33	58.33	178.00	281.67	282.00
	KIRAN	54.67	60.00	176.67	283.00	288.67
	FH - 3176	54.33	55.33	144.67	253.00	266.33
	HIM - 129	49.67	52.33	147.00	239.00	256.67
	SURYA	52.33	55.33	150.67	259.67	273.33
Location Mean		54.84	57.99	157.46	271.58	271.41
C.D.(5%) AIBj-AIBk		3.54	0.71	7.83	21.19	9.20
C.V.(5%) AIBk-AJBk		3.48	0.89	8.17	24.94	9.40
F(5%)		n.s.	s	s	n.s.	n.s.
N 40		55.19	58.22	153.52	274.15	264.37
N 100		54.63	58.22	157.15	270.70	270.48
N 160		54.70	57.52	161.70	269.89	279.37
C.D.(5%) Ai-Aj		1.05	0.61	3.63	15.38	3.76
C.V.(%) Error A		2.54	1.38	3.05	7.50	1.84
F(5%)		n.s.	s	s	n.s.	s
BIO-92109		57.44	60.11	167.78	286.22	286.56
SEEDTEC - 1204		57.33	61.00	163.78	289.78	280.89
PAC - 70001		56.89	59.22	164.11	276.78	269.44
X - 3342		55.56	58.11	154.44	278.78	278.33
MAHI KANCHAN		55.33	58.22	166.33	275.78	269.33
KIRAN		56.44	58.89	173.67	278.00	280.00
FH - 3176		52.89	56.33	137.78	245.89	259.67
HIM - 129		50.00	53.89	141.78	247.67	250.44
SURYA		51.67	56.11	147.44	265.33	268.00
C.D.(5%) Bi-Bj		2.04	0.41	4.52	12.23	5.31
C.V.(%) Error B		3.92	0.75	3.03	4.75	2.06
F(5%)		s	s	s	s	s

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Main Plot	Treatments	No. of Ears (000/ha)			Cob length (cm)	Cob diameter (cm)
		Bajaura	Kangra	Almora	Almora	Almora
N40	BIO-92109	81.33	53.00	35.00	14.07	13.67
	SEEDTEC - 1204	79.33	45.83	34.67	14.20	13.27
	PAC - 70001	82.33	48.13	33.00	11.93	14.20
	X - 3342	80.67	43.53	34.67	12.67	13.40
	MAHI KANCHAN	78.67	37.97	29.33	12.80	10.87
	KIRAN	80.67	50.00	31.00	13.00	11.40
	FH - 3176	81.67	53.73	35.33	11.73	13.40
	HIM - 129	83.67	46.77	33.00	12.47	11.87
	SURYA	80.33	45.37	24.00	11.60	11.63
N100	BIO-92109	74.67	53.70	35.67	13.33	13.20
	SEEDTEC - 1204	70.00	51.40	21.67	15.40	12.67
	PAC - 70001	76.67	45.83	34.67	11.73	13.13
	X - 3342	80.33	49.07	35.33	12.33	12.87
	MAHI KANCHAN	64.33	43.07	32.67	12.87	12.93
	KIRAN	73.00	49.07	37.33	14.20	11.07
	FH - 3176	78.33	55.10	35.00	13.27	13.67
	HIM - 129	76.00	49.70	36.67	11.33	10.80
	SURYA	73.67	53.23	34.00	12.20	10.87
N160	BIO-92109	74.33	58.37	36.33	14.40	13.67
	SEEDTEC - 1204	79.33	53.73	35.67	15.73	12.53
	PAC - 70001	79.00	53.70	23.67	11.93	13.87
	X - 3342	78.00	56.50	35.33	13.93	13.67
	MAHI KANCHAN	69.00	42.13	32.33	14.07	11.53
	KIRAN	77.00	48.13	33.67	14.40	12.27
	FH - 3176	79.33	56.00	34.00	11.87	14.33
	HIM - 129	79.00	49.57	35.00	12.33	11.87
	SURYA	76.00	56.50	34.33	13.73	11.40
Location Mean		77.28	49.97	33.09	13.09	12.59
C.D.(5%) AiBj-AjBk		6.82	3.05	9.77	1.14	0.97
C.V.(5%) AiBk-AjBk		9.22	4.06	9.36	1.16	1.00
F(5%)		n.s.	s	n.s.	s	s
N 40		80.96	47.15	32.22	12.72	12.63
N 100		74.11	50.02	33.67	12.96	12.36
N 160		76.78	52.74	33.37	13.60	12.79
C.D.(5%) Ai-Aj		6.78	2.94	1.76	0.46	0.42
C.V.(%) Error A		11.61	7.78	7.04	4.62	4.45
F(5%)		n.s.	s	n.s.	s	n.s.
BIO-92109		76.78	55.02	35.67	13.93	13.51
SEEDTEC - 1204		76.22	50.32	30.67	15.11	12.82
PAC - 70001		79.33	49.22	30.44	11.87	13.73
X - 3342		79.67	49.70	35.11	12.98	13.31
MAHI KANCHAN		70.67	41.06	31.44	13.24	11.78
KIRAN		76.89	49.07	34.00	13.87	11.58
FH - 3176		79.78	54.94	34.78	12.29	13.80
HIM - 129		79.56	48.68	34.89	12.04	11.51
SURYA		76.67	51.70	30.78	12.51	11.30
C.D.(5%) Bi-Bj		3.94	1.76	5.64	0.66	0.56
C.V.(%) Error B		5.37	3.71	17.96	5.30	4.66
F(5%)		s	s	n.s.	s	s

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Table 11. Relative performance of pre release germplasm of Early Maturity at Different levels of Nitrogen during kharif 2003 in Zone II

Main Plot	Treatments	Grain Yield (kg/ha)			Plant Stand (000/ha)		
		Ludhiana	Kanpur	Karnal	Ludhiana	Kanpur	Karnal
N 40	SEEDTEC-1205	4126.98	6416.67	3833.33	72.67	55.28	52.00
	HIM - 129	3916.17	5750.00	3766.67	73.41	56.67	51.67
	SURYA	3812.00	5694.44	4533.33	71.92	55.83	51.67
N 100	SEEDTEC-1205	4957.84	6305.56	5333.33	71.43	54.17	51.67
	HIM - 129	4451.88	5527.78	5533.33	74.65	55.83	52.67
	SURYA	4588.29	5027.78	5666.67	72.42	56.39	52.00
N 160	SEEDTEC-1205	5679.56	6388.89	6366.67	73.41	56.39	52.67
	HIM - 129	4774.31	5972.22	6666.67	69.94	55.00	52.67
	SURYA	5017.36	5861.11	6400.00	70.93	55.56	52.67

Location Mean	4591.60	5882.72	5344.44	72.31	55.68	52.19
C.D.(5%) AiBj-AiBk	698.88	621.21	330.20	4.59	2.29	1.28
C.D.(5%) AiBk-AjBk	991.20	614.39	407.83	4.98	2.44	1.44
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.

N 60		3951.72	5953.70	4044.44	72.67	55.93	51.78
N 120		4666.01	5620.37	5511.11	72.83	55.46	52.11
N 180		5157.08	6074.07	6477.78	71.43	55.65	52.67

C.D.(5%) Ai-Aj	818.85	353.06	309.98	3.33	1.60	1.01
C.V.(%) Error A	13.63	4.59	4.43	3.52	2.19	1.48
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.

SEEDTEC - 1205	4921.46	6370.37	5177.78	72.50	55.28	52.11
HIM - 129	4380.79	5750.00	5322.22	72.67	55.83	52.33
SURYA	4472.55	5527.78	5533.33	71.76	55.93	52.11

C.D.(5%) Bi-Bj	403.50	358.66	190.64	2.65	1.32	0.74
C.V.(%) Error B	8.56	5.94	3.47	3.57	2.31	1.38
F(5%)	s	s	s	n.s.	n.s.	n.s.

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Main Plot	Treatments	Days to 50% Silking		Plant Height (cm)		No. of Ears (000/ha)	
		Ludhiana	Kanpur	Ludhiana	Kanpur	Ludhiana	Kanpur
N 60	SEEDTEC-1205	51.33	52.33	161.67	135.6667	66.72	53.61
	HIM - 129	48.00	52.67	150.00	132.6667	71.68	55.00
	SURYA	50.67	54.33	171.67	133.00	68.95	54.44
N 120	SEEDTEC-1205	50.33	54.67	175.00	136.00	66.47	52.50
	HIM - 129	46.67	51.33	156.67	132.33	72.17	53.89
	SURYA	48.00	53.00	183.33	130.67	67.96	54.72
N180	SEEDTEC-1205	50.33	53.00	178.33	133.00	70.68	54.17
	HIM - 129	45.33	53.67	156.67	132.00	69.69	53.06
	SURYA	48.67	52.33	188.33	131.00	71.18	53.61

Location Mean	48.81	53.04	169.07	132.93	69.50	53.89
C.D.(5%) AIBj-AIBk	1.95	1.23	10.76	5.33	6.40	2.65
C.D.(5%) AIBk-AjBk	1.92	1.71	12.82	6.29	6.33	2.54
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.

N 60	50.00	53.11	161.11	133.78	69.11	54.35
N 120	48.33	53.00	171.67	133	68.87	53.70
N 180	48.11	53.00	174.44	132	70.52	53.61

C.D.(5%) Ai-Aj	1.10	1.40	9.47	4.602614	3.63	1.36
C.V.(%) Error A	1.72	2.02	4.28	2.64595	4.00	1.93
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.

SEEDTEC - 1205	50.67	53.33	171.67	134.8889	67.96	53.43
HIM - 129	46.67	52.58	154.44	132.3333	71.18	53.98
SURYA	49.11	53.22	181.11	131.5556	69.36	54.26

C.D.(5%) BI-Bj	1.13	0.71	6.21	3.078399	3.70	1.53
C.V.(%) Error B	2.25	1.31	3.58	2.254573	5.18	2.76
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.

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Main Plot	Treatments	Days to 50% Pollen Shed		Ear Height	No. of Barren Plants	moisture %
		Kanpur	Karnal			
		Kanpur	Karnal	Kanpur	Kanpur	Karnal
N 60	SEEDTEC-1205	49.00	44.00	55.67	2.00	28.67
	HIM - 129	48.33	44.00	56.33	2.00	29.00
	SURYA	50.00	43.67	53.67	1.67	29.00
N 120	SEEDTEC-1205	50.67	43.00	55.00	2.00	29.33
	HIM - 129	48.67	42.33	56.33	2.33	28.67
	SURYA	50.00	43.00	53.33	2.00	29.33
N180	SEEDTEC-1205	50.33	42.33	55.00	2.00	29.00
	HIM - 129	49.67	42.67	54.33	2.33	29.00
	SURYA	49.00	43.00	54.67	2.67	30.33

Location Mean	49.52	43.11	54.93	2.11	29.15
C.D.(5%) AiBj-AiBk	2.31	0.64	3.26	0.97	1.51
C.D.(5%) AiBk-AjBk	2.64	0.68	3.60	0.90	1.83
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	49.11	43.89	55.22	1.89	28.89
N 120	49.78	42.78	54.89	2.11	29.11
N 180	49.67	42.67	54.67	2.33	29.44

C.D.(5%) Ai-Aj	1.87	0.44	2.46	0.44	1.37
C.V.(%) Error A	2.88	0.77	3.42	15.79	3.59
F(5%)	n.s.	s	n.s.	n.s.	n.s.

SEEDTEC - 1205	50.00	43.11	55.22	2.00	29.00
HIM - 129	48.89	43.00	55.67	2.22	28.89
SURYA	49.67	43.22	53.89	2.11	29.56

C.D.(5%) Bi-Bj	1.33	0.37	1.88	0.56	0.87
C.V.(%) Error B	2.62	0.84	3.33	25.78	2.92
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

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Table 12. Relative performance of pre release germplasm of Early Maturity at Different levels of Nitrogen during kharif 2003 in Zone III

Main Plot	Treatment	Grain Yield (kg/ha)			
		Dholl	Jashipur	Baharalch	Varanasi
N40	PRO - 340	3583.33	2223.33	935.56	2814.00
	X - 3342	3716.67	2233.33	1055.56	2666.00
	MAHI KANCHAN	3966.67	1666.67	733.33	2258.67
	KIRAN	3816.67	1636.67	731.11	2740.00
	FH - 3186	4316.67	1350.00	784.44	2184.33
	HIM - 129	3566.67	1416.67	780.00	2777.00
	SURYA	2150.00	1226.67	728.89	1333.00
	N100	PRO - 340	3633.33	3890.00	1486.67
X - 3342		4000.00	4106.67	1651.11	3888.33
MAHI KANCHAN		4066.67	1966.67	1315.56	2962.33
KIRAN		4566.67	2086.67	1175.56	3444.00
FH - 3186		4950.00	2483.33	1240.00	3555.00
HIM - 129		3500.00	2120.00	1291.11	3628.67
SURYA		2566.67	2466.67	1213.33	3332.67
N160		PRO - 340	4183.33	3283.33	2011.11
	X - 3342	5566.67	4526.67	2235.56	4999.00
	MAHI KANCHAN	5316.67	2516.67	1851.11	3518.00
	KIRAN	4800.00	2933.33	1708.89	4443.67
	FH - 3186	4516.67	2250.00	1702.22	4554.67
	HIM - 129	4250.00	2806.67	1911.11	4665.67
	SURYA	2650.00	2193.33	1793.33	4295.33

Location Mean	3975.40	2446.83	1349.31	3486.03
C.D.(5%) AiBj-AiBk	908.94	325.31	130.04	638.26
C.D.(5%) AiBk-AjBk	1126.01	357.59	143.55	718.22
F(5%)	n.s.	n.s.	n.s.	n.s.

N 40	3559.52	1679.05	821.27	2396.14
N 100	3897.62	2731.43	1339.05	3565.48
N 160	4469.05	2930.00	1887.62	4496.48

C.D.(5%) Ai-Aj	756.12	198.71	80.58	420.40
C.V.(%) Error A	29.08	9.95	6.97	14.08
F(5%)	n.s.	s	s	s

PRO - 340	3800.00	3132.22	1477.78	3986.78
X - 3342	4427.78	3622.22	1647.41	3851.11
MAHI KANCHAN	4450.00	2050.00	1300.00	2913.00
KIRAN	4327.78	2218.89	1205.19	3542.56
FH - 3186	4594.44	2027.78	1242.22	3431.33
HIM - 129	3772.22	2114.44	1327.41	3690.44
SURYA	2455.56	1962.22	1245.19	2987.00

C.D.(5%) Bi-Bj	524.78	187.82	75.08	368.50
C.V.(%) Error B	16.11	8.53	5.82	11.05
F(5%)	s	s	s	s

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Main Plot	Treatment	Plant Stand (000/ha)			
		Dholi	Jashipur	Baharaich	Varanasi
N40	PRO - 340	40.67	64.17	24.00	48.44
	X - 3342	44.50	66.40	24.89	48.67
	MAHI KANCHAN	48.00	65.57	23.33	47.78
	KIRAN	46.67	63.63	22.67	48.44
	FH - 3186	39.17	63.03	24.00	49.11
	HIM - 129	46.67	63.33	23.56	48.22
	SURYA	43.17	64.73	23.11	46.67
N100	PRO - 340	42.83	66.40	23.33	48.44
	X - 3342	48.00	66.40	24.67	50.00
	MAHI KANCHAN	48.83	64.47	23.78	45.56
	KIRAN	50.33	65.00	22.89	48.89
	FH - 3186	37.83	64.17	23.78	50.00
	HIM - 129	44.33	66.13	23.33	49.33
	SURYA	44.17	64.73	23.33	48.67
N160	PRO - 340	42.67	65.03	24.44	48.89
	X - 3342	47.17	66.10	25.33	49.78
	MAHI KANCHAN	44.67	64.73	24.00	46.00
	KIRAN	47.67	65.57	23.78	49.78
	FH - 3186	37.50	64.73	23.56	48.22
	HIM - 129	42.50	65.27	24.00	50.00
	SURYA	37.17	62.23	24.44	47.56

Location Mean	44.02	64.85	23.82	48.50
C.D.(5%) AiBj-AiBk	6.41	3.04	0.93	3.15
C.D.(5%) AiBk-AjBk	7.12	3.20	0.96	3.79
F(5%)	n.s.	n.s.	n.s.	n.s.

N 40	44.12	64.41	23.65	48.19
N 100	45.19	65.33	23.59	48.70
N 160	42.78	64.81	24.22	48.60

C.D.(5%) Ai-Aj	3.99	1.58	0.44	2.48
C.V.(%) Error A	13.85	2.84	2.14	5.98
F(5%)	n.s.	n.s.	s	n.s.

PRO - 340	42.06	65.20	23.93	48.59
X - 3342	46.56	66.30	24.96	49.48
MAHI KANCHAN	47.17	64.92	23.70	46.44
KIRAN	48.22	64.73	23.11	49.04
FH - 3186	38.17	63.98	23.78	49.11
HIM - 129	44.50	64.91	23.63	49.19
SURYA	41.50	63.90	23.63	47.63

C.D.(5%) Bi-Bj	3.70	1.76	0.54	1.82
C.V.(%) Error B	10.26	2.83	2.36	3.92
F(5%)	s	n.s.	s	s

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Main Plot	Treatment	Days to 50% Silking			
		Dholl	Jashipur	Baharalch	Varanasi
N40	PRO - 340	60.50	42.67	50.00	51.00
	X - 3342	59.50	43.00	52.00	51.67
	MAHI KANCHAN	58.75	43.00	51.00	54.00
	KIRAN	56.25	43.67	52.00	52.00
	FH - 3186	54.50	40.00	50.33	47.67
	HIM - 129	59.75	41.00	52.00	47.33
	SURYA	59.00	43.00	50.00	53.00
N100	PRO - 340	60.50	42.67	51.00	49.00
	X - 3342	59.00	41.67	50.00	48.00
	MAHI KANCHAN	58.50	41.67	50.00	50.67
	KIRAN	59.00	43.67	51.67	51.67
	FH - 3186	55.25	39.33	51.00	45.67
	HIM - 129	56.25	41.67	51.00	46.00
	SURYA	56.75	42.00	52.00	47.00
N160	PRO - 340	58.00	42.67	50.00	48.67
	X - 3342	57.50	41.33	51.00	48.33
	MAHI KANCHAN	56.00	41.67	50.00	50.33
	KIRAN	54.25	42.33	52.00	50.33
	FH - 3186	55.25	39.67	50.00	46.00
	HIM - 129	59.75	39.67	51.00	46.33
	SURYA	59.50	42.33	50.00	46.67

Location Mean	57.80	41.84	50.86	49.11
C.D.(5%) AIBj-AIBk	3.35	1.45	1.71	1.88
C.D.(5%) AIBk-AjBk	3.80	2.01	1.63	2.00
F(5%)	n.s.	n.s.	n.s.	s

N 40	58.32	42.33	51.05	50.95
N 100	57.89	41.81	50.95	48.29
N 160	57.18	41.38	50.57	48.10

C.D.(5%) Ai-Aj	2.22	1.53	0.42	1.02
C.V.(%) Error A	5.88	4.26	0.96	2.43
F(5%)	n.s.	n.s.	n.s.	s

PRO - 340	59.67	42.67	50.33	49.56
X - 3342	58.67	42.00	51.00	49.33
MAHI KANCHAN	57.75	42.11	50.33	51.67
KIRAN	56.50	43.22	51.89	51.33
FH - 3186	55.00	39.67	50.44	46.44
HIM - 129	58.58	40.78	51.33	46.56
SURYA	58.42	42.44	50.67	48.89

C.D.(5%) Bi-Bj	1.93	0.84	0.99	1.09
C.V.(%) Error B	4.08	2.10	2.03	2.31
F(5%)	s	s	s	s

Cont.....

A - 44

Main Plot	Treatment	Plant Height				Lodged plants
		Dholi	Jashipur	Baharaich	Varanasi	Varanasi
N40	PRO - 340	148.90	161.73	150.00	222.00	1.33
	X - 3342	157.00	163.10	150.00	224.67	1.11
	MAHI KANCHAN	162.65	151.97	147.33	220.33	3.56
	KIRAN	164.20	152.20	146.33	220.00	4.00
	FH - 3186	158.30	140.13	144.00	206.33	7.33
	HIM - 129	171.40	134.43	147.67	203.00	1.56
	SURYA	167.10	137.73	143.67	196.33	2.89
N100	PRO - 340	153.10	174.60	154.00	232.67	0.89
	X - 3342	148.15	181.63	158.00	236.33	2.89
	MAHI KANCHAN	167.85	176.10	154.00	231.33	3.33
	KIRAN	165.20	160.60	151.00	228.67	2.67
	FH - 3186	171.10	157.13	147.67	220.33	6.00
	HIM - 129	176.55	138.13	151.33	221.00	5.56
	SURYA	172.35	162.47	148.33	219.00	3.11
N160	PRO - 340	165.35	165.97	159.67	244.67	2.44
	X - 3342	165.05	182.63	164.00	238.33	1.78
	MAHI KANCHAN	165.45	178.37	158.00	237.33	6.22
	KIRAN	164.05	187.70	158.33	238.00	2.22
	FH - 3186	158.00	154.97	158.67	231.33	4.00
	HIM - 129	167.65	153.57	158.33	228.33	4.89
	SURYA	147.90	160.13	159.00	226.33	1.78

Location Mean	162.63	160.73	152.83	225.06	3.31
C.D.(5%) AiBj-AiBk	17.82	15.31	4.76	11.40	3.44
C.D.(5%) AiBk-AjBk	21.86	19.15	4.92	13.57	3.72
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 40	161.08	148.76	147.00	213.24	3.11
N 100	164.90	164.38	152.05	227.05	3.49
N 160	161.92	169.05	159.43	234.90	3.33

C.D.(5%) Ai-Aj	14.49	13.21	2.24	8.77	1.99
C.V.(%) Error A	13.63	9.59	1.71	4.55	70.18
F(5%)	n.s.	s	s	s	n.s.

PRO - 340	155.78	167.43	154.56	233.11	1.56
X - 3342	156.73	175.79	157.33	233.11	1.93
MAHI KANCHAN	165.32	168.81	153.11	229.67	4.37
KIRAN	164.48	166.83	151.89	228.89	2.96
FH - 3186	161.80	150.74	150.11	219.33	5.78
HIM - 129	171.87	142.04	152.44	217.44	4.00
SURYA	162.45	153.44	150.33	213.89	2.59

C.D.(5%) Bi-Bj	10.29	8.84	2.75	6.58	1.98
C.V.(%) Error B	7.72	5.75	1.88	3.06	62.61
F(5%)	n.s.	s	s	s	s

Cont.....

A - 45

Main Plot	Treatment	No. of Ears (th/ha)				Barran Plants
		Dholi	Jashipur	Baharaich	Varanasi	Varanasi
N40	PRO - 340	29.00	45.83	24.44	48.44	0.44
	X - 3342	37.33	44.17	25.11	49.56	0.22
	MAHI KANCHAN	37.17	35.57	24.00	44.00	3.78
	KIRAN	39.67	35.83	24.00	46.22	2.22
	FH - 3186	38.00	33.33	24.44	44.00	5.11
	HIM - 129	37.83	37.77	24.44	48.00	0.67
	SURYA	33.00	38.60	23.78	46.00	0.67
N100	PRO - 340	33.00	55.00	24.44	47.33	1.11
	X - 3342	39.67	56.10	25.56	49.78	1.56
	MAHI KANCHAN	40.00	40.27	24.67	44.00	1.56
	KIRAN	46.00	48.33	23.78	51.56	0.44
	FH - 3186	41.17	47.23	24.67	48.44	2.22
	HIM - 129	37.83	40.27	24.00	49.56	0.22
	SURYA	33.00	38.73	24.22	48.00	1.11
N160	PRO - 340	33.17	50.57	25.11	50.89	0.67
	X - 3342	38.50	67.47	26.00	49.78	0.89
	MAHI KANCHAN	37.83	46.40	24.89	44.89	2.22
	KIRAN	41.83	48.30	24.67	50.00	0.44
	FH - 3186	38.67	49.70	24.44	46.22	2.00
	HIM - 129	36.00	49.87	24.44	49.33	2.22
	SURYA	27.83	41.93	24.67	46.89	1.11

Location Mean	36.98	45.30	24.56	47.76	1.47
C.D.(5%) AiBj-AiBk	9.52	9.49	0.75	4.57	2.52
C.D.(5%) AiBk-AjBk	12.64	9.36	0.81	5.26	3.22
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 40	36.00	38.73	24.32	46.60	1.87
N 100	38.67	46.56	24.48	48.38	1.17
N 160	36.26	50.60	24.89	48.29	1.37

C.D.(5%) Ai-Aj	9.15	3.37	0.42	3.21	2.27
C.V.(%) Error A	37.83	8.68	1.99	7.86	180.44
F(5%)	n.s.	s	s	n.s.	n.s.

PRO - 340	31.72	50.47	24.67	48.89	0.74
X - 3342	38.50	55.91	25.56	49.70	0.89
MAHI KANCHAN	38.33	40.74	24.52	44.30	2.52
KIRAN	42.50	44.16	24.15	49.26	1.04
FH - 3186	39.28	43.42	24.52	46.22	3.11
HIM - 129	37.22	42.63	24.30	48.96	1.04
SURYA	31.28	39.76	24.22	46.96	0.96

C.D.(5%) Bi-Bj	5.49	5.48	0.44	2.64	1.46
C.V.(%) Error B	18.13	12.64	1.85	5.78	103.55
F(5%)	s	s	s	s	s

A - 46

Table 13. Relative performance of pre release germplasm of Early Maturity : levels of Nitro. during kharif 2003 in Zone IV

Main Plot	Treatments	Grain Yield (Kg/ha)		Plant Stand (000/ha)		
		Karimnaga	Kolhapur	Karimnaga	Kolhapur	
N 40	BIO - 92109	2987.55	4362.22	47.10	53.56	
	BIO - 92136	2963.84	4977.78	46.06	61.33	
	SEEDTEC - 1202	1944.28	4195.56	39.69	62.89	
	PAC - 70001	2454.06	4491.11	54.06	56.44	
	X - 3342	3722.58	3646.67	56.58	57.78	
	MAHI KANCHAN	2086.54	3182.22	33.03	56.44	
	KIRAN	3283.94	2244.44	46.65	58.00	
	FH - 3186	3023.12	3702.22	41.62	58.89	
	FH - 3176	2548.90	3435.56	34.36	55.56	
	HIM - 129	1825.73	3368.89	37.03	60.67	
	SURYA	2074.69	2193.33	51.54	55.33	
	N 100	BIO - 92109	3283.94	7648.89	47.84	56.89
		BIO - 92136	3924.13	7637.78	50.65	81.11
SEEDTEC - 1202		3082.39	6686.67	40.88	58.00	
PAC - 70001		4007.11	5980.00	53.47	57.33	
X - 3342		3663.31	6584.44	58.35	56.67	
MAHI KANCHAN		2086.54	4020.00	29.62	56.22	
KIRAN		3343.21	3237.78	51.69	53.78	
FH - 3186		2062.83	5002.22	41.47	58.89	
FH - 3176		3153.53	5208.89	54.21	56.22	
HIM - 129		2240.66	4542.22	38.66	60.67	
SURYA		2797.87	3071.11	53.02	62.67	
N 160		BIO - 92109	4469.47	8284.44	53.76	52.00
		BIO - 92136	4718.44	8546.67	52.58	52.89
	SEEDTEC - 1202	4469.47	8722.22	52.43	52.22	
	PAC - 70001	3592.18	6562.22	47.99	49.33	
	X - 3342	3663.31	6975.56	67.24	49.56	
	MAHI KANCHAN	2394.78	4386.67	50.95	52.67	
	KIRAN	3497.33	4357.78	51.98	53.33	
	FH - 3186	3011.26	5537.78	51.84	55.11	
	FH - 3176	3805.57	7044.44	50.65	50.67	
	HIM - 129	2963.84	5777.78	46.65	50.44	
	SURYA	3177.24	3922.22	53.61	52.89	

Location Mean	3100.72	5137.51	48.10	55.95
C.D.(5%) AiBj-AiBk	904.83	224.17	7.33	3.58
C.D.(5%) AiBk-AjBk	876.32	231.61	8.36	3.81
F(5%)	s	s	s	s

N 40		2628.66	3618.18	44.34	57.90
N 100		3058.68	5420.00	47.26	58.04
N 160		3614.81	6374.34	52.70	51.92

C.D.(5%) Ai-Aj	156.48	92.57	4.65	1.75
C.V.(%) Error A	9.67	2.64	18.52	4.57
F(5%)	s	s	s	s

Cont.....

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BIO - 92109	3580.32	6765.19	49.57	54.15
BIO - 92136	3868.80	7054.07	49.76	58.44
SEEDTEC - 1202	3165.38	6534.81	44.33	57.70
PAC - 70001	3351.12	5677.78	51.84	54.37
X - 3342	3683.07	5735.56	60.72	54.67
MAHI KANCHAN	2189.29	3862.96	37.87	55.11
KIRAN	3374.83	3280.00	50.11	55.04
FH - 3186	2699.07	4747.41	44.97	57.63
FH - 3176	3169.33	5229.63	46.41	54.15
HIM - 129	2343.41	4562.96	40.78	57.26
SURYA	2683.26	3062.22	52.73	56.96

C.D.(5%) BI-BJ	522.40	129.42	4.23	2.07
C.V.(%) Error B	20.74	2.67	10.83	3.92
F(5%)	s	s	s	s

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A - 48

Main Plot	Treatments	Plant Height		No. of Ear (000/ha)		Days to 50% Silking
		Karimnagar	Kolhapur	Karimnagar	Kolhapur	Kolhapur
N 40	BIO - 92109	185.25	179.33	48.58	54.22	53.00
	BIO - 92136	175.25	163.00	44.88	55.11	52.33
	SEEDTEC - 1202	168.25	148.67	34.95	53.56	53.00
	PAC - 70001	171.75	163.67	48.58	55.33	53.33
	X - 3342	189.75	163.00	57.17	56.44	52.67
	MAHI KANCHAN	172.00	158.67	30.21	45.78	53.33
	KIRAN	195.00	162.33	53.32	44.67	53.00
	FH - 3186	171.50	139.67	45.62	58.89	51.00
	FH - 3176	157.25	139.00	38.66	56.44	51.33
	HIM - 129	166.50	133.33	43.84	54.67	48.67
	SURYA	170.75	132.33	54.65	49.33	51.00
	N 100	BIO - 92109	193.50	184.33	51.39	49.33
BIO - 92136		194.50	161.33	53.76	56.22	51.00
SEEDTEC - 1202		184.50	164.33	41.17	52.89	52.00
PAC - 70001		193.75	172.67	55.39	50.67	53.67
X - 3342		201.75	170.00	61.02	47.56	52.67
MAHI KANCHAN		184.25	164.33	26.07	44.00	52.67
KIRAN		180.00	163.33	52.87	48.00	53.00
FH - 3186		176.50	155.00	44.43	51.78	51.33
FH - 3176		156.00	151.67	62.35	48.22	52.67
HIM - 129		188.00	151.67	39.84	51.56	49.33
SURYA		167.50	149.00	60.13	47.78	51.33
N 160		BIO - 92109	180.50	186.67	64.57	54.89
	BIO - 92136	187.50	170.33	59.98	52.67	51.33
	SEEDTEC - 1202	197.75	175.33	48.43	56.89	51.67
	PAC - 70001	202.00	173.33	54.35	55.56	53.67
	X - 3342	188.00	178.67	71.39	56.00	52.67
	MAHI KANCHAN	205.25	171.67	48.43	57.56	53.67
	KIRAN	181.75	179.67	56.58	51.11	53.67
	FH - 3186	164.50	158.00	52.58	62.00	51.33
	FH - 3176	169.25	154.00	56.72	48.89	52.67
	HIM - 129	164.25	153.33	49.47	48.89	50.67
	SURYA	179.75	162.00	55.09	51.33	51.00

Location Mean	180.73	161.63	50.50	52.37	52.13
C.D.(5%) AiBj-AiBk	7.00	5.87	7.29	3.79	2.20
C.D.(5%) AiBk-AjBk	7.19	6.08	7.75	4.57	2.25
F(5%)	s	s	s	s	n.s.

N 40	174.84	153.00	45.49	53.13	52.06
N 100	183.66	162.52	49.86	49.82	52.06
N 160	183.68	169.36	56.14	54.16	52.27

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C.D.(5%) Ai-Aj	2.73	2.48	3.49	2.88	0.84
C.V.(%) Error A	2.89	2.24	13.26	8.06	2.35
F(5%)	s	s	s	s	n.s.

BIO - 92109	186.42	183.44	54.85	52.81	52.89
BIO - 92136	185.75	164.89	52.87	54.67	51.56
SEEDTEC - 1202	183.50	162.78	41.52	54.44	52.22
PAC - 70001	189.17	169.89	52.77	53.85	53.56
X - 3342	193.17	170.56	63.19	53.33	52.67
MAHI KANCHAN	187.17	164.89	34.90	49.11	53.22
KIRAN	185.58	168.44	54.26	47.93	53.22
FH - 3186	170.83	150.89	47.54	57.56	51.22
FH - 3176	160.83	148.22	52.58	51.19	52.22
HIM - 129	172.92	146.11	44.38	51.70	49.56
SURYA	172.67	147.78	56.63	49.48	51.11

C.D.(5%) Bi-Bj	4.04	3.39	4.21	2.19	1.27
C.V.(%) Error B	2.75	2.22	10.26	4.44	2.59
F(5%)	s	s	s	s	s

A - 50

Table 14. Relative performance of pre release germplasm of Early Maturity at Different levels of Nitrogen during kharif 2003 in Zone V

Main Plot	Treatments	Grain Yield kg/plot			
		Udaipur	Banswara	Godhra	Chindwara
N40	R - 9803	2405.00	2769.00	1795.14	3070.37
	BIO - 92136	3511.67	3915.00	2727.55	5440.74
	SEEDTEC - 1202	3406.67	3435.67	2322.22	5003.70
	FH - 3161	3498.33	3207.00	2805.56	4188.89
	X - 3342	2708.33	4606.00	3231.71	4785.19
	MAHI KANCHAN	1606.67	2507.00	1883.33	3277.78
	KIRAN	1720.00	3222.00	2983.33	3485.19
	EC - 3108	2516.67	3207.00	1730.56	3777.78
	HIM - 129	2501.67	2070.00	1988.43	3640.74
	SURYA	2081.67	2090.00	1821.76	3125.93
N100	R - 9803	2906.67	3201.00	1993.75	3825.93
	BIO - 92136	4011.67	4598.00	3564.81	4962.96
	SEEDTEC - 1202	3910.00	5330.00	3566.44	5248.15
	FH - 3161	4006.67	4956.00	3318.52	4859.26
	X - 3342	3108.33	5539.00	4554.40	5392.59
	MAHI KANCHAN	1998.33	2915.00	2067.82	3414.81
	KIRAN	2130.00	3507.00	4585.42	3800.00
	EC - 3108	2898.33	3609.00	1911.81	4188.89
	HIM - 129	2905.00	2582.33	2622.22	3896.30
	SURYA	2506.67	2198.00	2471.99	3462.96
N160	R - 9803	3005.00	3213.00	2624.31	4088.89
	BIO - 92136	4120.00	4955.00	4389.58	6970.37
	SEEDTEC - 1202	4010.00	5496.67	4279.17	6111.11
	FH - 3161	4131.67	5130.00	3843.29	5218.52
	X - 3342	3126.67	5796.67	5000.23	5725.93
	MAHI KANCHAN	2101.67	3207.00	2685.88	3681.48
	KIRAN	2211.67	3635.00	4898.15	3992.59
	EC - 3108	3016.67	3971.00	2459.95	4281.48
	HIM - 129	3021.67	2498.00	2990.51	4337.04
	SURYA	2623.33	2332.00	2755.79	4025.93
Location Mean		2923.56	3656.61	2995.79	4376.05
C.D.(5%) AiBj-AiBk		467.80	997.93	317.47	951.05
C.D.(5%) AiBk-AjBk		504.54	956.39	332.86	960.58
F(5%)		n.s.	n.s.	s	n.s.
N 60		2595.67	3102.87	2328.96	3979.63
N 120		3038.17	3843.53	3065.72	4305.19
N 180		3136.83	4023.43	3592.69	4843.33
C.D.(5%) Ai-Aj		243.53	141.14	146.82	342.02
C.V.(%) Error A		15.22	53.85	6.84	10.90
F(5%)		s	s	s	s

Cont.....

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R - 9803	2772.22	3061.00	2137.73	3861.73
BIO - 92136	3881.11	4489.33	3560.65	5791.36
SEEDTEC - 1202	3775.56	4754.11	3389.27	5454.32
FH - 3161	3878.89	4431.00	3322.45	4755.56
X - 3342	2981.11	5313.89	4262.11	5301.23
MAHI KANCHAN	1902.22	2876.33	2212.35	3458.02
KIRAN	2020.56	3454.67	4155.63	3759.26
EC - 3108	2810.56	3595.67	2034.10	4082.72
HIM - 129	2809.44	2383.44	2533.72	3958.02
SURYA	2403.89	2206.67	2349.85	3538.27

C.D.(5%) Bi-Bj	270.09	576.15	183.29	549.09
C.V.(%) Error B	11.35	16.65	6.47	13.26
F(5%)	s	s	s	s

Main Plot	Treatments	Plant Stand (000/ha)			
		Udaipur	Banswara	Godhra	Chindwara
N40	R - 9803	55.33333	58.82	60.65	51.48
	BIO - 92136	61.33333	61.48	60.88	56.67
	SEEDTEC - 1202	61.33333	60.65	66.20	50.37
	FH - 3161	57.33333	57.90	55.79	61.85
	X - 3342	61.33333	65.81	66.67	53.33
	MAHI KANCHAN	50.66667	53.39	48.61	53.70
	KIRAN	58.66667	50.82	61.57	50.00
	EC - 3108	61.33333	55.40	63.43	58.89
	HIM - 129	62.66667	57.07	61.11	60.37
	SURYA	58.66667	60.90	59.03	61.48
N100	R - 9803	55	58.57	64.12	51.11
	BIO - 92136	62	60.15	65.28	58.15
	SEEDTEC - 1202	61.33333	61.40	62.50	54.07
	FH - 3161	58.66667	59.57	66.90	62.58
	X - 3342	61.33333	66.23	65.05	54.81
	MAHI KANCHAN	50	55.82	49.54	60.74
	KIRAN	58	51.40	59.95	48.52
	EC - 3108	61.33333	58.32	64.12	58.89
	HIM - 129	62	55.40	62.27	62.59
	SURYA	58.66667	63.31	57.64	64.44
N160	R - 9803	56	60.56	66.90	54.81
	BIO - 92136	60.66667	59.32	58.10	60.00
	SEEDTEC - 1202	61.33333	60.82	61.11	54.81
	FH - 3161	57.33333	62.73	66.67	64.81
	X - 3342	60.66667	64.69	65.74	56.67
	MAHI KANCHAN	50	56.65	55.56	62.59
	KIRAN	58	52.32	61.57	60.74
	EC - 3108	60.66667	58.84	65.51	62.59
	HIM - 129	62	58.72	63.66	63.33
	SURYA	58	60.73	65.51	65.19

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Location Mean	58.66	58.86	61.72	57.99
C.D.(5%) AiBj-AiBk	4.67	9.54	10.28	5.85
C.D.(5%) AiBk-AjBk	5.07	9.54	11.09	5.85
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60	58.87	58.22	60.39	55.81
N 120	58.63	58.82	61.74	57.59
N 180	58.47	59.54	63.03	60.56

C.D.(5%) Ai-Aj	2.49	3.12	5.46	1.94
C.V.(%) Error A	7.76	7.41	12.35	4.66
F(5%)	n.s.	n.s.	n.s.	s

R - 9803	55.44	59.32	63.89	52.47
BIO - 92136	61.33	60.32	61.42	58.27
SEEDTEC - 1202	61.33	60.96	63.27	53.09
FH - 3161	57.11	60.07	63.12	63.09
X - 3342	61.11	65.58	65.82	54.94
MAHI KANCHAN	50.22	55.29	51.23	59.01
KIRAN	58.22	51.51	61.03	53.09
EC - 3108	61.11	58.85	64.35	60.12
HIM - 129	62.22	57.06	62.35	62.10
SURYA	58.44	61.65	60.73	63.70

C.D.(5%) Bi-Bj	2.70	5.51	5.94	3.37
C.V.(%) Error B	5.65	9.89	10.17	6.15
F(5%)	s	s	s	s

Main Plot	Treatments	Days to 50% Silking			
		Udaipur	Banswara	Godhra	Chindwara
N40	R - 9803	50.00	51.67	47.67	50.00
	BIO - 92136	52.00	50.67	48.67	50.67
	SEEDTEC - 1202	51.50	50.00	46.67	51.67
	FH - 3161	47.00	46.67	47.33	46.00
	X - 3342	50.00	49.00	46.33	49.33
	MAHI KANCHAN	50.00	48.67	49.67	50.67
	KIRAN	49.75	49.00	48.67	51.33
	EC - 3108	52.00	48.33	49.33	50.33
	HIM - 129	48.00	46.33	46.67	45.33
	SURYA	47.00	48.00	47.33	47.67
N100	R - 9803	51.00	48.33	46.67	49.00
	BIO - 92136	53.00	49.00	47.33	50.67
	SEEDTEC - 1202	53.00	48.67	47.00	50.67
	FH - 3161	48.00	46.00	47.33	45.67
	X - 3342	46.00	48.67	45.33	49.00
	MAHI KANCHAN	48.25	48.33	49.33	49.33
	KIRAN	48.25	48.33	46.67	50.67
	EC - 3108	53.00	48.00	48.33	49.33
	HIM - 129	49.00	46.00	45.67	45.00
	SURYA	48.00	48.00	45.33	46.33

Cont.....

A - 53

N160	R - 9803	51.00	47.33	45.67	49.00
	BIO - 92136	53.00	47.67	45.67	49.67
	SEEDTEC - 1202	53.00	47.00	45.33	49.67
	FH - 3161	48.00	45.33	45.33	45.67
	X - 3342	51.00	48.00	44.33	48.67
	MAHI KANCHAN	51.00	48.00	48.33	49.33
	KIRAN	48.75	47.67	46.33	50.00
	EC - 3108	53.25	48.00	47.33	48.67
	HIM - 129	49.25	45.33	44.33	45.00
	SURYA	48.25	47.33	45.00	45.33

Location Mean	50.04	47.98	46.83	48.66
C.D.(5%) AIBj-AIBk	6.47	2.71	1.01	1.56

C.D.(5%) AIBk-AjBk	6.85	2.67	1.04	1.50
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60		49.73	48.83	47.83	49.30
N 120		49.75	47.93	46.90	48.57
N 180		50.65	47.17	45.77	48.10

C.D.(5%) Ai-Aj	3.08	0.76	0.43	0.27
C.V.(%) Error A	11.24	2.21	1.29	0.78
F(5%)	n.s.	s	s	s

R - 9803	50.67	49.11	46.67	49.33
BIO - 92136	52.67	49.11	47.22	50.33
SEEDTEC - 1202	52.50	48.56	46.33	50.67
FH - 3161	47.67	46.00	46.67	45.78
X - 3342	49.00	48.56	45.33	49.00
MAHI KANCHAN	49.75	48.33	49.11	49.78
KIRAN	48.92	48.33	47.22	50.67
EC - 3108	52.75	48.11	48.33	49.44
HIM - 129	48.75	45.89	45.56	45.11
SURYA	47.75	47.78	45.89	46.44

C.D.(5%) Bi-Bj	3.74	1.56	0.58	0.90
C.V.(%) Error B	9.17	3.44	1.31	1.95
F(5%)	s	s	s	s

Main Plot	Treatments	Plant Height			
		Udaipur	Banswara	Godhra	Chindwara
N40	R - 9803	50.00	51.67	47.67	50.00
	BIO - 92136	52.00	50.67	48.67	50.67
	SEEDTEC - 1202	51.50	50.00	46.67	51.67
	FH - 3161	47.00	46.67	47.33	46.00
	X - 3342	50.00	49.00	46.33	49.33
	MAHI KANCHAN	50.00	48.67	49.67	50.67
	KIRAN	49.75	49.00	48.67	51.33
	EC - 3108	52.00	48.33	49.33	50.33
	HIM - 129	48.00	46.33	46.67	45.33
	SURYA	47.00	48.00	47.33	47.67
N100	R - 9803	51.00	48.33	46.67	49.00

Cont.....

A - 54

	BIO - 92136	53.00	49.00	47.33	50.67
	SEEDTEC - 1202	53.00	48.67	47.00	50.67
	FH - 3161	48.00	46.00	47.33	45.67
	X - 3342	46.00	48.67	45.33	49.00
	MAHI KANCHAN	48.25	48.33	49.33	49.33
	KIRAN	48.25	48.33	46.67	50.67
	EC - 3108	53.00	48.00	48.33	49.33
	HIM - 129	49.00	46.00	45.67	45.00
	SURYA	48.00	48.00	45.33	46.33
N160	R - 9803	51.00	47.33	45.67	49.00
	BIO - 92136	53.00	47.67	45.67	49.67
	SEEDTEC - 1202	53.00	47.00	45.33	49.67
	FH - 3161	48.00	45.33	45.33	45.67
	X - 3342	51.00	48.00	44.33	46.67
	MAHI KANCHAN	51.00	48.00	48.33	49.33
	KIRAN	48.75	47.67	46.33	50.00
	EC - 3108	53.25	48.00	47.33	48.67
	HIM - 129	49.25	45.33	44.33	45.00
	SURYA	48.25	47.33	45.00	45.33

Location Mean	50.04	47.98	46.83	48.66
C.D.(5%) AIBj-AiBk	6.47	2.71	1.01	1.56
C.D.(5%) AIBk-AjBk	6.85	2.67	1.04	1.50
F(5%)	n.s.	n.s.	n.s.	n.s.

N 60		49.73	48.83	47.83	49.30
N 120		49.75	47.93	46.90	48.57
N 180		50.65	47.17	45.77	48.10

C.D.(5%) Ai-Aj	3.08	0.76	0.43	0.27
C.V.(%) Error A	11.24	2.21	1.29	0.78
F(5%)	n.s.	s	s	s

R - 9803	50.67	49.11	46.67	49.33
BIO - 92136	52.67	49.11	47.22	50.33
SEEDTEC - 1202	52.50	48.56	46.33	50.67
FH - 3161	47.87	46.00	46.67	45.78
X - 3342	49.00	48.56	45.33	49.00
MAHI KANCHAN	49.75	48.33	49.11	49.78
KIRAN	48.92	48.33	47.22	50.67
EC - 3108	52.75	48.11	48.33	49.44
HIM - 129	48.75	45.89	45.56	45.11
SURYA	47.75	47.78	45.89	46.44

C.D.(5%) Bi-Bj	3.74	1.56	0.58	0.90
C.V.(%) Error B	9.17	3.44	1.31	1.95
F(5%)	s	s	s	s

Cont.....

Main Plot	Treatments	No. of Ears (000/ha)			
		Udaipur	Banswara	Godhra	Chindwara
N40	R - 9803	50.67	50.82	32.18	45.56

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Main Plot	Treatments	No. of Ears (000/ha)				Fodder yield (kg/ha)
		Udaipur	Banswara	Godhra	Chindwara	Godhra
N40	R - 9803	50.67	50.82	32.18	45.56	2523.15
	BIO - 92136	54.67	52.98	39.58	51.11	3981.48
	SEEDTEC - 1202	54.67	54.09	38.66	44.44	3495.37
	FH - 3161	55.33	50.40	39.12	53.70	4027.78
	X - 3342	53.33	56.23	41.44	51.11	4699.07
	MAHI KANCHAN	46.33	49.90	31.02	48.52	2800.93
	KIRAN	48.67	49.07	36.57	44.81	4305.56
	EC - 3108	52.83	50.99	32.87	52.59	2569.44
	HIM - 129	52.67	51.09	32.18	60.00	2939.81
	SURYA	50.00	50.24	34.95	62.22	2731.48
N100	R - 9803	53.33	52.15	32.64	48.52	2777.78
	BIO - 92136	58.67	54.07	41.90	61.11	5162.04
	SEEDTEC - 1202	57.33	57.49	43.06	50.00	5324.07
	FH - 3161	57.67	54.82	46.06	62.22	4768.52
	X - 3342	55.33	62.48	46.76	52.59	6597.22
	MAHI KANCHAN	46.67	52.57	33.80	52.22	3101.85
	KIRAN	50.67	53.15	43.52	49.26	6643.52
	EC - 3108	54.67	54.17	36.11	53.70	2870.37
	HIM - 129	53.00	52.65	41.44	59.63	3935.19
	SURYA	52.00	53.05	37.96	58.89	3680.56
N160	R - 9803	53.33	54.07	37.73	52.96	3680.56
	BIO - 92136	57.17	56.23	51.39	61.48	6365.74
	SEEDTEC - 1202	57.50	56.24	47.45	52.22	6412.04
	FH - 3161	58.00	56.08	50.23	58.52	5370.37
	X - 3342	55.33	64.57	50.93	54.07	7245.37
	MAHI KANCHAN	46.67	53.82	41.20	52.59	4027.78
	KIRAN	50.67	55.24	47.69	50.74	7060.19
	EC - 3108	54.83	46.00	38.89	58.15	3611.11
	HIM - 129	54.83	42.32	44.44	61.11	4444.44
	SURYA	52.00	43.11	40.74	61.85	4120.37

Location Mean	53.29	53.00	40.42	54.20	4375.77
C.D.(5%) AiBj-AiBk	4.83	9.53	3.17	6.41	470.79
C.D.(5%) AiBk-AjBk	5.09	9.39	3.47	6.36	498.25
F(5%)	n.s.	n.s.	s	n.s.	s

N 60	51.92	51.58	35.86	51.41	3407.41
N 120	53.93	54.66	40.32	54.81	4486.11
N 180	54.03	52.77	45.07	56.37	5233.80

C.D.(5%) Ai-Aj	2.24	2.64	1.78	1.91	228.70
C.V.(%) Error A	7.68	6.94	6.16	4.91	7.29
F(5%)	n.s.	n.s.	s	s	s

Cont...

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R - 9803	52.44	52.35	34.18	49.01	2993.83
BIO - 92136	56.83	54.43	44.29	57.90	5169.75
SEEDTEC - 1202	58.50	55.94	43.06	48.89	5077.16
FH - 3161	57.00	53.77	45.14	58.15	4722.22
X - 3342	54.67	61.09	46.37	52.59	6180.56
MAHI KANCHAN	46.56	52.10	35.34	51.11	3310.19
KIRAN	50.00	52.49	42.59	48.27	6003.09
EC - 3108	54.11	50.39	35.96	54.81	3016.98
HIM - 129	53.50	48.69	39.35	60.25	3773.15
SURYA	51.33	48.80	37.89	60.99	3510.80

C.D.(5%) Bi-Bj	2.79	5.50	1.83	3.70	271.81
C.V.(%) Error B	6.44	10.97	4.79	7.22	6.57
F(5%)	s	s	s	s	s

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A - 57

Main Plot	Treatments	% post flowering stock root effected plant	% of Barran Plants
		Udai	Udai
N40	R - 9803	2.67	1.33
	BIO - 92136	2.67	1.67
	SEEDTEC - 1202	3.67	2.67
	FH - 3161	0.00	0.00
	X - 3342	2.67	2.83
	MAHI KANCHAN	2.67	2.50
	KIRAN	5.50	5.17
	EC - 3108	8.00	4.83
	HIM - 129	7.17	4.50
	SURYA	9.00	4.17
N100	R - 9803	2.17	1.33
	BIO - 92136	2.67	1.67
	SEEDTEC - 1202	3.83	1.67
	FH - 3161	0.00	0.17
	X - 3342	2.33	2.33
	MAHI KANCHAN	2.50	2.83
	KIRAN	5.33	5.00
	EC - 3108	8.17	3.83
	HIM - 129	9.00	4.67
	SURYA	8.00	5.00
N160	R - 9803	2.17	1.00
	BIO - 92136	2.33	1.17
	SEEDTEC - 1202	3.50	1.50
	FH - 3161	0.33	0.17
	X - 3342	2.67	2.67
	MAHI KANCHAN	2.17	4.00
	KIRAN	3.00	4.67
	EC - 3108	4.17	3.83
	HIM - 129	6.17	4.50
	SURYA	8.17	4.83

Location Mean	4.09	2.88
C.D.(5%) AIBj-AIBk	1.62	1.18
C.D.(5%) AIBk-AjBk	1.63	1.26
F(5%)	s	n.s.

N 60		4.40	2.97
N 120		4.40	2.85
N 180		3.47	2.83

C.D.(5%) AI-Aj	0.55	0.60
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A - 58

C.V.(%) Error A 24.43 37.89
F(5%) s n.s.

R - 9803	2.33	1.22
BIO - 92136	2.56	1.50
SEEDTEC - 1202	3.67	1.94
FH - 3161	0.11	0.11
X - 3342	2.56	2.61
MAHI KANCHAN	2.44	3.11
KIRAN	4.61	4.94
EC - 3108	6.78	4.17
HIM - 129	7.44	4.56
SURYA	8.39	4.67

C.D.(5%) Bi-Bj 0.94 0.68
C.V.(%) Error B 28.12 28.95
F(5%) s s

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Table 15. Effect of date of sowing and methods at Ludhiana

Main Plot	Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of ear (000/ha)	Days to 50% silking	Plant height in cm
10-Jun	T1	5758.24	55.68	63.37	52.67	175.00
	T2	6166.67	57.69	64.84	52.33	186.67
	T3	5877.29	54.21	52.56	52.67	173.33
	T4	6311.36	55.49	59.71	53.00	161.67
	T5	5879.12	56.59	65.38	52.33	198.33
	T6	5705.13	55.86	65.93	52.00	178.33
25-Jun	T1	5238.10	59.34	59.89	54.00	173.33
	T2	5694.14	57.14	61.17	53.00	191.67
	T3	5034.80	50.00	54.21	54.00	158.33
	T4	5624.54	53.11	61.36	53.00	168.33
	T5	5379.12	47.99	57.69	52.33	183.33
	T6	5071.43	54.03	56.59	52.33	178.33
10-Jul	T1	4250.92	54.40	52.20	54.33	161.67
	T2	4963.37	52.93	52.01	52.67	168.33
	T3	3578.75	50.73	47.25	54.33	163.33
	T4	3587.91	46.70	45.79	53.67	161.67
	T5	4831.50	54.40	54.03	53.67	173.33
	T6	4639.19	46.89	48.53	53.67	160.00
Location Mean		5199.53	53.51	56.81	53.11	173.06
C.D.(5%) AIBj-AIBk		722.16	5.87	5.21	1.39	14.83
C.D.(5%) AIBk-AjBk		799.70	6.03	6.00	1.57	16.15
F(5%)		s	s	s	n.s.	n.s.
10-Jun		5949.63	55.92	61.97	52.50	178.89
25-Jun		5340.35	53.60	58.49	53.11	175.56
10-Jul		4308.61	51.01	49.97	53.72	164.72
C.D.(5%) Ai-Aj		465.69	2.85	3.75	0.95	9.06
C.V.(%) Error A		9.68	5.76	7.13	1.93	5.66
F(5%)		s	s	s	n.s.	s
T1		5082.42	56.47	58.49	53.67	170.00
T2		5608.06	55.92	59.34	52.67	182.22
T3		4830.28	51.65	51.34	53.67	165.00
T4		5174.60	51.77	55.62	53.22	163.89
T5		5363.25	52.99	59.04	52.78	185.00
T6		5138.58	52.26	57.02	52.67	172.22
C.D.(5%) Bi-Bj		416.94	3.39	3.01	0.80	8.56
C.V.(%) Error B		8.33	6.58	5.50	1.57	5.14
F(5%)		s	s	s	s	s

- T1 = Flat sowing + Earthing up
- T2 = Ridge sowing + Earthing up
- T3 = Trench Sowing
- T4 = Trench sowing + Earthing up
- T5 = Raised bed sowing
- T6 = Raised bed sowing + Earthing up

A - 60

Table 16. Performance of germplasm at different levels of Nitrogen at Ludhiana

Main Plot	Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of ear (000/ha)	Days to 50% silking	Plant height in cm
10-Jun	Paras	6034.72	76.62	76.39	58.67	210.00
	JH3459	4525.46	69.68	71.76	52.00	175.00
	JH 10655	7500.00	78.70	79.17	59.00	233.33
	JH 10589	4650.46	74.54	71.76	58.33	210.00
	JH 3851	6481.48	81.48	87.27	50.67	181.67
	JH 3854	5479.17	77.78	77.31	52.67	191.67
25-Jun	Paras	5740.74	74.07	77.55	58.33	190.00
	JH3459	3668.98	72.22	57.87	52.33	173.33
	JH 10655	7368.06	78.70	74.77	57.00	235.00
	JH 10589	4648.15	78.24	70.83	57.33	200.00
	JH 3851	5967.59	79.86	81.48	51.00	186.67
	JH 3854	4546.30	79.86	75.46	52.33	195.00
10-Jul	Paras	4358.80	63.89	63.66	56.33	205.00
	JH3459	3675.93	62.27	60.42	49.67	158.33
	JH 10655	5747.69	75.00	71.53	54.00	220.00
	JH 10589	3898.15	71.30	70.60	54.00	196.67
	JH 3851	4673.61	68.75	74.54	49.67	190.00
	JH 3854	4152.78	64.35	67.13	49.33	168.33

Location Mean	5173.23	73.74	72.75	54.04	195.56
C.D.(5%) AiBj-AiBk	1183.62	7.40	5.86	1.23	11.70
C.D.(5%) AiBk-AjBk	1257.96	7.62	9.00	1.24	13.77
F(5%)	n.s.	n.s.	s	s	s

10-Jun	5778.55	76.47	77.28	55.22	200.28
25-Jun	5323.30	77.16	72.99	54.72	196.67
10-Jul	4417.82	67.59	67.98	52.17	189.72

C.D.(5%) Ai-Aj	663.76	3.63	7.37	0.53	8.93
C.V.(%) Error A	13.87	5.33	10.95	1.05	4.93
F(5%)	s	s	n.s.	s	n.s.

Paras	5378.09	71.53	72.53	57.78	201.67
JH3459	3956.79	68.06	63.35	51.33	168.89
JH 10655	6871.91	77.47	75.15	56.67	229.44
JH 10589	4398.92	74.69	71.06	56.56	202.22
JH 3851	5707.56	76.70	81.10	50.44	186.11
JH 3854	4726.08	74.00	73.30	51.44	185.00

C.D.(5%) Bi-Bj	683.36	4.27	3.39	0.71	6.76
C.V.(%) Error B	13.72	6.02	4.83	1.37	3.59
F(5%)	s	s	s	s	s

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Table 17. Performance of full season germplasm at different levels of N at Ludhiana

Main Plot	Treatments	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of ear (000/ha)	Days to 50% silking	Plant height in cm
N 60	Paras	4518.85	51.09	51.34	63.67	160.00
	Seed tech 740	4578.37	63.49	63.24	61.33	136.67
	JH 10655	4908.23	58.53	56.55	62.33	178.33
	JH 10689	5344.74	61.51	65.48	63.00	155.00
N 120	Paras	6250.00	51.84	52.83	62.67	163.33
	Seed tech 740	5721.73	58.04	58.78	60.33	153.33
	JH 10655	7708.33	64.73	64.73	60.33	196.67
	JH 10689	6217.76	65.48	65.72	62.00	168.33
N 180	Paras	6594.74	51.84	59.03	60.00	173.33
	Seed tech 740	6116.07	58.78	59.77	60.00	171.67
	JH 10655	8102.68	61.51	64.24	59.00	203.33
	JH 10689	6264.88	61.26	64.73	60.67	181.67

Location Mean	6027.20	59.01	60.54	61.28	170.14
C.D.(5%) AiBj-AiBk	1240.33	7.20	8.53	1.41	10.41
C.D.(5%) AiBk-AjBk	1233.04	7.09	10.86	1.56	10.24
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	4837.55	58.66	59.15	62.58	157.50
N 120	6474.45	60.02	60.52	61.33	170.42
N 180	6769.59	58.35	61.94	59.92	182.50

C.D.(5%) Ai-Aj	621.07	3.46	8.10	1.00	5.00
C.V.(%) Error A	9.09	5.17	11.81	1.44	2.59
F(5%)	s	n.s.	n.s.	s	s

Paras	5787.86	51.59	54.40	62.11	165.56
Seed tech 740	5472.06	60.10	60.60	60.56	153.89
JH 10655	6906.42	61.59	61.84	60.56	192.78
JH 10689	5942.46	62.75	65.31	61.89	168.33

C.D.(5%) Bi-Bj	716.10	4.16	4.93	0.81	6.01
C.V.(%) Error B	12.00	7.11	8.21	1.34	3.57
F(5%)	s	s	s	s	s

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Table 18. Performance of early maturity germplasm at different levels of N at Ludhiana

Main Plot	Treatments	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of ear (000/ha)	Days to 50% silking	Plant height in cm
N 60	Parkash	4032.74	65.23	66.72	58.00	133.33
	JH 3851	4506.45	66.47	65.97	58.67	138.67
	JH 31091	4459.33	67.46	68.95	58.67	131.67
	QPM 83	3583.83	68.20	67.21	57.00	148.33
N 90	Parkash	5079.37	65.48	65.97	56.33	145.00
	JH 3851	5900.30	70.19	69.44	58.00	146.67
	JH 31091	5017.36	66.22	66.72	57.00	143.33
	QPM 83	4221.23	62.75	60.27	55.67	163.33
N 120	Parkash	5701.88	66.47	69.20	55.33	155.00
	JH 3851	6222.72	69.69	71.92	55.00	158.33
	JH 31091	5344.74	67.96	68.45	55.00	155.00
	QPM 83	4940.48	66.72	66.72	55.67	175.00

Location Mean	4917.53	66.90	67.29	56.69	149.31
C.D.(5%) A Bj-A Bk	920.66	6.06	5.33	1.68	8.93
C.D.(5%) A Bk-A Bj	1137.61	6.94	7.18	3.00	8.10
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N 60	4145.59	66.84	67.21	58.08	137.50
N 90	5054.56	66.16	65.60	56.75	149.58
N 120	5552.46	67.71	69.07	55.25	160.83

C.D.(5%) Ai-Aj	826.70	4.64	5.59	2.64	2.50
C.V.(%) Error A	14.83	6.12	7.33	4.12	1.48
F(5%)	s	n.s.	n.s.	n.s.	s

Parkash	4938.00	65.72	67.29	56.56	144.44
JH 3851	5543.15	68.78	69.11	57.22	147.22
JH 31091	4940.48	67.21	68.04	56.89	143.33
QPM 83	4248.51	65.89	64.73	56.11	162.22

C.D.(5%) Bi-Bj	531.55	3.50	3.08	0.97	5.15
C.V.(%) Error B	10.91	5.28	4.61	1.73	3.49
F(5%)	s	n.s.	s	n.s.	s

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Table 19. Performance of full season germplasm at different sowing dates at Karnal

Main Plot	Treatments	Grain Yield (kg/ha)
17/06/03	1176	5380.00
	HM5	7166.67
	HM6	6433.33
	HQPM-1	7703.33
2/7/2003	1176	5863.33
	HM5	7253.33
	HM6	6570.00
	HQPM-1	7846.67
17/07/03	1176	3880.00
	HM5	5466.67
	HM6	4730.00
	HQPM-1	6230.00

Location Mean	6210.28
C.D.(5%) A _i B _j -A _i B _k	249.04
C.D.(5%) A _i B _k -A _j B _k	331.49
F(5%)	n.s.

17/06/03	6670.83
2/7/03	6883.33
17/07/03	5076.67

C.D.(5%) A _i -A _j	255.95
C.V.(%) Error A	3.64
F(5%)	s

1176	5041.11
HM5	6628.89
HM6	5911.11
HQPM-1	7260.00

C.D.(5%) B _i -B _j	143.78
C.V.(%) Error B	2.34
F(5%)	s

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Table 21. Performance of early maturity germplasm at different N levels at Karnal

Main Plot	Treatments	Grain Yield (kg/ha)
N 0	335	2100.00
	1025	2600.00
	139	2633.33
	HM 6	2833.33
	Surya	1366.67
N 100	335	4266.67
	1025	4466.67
	139	4500.00
	HM 6	4766.67
	Surya	3250.00
N 150	335	5350.00
	1025	5983.33
	139	6150.00
	HM 6	6600.00
	Surya	4566.67
N 200	335	5933.33
	1025	6766.67
	139	6883.33
	HM 6	7033.33
	Surya	4766.67

Location Mean 4640.83
 C.D.(5%) AiBj-AiBk 289.57
 C.D.(5%) AiBk-AjBk 327.17
 F(5%) s

N 0	2306.67
N 100	4250.00
N 150	5730.00
N 200	6276.67

C.D.(5%) Ai-Aj 201.89
 C.V.(%) Error A 4.87
 F(5%) s

335	4412.50
1025	4954.17
139	5041.67
HM 6	5308.33
Surya	3487.50

C.D.(5%) Bi-Bj 144.79
 C.V.(%) Error B 3.75
 F(5%) s

Table 23. Studies on intercropping and insitu green manuring for affecting chemical fertilizer use economy in maize based cropping system under rainfed conditions at Almora

Main Plot	Treatment	Plant Height (cm)	Days to 50% silking	No. of cobs (000/ha)	Cob length	cob diameter	Grain Yield (kg/ha)
T1	F1	238.33	56.67	23.67	12.27	13.73	2942.47
	F2	245.00	55.00	25.33	13.20	14.20	3557.31
	F3	233.33	55.00	25.33	12.40	12.80	3162.06
T2	F1	253.00	53.33	24.00	14.20	14.47	3030.30
	F2	245.00	55.00	24.67	13.47	14.47	3249.89
	F3	243.33	56.67	24.67	12.93	14.60	3227.93
T3	F1	217.00	57.33	24.67	11.47	13.73	2371.54
	F2	216.33	58.00	24.67	12.67	13.93	3403.60
	F3	232.67	56.00	25.00	13.00	14.40	3315.77
T4	F1	238.33	58.00	24.67	11.80	12.93	1932.37
	F2	229.67	56.67	24.33	10.87	13.47	2086.08
	F3	224.00	57.67	25.00	12.13	13.20	1818.18
T5	F1	238.67	56.33	24.00	12.20	14.00	2920.51
	F2	232.67	56.67	25.33	12.73	14.33	3052.26
	F3	261.00	55.67	24.67	12.27	14.20	3447.52
Location Mean		236.56	56.27	24.67	12.51	13.90	2901.19
C.D.(5%) AiBj-AiBk		13.48	1.02	1.52	0.91	0.86	710.71
C.D.(5%) AiBk-AjBk		13.62	1.03	2.02	1.08	0.97	945.33
F(5%)		s	s	n.s.	s	n.s.	n.s.
T1		238.89	55.56	24.78	12.62	13.58	3220.61
T2		247.11	55.00	24.44	13.53	14.51	3169.37
T3		222.00	57.11	24.78	12.38	14.02	3030.30
T4		230.67	57.44	24.67	11.60	13.20	1945.54
T5		244.11	56.22	24.67	12.40	14.18	3140.10
C.D.(5%) Ai-Aj		8.05	0.61	1.59	0.78	0.67	747.70
C.V.(%) Error A		3.13	0.99	5.94	5.74	4.42	23.71
F(5%)		s	s	n.s.	s	s	s
F1		237.07	56.33	24.20	12.39	13.77	2639.44
F2		233.73	56.27	24.87	12.59	14.08	3069.83
F3		238.87	56.20	24.93	12.55	13.84	2994.29
C.D.(5%) Bi-Bj		6.03	0.45	0.68	0.41	0.38	317.84
C.V.(%) Error B		3.34	1.06	3.63	4.27	3.63	14.38
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	s

T1 = Pure maize (without FYM)
 T2 = Pure maize (5 t FYM/ha oven dry wt. Basis)
 T3 = Maize + cowpea (GM)
 T4 = Maize + cowpea (Grain crop)
 T5 = Maize + sunhemp (GM)

F1 = 50% of recommended
 F2 = 75% of recommended
 F3 = 100% of recommended
 60:30:20

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Table 24. Studies on chemical fertilizer economy and yield sustainability through IPNS in maize-wheat cropping systems under rainfed conditions at Almora

Main Plot	Treatments	Plant Height (cm)	Days to 50% silking	No. of cobs (000/ha)	Cob length	cob diameter	Grain Yield (kg/ha)
T1	F1	285.67	53.00	23.67	12.60	13.40	6157.41
	F2	293.00	52.00	25.33	14.20	14.40	8194.44
	F3	297.67	51.00	25.33	13.53	14.07	9398.15
T2	F1	279.00	53.00	24.00	13.27	13.47	6435.19
	F2	284.33	52.00	24.67	13.93	13.73	7916.67
	F3	294.67	51.00	24.67	13.47	13.73	8194.44
T3	F1	278.67	53.00	24.67	12.67	13.80	7037.04
	F2	291.00	52.00	24.67	13.33	13.13	7500.00
	F3	296.67	51.00	25.00	13.07	13.73	7916.67
T4	F1	279.33	53.33	24.67	13.27	13.87	6980.74
	F2	287.67	52.00	24.33	13.53	13.80	8009.26
	F3	299.00	51.00	25.00	12.67	13.87	8055.56
T5	F1	284.00	53.00	24.00	13.80	14.13	6686.67
	F2	287.67	52.00	25.33	13.40	14.13	8148.15
	F3	295.67	51.00	24.67	13.73	14.00	8657.41
Location Mean		288.93	52.02	24.67	13.36	13.82	7685.19
C.D.(5%) AiBj-AiBk		8.62	0.25	1.52	0.63	0.47	950.49
C.D.(5%) AiBk-AjBk		9.39	0.26	2.02	0.65	0.52	1184.09
F(5%)		n.s.	n.s.	n.s.	s	s	n.s.
T1		292.11	52.00	24.78	13.44	13.96	7916.67
T2		286.00	52.00	24.44	13.56	13.64	7515.43
T3		288.78	52.00	24.78	13.02	13.56	7484.57
T4		288.67	52.11	24.67	13.16	13.84	7685.19
T5		289.11	52.00	24.67	13.64	14.09	7824.07
C.D.(5%) Ai-Aj		6.23	0.16	1.59	0.41	0.35	896.26
C.V.(%) Error A		1.98	0.29	5.94	2.79	2.36	10.73
F(5%)		n.s.	n.s.	n.s.	s	s	n.s.
F1		281.33	53.07	24.20	13.12	13.73	6657.41
F2		288.73	52.00	24.87	13.68	13.84	7953.70
F3		296.73	51.00	24.93	13.29	13.88	8444.44
C.D.(5%) Bi-Bj		3.85	0.11	0.68	0.28	0.21	425.07
C.V.(%) Error B		1.75	0.29	3.63	2.75	1.98	7.26
F(5%)		s	s	n.s.	s	n.s.	s

- T1 = FYM @ 5 t/ha (Oven dry weight basis)**
T2 = Lantana
T3 = Kudzu
T4 = FYM @ 2.5 t/ha + lantana to supply remaining N
T5 = FYM @ 2.5 t/ha + Kudzu to supply remaining N
F1 = 50% of recommended
F2 = 100% of recommended (90:60:40 kg N, P₂O₅ and K₂O/ha)
F3 = 150% of recommended

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Table 25. Sunhemp intercrop with maize for green manuring Chindwara

Treatment	Plant Population (000/ha)	Days to 50% silking	Plant height cm	No. of cobs (000/ha)	Grain Yield at 15% Moisture (kg/ha)	No. of sunhemp Plant	Sunhemp wt. Green
T1	75.00	51.67	209.67	70.33	4655.56	371.67	9250.00
T2	73.33	52.00	208.00	61.00	4500.00	598.67	13111.11
T3	64.00	52.33	202.67	60.33	3466.67	442.00	11833.33
T4	77.00	51.67	220.33	69.67	5233.33	365.67	4111.11
T5	75.00	52.00	220.00	64.33	5144.44	526.67	5916.67
T6	67.67	52.00	216.33	62.67	4566.67	393.67	5722.22
T7	77.33	51.33	224.67	73.00	4733.33	334.67	3833.33
T8	75.00	51.67	220.67	69.67	5166.67	450.00	4555.56
T9	70.00	52.00	213.33	67.00	5100.00	331.33	4305.56

Location mean 72.70 51.85 215.07 66.44 4729.63 423.81 6959.88

C.D.(5%)

Bi-Bj 8.93 2.03 13.45 7.75 1035.28 84.34 933.08

C.V.(%)

Error B 7.10 2.26 3.61 6.74 12.65 11.50 7.75

F(5%) N.S. N.S. N.S. S N.S. S S

- T1 = Maize + Sun hemp (1:1) with Date of sowing on (25.6.03)
- T2 = Maize + Sun hemp (1:2) with date of sowing on (25.6.03)
- T3 = Maize + Sun hemp (1 + Broadeast) with Date of sowing on (25.06.03)
- T4 = Maize + Sun hemp (1:1) with Date of sowing on (11.07.03)
- T5 = Maize + Sun hemp (1:2) with date of sowing on (11.07.03)
- T6 = Maize + Sun hemp (1 + Broadeast) with Date of sowing on (11.7.03)
- T7 = Maize + Sun hemp (1:1) with Date of sowing on (26.7.03)
- T8 = Maize + Sun hemp (1:2) with date of sowing on (26.7.03)
- T9 = Maize + Sun hemp (1 + Broadeast) with Date of sowing on (26.07.03)

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Table 26. Sesbania Intercrop with maize for green manuring Chindwara

Treatment	Plant Population (000/ha)	Days to 50% silking	Plant height (cm)	No. of cobs (000/ha)	Grain Yield at 15% Moisture (kg/ha)	No. of sunhemp	Sunhemp wt. Green
T1	61.11	52.33	217.87	55.56	5300.00	228.33	4777.78
T2	60.56	52.67	212.33	55.00	5166.67	374.00	7805.56
T3	58.33	53.33	206.67	50.28	4233.33	252.33	8611.11
T4	63.61	52.00	227.00	57.22	5400.00	243.67	3833.33
T5	59.72	52.33	220.00	55.83	5100.00	270.33	5611.11
T6	58.06	53.00	211.67	54.72	4366.67	204.33	6750.00
T7	66.39	52.00	228.00	61.11	5900.00	193.33	3166.67
T8	65.83	52.33	215.67	57.22	5355.56	231.00	4055.56
T9	64.17	53.00	214.67	57.22	4500.00	202.67	3777.78
Location mean	61.98	52.56	217.07	56.02	5035.80	244.22	5376.54
C.D.(5%)	7.34	1.58	12.80	8.57	1041.36	34.95	917.62
Bl-Bj							
C.V.(%)	6.84	1.74	3.41	8.84	11.95	8.27	9.86
Error B							
F(5%)	N.S.	N.S.	S	N.S.	N.S.	S	S

- T1 = Maize + Sesbania (1:1) with Date of sowing on (25.6.03)**
T2 = Maize + Sesbania (1:2) with date of sowing on (25.6.03)
T3 = Maize + Sesbania (1 + Broadcast) with Date of sowing on (25.06.03)
T4 = Maize + Sesbania (1:1) with Date of sowing on (11.07.03)
T5 = Maize + Sesbania (1:2) with date of sowing on (11.07.03)
T6 = Maize + Sesbania (1 + Broadcast) with Date of sowing on (11.7.03)
T7 = Maize + Sesbania (1:1) with Date of sowing on (26.7.03)
T8 = Maize + Sesbania (1:2) with date of sowing on (26.7.03)
T9 = Maize + Sesbania (1 + Broadcast) with Date of sowing on (26.07.03)

Table 27. Flower intercrop with sweet corn at Chindwara

Main plot	Treatment	Plant Population (000/ha)	Days to 50% silking	Plant height cm	No. of cobs (000/ha)	Grain Yield at 15% Moisture (kg/ha)	Flower yield	No. of flower (000/ha)
F1	T1	54.44	56.00	192.00	59.00	1525.00	1022.78	211.11
	T2	51.94	56.67	165.00	51.00	1333.33	1201.67	303.89
	T3	57.22	53.00	195.33	62.00	2111.11	954.44	941.94
	T4	56.11	56.00	172.00	58.67	2038.89	1083.06	1039.72
	T5	54.72	56.00	191.00	55.33	1858.33	672.22	587.22
	T6	53.06	56.67	171.67	47.67	1822.22	749.44	785.28
F2	T1	56.11	54.00	195.33	60.33	1727.78	450.56	153.33
	T2	52.50	54.67	179.67	53.00	1461.11	469.44	453.89
	T3	58.06	52.33	201.67	62.33	2308.33	493.61	764.17
	T4	56.94	53.00	179.67	63.00	2127.78	688.33	828.61
	T5	55.28	55.33	198.67	60.33	2380.56	401.39	304.17
	T6	53.33	56.33	179.67	52.67	2127.78	492.22	545.83
	Sole maize	58.61	52.33	197.00	62.33	2363.89	-	-

Location mean 55.26 54.79 186.05 57.51 1937.39 723.26 576.60

C.D.(5%) Bi-Bj 4.25 1.80 7.54 6.00 282.37 140.43 263.31

C.V.(%) Error B 4.56 1.95 2.41 6.19 8.65 11.47 26.97

F(5%) N.S. S S S S S S

- F1 Time of maize sowing
- F2 35 DAS of maize sowing
- T1 Sweet maize + Marigold Big (1:1)
- T2 Sweet maize + Marigold Big (1:2)
- T3 Sweet maize + Marigold small (1:1)
- T4 Sweet maize + Marigold small (1:2)
- T5 Sweet maize + Crysanthimum (1:1)
- T6 Sweet maize + Crysanthimum (1:1)

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Table 28. Long term effect of organic and inorganic fertilizers in maize-wheat rotation under rainfed conditions at Almora(Maize).

Treatment	Plant Height (cm)	Barren plant	Days to 50% silking	Cob length	cob diameter	No. of cobs (000/ha)	Grain Yield (kg/ha)
T1	133.33	13.67	61.67	6.33	5.20	22.00	407.41
T2	242.00	2.67	52.00	12.60	11.20	35.33	4228.40
T3	162.33	11.67	54.67	10.60	10.40	24.00	2685.19
T4	191.67	7.00	60.33	10.80	10.60	31.00	1759.26
T5	233.00	6.33	54.00	12.53	10.80	30.00	1975.31
T6	207.67	2.67	54.33	11.87	10.73	33.00	3518.52
T7	255.33	1.67	52.00	13.60	11.93	35.00	4876.54
T8	256.33	2.33	53.00	13.67	11.40	35.00	4845.68
T9	211.33	4.33	57.00	11.20	10.87	33.67	2165.19
T10	245.67	2.33	52.00	13.27	11.67	35.33	4166.67
T11	247.33	3.33	52.67	12.40	11.33	32.67	4469.14
T12	243.33	4.00	54.67	12.13	11.27	32.67	3055.56
T13	192.00	4.00	56.00	11.33	10.93	33.67	2629.63
T14	241.33	3.67	54.67	10.87	11.20	32.33	2654.32
T15	257.67	2.00	53.00	12.07	11.33	35.00	3333.33
T16	244.00	3.33	54.33	12.67	11.47	33.67	3333.33

Location mean 222.77 4.69 54.77 11.75 10.77 32.15 3132.72

C.D.(5%) 12.58 3.29 1.34 0.88 0.81 4.72 979.65

Bi-Bj

C.V.(%) 3.39 4.06 1.46 4.50 4.50 8.81 18.76

Error B

F(5%) S S 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 = Wheat straw (5 t/ha) + 50% NPK
T13 = Rec. NPK
T14 = 10 t/ha Kudzu (fresh)
T15 = 10 t/ha kudzu (fresh)+50% NPK
T16 = Rec. NPK

WHEAT
Control
Rec. NPK (90:60:40 kg/ha)
Rec. NP
Rec. NK
Rec.PK
10 t/ha FYM
10 t/ha FYM+100% NPK
No fertilizer
10 t/ha FYM+100% NPK
10 t/ha FYM
10 t/ha FYM+50% NPK
Maize stalk (5 t/ha) + 50% NPK
Rec. NPK
10 t/ha Kudzu (fresh)
Rec. NPK
10 t/ha Kudzu (fresh)+ 50% NPK

Table 29. Long term effect of organic and Inorganic fertilizers in maize-wheat rotation under rainfed conditions at Almora (wheat).

Treatments	Plant Height (cm)	Effective tillers/m-row length	1000 grain weight	Ear length	No. of grains/ear	Grain Yield (kg/ha)
T1	77.07	53.00	35.93	4.70	13.80	355.73
T2	94.33	74.00	39.67	7.33	20.47	1396.57
T3	91.00	77.33	34.97	7.43	19.90	1203.34
T4	97.17	55.67	37.87	7.00	18.93	671.94
T5	83.40	58.00	38.87	5.73	12.27	478.70
T6	94.00	65.00	42.90	6.90	19.67	935.44
T7	107.60	80.00	43.47	8.20	25.53	2239.79
T8	90.00	54.33	42.90	6.47	16.57	777.34
T9	102.27	84.67	43.57	7.30	19.50	2222.22
T10	88.73	72.33	41.73	6.80	18.63	887.13
T11	103.73	77.67	43.80	7.23	19.67	1809.40
T12	91.80	65.33	40.30	7.23	19.80	900.31
T13	100.13	84.33	38.30	7.23	20.97	1387.79
T14	92.13	54.33	41.30	6.70	19.67	891.52
T15	99.60	87.33	40.37	7.33	21.23	1633.73
T16	100.07	69.33	39.50	8.00	22.63	1348.27

Location mean 94.56 69.54 40.34 6.98 19.33 1196.20

C.D.(5%) 7.69 15.25 2.12 0.99 4.20 367.12

Bi-Bj

C.V.(%) 4.88 13.15 3.15 8.49 13.04 18.41

Error B

F(5%) S 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 = Wheat straw (5 t/ha) + 50% NPK
T13 = Rec. NPK
T14 = 10 t/ha Kudzu (fresh)
T15 = 10 t/ha kudzu (fresh)+50% NPK
T16 = Rec. NPK

WHEAT

Control
Rec. NPK (90:60:40 kg/ha)
Rec. NP
Rec. NK
Rec. PK
10 t/ha FYM
10 t/ha FYM+100% NPK
No fertilizer
10 t/ha FYM+100% NPK
10 t/ha FYM
10 t/ha FYM+50% NPK
Maize stalk (5 t/ha) + 50% NPK
Rec. NPK
10 t/ha Kudzu (fresh)
Rec. NPK
10 t/ha Kudzu (fresh)+ 50% NPK

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Table 30. Integrated weed management in Maize+Legume Intercropping at Kangra

Treatment s	Maize equivalent weight	Weed dry matter in 50cm X 50cm space	Weed count in 50cm X 50cm space	Legume yield (kg/ha)	Grain yield kg/ha
T1	45.73	284.33	284.33	0.00	4573.33
T2	59.73	217.00	217.00	0.00	5973.33
T3	77.83	186.00	186.00	0.00	7783.33
T4	82.57	238.67	238.67	0.00	8256.67
T5	55.20	245.67	245.67	216.67	5046.67
T6	62.70	223.00	223.00	233.33	5760.00
T7	77.77	172.00	172.00	210.00	7316.67
T8	79.47	216.33	216.33	246.67	7410.00
T9	84.90	171.67	171.67	270.00	7900.00
T10	89.20	196.00	196.00	340.00	8176.67
T11	57.43	278.33	278.33	26.67	5590.00
T12	68.70	204.33	204.33	73.33	6443.33
T13	84.60	192.00	192.00	103.33	7860.00
T14	87.97	208.00	208.00	36.67	8586.67
T15	95.20	159.33	159.33	96.67	8956.67
T16	96.43	188.67	188.67	90.00	9120.00

Location mean 75.34 211.33 211.33 121.46 7172.08

C.D.(5%) 4.96 27.17 27.17 32.60 488.77

Bi-Bj

C.V.(%) 3.95 7.71 7.71 1609.65 408.74

Error B

F(5%) S S S s s

- T1 = Sole maize weedy check
- T2 = Sole maize hand weeding 20 DAS
- T3 = Sole maize Alachlor
- T4 = Sole maize Pendimethalin
- T5 = Maize + Soyabean alternate row weedy check
- T6 = Maize + Soyabean alternate row hand weeding
- T7 = Maize + Soybean alternate row Alachlor
- T8 = Maize + Soyabean alternate row Pendimethalin
- T9 = Maize + Soyabean alternate row Alachlor + HW
- T10 = Maize + Soybean alternate row Pendimethalin + HW
- T11 = Maize + Mash alternate row weedy check
- T12 = Maize + Mash alternate row hand weeding
- T13 = Maize + Mash alternate row Alachlor
- T14 = Maize + Mash alternate row Pendimethalin
- T15 = Maize + Mash alternate row Alachlor + HW
- T16 = Maize + Mash alternate row Pendimethalin + HW

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Table 31. IWM for maize based cropping system at Banswara

Treatment	Plant population (000/ha)	No. of cobs (000/ha)	Plant height cm	Days to 50% silking	Grain Yield (kg/ha)
T1	54.15	44.14	165.62	52.00	2313.67
T2	62.86	55.98	188.30	48.67	3169.33
T3	61.75	53.71	182.15	50.67	2903.67
T4	61.86	53.82	183.66	50.33	3104.33
T5	61.75	53.92	185.27	50.33	3127.00
T6	62.36	54.38	186.64	50.00	3156.00
T7	63.09	55.35	194.22	49.67	3416.00
T8	62.44	54.61	187.31	50.00	3206.67
T9	62.04	55.02	187.58	49.33	3162.67
T10	63.28	56.00	199.47	49.00	3710.67
Location m	61.56	53.69	186.02	50.00	3127.00
C.D.(5%) E	7.38	8.02	36.34	1.95	472.08
C.V.(%) Er	6.99	8.70	11.39	2.27	8.80
F(5%)	N.S.	N.S.	N.S.	N.S.	S

- T1 = Weedy check
- T2 = Manual weeding (15&30 DAS)
- T3 = Inclusion of legume intercrop (Maize + soyb 2:2)
- T4 = T3 fb pendimethalin (1.0 kg a.l.)
- T5 = T3 fb one hand weeding
- T6 = sole maize fb intercultivation 20 DAS
- T7 = sole maize fb intercultivation 20 & 35 DAS
- T8 = T6 fb removal of weeds manually from intercrops
- T9 = sole maize fb atrazine (0.75 kg a.l.)
- T10 = sole maize (weed free)

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Table 32. Organic farming (long - term experiment) (Cereals) at Godhra

Treatm ent	Grain Yield (kg/ha) (cereals)	Fodder yield (kg/ha)	Plant Height	Plant stand (000/ha)	No of cobs (000/ha)	Days to 50% silking
T1	1719.33	2577.78	126.33	62.72	29.11	52.00
T2	2074.44	3072.22	165.33	63.83	33.67	48.33
T3	2615.00	3794.44	175.33	65.50	38.50	46.00
T4	3498.39	4527.78	182.67	67.33	42.61	45.67
T5	4272.72	6238.89	192.00	68.06	51.00	44.33
Locatio n mean	2835.98	4042.22	168.33	65.49	38.98	47.27
C.D.(5 %)	80.64	830.31	14.40	5.99	0.81	1.50
Bl-Bj						
C.V.(%)	1.51	10.91	4.54	4.86	1.10	1.68
Error B						
F(5%)	S	S	S	N.S.	S	S

- T1 = FYM to meet 60 kg P₂O₅/ha**
T2 = T1 + Recommended dose of N
T3 = Recommended dose of NPK
T4 = Recommended dose of NPK + S @ 20 kg/ha
T5 = Recommended dose of NPK + S @ 20 kg/ha + ZnSo₄ 25 kg/ha

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**Table 33. Organic farming (long - term experiment)
(Pulse) at Godhra**

Treatm ent	Grain Yield (kg/ha) (cereals)	Fodder yield (kg/ha)	Plant Height	Plant stand (000/ha)	No of cobs (000/ha)	Days to 50% silking
T1	1584.33	2377.78	131.00	62.89	27.72	52.00
T2	2055.61	3038.89	163.67	63.72	36.61	48.67
T3	2479.06	3616.67	175.33	65.56	39.17	46.00
T4	3772.89	5444.44	184.33	66.94	42.50	45.67
T5	4093.72	6016.67	194.67	68.11	50.00	44.33
Locatio n mean	2797.12	4098.89	169.80	65.44	39.20	47.33
C.D.(5 %)	286.54	451.20	9.03	2.63	1.79	1.61
Bi-Bj						
C.V.(%)	5.44	5.85	2.82	2.14	2.42	1.81
Error B						
F(5%)	S	S	S	S	S	S

T1 = FYM to meet 60 kg P₂O₅/ha

T2 = T1 + Recommended dose of N

T3 = Recommended dose of NPK

T4 = Recommended dose of NPK + S @ 20 kg/ha

T5 = Recommended dose of NPK + S @ 20 kg/ha + ZnSo₄ 25 kg/ha

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Table 34. INM in maize -wheat cropping system at Banswara

Treatment	Plant population 000/ha	No. of cobs 000/ha	Plant height cm	Days to 50% silking	Grain Yield (kg/ha)
T1	59.62	53.25	176.75	50.33	3221.00
T2	59.54	53.46	178.53	50.00	3235.33
T3	60.80	55.57	198.10	49.00	4317.00
T4	60.32	54.38	192.24	50.33	3783.33
T5	59.90	52.08	172.91	51.00	3123.67
T6	59.46	52.15	178.05	51.00	3168.67
T7	59.28	52.03	173.02	50.67	2976.33
T8	61.37	55.24	184.74	49.33	4100.00
T9	62.02	55.43	188.98	48.67	4165.00
T10	61.80	54.61	184.98	49.33	4027.67
T11	59.54	52.19	175.61	51.67	3482.00
T12	59.42	51.78	174.76	51.67	3013.00

Location me. 60.24 53.51 181.56 50.25 3549.42

C.D.(5%) Bi- 6.67 7.96 28.98 1.85 698.24

C.V.(%) Errc 6.54 8.79 9.42 2.17 11.62

F(5%) N.S. N.S. N.S. S s

- T1 = RDF as per str
- T2 = RDF
- T3 = 100% RDF + 10 t FYM
- T4 = 75% RDF + 10 t FYM
- T5 = Seed treatment with azotobactor + 75% of N + full PK
- T6 = Seed treatment with PSB + 75% P+ full NK
- T7 = Seed treatment with azotobactor + PSB + 75% NPK
- T8 = T5 with 10 t FYM
- T9 = T6 with 10 t FYM
- T10 = T7with 10 t FYM
- T11 = Seed treatment azotobactor + PSB + 50%
- T12 = Insitu green manuring by cowpea + 75% NPK

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Table 35. Integrated nutrient management in maize at Chindwara

Treatment	Plant Stand (000/ha)	Days to 50% silking	Plant height cm	No. of cobs (000/ha)	Grain Yield at 15% Moisture (kg/ha)
T1	62.50	52.33	218.33	58.89	5233.33
T2	62.22	52.67	218.00	58.61	5050.00
T3	62.78	53.00	225.00	60.28	5138.89
T4	59.44	54.33	208.00	56.11	4500.00
T5	61.67	54.33	211.67	56.67	4716.67
T6	61.67	53.33	212.33	56.94	4733.33
T7	58.89	53.33	209.33	55.28	4100.00
T8	61.94	52.67	214.00	57.22	4800.00
T9	62.22	53.33	215.00	58.33	5016.67
T10	60.56	53.67	210.67	56.11	4700.00
T11	58.33	54.00	207.00	48.89	4083.33
T12	55.00	54.67	188.67	47.78	3783.33

Location me: 60.60 53.47 211.50 55.93 4654.63

C.D.(5%) Bi- 4.99 1.54 12.53 5.06 459.39

C.V.(%) Errc 4.86 1.70 3.50 5.34 5.83

F(5%) N.S. N.S. S S S

- T1 = Recommended dose NPK through fertilizer based on soil test value
- T2 = Recommended dose NPK through fertilizer
- T3 = Recommended dose NPK through fertilizer + FYM 10 t/ha
- T4 = 75% of recommended dose NPK through fertilizer + FYM 10 t/ha
- T5 = Azotobactor seed treatment + 75% of N + Full dose of P and K through fertilizer
- T6 = PSB + 75% of P + Full dose of N and K through fertilizer.
- T7 = Azotobactor + PSB seed treatment + 75% of NPK through fertilizer + FYM 10 t/ha.
- T8 = Azotobactor + 75% of N + full dose of P and K through fertilizer + fym 10 t/ha.
- T9 = PSB + 75% of P + Full dose of N and K through fertilizer + FYM 10 t/ha.
- T10 = Azotobactor + PSB + 75% of NPK through fertilizer + Fym 10 t/ha
- T11 = Azotobactor + PSB + 50% of NPK through fertilizer + FYM 10 t/ha
- T12 = In situ green manuring (by Dhaincha and its incorporated)

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Table 36. Organic Farming (Long-term-experiment) at Kolhapur

Main Plot	Treatments	Days to 50% Silking	No of cobs (000/ha)	Grain Yield (kg/ha)	Plant Population (000/ha)	Plant height in cm
F1	T1	63.67	38.10	6281.27	54.48	176.33
	T2	62.00	58.10	8645.71	54.86	182.00
	T3	62.00	56.83	8460.32	55.87	186.67
	T4	62.33	57.33	7973.33	55.11	175.33
	T5	63.00	58.67	8199.37	53.84	177.67
F2	T1	63.67	41.46	6200.63	54.29	172.33
	T2	62.00	56.13	8782.22	54.98	180.67
	T3	62.67	56.63	7726.98	56.76	185.00
	T4	62.67	57.97	8108.57	56.25	183.00
	T5	62.33	55.49	8040.63	53.84	181.00

Location Mean	62.63	53.67	7841.90	55.03	180.00
C.D.(5%) AiBj-AiBk	1.89	3.11	508.30	1.51	6.35
C.D.(5%) AiBk-AjBk	1.92	3.67	498.79	1.35	5.73
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

F1		62.60	53.80	7912.00	54.83	179.60
F2		62.67	53.54	7771.81	55.23	180.40

C.D.(5%) Ai-Aj	1.03	2.70	235.61	0.05	0.86
C.V.(%) Error A	1.05	3.20	1.91	0.06	0.30
F(5%)	n.s.	n.s.	n.s.	s	n.s.

T1		63.67	39.78	6240.95	54.38	174.33
T2		62.00	57.11	8713.97	54.92	181.33
T3		62.33	56.73	8093.65	56.32	185.83
T4		62.50	57.65	8040.95	55.68	179.17
T5		62.67	57.08	8120.00	53.84	179.33

C.D.(5%) Bi-Bj	1.34	2.20	359.42	1.07	4.49
C.V.(%) Error B	1.74	3.35	3.74	1.59	2.04
F(5%)	n.s.	s	s	s	s

- F1 = Maize-Cereal**
F2 = Maize - pulse
T1 = FYM to meet 60 kgP₂O₅/ha
T2 = T1w + recom. Dose of N
T3 = Recom. Dose of NPK
T4 = Recom. Dose of NPK+"S" @20Kg/ha
T5 = Reco dose of NPK+"S"@ 20 Kg/ha+ZnSo₄@25 Kg/ha

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Table 37. INM for maize based cropping system at Banswara

Treatm ent	Plant population 000/ha	No. of cobs 000/ha	Plant height cm	Days to 50%silking	Grain Yield (kg/ha)
T1	57.02	48.14	168.75	51.67	2735.00
T2	57.02	48.33	173.91	51.33	2954.00
T3	58.47	52.28	179.22	51.00	3055.00
T4	58.61	53.37	184.14	50.67	3249.67
T5	59.43	54.25	188.60	50.00	3653.67
T6	59.61	54.76	196.42	49.33	3781.67
Location	58.36	51.86	181.84	50.67	3238.17
C.D.(5%)	8.27	9.07	35.89	2.32	842.82
C.V.(%)	7.79	9.61	10.85	2.52	14.31
F(5%)	N.S.	N.S.	N.S.	N.S.	N.S.

- T1 = 100% Recommended NPK through FYM**
T2 = 100% Recommended NPK through FYM + Bio-fertilizer (Azoto+PSB) seed treat
T3 = 75% Recommended NPK through FYM + Remaining through NPK
T4 = 50% Recommended NPK through FYM + Remaining through NPK
T5 = Recommended dose of NPK
T6 = Recommended NPK + S@ 20 kg/ha + ZnSo₄ 25 kg/ha

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Table 38. Studies on use of thio-urea spray for yield advantage in rainfed maize at Banswara

Treatment	Plant population 000/ha	No. of cobs 000/ha	Plant height cm	Days to 50% silking	Grain Yield (kg/ha)
T1	59.23	53.43	178.73	51.33	3045.00
T2	59.55	51.81	182.21	50.00	3140.67
T3	59.22	53.63	182.80	50.00	3168.00
T4	60.22	54.23	186.34	49.67	3425.00
T5	60.27	54.26	190.71	49.67	3511.67
T6	60.60	54.65	193.02	49.33	3581.00
T7	61.15	54.66	194.76	49.33	3615.67
T8	61.72	55.16	196.37	49.00	3742.67
T9	61.69	55.63	198.41	48.67	3828.00
T10	59.22	53.37	178.08	51.33	3034.33

Location mean 60.29 54.08 188.14 49.83 3409.20

C.D.(5%) Bi-Bj 6.58 6.38 30.55 1.30 548.21

C.V.(%) Error B 6.36 6.87 9.47 1.53 9.37

F(5%) N.S. N.S. N.S. S S

- T1 = Water spray at knee high stage
- T2 = Water spray at tasselling stage
- T3 = water spray at grain filling stage
- T4 = Thio-urea spray @ 0.1% at knee high stage
- T5 = Thio-urea spray @ 0.1% at tasselling stage
- T6 = Thio-urea spray @ 0.1% at grain filling stage
- T7 = Thio-urea spray @ 0.2% at knee high stage
- T8 = Thio-urea spray @ 0.2% at tasselling stage
- T9 = Thio-urea spray @ 0.2% at grain filling stage
- T10 = Absolute control

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Table 39. To study the effect of seed priming Banswara

Treatm ent	Plant population 000/ha	No. of cobs 000/ha	Plant height cm	Days to 50%silking	Grain Yield (kg/ha)
T1	59.51	54.31	182.21	50.67	3480.33
T2	60.50	54.38	182.99	50.33	3509.67
T3	61.30	56.02	190.64	49.33	3948.33
T4	62.08	55.87	187.12	49.33	3861.00
T5	60.57	55.32	188.23	50.00	3735.00
T6	60.62	55.45	188.25	49.33	3850.00
T7	60.95	54.65	187.18	49.67	3817.00
T8	61.21	56.29	192.82	48.00	3998.00

Location 60.84 55.29 187.43 49.71 3774.92

C.D.(5% 8.45 8.28 34.63 1.60 643.89

C.V.(%) 7.93 8.55 10.55 1.84 973.91

F(5%) N.S. N.S. N.S. N.S. N.S.

- T1 = Dry seed sowing (control)
- T2 = Soaking seed in simple water
- T3 = Soaking seed in 2.5% KH_2PO_4 solution
- T4 = Soaking seed in 2.5% NaCl solution
- T5 = Soaking seed in 0.1% succinic acid solution
- T6 = Soaking seed in 100 ppm cycocel solution
- T7 = Soaking seed in 1 ppm cytokinin solution (Benzyl adeninne)
- T8 = Soaking seed in 0.1% thio-urea solution

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Table 40. Effect of seed priming with agrochemicals on productivity of rainfed maize under different soaking periods (II year bial) at Udaipur

Main Plot	Treatments	Grain Yield kg/ha	Germination count (000/ha)	Plant Height in (cm) at 15 DAS	Plant Height in (cm) at 30 DAS	Plant Population (000/ha)
F1	T1	3656.67	63.67	17.13	75.08	60.00
	T2	3753.33	65.00	18.10	77.03	61.33
	T3	3716.67	65.17	18.03	77.25	61.33
	T4	3708.33	65.17	18.05	77.28	61.50
	T5	3855.00	64.83	21.03	86.10	61.33
	T6	4276.67	64.83	19.05	84.13	61.00
	T7	4340.00	65.17	21.05	85.58	62.00
	T8	4160.00	64.83	20.55	86.78	61.33
F2	T1	3665.00	65.17	17.30	75.55	60.33
	T2	3808.33	65.00	18.13	77.38	62.00
	T3	3703.33	65.17	18.20	77.33	61.33
	T4	3760.00	64.83	18.03	77.55	61.17
	T5	3908.33	65.17	21.30	86.50	61.17
	T6	4091.67	64.83	19.23	83.40	63.00
	T7	4353.33	65.67	21.23	85.35	61.83
	T8	4108.33	65.17	20.48	86.80	61.33

Location mean 3929.06 64.98 19.18 81.19 61.38

CD 5% 443.07 2.61 2.09 7.86 4.66

CV 5% 7.91 2.81 7.65 6.79 5.32

F 5% S N.S. S S N.S.

F1 = 12 hrs soaking

F2 = 6 hrs soaking

T1 = Dry sowing control

T2 = soaking seed in simple water

T3 = soaking seed in 2.5% KH₂PO₄

T4 = soaking seed in 2.5% NaCl solution

T5 = Soaking seed in 0.1% succinic acid solution

T6 = Soaking seed in 100 ppm cycocel solution

T7 = Soaking seed in cytokinin solution

T8 = Soaking seed in 0.1% thiourea solution

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Table 41. Evaluation of maize varieties for babycorn pupose at Bajaura

Treatment s	Babycorn yield (kg/ha)	Total cobs (000/ha)	Plant Stand (000/ha)	Plant Height in cm	Cob Weight with Husk (kg/ha)	Cob Length with Husk (cm)	Mean Cob dlameter with Husk (cm)	Mean Cob diameter without Husk (cm)
T1	1562.67	286.33	139.33	207.67	8607.00	19.87	9.87	1.60
T2	1148.00	237.33	139.67	202.33	7418.33	18.77	8.50	1.53
T3	869.67	200.33	140.67	205.00	6670.33	19.60	8.17	1.63
T4	1634.00	301.67	135.33	200.33	9992.67	19.73	8.53	1.60
T5	1072.00	214.67	140.33	189.33	6555.67	18.20	8.47	1.53
T6	1112.33	252.00	139.00	209.00	6618.67	19.10	8.37	1.67
T7	1314.33	250.33	138.33	179.33	7651.67	15.53	7.37	1.43
T8	1333.33	244.00	137.67	163.00	7136.67	16.53	7.73	1.50
T9	1170.00	286.00	139.33	174.33	7318.67	20.27	8.90	1.53
T10	1666.67	283.00	139.00	172.67	6977.67	16.13	6.67	1.37
T11	1569.67	371.00	138.00	176.00	9164.33	20.13	8.27	1.43
T12	1032.67	208.33	132.67	187.00	5933.67	18.60	8.10	1.47
T13	983.33	184.67	137.00	212.67	5466.67	21.80	9.60	1.70
Location Mean	1266.82	255.36	138.18	190.67	7347.08	18.79	8.35	1.54
C.D.(5%) A Bj-A Bk	88.85	22.16	6.85	12.24	392.96	1.69	0.54	0.18
C.D.(5%) A Bk-A Bk	4.16	5.15	2.94	3.81	3.17	5.32	3.84	6.77
F(5%)	S	S	N.S.	S	S	S	S	S

- T1 = BIO-92109
- T2 = SEEDTEC - 1204
- T3 = PAC - 70001
- T4 = X - 3342
- T5 = MAHI KANCHAN
- T6 = KIRAN
- T7 = FH - 3176
- T8 = HIM - 129
- T9 = SURYA
- T10 = VL-42
- T11 = VL-78
- T12 = HYEP-1
- T13 = Early Composite

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Table 42. Response of sweet corn to plant population and fertility levels at Jashipur

Main Plot	Treatments	Days to 50% Silking	Green cob yield (kg/ha)	cob yield (000/ha)	Plant stand (000/ha)	Plant height (cm)	Fresh weigh of green cob
60x15	F0	58.67	3563.33	57.80	104.20	115.37	52.67
	F1	50.33	10926.67	79.70	105.00	166.60	153.00
	F2	47.67	17876.67	91.40	103.70	184.40	211.00
	F3	47.00	19606.67	103.03	103.23	192.50	213.67
60x20	F0	56.33	7006.67	58.97	76.30	121.80	115.00
	F1	49.33	13783.33	75.83	76.10	169.20	178.33
	F2	46.33	16490.00	87.50	74.10	170.77	204.33
	F3	46.33	17950.00	96.67	71.87	176.57	202.67
60x25	F0	54.33	5373.33	47.53	64.17	117.20	113.67
	F1	48.67	15960.00	73.60	65.80	166.13	194.67
	F2	46.67	21010.00	83.63	63.60	174.00	230.33
	F3	45.67	21780.00	84.43	62.50	180.17	242.00
60x30	F0	55.00	4996.67	47.37	52.50	120.50	114.67
	F1	49.33	12673.33	57.50	47.80	172.37	220.67
	F2	47.67	21233.33	76.70	49.97	172.30	232.33
	F3	45.67	23863.33	74.60	47.80	169.37	274.67

Location Mean	49.69	14630.83	74.64	73.04	160.58	184.60
C.D.(5%) AIBj-AIBk	1.87	1883.29	7.66	5.79	12.68	30.72
C.D.(5%) AIBk-AjBk	2.40	2209.35	10.40	6.04	12.84	33.51
F(5%)	n.s.	s	s	n.s.	n.s.	s
60x15	50.92	12993.33	82.98	104.03	164.72	157.58
60x20	49.58	13807.50	79.24	74.59	159.58	175.08
60x25	48.83	16030.83	72.30	64.02	159.38	195.17
60x30	49.42	15691.67	64.04	49.52	158.63	210.58
C.D.(5%) Ai-Aj	1.79	1501.87	8.05	3.40	6.71	20.56
C.V.(%) Error A	3.60	10.28	10.80	4.65	4.18	11.15
F(5%)	n.s.	s	s	s	n.s.	s
F0	56.08	5235.00	52.42	74.29	118.72	99.00
F1	49.42	13335.83	71.66	73.68	168.58	186.67
F2	47.08	19152.50	84.81	72.84	175.37	219.50
F3	46.17	20800.00	89.68	71.35	179.65	233.25
C.D.(5%) Bi-Bj	0.94	941.64	3.83	2.89	6.34	15.36
C.V.(%) Error B	2.24	7.64	6.09	4.70	4.69	9.87
F(5%)	s	s	s	n.s.	s	s

	N	P	K
F0 =	0	0	0
F1 =	40	20	20
F2 =	80	40	40
F3 =	120	60	60

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Table 43: Evaluation of F2-topcrosses under normal and excess moisture conditions

Ent. No.	F2-topcross	Plant height (cm)		Ear height (cm)		Nodes with brace root		Yield (kg/plot)	
		WL	NM	WL	NM	WL	NM	WL	NM
1	RCWL 02-26-1	113.0	147.2	56.0	80.3	1.6	1.6	0.29	1.02
2	RCWL 02-26-2	104.0	115.1	61.0	65.3	2.3	1.2	0.11	0.58
3	RCWL 02-26-3	99.0	127.0	61.0	70.9	2.6	1.6	0.15	0.58
4	RCWL 02-26-4	107.0	125.8	63.0	71.1	1.6	0.9	0.35	0.60
5	RCWL 02-26-5	102.0	109.0	57.0	60.8	2.0	1.6	0.56	1.20
6	RCWL 02-26-6	100.0	107.3	61.0	63.6	2.0	1.7	0.45	1.30
7	RCWL 02-26-7	86.0	109.0	49.0	61.1	2.7	1.5	0.30	1.50
8	RCWL 02-26-8	118.0	106.8	65.0	60.7	2.0	1.7	0.36	0.90
9	RCWL 02-26-9	98.0	128.2	60.0	72.2	1.9	1.6	0.00	0.92
10	RCWL 02-26-10	98.0	117.2	50.0	67.0	2.3	1.5	0.17	0.80
11	RCWL 02-26-11	92.0	124.9	51.0	64.6	3.0	1.4	0.30	0.80
12	RCWL 02-26-12	102.0	117.4	53.0	58.9	2.2	1.5	0.53	0.90
13	RCWL 02-26-13	104.0	137.1	59.0	106.9	1.2	1.8	0.42	0.90
14	RCWL 02-26-14	106.0	128.8	62.0	73.6	1.2	1.6	0.75	1.20
15	RCWL 02-26-15	117.0	120.7	65.0	62.6	2.0	1.4	0.45	1.00
16	RCWL 02-26-16	108.0	124.5	53.0	70.6	1.4	1.6	0.73	1.30
17	RCWL 02-26-17	103.0	116.3	49.0	61.4	1.8	1.5	0.68	1.70
18	RCWL 02-26-18	112.0	111.7	54.0	63.1	1.6	1.5	0.53	0.90
19	RCWL 02-26-19	100.0	119.0	57.0	66.7	2.3	1.1	0.33	1.60
20	RCWL 02-27-1	118.0	135.4	71.0	82.3	2.3	1.5	0.35	0.86
21	RCWL 02-27-2	131.0	148.6	63.0	92.3	2.3	1.7	0.74	1.41
22	RCWL 02-27-3	136.0	138.4	61.0	81.5	2.3	2.0	0.79	0.92
23	RCWL 02-27-4	118.0	127.7	76.0	81.4	2.7	1.3	0.44	1.60
24	RCWL 02-27-5	140.0	138.6	87.0	85.6	2.3	1.4	0.04	0.80
25	RCWL 02-27-6	113.0	138.6	58.0	82.5	2.0	1.5	0.00	1.50
26	RCWL 02-27-7	110.0	142.8	82.0	88.2	2.0	1.7	0.49	1.30
27	RCWL 02-27-8	118.0	136.7	75.0	81.6	2.9	1.6	0.90	1.20
28	RCWL 02-27-9	125.0	136.8	79.0	89.4	3.0	1.6	0.64	1.11
29	RCWL 02-27-10	126.0	147.3	76.0	97.0	2.4	1.8	0.97	1.50

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30	RCWL 02-27-11	122.0	137.1	77.0	84.8	2.6	1.8	1.31	1.30
31	RCWL 02-27-12	124.0	124.8	72.0	87.6	2.0	1.9	0.36	0.98
32	RCWL 02-27-13	129.0	141.4	80.0	81.7	2.7	1.8	0.81	1.40
33	RCWL 02-27-14	128.0	139.1	80.0	85.3	2.6	1.9	0.44	1.20
34	RCWL 02-27-15	138.0	144.2	90.0	88.7	2.0	2.0	0.70	0.90
35	RCWL 02-27-16	122.0	134.1	71.0	81.1	1.2	1.6	0.72	1.16
36	RCWL 02-27-17	148.0	144.4	80.0	89.2	1.8	1.4	0.53	1.30
37	RCWL 02-27-18	119.0	131.8	69.0	83.8	1.0	1.9	0.51	1.03
38	RCWL 02-27-19	101.0	129.0	65.0	85.8	1.0	1.9	0.16	1.37
39	RCWL 02-27-20	138.0	146.5	86.0	91.2	2.0	1.5	1.20	1.04
40	RCWL 02-28-1	132.0	135.7	71.0	81.9	2.0	1.9	0.46	1.20
41	RCWL 02-28-2	158.0	150.1	101.0	94.3	2.0	2.5	0.97	1.60
42	RCWL 02-28-3	125.0	140.6	81.0	90.3	1.8	2.2	0.64	1.00
43	RCWL 02-28-4	152.0	135.4	107.0	83.8	2.4	1.7	0.68	1.60
44	RCWL 02-28-5	124.0	143.6	81.0	88.8	2.2	1.9	0.57	1.30
45	RCWL 02-28-6	130.0	151.1	79.0	89.4	2.2	2.1	0.69	0.79
46	RCWL 02-28-7	162.0	152.4	106.0	94.3	2.0	2.2	0.51	0.90
47	RCWL 02-28-8	136.0	132.8	82.0	80.0	2.0	2.1	0.17	0.90
48	RCWL 02-28-9	124.0	146.9	78.0	90.1	2.0	2.3	0.76	1.20
49	RCWL 02-28-10	157.0	142.6	105.0	90.8	2.6	2.3	0.52	1.00
50	RCWL 02-28-11	148.0	147.9	94.0	92.7	2.0	2.5	0.46	1.20
51	RCWL 02-28-12	148.0	156.8	88.0	95.4	2.0	2.0	0.86	1.60
52	RCWL 02-28-13	158.0	158.1	103.0	97.4	2.0	2.5	0.66	1.60
53	RCWL 02-29-1	142.0	137.4	89.0	71.8	2.2	2.1	0.39	1.20
54	RCWL 02-29-2	140.0	166.8	70.0	88.2	2.2	2.5	0.69	1.30
55	RCWL 02-29-3	135.0	141.7	81.0	75.8	2.0	2.0	0.63	1.70
56	RCWL 02-29-4	124.0	135.4	81.0	88.7	1.8	2.4	0.00	1.20
57	RCWL 02-29-5	165.0	153.6	76.0	72.3	2.0	1.7	0.17	1.30
58	RCWL 02-29-6	142.0	131.0	76.0	87.4	1.8	2.3	0.67	1.60
59	RCWL 02-29-7	154.0	145.7	81.0	77.4	2.2	2.3	0.43	1.50
60	RCWL 02-29-8	138.0	152.3	83.0	75.4	2.4	1.8	0.33	1.30
61	RCWL 02-29-9	134.0	143.8	74.0	68.3	1.6	1.3	0.39	0.98
62	RCWL 02-29-10	122.0	136.4	61.0	63.5	2.2	2.3	0.51	1.40

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63	RCWL 02-29-11	118.0	140.3	70.0	68.4	2.0	2.2	0.33	1.20
64	RCWL 02-29-12	111.6	142.6	64.0	76.3	1.6	1.9	0.20	0.90
65	RCWL 02-29-13	126.0	124.3	71.0	62.6	1.0	1.9	0.47	1.16
66	RCWL 02-30-1	159.0	180.0	82.0	96.9	1.8	1.8	1.07	1.30
67	RCWL 02-30-2	183.0	170.5	106.0	96.8	1.0	1.9	1.06	1.03
68	RCWL 02-30-3	142.0	171.9	83.0	97.8	2.0	2.0	0.95	1.37
69	RCWL 02-30-4	146.0	167.0	79.0	84.9	2.4	1.8	0.82	1.04
70	RCWL 02-30-5	140.0	170.6	68.0	92.0	1.4	1.5	0.65	1.20
71	RCWL 02-30-6	172.0	167.6	96.0	90.0	2.8	2.1	0.31	1.60
72	RCWL 02-30-7	145.0	177.3	75.0	96.9	2.2	1.4	0.69	1.00
73	RCWL 02-30-8	174.0	180.6	104.0	100.3	2.0	1.8	0.52	1.60
74	RCWL 02-30-9	151.0	177.7	102.0	94.6	2.0	2.1	1.34	1.30
75	RCWL 02-30-10	177.0	174.4	102.0	96.6	1.2	2.2	1.31	0.79
76	RCWL 02-30-11	164.0	185.6	94.0	98.2	1.0	1.8	1.43	0.90
77	RCWL 02-30-12	138.0	175.1	88.6	102.0	2.0	1.8	0.62	0.90
78	RCWL 02-30-13	176.0	176.3	97.0	104.4	1.6	2.0	1.42	1.50
79	RCWL 02-30-14	152.0	183.4	79.0	98.2	2.0	1.8	0.00	1.30
80	RCWL 02-30-15	164.0	171.4	83.0	98.3	1.8	1.7	0.69	0.98
81	RCWL 02-30-16	172.0	182.8	95.0	98.3	2.0	2.2	1.14	1.40
82	RCWL 02-30-17	164.0	189.6	94.0	100.4	2.0	2.1	1.67	1.20
83	RCWL 02-30-18	180.0	170.8	96.0	90.9	2.0	2.1	1.62	0.90
84	RCWL 02-30-19	166.0	165.6	105.0	81.3	1.6	1.8	0.37	1.16
85	RCWL 02-31-1	168.0	174.0	97.0	104.9	2.0	2.2	0.72	1.30
86	RCWL 02-31-2	150.0	181.7	103.0	102.9	2.0	2.2	1.33	1.03
87	RCWL 02-31-3	159.0	158.2	90.0	98.7	2.4	1.9	1.92	1.37
88	RCWL 02-31-4	140.0	160.2	90.0	95.0	2.0	2.4	0.00	1.04
89	RCWL 02-31-5	144.0	181.5	84.0	100.8	2.0	1.7	0.66	1.20
90	RCWL 02-31-6	164.0	169.5	94.0	95.2	1.8	1.9	1.48	1.60
91	RCWL 02-31-7	163.0	179.2	101.0	107.8	2.2	1.8	1.28	1.00
92	RCWL 02-31-8	158.0	165.4	89.0	98.7	2.0	2.0	1.40	1.60
93	RCWL 02-31-9	132.0	163.7	75.0	91.6	2.0	2.3	0.27	1.30
94	RCWL 02-31-10	172.0	176.6	105.0	94.3	1.0	1.7	1.25	1.60
95	RCWL 02-31-11	174.0	170.4	105.0	98.2	2.0	2.2	1.03	1.00

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96	RCWL 02-31-12	168.0	167.4	101.0	97.9	1.4	2.0	1.13	1.60
97	RCWL 02-31-13	152.0	155.9	90.0	92.4	2.4	2.4	0.75	1.30
98	RCWL 02-31-14	180.0	158.0	108.0	90.3	2.4	1.9	1.10	0.79
99	RCWL 02-31-15	164.0	179.6	98.0	104.0	2.4	1.3	0.91	0.90
100	RCWL 02-31-16	168.0	160.6	88.0	98.1	1.2	1.0	0.62	0.90
101	RCWL 02-31-17	127.0	162.6	80.0	102.2	2.2	1.0	0.68	1.50
102	RCWL 02-31-18	138.0	173.1	86.0	102.2	1.0	1.3	0.61	1.30
103	RCWL 02-31-19	180.0	184.0	96.0	94.4	2.0	1.3	1.10	0.98
104	RCWL 02-31-20	152.0	186.1	96.0	95.0	2.4	1.7	0.81	1.40
105	RCWL 02-32-1	110.0	156.1	86.0	93.1	3.2	1.3	0.34	1.20
106	RCWL 02-32-2	161.0	164.9	102.0	99.9	2.4	1.3	0.75	0.90
107	RCWL 02-32-3	142.0	159.3	96.0	94.9	2.4	1.0	0.44	1.16
108	RCWL 02-32-4	142.0	167.9	89.0	86.8	3.0	1.0	0.36	1.30
109	RCWL 02-32-5	130.0	163.6	69.0	95.5	1.6	1.0	0.41	1.03
110	RCWL 02-32-6	130.0	141.5	94.0	88.8	2.4	1.3	0.46	1.37
111	RCWL 02-32-7	162.0	149.7	100.0	93.8	2.0	1.3	0.62	1.04
112	RCWL 02-32-8	152.0	154.8	92.0	94.6	2.0	2.0	0.19	1.60
113	RCWL 02-32-9	126.0	158.2	86.0	99.1	1.2	1.9	0.56	1.00
114	RCWL 02-32-11	160.0	155.4	90.0	88.4	3.2	1.8	0.27	1.60
115	RCWL 02-32-12	145.0	164.5	88.0	100.9	2.6	2.0	0.25	1.30
116	CHECK-3 (Bio-9681)	148.0	165.6	101.0	91.7	2.4	1.3	0.43	0.79
117	RCWL 02-32-18	154.0	165.3	94.0	101.9	3.2	1.3	0.23	0.90
118	RCWL 02-32-19	148.0	150.6	89.0	97.2	2.2	1.0	0.38	0.90
119	RCWL 02-34-1	147.0	142.5	86.0	79.3	2.2	1.9	1.33	1.50
120	RCWL 02-35-1	148.0	160.1	84.0	94.6	2.2	1.9	0.10	1.30
121	RCWL 02-35-2	133.0	151.0	81.0	95.4	2.6	1.4	0.39	0.98
122	RCWL 02-35-3	157.6	165.2	95.0	104.9	2.0	2.1	0.72	1.40
123	RCWL 02-35-4	154.0	160.6	88.0	98.1	2.2	1.7	0.54	1.20
124	RCWL 02-35-5	165.0	177.2	94.0	106.6	2.2	1.7	0.04	1.30
125	RCWL 02-35-6	139.0	173.5	46.0	114.7	2.6	1.9	0.75	0.79
126	RCWL 02-35-7	160.0	167.7	89.0	91.5	1.9	1.7	0.20	0.90
127	RCWL 02-35-8	146.0	159.4	92.0	97.4	2.4	1.7	0.81	0.90
128	RCWL 02-35-9	136.0	136.4	84.0	90.1	1.4	2.0	0.36	1.50

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129	RCWL 02-35-10	149.0	158.6	93.0	100.5	2.2	1.6	0.55	1.30
130	RCWL 02/549-1	152.0	150.3	83.0	85.9	2.2	1.2	0.52	0.98
131	RCWL 02/549-2	136.0	143.5	81.0	86.8	2.6	2.1	0.66	1.40
132	RCWL 02/549-3	152.0	157.3	93.0	97.9	2.0	1.8	1.03	1.20
133	RCWL 02/549-4	114.0	149.6	59.0	84.0	1.4	1.4	0.27	0.90
134	RCWL 02/549-5	166.0	162.9	84.0	83.7	2.2	1.7	1.10	1.17
135	RCWL02/549-6	158.0	150.9	96.0	91.7	1.0	1.7	0.77	0.82
136	RCWL 02/549-7	168.0	162.7	82.0	89.3	1.8	1.4	1.19	0.98
137	RCWL 02/549-8	140.0	145.0	82.0	76.3	2.4	1.7	0.53	1.10
138	RCWL 02/549-9	127.0	146.0	72.0	84.7	2.0	1.5	1.40	0.89
139	CHECK-1 (Pro-311)	142.2	168.4	75.0	100.5	2.4	1.9	1.86	1.20
140	CHECK-2 (Seed Tec 2324)	140.0	165.4	80.0	96.6	2.0	1.8	1.70	0.97
	MEAN	139.2	150.4	81.8	87.5	2.1	1.8	0.65	1.17
	LSD (p = 0.05)	16.53		14.67		0.74		0.37	
	CV (%)	6.83		10.42		24.67		29.83	

Table 44: Effect of excessive moisture stress on vegetative and reproductive growth of selected maize genotypes.

Entry	Pedigree	Mortality (%)		Plant height (cm)		Ear height (cm)		Nodes with brace		Sens-1		Sens-2		Anthesis (d)		Silking (d)		ASI (d)	
		C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL
1	WL12**1	3.3	8.6	102.7	89.9	55.7	43.4	2.3	3.3	0.0	1.0	0.7	1.7	56.3	57.0	60.0	63.7	3.7	6.7
2	WL16**1	0.8	10.9	96.7	67.6	53.3	38.3	1.1	2.7	0.0	1.3	1.0	3.7	57.0	60.3	57.0	62.3	0.0	2.0
3	WL15**2	1.0	2.3	123.3	111.5	64.3	58.0	2.1	4.0	0.0	0.7	1.7	3.0	55.7	55.3	56.3	58.3	0.7	3.0
4	WL18**0	1.3	2.3	134.9	29.7	72.0	67.7	1.0	3.3	0.0	0.7	1.0	3.7	56.3	57.7	55.7	58.3	0.3	0.6
5	WL28**2	1.9	9.1	139.9	125.7	68.9	52.0	1.3	2.7	0.0	1.0	2.0	3.0	55.3	58.3	57.7	61.0	2.3	2.7
6	WL36**4	3.3	14.3	90.9	71.8	40.3	36.3	1.0	3.3	0.0	1.3	1.7	2.3	56.3	59.3	58.3	61.7	2.0	2.4
7	(CML159 x CML144) 5408 (P4753M) 5408 (P4753M) 5408 (P4753M) 5408 (P4753M)	2.3	76.9	87.8	51.2	38.5	29.3	1.7	2.0	0.0	2.7	1.3	5.3	55.7	57.7	55.7	69.3	0.0	11.6
8	5408 (P4753M) 5408 (P4753M) 5408 (P4753M) 5408 (P4753M)	0.0	47.9	95.5	22.1	42.1	11.0	1.3	2.3	0.0	3.3	0.7	7.3	56.0	58.9	56.3	78.7	0.3	19.8
9	89(18645)(P4753M) p78-518)B-24-1-3-2-	4.7	68.7	148.9	89.3	64.5	39.4	2.3	3.7	0.0	3.0	0.7	6.7	58.7	60.3	59.7	73.5	1.0	13.2
10	Sachin's material-1	1.0	34.8	162.2	101.2	81.0	73.6	4.3	5.3	0.0	4.2	0.7	7.0	57.3	61.3	60.3	73.3	3.0	12.0
Total mean		1.95	27.7	117.3	86.33	58.25	44.90	1.84	3.26	0.0	1.9	1.1	4.4	56.37	56.61	57.70	66.02	1.33	7.40
CV (%)		32.92		16.36		18.18		36.53		75.02		62.48		3.65		5.09		34.39	
LSD (p=5%)		G	14.56	19.74	10.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8.09	NS	1.01	NS
		E	16.07	10.48	NS	NS	1.21	NS	NS	0.29	NS	0.82	NS	NS	NS	11.23	NS	0.97	NS
		G x E	19.11	27.92	14.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.11	NS

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Ears per plant		Ear rots (%)		Test wt. (g)		Grain yield (t/ha)	
C	WL	C	WL	C	WL	C	WL
1.2	0.3	2.3	8.9	21.3	20.3	2.03	1.44
2.0	0.7	6.0	13.3	24.3	26.3	2.12	1.61
0.9	0.4	5.4	17.8	32.2	26.3	1.94	1.12
1.0	0.4	10.0	16.7	22.4	24.3	1.95	1.39
2.1	0.3	3.3	19.7	20.5	21.4	2.03	0.52
1.0	0.5	7.8	32.7	27.9	20.3	1.90	0.26
1.21	0.39	5.14	18.0	24.20	23.26	1.96	0.90
18.06		63.87		32.02		22.05	
NS		4.05		NS		0.22	
0.13		5.31		NS		0.39	
NS		NS		NS		0.43	

Table 46: Effect of excessive moisture stress on biochemical compositions of selected maize genotypes.

Ent. Pedigree	Chlorophyll-1 (SPAD unit)		Chlorophyll-2 (SPAD unit)		Amino acid in leaf (mg/g dw)		Amino acid in stem (mg/g dw)		Total sugar (mg/g leaf dw)		Starch (mg/g leaf dw)		Ethanol-root (u mol/g FW)		Ethanol-leaf (u mol/g FW)		Phenolics-root (mg/g dw)		Phenolics-leaf (mg/g dw)	
	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL	C	WL
1 WL12*-1	47.4	40.2	49.6	38.3	3.1	4.5	2.3	3.2	66.3	48.9	98.8	34.5	8.7	13.4	3.3	11.2	0.43	0.57	0.23	0.45
2 WL16*-1	38.3	28.0	46.5	33.6	2.3	4.2	2.7	2.3	78.4	52.7	102.3	45.6	3.1	10.2	4.3	6.7	0.45	0.62	0.21	0.56
3 WL15*-2	46.4	37.4	49.8	40.2	1.7	3.6	1.9	2.9	83.7	53.7	113.2	38.0	3.3	21.3	5.3	11.4	0.34	0.89	0.17	0.49
4 WL18*-2	45.8	38.8	50.5	41.5	1.5	3.9	1.5	3.4	67.9	52.2	88.5	33.3	3.3	11.3	4.4	8.9	0.37	0.58	0.19	0.37
5 WL28*-2	41.2	34.2	46.6	36.6	2.1	4.4	2.4	3.9	71.9	54.3	94.5	36.7	4.3	27.4	3.1	7.6	0.45	0.73	0.21	0.47
6 WL36*-1	45.1	28.6	45.1	33.9	2.3	5.3	1.9	3.3	67.5	55.3	88.5	41.7	6.7	30.3	3.9	8.9	0.39	0.50	0.32	0.56
7 (CML159 x CML144)	43.4	34.8	47.2	37.6	2.4	3.3	2.1	3.0	66.4	23.6	78.7	54.2	3.3	43.3	4.8	30.3	0.44	0.97	0.23	0.75
8 (P406-11925733R (S2) x 152-2385 (S2)B55)	48.3	21.8	53.2	24.0	1.7	2.2	1.7	1.7	55.2	33.3	79.4	61.6	10.0	53.2	3.3	41.2	0.53	0.36	0.19	0.76
9 89(18645)/(P4753Mp78-518)B-24-1-3-2-1-4-BB	50.3	32.8	57.3	36.6	1.9	3.0	2.6	2.2	58.4	28.6	70.2	47.8	13.3	41.3	5.3	22.4	0.20	1.47	0.22	0.97
10 Sachan's material-1	45.7	23.9	51.7	27.8	1.2	2.4	1.4	1.8	46.0	28.1	69.5	40.9	10.0	48.3	6.7	24.4	0.34	1.20	0.18	1.01
Total mean	44.80	31.93	49.05	34.98	2.05	3.68	2.06	3.10	65.87	42.08	88.46	44.55	6.60	30.00	4.35	17.27	0.37	0.89	0.22	0.64
CV (%)	5.26		7.97		14.54		21.23		19.23		16.08		22.04		31.02		25.03		21.07	
LSD (p=0.05)	G	2.42	4.00		0.81		NS		8.43		7.89		0.87		1.03		0.08		0.06	
	E	3.09	4.09		0.87		0.50		9.19		NS		0.92		1.09		NS		0.07	
	G x E	3.42		NS		NS	0.72		10.05		8.05		0.96		1.10		0.09		0.10	

Table 47 : Performance of selected inbred lines (20-DMR, 20-CIMMYT-India, 20-GBPUAT) under normal and excess moisture stress.
 Abbreviation: ASI=anthesis-silking interval, PH=Plant height (cm), EH=Ear height (cm), RL=root lodging (%), SL=stem lodging (%), CHL
 1=chlorophyll (SPAD unit) 7days after excess moisture treatment, CHL 2=chlorophyll (SPAD unit) at 50% anthesis, SEN 1= senescence, 7 days
 after excess moisture treatment, SEN 2= leaf senescence at 50% anthesis.

Ent	Pedigree	ASI (days)		Plant height (cm)		Root lodging (%)		Stem lodging (%)		Nodes with brace roots		CHL-1		CHL-2		SEN-1		SEN-2		Yield (t/ha)		Yield loss (%)	
		NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL
23	CML425	1.3	1.3	145.3	82.2	0.7	1.0	0.0	0.5	-0.7	2.7	44.7	46.3	42.6	44.8	0.7	0.5	4.6	1.0	2.05	1.68	18.0	18.0
40	CA14702	2.3	2.3	128.5	79.0	0.7	3.5	0.0	0.6	-0.5	2.3	27.4	46.5	29.0	44.0	0.9	0.0	3.9	0.5	2.17	1.73	20.3	20.3
15	WL28**2	2.5	2.7	150.6	97.2	1.1	12.3	0.0	0.0	-0.2	3.9	36.0	40.5	36.3	44.1	0.6	0.0	2.3	0.5	2.03	1.51	25.6	25.6
25	CML427	2.4	1.0	85.6	80.6	0.3	13.0	0.0	0.4	-1.5	2.0	30.9	42.1	34.0	38.6	0.6	0.0	2.7	1.0	2.23	1.83	26.9	26.9
16	WL28**3	13.0	11.3	137.2	79.3	0.7	2.3	0.0	1.4	0.1	0.3	37.7	41.3	37.4	46.1	0.6	0.0	3.3	1.5	1.79	1.29	27.9	27.9
10	WL15**2	3.0	1.7	161.7	85.6	0.7	6.7	0.0	2.1	1.4	3.2	34.0	41.5	41.6	37.2	0.9	0.5	2.9	4.0	2.36	1.70	28.0	28.0
27	CML429	2.6	1.3	112.9	89.9	0.8	6.0	0.0	0.9	-1.7	3.3	30.8	42.7	33.8	39.8	0.5	0.0	3.3	0.3	1.78	1.27	28.7	28.7
1	CML371	2.1	2.3	127.6	103.3	0.7	4.9	0.0	0.2	0.0	3.7	43.6	48.0	38.9	42.2	0.6	0.0	2.7	0.5	1.26	0.86	30.1	30.1
54	Pant-14 HYD 01R	2.3	3.7	133.3	85.5	0.9	42.3	0.0	0.3	0.0	2.3	38.2	46.6	41.1	42.3	2.2	0.0	5.6	1.5	1.42	0.99	30.3	30.3
30	CA10102	2.5	3.0	139.6	106.7	0.5	18.5	0.0	0.1	-0.3	2.7	42.5	48.6	43.5	46.1	0.6	0.0	2.6	0.0	1.26	0.86	31.7	31.7
26	CML428	2.1	6.3	143.1	118.7	0.7	3.0	0.0	1.4	0.7	2.1	38.5	38.8	37.1	34.2	0.5	0.0	3.6	2.0	1.88	1.26	33.0	33.0
14	WL16**5	2.9	2.3	166.0	125.1	0.7	16.0	0.0	0.3	0.6	1.7	40.6	37.2	50.2	36.9	0.9	1.0	3.5	2.5	1.98	1.31	33.8	33.8
18	WL30**1	2.3	5.3	99.9	71.0	1.7	10.0	0.0	2.1	-0.9	1.3	45.3	45.6	42.8	31.2	0.7	1.0	3.1	4.0	1.03	0.67	35.0	35.0
4	WL15**1	3.6	4.6	91.2	82.6	0.9	4.5	0.0	1.6	-0.8	2.3	36.3	40.5	26.4	32.3	0.7	0.5	6.6	2.0	1.02	0.66	35.3	35.3
13	WL18**4	2.5	4.7	133.9	97.2	0.9	21.0	0.0	1.2	-0.3	2.3	38.4	38.9	40.1	34.7	0.9	0.0	2.6	1.0	2.89	1.79	38.1	38.1
3	WL15**1	2.7	1.3	182.4	100.1	0.6	-0.4	0.0	0.2	-0.5	4.3	44.7	47.7	44.0	40.3	0.7	0.5	3.0	1.5	1.22	0.73	40.2	40.2
20	WL30**4	4.4	2.0	110.2	99.7	0.4	16.9	0.0	1.1	-0.6	3.7	32.8	39.3	35.8	35.8	0.4	0.5	2.8	2.0	1.96	1.17	41.2	41.2

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57	Pant-17 02K	1.7	3.7	134.6	70.9	0.6	33.6	0.0	1.0	0.7	1.0	37.7	42.9	35.7	33.9	0.8	0.0	2.7	1.5	1.89	1.16	41.7
12	WL18--3	2.6	3.7	109.4	46.5	1.2	3.3	0.0	1.4	-0.9	1.7	25.6	33.4	33.9	30.1	0.6	0.0	2.3	1.5	2.1	1.11	47.1
55	Pant-15 02K	3.3	5.3	122.0	75.7	1.7	9.7	0.0	1.7	-0.1	1.3	41.3	60.0	40.3	41.3	0.5	0.0	2.8	1.5	2.03	1.07	47.3
21	CML-421	3.0	4.3	140.0	98.6	0.7	2.9	0.0	0.3	-0.1	2.3	47.7	47.9	44.3	36.8	0.6	0.5	3.5	2.0	2.03	1.05	48.3
52	Pant-22 HYD 01R	3.8	5.7	126.1	58	0.8	30.8	0.5	0.5	0.3	5.3	38.0	41.0	37.1	45.0	1.1	0.5	4.2	2.6	2.58	1.82	48.1
56	Pant-16 02K	3.7	4.3	152.1	71.6	1.0	13.5	0.0	2.1	-0.1	1.7	36.3	46.6	36.9	36.6	0.9	0.0	2.9	1.5	0.98	0.49	50.0
60	Pant-20 02K	5	5.5	132.0	157	1.7	12.7	0.0	0.5	-0.1	0.3	41.3	42.7	40.1	38.1	0.5	0.5	2.6	4.0	2.58	1.91	51.0
2	WL7--*	1.2	3.7	121.6	89.6	1.6	5.6	0.0	1.3	-0.3	1.9	39.6	26.6	23.9	23.1	0.2	0.5	3.3	3.5	1.26	0.52	58.7
58	Pant-18 02K	2.3	2.7	136.6	77.2	0.7	12.6	0.0	0.6	-0.1	2.0	34.7	47.2	33.7	41.2	0.9	0.0	3.4	3.0	2.26	0.89	60.6
8	WL12--*-1	2.5	2.0	106.2	54.7	1.2	1.6	0.0	1.3	-1.5	2.0	46.8	45.5	38.7	36.0	0.7	0.0	2.8	1.5	1.09	0.37	66.1
41	Pant-13 HYD 01R	3.5	3.9	131.2	67.6	0.9	11.0	0.5	1.1	0.4	2.3	27.4	33.4	33.8	37.8	0.7	1.0	6.2	3.0	1.85	0.99	66.1
35	CA 14517	3.3	4.3	147.0	66.6	0.7	14.3	0.0	0.0	-0.7	0.7	20.5	33.6	22.4	28.4	0.4	0.0	3.2	1.5	1.85	0.55	70.3
22	CML-422	2.5	3.1	106.5	49	0.6	7.7	0.0	1.4	0.8	1.3	33.7	46.3	37.4	46.3	0.3	0.0	3.4	1.0	0.80	0.26	70.8
29	CML-473	2.1	5.3	102.3	52.1	0.7	13.2	0.0	1.1	-1.0	1.0	29.6	38.9	35.1	35.4	1.1	0.0	3.3	1.0	1.99	0.56	71.9
32	CA 14512A	1.3	3.1	136.9	60.2	1.1	15.9	0.0	0.2	-0.7	2.0	39.0	46.5	39.1	44.1	0.8	0.0	3.0	1.5	0.85	0.27	71.9
6	WL11--*-1	2.7	4.3	122.4	57.7	4.3	21.3	1.0	1.4	-0.2	1.6	29.5	41.3	35.7	36.1	5.1	2.0	8.4	8.0	1.04	0.26	75.0
53	Pant-13 HYD 01R	1.3	1.23	124.2	75.1	0.8	4.6	0.5	1.5	-0.5	0.7	48.0	48.1	41.4	53.6	0.7	0.5	4.1	2.5	1.69	0.42	75.1
33	CA 014501	2.5	7.7	101.8	56.4	1.2	11.4	0.5	2.0	-0.5	1.3	35.7	44.6	34.0	43.0	0.6	1.0	3.0	3.0	1.36	0.33	75.7
24	CML-426	2.9	10.7	126.9	97.9	0.4	4.6	0.0	2.3	-0.4	1.8	24.5	39.0	31.4	37.2	0.6	0.0	3.6	1.5	1.23	0.28	77.2
38	CA 14522	2.6	11.7	105.7	76.3	0.6	23.4	0.5	1.7	0.0	1.0	31.3	35.1	30.8	35.1	0.7	0.5	3.3	1.5	1.45	0.31	78.6
42	Pant-2 HYD 01R	1.3	11.7	102.3	67.3	0.7	45.9	0.0	3.3	-0.7	0.3	40.3	22.7	43.7	20.9	0.4	0.0	2.7	0.5	1.65	0.35	78.8

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11	WL16**1	2.4	15.5	117.2	48.6	1.3	13.8	0.0	2.6	0.1	1.0	29.1	38.6	27.6	35.3	0.3	0.0	3.4	0.0	1.09	0.22	79.8
49	Pant-8HYD 01R	3.3	11.3	120.6	66.1	0.8	29.0	0.0	4.6	-0.5	1.0	36.9	45.3	39.8	42.3	0.6	0.0	2.2	0.0	1.46	0.29	80.0
17	WL28**2	1.8	3.7	134.0	79.9	2.3	11.1	0.0	0.4	0.5	0.6	38.1	44.2	35.9	40.0	0.7	0.0	3.3	2.5	0.98	0.16	83.7
31	CA 03116	2.6	6.3	126.7	84.8	1.2	0.1	0.0	1.1	-1.3	2.0	28.3	37.6	27.3	37.4	0.7	0.5	4.3	2.5	1.44	0.23	84.0
7	WL11**3	1.9	5.5	79.1	39.0	0.4	6.9	0.0	1.2	-0.6	2.3	37.8	51.8	40.9	44.4	0.7	1.0	3.2	2.5	1.11	0.16	85.6
28	CA 031	2.3	11.3	107.0	46.3	0.8	11.9	0.0	2.4	1.2	0.0	27.8	43.9	25.9	25.9	0.6	0.5	4.4	3.0	1.32	0.17	87.1
19	WL38**1	3.0	15.3	102.0	-8.6	0.8	14.0	0.0	2.3	-0.6	0.0	39.6	46.0	33.5	46.7	1.1	0.0	3.2	0.5	1.22	0.14	88.5
37	CA 031	2.3	10.8	102.5	72.2	0.0	18.6	0.0	2.0	0.6	0.7	32.4	45.9	36.3	37.1	0.6	0.0	3.4	1.0	1.38	0.15	89.0
5	WL9**5	2.5	9.7	98.2	57.2	0.9	14.1	0.0	2.9	-0.4	1.3	33.4	37.0	31.3	37.4	0.9	0.5	4.6	3.0	1.24	0.12	90.3
36	CA 14520	3.4	19.3	67.0	-30.9	0.6	14.7	0.0	1.8	-1.8	0.3	36.2	20.6	23.5	15.5	0.7	0.0	3.1	0.0	1.12	0.09	92.0
45	Pant-8HYD 01R	2.5	10.5	79.1	65.1	1.2	12.0	0.0	5.5	0.0	0.3	41.4	40.5	36.5	36.7	0.5	0.0	2.3	1.0	1.68	0.13	92.3
48	Pant-8HYD 01R	2.3	16.3	58.5	-41.2	0.6	19.8	0.0	2.1	-1.6	0.7	36.5	21.6	32.6	20.9	0.8	0.0	1.6	0.0	1.22	0.09	92.6
34	CA 014511	1.3	17.3	93.4	46.6	1.2	1.7	0.0	1.0	-0.8	1.3	27.8	42.0	28.3	35.1	6.6	1.5	11.5	7.5	1.2	0.06	95.0
47	Pant-7HYD 01R	1.3	12.3	115.9	74.7	0.5	23.1	0.0	3.3	0.4	0.3	24.3	38.4	25.8	30.1	1.3	1.0	7.2	2.5	1.34	0.03	97.8
50	Pant-8HYD 01R	3.0	10.5	77.5	41.0	0.6	35.9	0.0	1.5	1.8	0.3	29.4	18.3	24.5	11.5	0.6	0.0	2.1	0.5	1.08	0.02	98.2
39	CA 14524	1.3	4.3	109.2	72.0	0.8	16.9	0.0	0.2	-0.5	1.3	44.1	33.4	41.4	42.4	0.8	0.0	3.3	0.5	1.36	0.02	98.5
46	Pant-8HYD 01R	2.3	10.3	76.2	-50.5	0.5	23.5	0.0	0.5	1.5	1.0	29.9	0.0	28.6	0.0	0.4	0.0	2.4	0.0	1.42	0.01	98.2
	Mean	2.88	6.94	115.4	6.84	118.3	14.79	0.08	1.48	-0.36	1.61	35.54	39.12	34.87	35.93	0.88	0.28	3.56	1.80	1.54	0.62	63.3
	LSD (p = 0.05)	0.21	4.84	11.30	63.16	0.62	0.60	NS	1.29	0.03	0.17	4.31	0.86	4.90	20.02	0.08	19.34	0.12	0.87	0.22	2.82	
	CV (%)	89.0	61.2	46.6	22.9	28.9	75.6	36.6	61.3	54.6	35.6	35.6	39.2	45.6	25.7	38.9	27.0	23.9	42.3	41.6	36.5	

Table 48: Screening of maize inbred lines under normal and excessive moisture stress.

Abbreviation: ASI=anthesis-silking interval, PH=Plant height (cm), EH=Ear height (cm), RL=Root lodging (%), SL=stem lodging (%), NBR=nodes with brace root, CHL1=chlorophyll (SPAD unit) 7 days after excess moisture treatment, CHL 2=chlorophyll (SPAD unit) at 50% anthesis, SEN 1=senescence, 7 days after excess moisture treatment, SEN 2=senescence, 15 days after excess moisture treatment, GY= grain yield (tons/hectare).

ENT PEDIGREE	ASI		PH (cm)		RL		SL		NBR		CHL 1		CHL 2		SEN 1		SEN 2		GY (t/ha)		Yield loss (%)
	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	NM	WL	
15 CM500-1	-1.3	1.3	116.7	102.3	0.0	7.0	0.0	0.8	1.7	2.7	48.4	41.1	39.4	40.5	0.0	2.0	2.0	3.4	2.20	1.74	20.9
35 CML-422-B	0.7	1.0	112.3	80.4	0.0	11.0	0.0	0.5	1.4	2.3	45.1	44.6	53.2	37.0	0.0	3.0	1.0	4.3	1.80	1.39	22.8
29 CML-85-B-B	1.7	3.3	140.3	113.8	0.0	3.0	0.0	0.6	1.6	3.0	57.3	42.1	52.7	41.1	1.0	2.0	3.0	3.3	1.90	1.43	24.7
48 CML311	-2.0	1.7	117.4	106.2	0.0	11.0	0.0	-0.3	2.0	2.7	55.9	44.7	55.2	30.2	1.0	2.0	3.0	3.3	1.90	1.42	25.3
9 CM118	-2.1	1.8	140.1	106.7	0.0	5.9	0.0	0.4	0.7	2.6	46.7	43.9	47.6	37.6	0.0	1.0	1.0	2.2	2.60	1.93	25.8
62 WL18-x-x-4	1.2	1.0	123.6	104.1	0.0	5.8	0.0	0.1	1.1	2.9	51.7	40.6	49.6	39.8	0.0	3.0	2.0	3.3	2.10	1.52	27.6
31 CML-226-B-B	-0.6	1.0	117.7	98.6	0.0	6.0	0.0	-0.1	1.8	2.3	51.1	47.2	50.0	39.0	0.0	2.0	2.0	3.0	1.80	1.30	27.8
79 DTLNEM-4	-0.3	0.7	99.5	91.7	0.0	6.2	0.0	0.0	1.8	3.7	49.5	49.9	44.5	47.3	1.0	2.0	3.0	4.7	2.20	1.49	32.3
116 DTLNEM-41	-2.0	2.3	126.3	117.2	0.0	3.6	0.5	0.3	1.6	2.7	50.6	36.7	40.2	31.8	1.0	2.0	2.0	3.3	1.90	1.23	35.3
18 CM501-9	-1.6	0.0	151.2	92.3	0.0	5.0	0.5	0.9	1.1	1.9	53.7	31.1	52.3	31.2	0.0	2.0	2.0	4.3	2.00	1.21	39.5
2 CML-327-B-B	0.7	2.3	98.9	83.1	0.0	6.0	0.0	0.5	1.1	3.5	36.9	23.6	38.2	31.1	0.0	2.0	2.2	3.0	2.10	1.27	39.5
11 CM119-3	1.2	2.7	147.4	102.2	0.0	15.7	0.5	0.9	1.8	2.0	50.1	40.1	48.8	36.4	0.0	2.0	1.0	2.3	2.60	1.50	42.3
84 DTLNEM-9	-2.0	3.3	117.5	92.3	0.0	16.0	0.6	0.5	0.6	3.3	54.9	49.0	45.3	43.3	2.0	2.2	3.0	3.0	1.90	1.08	43.2
176 Dr Gadag's maternal-19	-1.7	1.3	115.6	95.0	0.0	3.3	-0.1	0.4	0.9	3.0	52.4	52.1	52.3	42.5	2.0	8.0	3.0	9.3	2.20	1.22	44.5
98 DTLNEM-24	-1.2	1.3	114.6	92.3	0.0	5.9	-0.1	0.5	1.8	1.7	51.2	42.4	49.9	43.2	1.0	4.0	2.0	5.3	2.20	1.21	45.0
151 DTLNEM-76	-0.7	1.3	136.2	83.7	0.0	6.3	0.0	0.5	1.8	2.7	42.8	55.0	33.4	49.6	2.0	3.0	3.0	3.3	2.30	1.24	46.1
16 CM500-2	1.7	2.0	134.8	111.4	0.0	11.9	0.0	0.1	2.8	1.3	50.2	47.2	47.9	40.6	1.0	4.0	2.0	5.5	2.60	1.38	46.9
36 (P3455CAS2B-46-2-3F/R)-B-3	-0.4	2.5	150.0	96.3	0.0	19.3	0.0	0.6	1.1	0.8	60.5	43.6	57.3	37.7	1.0	2.0	2.0	3.0	1.90	1.00	47.4
75 Pant-7	-0.6	3.3	176.7	101.8	0.0	11.4	0.0	-0.1	1.7	1.1	58.9	47.3	52.7	35.4	1.0	2.0	2.0	5.3	2.30	1.10	52.2

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156	DT/LNEM-81	-2.1	2.3	157.5	70.5	0.0	13.4	0.0	0.6	0.3	1.5	51.8	52.2	46.9	46.6	1.0	2.0	2.0	3.7	2.30	1.10	52.2
164	Dr Gadag's material-7	1.7	11.3	177.6	126.4	0.5	17.3	0.5	0.0	1.9	1.4	52.5	53.9	42.9	49.9	1.0	2.0	2.0	3.7	2.30	1.10	52.2
166	Dr Gadag's material-9	-3.4	5.4	167.4	123.4	0.0	19.3	0.0	0.4	1.3	2.4	48.9	46.1	46.1	42.8	0.0	2.2	0.8	5.3	2.30	1.10	52.2
143	DT/LNEM-68	-0.6	1.7	170.7	102.8	0.0	3.5	0.0	0.0	2.6	1.3	55.5	34.5	57.7	29.5	2.0	7.3	2.0	8.3	1.80	0.86	52.2
109	DT/LNEM-34	-0.5	12.3	132.8	95.3	0.0	20.5	0.1	0.0	1.3	1.1	57.7	36.7	48.4	33.8	2.0	6.0	2.0	3.3	1.70	0.81	52.4
53	WL10-x-x-1	-0.5	13.3	132.8	57.8	0.0	9.0	0.0	0.6	1.3	1.2	52.5	40.2	58.8	28.1	1.0	7.0	2.0	7.7	1.30	0.60	53.8
70	Pant-2	-3.6	0.0	150.9	95.7	0.0	21.3	0.0	-0.3	0.9	2.1	49.1	45.5	51.5	40.4	1.0	3.0	3.0	3.3	2.40	1.10	54.2
167	Dr Gadag's material-10	0.2	3.7	142.1	125.7	0.0	0.0	0.0	1.1	1.8	1.8	44.3	48.5	45.9	43.1	1.0	7.3	3.0	9.3	2.30	1.03	55.2
180	Dr Gadag's material-23	0.3	5.7	172.7	135.9	0.0	7.1	0.0	0.1	1.0	3.1	52.4	46.1	47.5	41.6	2.0	2.0	2.0	4.7	2.43	1.08	55.6
45	AMATLCOHS92-1-1-3E-4-3-1-8	-0.6	2.5	130.3	112.3	0.0	22.0	0.0	-0.1	1.6	1.6	57.2	45.9	46.3	41.1	2.0	4.0	3.0	5.3	2.10	0.83	55.7
37	AMATLCOHS44-1-1-2E-4-5-2-8	0.4	1.3	121.3	106.3	0.0	15.0	0.0	0.0	1.3	0.6	46.6	49.4	41.9	39.7	1.0	4.0	2.0	5.3	2.60	1.10	57.7
106	DT/LNEM-33	0.6	8.3	120.9	59.6	0.0	51.3	0.0	0.3	2.3	1.5	52.0	44.6	42.9	46.0	1.0	2.7	3.0	4.3	1.80	0.76	57.8
149	DT/LNEM-74	-3.8	13.3	140.4	101.6	0.0	12.5	0.0	0.7	1.8	1.3	51.5	37.2	50.6	29.5	1.0	3.0	3.0	7.0	1.70	0.71	58.2
10	CM119-2	-0.3	3.3	138.5	121.4	0.0	11.0	0.0	1.1	1.5	1.9	46.8	40.3	46.5	40.9	1.0	3.0	2.0	4.3	2.80	1.10	60.7
8	CM117-2	0.9	8.3	114.3	49.6	0.0	23.0	0.0	0.6	1.4	1.3	49.9	40.5	47.3	33.5	0.0	6.0	2.0	7.3	2.30	0.90	60.9
132	DT/LNEM-57	-0.4	2.9	149.3	78.4	0.0	14.0	0.0	0.6	0.9	1.0	46.7	48.0	42.6	49.3	1.0	2.0	2.0	3.7	1.90	0.74	61.1
98	DT/LNEM-21	-0.3	11.3	122.3	89.6	0.0	29.4	0.0	-0.1	1.7	1.4	46.9	42.0	54.2	37.0	1.0	3.3	3.0	4.7	1.80	0.70	61.1
23	CM1226	-1.5	11.3	145.4	101.2	0.0	0.0	0.0	0.1	0.9	0.7	55.2	40.6	49.8	29.9	0.0	2.0	1.0	4.3	2.10	0.81	61.4
78	DT/LNEM-3	-0.6	2.3	112.3	98.7	0.0	17.3	0.0	0.0	1.1	0.8	52.7	35.1	52.1	45.1	2.0	3.0	3.0	4.3	2.10	0.80	61.9
168	Dr Gadag's material-11	1.8	5.3	138.7	101.2	0.0	2.0	0.0	0.6	2.2	1.7	56.8	43.8	50.7	42.9	2.0	6.0	3.0	8.0	2.40	0.90	62.5
131	DT/LNEM-66	0.3	0.7	118.2	89.6	0.0	12.9	-0.1	0.9	1.5	1.3	63.7	41.7	59.8	40.9	1.0	1.0	3.0	4.3	2.20	0.81	63.2
165	Dr Gadag's material-6	4.0	10.3	144.6	104.6	0.0	11.0	0.0	0.6	1.1	2.3	46.2	49.5	43.1	45.2	1.0	2.0	2.0	4.7	2.20	0.80	63.6
123	DT/LNEM-46	-1.4	14.3	83.8	45.2	0.0	7.0	0.0	-0.3	1.0	0.6	25.9	42.1	20.4	37.7	2.0	3.0	3.0	4.3	1.60	0.58	63.8

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64	WL2B-x-3	-2.4	1.3	174.2	108.1	0.0	2.0	0.0	0.3	2.2	1.8	55.0	52.3	38.8	45.6	2.0	2.0	3.0	4.3	2.50	0.90	64.0
6	CM105	0.7	3.7	128.5	100.3	0.0	10.6	0.0	1.0	1.8	1.7	48.5	40.3	50.6	26.9	2.0	2.0	3.0	3.3	2.30	0.80	65.2
74	Pant-6	0.8	2.3	137.4	116.2	0.0	21.3	0.0	0.1	1.0	1.9	53.1	54.8	48.2	37.5	1.0	1.0	2.0	3.0	2.10	0.70	66.7
30	CML-98-B-B	-4.1	1.3	131.3	112.6	0.0	9.4	0.0	0.0	1.7	1.5	46.2	44.3	48.1	42.3	0.0	4.0	1.0	5.3	1.60	0.51	68.1
51	WLS-x-1	0.8	0.7	113.5	80.2	0.0	11.0	-0.1	-0.1	-0.1	1.1	36.5	44.9	39.7	41.4	0.0	5.3	3.0	6.0	1.90	0.60	68.4
43	CML-80-B-B	-0.3	1.7	130.5	57.8	0.0	25.0	0.0	0.3	1.4	1.8	57.7	42.2	48.8	36.2	2.0	2.0	3.0	3.3	2.10	0.66	68.6
85	DT/LNEM-10	-1.9	1.7	165.3	103.2	0.0	23.0	0.0	0.1	1.5	2.0	54.5	47.4	51.2	46.0	0.0	7.3	2.0	3.3	1.80	0.56	68.9
104	DT/LNEM-29	-1.1	9.3	119.6	91.2	0.0	11.0	0.0	0.9	1.6	1.2	51.8	44.6	45.9	37.6	2.0	3.0	3.0	4.3	1.80	0.56	68.9
12	CM123-4	0.7	1.7	126.4	110.9	0.5	18.9	0.5	0.0	1.1	1.0	54.0	40.1	52.9	36.4	2.0	4.0	2.3	5.2	2.90	0.89	69.3
130	DT/LNEM-55	4.2	8.3	111.5	99.4	0.0	12.5	0.0	0.2	0.4	0.8	45.1	32.6	39.8	25.7	1.0	7.0	2.0	8.3	2.10	0.64	69.5
163	Dr Gadag's material-6	-1.8	2.3	154.5	119.4	0.0	11.9	0.0	0.1	1.0	1.7	53.9	36.2	48.0	41.4	1.0	3.0	2.0	4.7	2.30	0.70	69.6
102	DT/LNEM-27	0.0	3.6	142.5	102.3	0.0	8.3	-0.1	0.4	1.6	1.6	58.3	47.4	47.2	43.1	0.0	2.0	2.0	4.3	2.10	0.62	70.5
117	DT/LNEM-42	0.6	11.0	126.3	111.2	0.0	22.3	0.0	0.1	1.8	1.5	56.0	45.6	52.0	44.2	0.0	2.0	1.0	4.7	1.40	0.41	70.7
82	DT/LNEM-7	-1.7	0.7	121.6	110.4	0.0	14.0	0.5	0.5	3.1	1.8	49.9	39.0	47.6	29.5	1.0	2.0	2.0	5.3	2.20	0.62	71.8
161	Dr Gadag's material-4	-1.9	6.7	159.7	137.5	0.0	11.5	0.0	0.0	1.1	1.9	55.9	37.2	55.4	41.4	1.0	2.0	2.6	3.7	2.50	0.70	72.0
120	DT/LNEM-45	2.9	8.7	91.5	88.1	0.0	12.3	0.0	1.8	1.6	1.4	51.8	39.9	42.2	38.6	1.0	4.0	2.0	5.3	1.80	0.49	72.8
103	DT/LNEM-28	-1.1	6.7	140.2	112.3	0.5	19.3	0.5	0.4	1.3	0.9	53.9	40.8	47.9	39.4	1.0	4.0	3.0	4.7	1.90	0.51	73.2
137	DT/LNEM-62	-1.0	2.8	116.2	82.2	0.0	13.4	0.0	0.3	1.4	1.0	54.8	42.5	52.6	33.2	1.0	2.0	2.0	5.3	1.90	0.51	73.2
1	CML-311-B-B	0.4	7.3	117.3	57.0	0.0	23.4	0.0	1.2	0.6	1.2	46.9	32.6	40.6	37.1	1.0	3.0	1.3	4.5	2.30	0.60	73.9
47	CM117-4	-1.4	11.7	129.8	72.6	0.0	12.5	0.5	1.5	0.7	1.8	38.1	45.4	35.5	47.9	1.0	6.0	2.0	7.3	2.30	0.60	73.9
169	Dr Gadag's material-12	0.1	3.7	152.8	117.5	0.0	11.9	0.0	1.1	2.3	1.7	47.6	44.6	45.7	41.4	1.0	2.0	2.0	7.0	2.30	0.60	73.9
32	CML-228-B-B	-2.6	1.0	116.0	86.8	0.0	9.4	0.5	0.6	0.9	0.8	55.4	38.5	56.6	38.3	0.0	3.0	1.0	4.0	1.90	0.49	74.2
150	DT/LNEM-75	3.1	2.7	133.9	105.5	0.0	12.9	0.0	-0.1	2.2	2.1	47.1	53.9	52.2	48.8	1.0	7.0	2.0	7.3	1.90	0.49	74.2

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121	DT/LNEM-46	-2.0	2.3	130.6	103.4	0.0	16.3	0.0	0.1	1.6	1.8	52.1	51.7	47.3	44.8	2.0	2.0	3.0	4.3	1.90	0.48	74.7
160	Dr Gadag's material-3	-1.4	6.3	146.8	134.9	0.0	22.3	0.0	0.3	2.0	1.3	49.9	43.3	47.9	36.3	1.0	2.0	2.0	4.7	2.40	0.60	75.0
46	KSX3601F2-5-2-1-B-B	-0.7	10.3	124.7	61.3	0.0	25.8	0.0	2.3	1.2	0.6	56.0	44.1	46.9	45.6	1.0	3.0	3.0	4.3	2.20	0.54	75.5
177	Dr Gadag's material-20	-1.6	1.3	122.9	95.6	0.0	12.5	0.0	-0.1	0.6	1.4	62.2	37.0	52.8	44.1	1.0	3.0	2.0	4.3	2.30	0.56	75.7
28	PIO.301 1F2-5-3-B-B	0.8	1.2	168.8	103.2	0.0	11.0	0.0	0.1	1.1	1.7	57.7	49.1	46.6	45.2	1.0	7.0	2.0	7.7	2.50	0.60	76.0
140	DT/LNEM-65	1.9	12.2	117.9	86.5	0.0	21.6	0.5	0.5	1.9	1.3	52.1	44.8	49.7	40.7	1.0	2.0	2.0	5.3	2.30	0.55	76.1
7	CM117-1	-1.0	0.8	144.1	71.9	0.0	13.9	0.0	0.1	1.9	1.1	41.1	32.6	41.1	40.3	1.0	3.0	1.0	4.6	2.60	0.60	76.9
59	WL15-x-x-1	-0.6	0.0	123.1	110.2	0.0	31.0	0.0	0.5	1.5	1.8	60.6	39.0	54.5	42.2	0.0	5.0	1.0	5.3	2.60	0.60	76.9
124	DT/LNEM-49	-2.5	3.3	145.3	92.3	0.0	2.3	0.0	0.6	2.2	1.0	49.4	34.8	46.6	26.7	1.0	3.7	2.0	4.7	2.10	0.48	77.1
179	Dr Gadag's material-22	-1.8	2.7	153.3	137.5	0.0	5.4	0.0	0.1	1.1	0.5	55.9	47.9	55.4	37.8	2.0	1.0	2.6	6.7	2.50	0.57	77.2
101	DT/LNEM-26	0.6	6.3	119.3	96.3	0.0	12.5	0.0	0.6	1.5	1.8	45.7	42.2	41.8	43.9	1.0	5.0	3.0	7.3	1.80	0.41	77.2
119	DT/LNEM-44	0.7	9.3	146.4	94.5	0.0	33.2	0.0	0.2	1.1	1.9	55.1	45.1	48.1	42.9	1.0	4.0	2.0	4.7	1.60	0.36	77.5
106	DT/LNEM-31	-0.3	9.3	98.0	43.7	0.0	18.5	0.0	0.4	0.5	2.0	28.1	46.0	29.9	45.8	1.0	2.0	3.0	4.3	2.10	0.47	77.6
174	Dr Gadag's material-17	-1.1	11.7	90.9	83.5	0.0	31.9	0.0	0.5	1.1	1.7	52.3	44.2	45.4	36.3	2.0	7.0	3.0	8.3	1.80	0.40	77.8
57	WL21-x-x-3	0.7	5.3	125.2	42.6	0.0	11.0	0.0	0.8	0.5	1.7	19.7	42.5	19.2	38.3	1.0	4.0	2.0	4.3	2.30	0.50	78.3
159	Dr Gadag's material-2	-1.2	5.7	162.6	101.1	0.5	21.6	1.0	0.0	0.9	2.1	48.7	46.4	45.2	42.9	1.0	5.0	3.0	6.7	2.30	0.50	78.3
38	AMATLCOHS44-1-1-ZE-4-5-2-8	1.6	2.3	115.6	98.6	0.5	2.0	0.0	0.4	1.5	0.8	44.4	47.1	38.1	41.1	1.0	6.0	3.0	7.0	2.80	0.60	78.6
73	Part-5	-0.4	0.2	168.9	86.1	0.0	13.0	0.0	0.3	1.4	1.5	32.2	47.5	28.8	43.5	1.0	4.0	3.0	5.0	2.80	0.60	78.6
39	AMATLCOHS44-1-1-ZE-4-5-2-8	-1.2	1.1	141.2	96.5	0.0	11.9	0.0	0.2	1.2	1.0	41.9	45.1	38.5	42.4	1.0	5.0	3.0	5.3	1.90	0.40	78.9
65	WL29-x-x-3	-1.7	3.0	154.8	100.3	0.0	12.0	0.0	0.4	0.3	2.4	46.7	46.1	43.5	41.6	1.0	4.0	2.0	5.3	1.90	0.40	78.9
158	Dr Gadag's material-1	0.3	3.7	137.2	112.1	0.0	31.2	0.0	0.9	1.3	2.1	51.3	50.7	53.9	48.4	1.0	6.0	2.0	7.7	1.90	0.40	78.9
66	WL36-x-x-4	-1.2	1.4	128.2	127.6	0.0	1.0	-0.1	0.0	1.1	1.6	55.1	45.5	56.3	39.0	1.0	2.0	2.0	4.3	2.90	0.60	79.3
129	DT/LNEM-54	-0.9	10.3	116.5	93.0	0.0	13.6	0.0	0.0	0.8	0.8	51.8	38.2	44.9	35.4	0.0	3.0	1.0	4.3	1.80	0.37	79.4

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69	Pant-1	0.3	1.1	193.8	95.2	0.0	9.4	0.0	0.2	1.4	1.6	55.5	47.1	43.9	40.5	1.0	4.0	2.0	7.3	2.50	0.50	80.0
17	CM501-8	2.2	15.3	121.4	29.8	0.0	19.6	0.0	-0.1	-0.2	1.1	16.7	41.0	15.7	42.4	2.0	3.0	3.0	4.4	2.30	0.45	80.4
134	DT/LNEM-59	-1.1	9.7	134.4	121.0	0.0	12.4	0.0	0.6	1.0	0.6	53.5	41.9	54.4	30.6	1.0	3.0	2.0	3.3	1.90	0.37	80.5
71	Pant-3	0.0	3.1	147.6	112.7	0.0	2.0	0.0	0.3	1.8	1.9	43.2	42.4	46.4	31.4	1.0	3.0	2.0	3.3	3.10	0.60	80.6
33	CML-287-B-B	0.2	2.3	136.2	110.9	0.0	11.9	0.0	0.4	1.4	1.4	47.8	44.0	40.1	32.4	1.0	6.0	2.0	7.3	2.10	0.40	81.0
50	WL7-x-x	-0.8	0.4	155.4	112.2	0.0	9.0	0.0	0.1	1.2	1.4	48.9	37.5	39.3	36.8	0.0	3.0	3.0	3.7	2.10	0.40	81.0
153	DT/LNEM-78	-1.2	2.7	144.4	126.2	0.0	12.4	-0.1	0.0	2.4	2.2	51.3	47.3	43.3	48.1	1.0	3.0	3.0	4.3	2.10	0.40	81.0
54	WL10-x-x-2	1.1	5.0	117.6	68.9	0.0	13.2	0.0	0.4	1.7	1.7	54.6	35.1	53.7	39.7	0.0	1.0	3.0	4.0	1.90	0.36	81.1
98	DT/LNEM-23	-1.9	6.3	118.5	95.3	0.0	14.0	0.0	-0.2	1.8	1.0	61.9	49.0	55.7	49.8	2.0	2.0	2.0	3.0	1.70	0.32	81.2
128	DT/LNEM-53	1.6	12.7	99.6	55.9	0.0	9.6	0.0	0.5	1.2	0.3	22.1	44.4	18.1	42.1	1.0	8.0	2.0	9.3	1.90	0.35	81.6
67	WL36-x-x-1	-0.2	-0.8	138.7	129.9	0.0	21.0	0.0	0.6	1.6	2.0	55.7	41.0	47.2	31.8	1.0	6.0	2.0	7.0	2.20	0.40	81.8
95	DT/LNEM-20	-0.6	8.3	112.3	68.9	0.0	17.0	0.0	0.0	1.3	1.6	58.3	45.0	53.0	42.2	1.0	3.0	2.0	3.3	1.60	0.29	81.9
72	Pant-4	0.7	1.7	139.8	122.5	1.0	13.0	0.0	0.3	0.9	1.2	46.9	55.2	39.8	43.0	2.0	3.0	3.0	4.7	2.80	0.50	82.1
80	DT/LNEM-5	2.7	15.3	115.6	108.7	0.0	19.0	0.0	0.1	1.5	0.8	48.6	44.0	47.3	40.1	0.0	4.0	2.0	4.3	1.60	0.28	82.5
127	DT/LNEM-52	0.2	12.7	96.0	93.2	0.0	6.8	0.0	-0.1	0.8	1.4	44.8	43.0	41.6	36.5	2.0	3.0	3.0	4.3	1.60	0.28	82.5
92	DT/LNEM-17	-0.7	14.9	142.3	89.6	0.0	42.2	0.0	0.4	1.5	1.6	50.0	28.7	45.5	32.3	0.0	4.0	3.0	4.3	1.90	0.33	82.6
162	Dr Gadag's material-5	0.3	4.3	107.4	85.6	0.0	9.4	0.0	1.1	1.0	1.5	52.4	44.7	47.5	48.2	2.0	4.0	3.0	5.7	1.90	0.30	84.2
173	Dr Gadag's material-16	-0.4	10.3	130.3	85.7	0.0	21.0	0.0	0.1	1.5	1.0	45.8	45.9	43.1	37.5	1.0	3.0	2.0	4.3	1.90	0.30	84.2
20	CM501-11	3.1	9.3	122.0	78.9	0.0	21.7	0.0	0.5	1.9	1.0	41.3	37.1	39.7	41.0	0.0	4.0	2.0	5.7	2.10	0.32	84.8
148	DT/LNEM-73	0.1	2.7	94.7	45.2	0.0	12.3	0.0	0.6	0.6	2.0	23.5	35.0	25.3	22.6	1.0	4.0	3.0	5.3	1.80	0.26	85.6
25	CML327	1.1	18.3	131.9	85.2	0.0	23.9	0.0	1.4	0.8	1.7	47.5	45.8	43.8	39.2	2.0	3.0	3.0	4.3	2.10	0.30	85.7
55	WL11-x-x-1	0.1	2.3	143.2	85.6	0.0	8.0	0.0	0.5	1.2	1.0	52.9	41.6	52.1	42.3	1.0	1.0	2.0	3.0	2.10	0.30	85.7
145	DT/LNEM-70	-1.5	11.7	136.8	94.0	0.0	17.0	0.5	-0.2	1.9	0.4	50.6	41.4	48.7	27.4	0.0	2.0	1.3	4.7	2.10	0.30	85.7

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175	Dr Gadag's material-18	-1.2	10.3	144.2	112.4	1.0	22.0	-0.1	0.5	2.3	2.1	54.2	48.2	48.3	50.5	0.0	3.0	2.0	4.3	2.10	0.30	85.7
42	PIO.301 1F2-3-5-3-B-B	2.5	7.9	149.4	85.2	1.0	23.4	1.0	-0.2	1.3	2.2	47.8	43.6	45.3	37.5	1.0	3.0	2.0	4.3	1.90	0.27	85.8
76	DT/LNEM-1	0.4	14.7	112.6	61.3	0.0	23.0	0.0	0.5	0.3	1.4	53.8	30.8	54.0	33.7	0.0	4.0	3.0	6.0	1.90	0.27	85.8
115	DT/LNEM-40	0.9	1.7	98.6	75.2	0.0	18.9	0.0	0.0	2.4	0.9	53.6	42.7	56.6	37.2	2.0	3.0	3.0	5.7	1.70	0.24	85.9
146	DT/LNEM-71	-3.3	15.3	109.7	86.3	0.0	13.0	0.0	0.1	1.5	1.0	50.6	42.7	44.5	36.3	1.0	4.0	2.0	5.3	2.20	0.31	85.9
3	CM 133	0.4	11.3	121.3	85.4	0.5	23.0	0.0	-0.1	0.8	1.2	61.1	44.9	53.5	38.7	0.0	3.0	1.2	4.5	2.13	0.30	85.9
87	DT/LNEM-12	0.9	8.3	106.0	71.9	0.0	28.3	0.5	0.2	1.1	1.8	41.7	42.5	38.6	43.0	1.0	2.0	3.0	4.3	2.30	0.32	86.1
19	CM501-10	1.6	8.7	114.7	88.7	0.0	32.9	0.0	1.9	1.2	1.1	45.5	31.5	49.7	34.5	1.0	2.0	1.0	3.3	1.90	0.26	86.3
81	DT/LNEM-6	0.7	2.4	101.1	95.3	0.0	42.0	0.0	0.0	1.8	1.0	47.2	42.5	47.3	41.2	1.0	3.0	3.0	7.3	1.90	0.26	86.3
61	WL18-x-x-3	-1.6	1.8	119.3	105.8	0.0	2.0	0.0	0.6	1.2	0.6	54.0	38.9	49.8	38.7	1.0	4.0	2.0	5.9	2.20	0.30	86.4
93	DT/LNEM-18	2.1	5.6	123.5	101.3	0.0	5.9	0.0	0.2	2.3	2.1	44.8	45.6	40.1	43.2	1.0	3.0	2.0	7.3	2.20	0.30	86.4
27	AMATLCOHS92-1-3E-4-3-1-B	-3.2	13.7	130.6	99.5	0.0	45.9	0.0	0.2	0.7	0.9	52.1	51.8	51.1	43.3	1.0	3.0	3.0	4.0	2.30	0.31	86.5
21	CML90-1	-2.2	5.7	135.2	92.3	0.0	7.0	0.5	-0.1	1.4	0.6	44.2	43.2	36.4	37.7	2.0	3.0	3.0	4.3	1.80	0.24	86.7
107	DT/LNEM-32	2.7	10.3	108.6	59.6	0.0	17.9	0.0	0.2	0.7	0.8	47.0	47.1	36.5	43.5	1.0	2.2	2.0	3.7	2.20	0.29	86.8
113	DT/LNEM-38	2.0	14.3	88.7	61.3	0.0	19.2	0.0	0.9	1.3	1.7	43.6	43.8	42.2	47.9	0.0	2.0	1.0	4.3	2.20	0.29	86.8
97	DT/LNEM-22	-2.2	6.7	115.5	104.3	0.0	21.5	0.0	0.2	1.2	0.5	47.5	44.3	44.3	49.2	1.0	1.0	2.0	3.0	1.90	0.25	86.8
49	CML317	-1.3	10.8	115.7	82.8	0.0	18.3	0.0	1.4	0.9	2.0	46.4	48.2	41.0	42.6	0.0	4.0	2.0	4.7	2.30	0.30	87.0
63	WL28-x-x-1	-1.8	8.7	154.7	98.6	0.0	5.0	0.0	0.1	1.2	1.8	46.1	47.1	43.4	41.5	2.0	2.0	3.0	5.3	2.30	0.30	87.0
114	DT/LNEM-39	-0.6	10.3	142.3	85.9	0.0	14.6	0.0	0.1	1.4	0.2	57.7	46.3	56.6	48.0	1.0	4.0	2.0	7.3	1.90	0.24	87.4
157	DT/LNEM-82	-1.5	2.7	141.5	110.5	0.0	19.3	-0.1	0.8	0.1	1.5	53.3	41.8	52.1	38.5	2.0	3.0	3.0	4.3	2.40	0.30	87.5
178	Dr Gadag's material-21	1.3	3.9	130.3	111.4	0.0	11.0	0.0	0.1	0.8	1.4	45.1	45.2	50.4	40.2	0.0	7.0	3.0	7.7	2.40	0.30	87.5
122	DT/LNEM-47	-1.9	13.7	113.8	104.9	0.0	21.4	0.0	0.1	1.6	1.4	52.8	34.9	53.5	35.9	0.0	4.0	1.0	7.3	1.70	0.21	87.6
91	DT/LNEM-16	-0.8	3.4	119.6	59.8	0.0	14.5	0.0	0.4	1.3	1.0	51.5	38.0	46.5	30.9	1.0	3.0	2.0	5.3	2.30	0.28	87.8
44	CML-116-B-B	-2.3	12.3	124.2	82.3	0.0	31.9	0.5	1.9	0.6	0.6	49.2	38.0	50.4	34.1	1.0	2.0	3.0	3.3	1.90	0.23	87.9

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22	CML102 (HS)-1	0.3	12.7	104.4	59.6	0.0	10.2	-0.1	-0.2	1.8	1.8	44.0	35.6	43.7	31.9	1.0	6.0	2.0	7.3	1.90	0.22	88.4
126	DTL/NEM-51	-3.7	16.3	151.4	92.5	0.0	3.4	0.0	0.2	1.6	0.5	46.8	36.3	45.9	33.6	2.0	2.0	3.0	3.7	1.30	0.15	88.5
170	Dr Gadag's material-13	0.7	4.3	139.8	98.9	1.0	14.0	0.0	0.0	2.0	1.6	54.2	45.7	52.0	40.1	0.0	4.0	3.0	7.3	2.60	0.30	88.5
52	WLS-x-x-4	-1.4	5.7	87.2	51.3	0.5	11.0	0.0	0.2	1.1	1.2	39.9	39.2	41.7	44.2	0.0	3.0	2.0	5.3	1.80	0.20	88.9
133	DTL/NEM-58	-0.7	8.3	87.3	56.3	0.0	14.0	0.5	0.0	1.1	0.2	28.1	29.6	26.9	28.6	1.0	4.0	3.0	4.7	1.80	0.20	88.9
144	DTL/NEM-69	1.1	14.3	113.1	85.6	0.0	10.3	0.0	0.5	-0.1	1.0	47.0	36.4	36.7	36.1	1.0	6.0	2.0	7.7	1.80	0.20	88.9
125	DTL/NEM-50	0.0	12.7	108.3	51.8	0.0	13.9	0.0	-0.1	1.2	0.6	49.8	23.4	40.9	21.8	0.0	3.0	2.0	4.3	2.20	0.24	89.1
77	DTL/NEM-2	2.0	11.3	106.8	82.3	0.0	14.5	0.0	-0.1	2.3	0.6	45.2	21.5	41.8	23.8	1.0	6.0	2.0	7.3	1.60	0.17	89.4
89	DTL/NEM-14	1.1	9.3	116.3	89.6	0.0	28.3	0.0	0.2	1.1	0.7	52.7	36.4	36.9	29.1	2.0	3.0	2.0	3.3	1.90	0.20	89.5
171	Dr Gadag's material-14	0.7	16.3	149.3	68.1	0.0	0.0	0.0	1.0	0.4	2.1	21.5	41.4	24.6	41.6	1.0	3.0	1.6	5.0	1.90	0.20	89.5
5	CM 501	-1.7	7.9	134.9	52.6	0.0	13.7	0.0	0.0	1.2	1.4	46.2	41.9	47.4	35.8	0.0	4.0	2.0	5.3	2.00	0.21	89.5
139	DTL/NEM-64	2.3	3.3	120.3	109.6	0.0	31.2	0.0	0.0	1.1	2.1	47.7	34.8	42.3	33.3	2.0	3.0	3.0	4.3	2.20	0.23	89.5
58	WL22-x-x-4	0.6	16.3	123.7	78.0	0.0	18.9	0.0	0.3	0.2	0.4	27.0	42.2	31.4	38.7	2.0	6.0	3.0	7.3	1.60	0.16	90.0
14	CM600	0.8	10.3	131.1	61.3	0.0	34.0	0.0	0.0	0.7	1.7	52.2	48.2	44.1	43.4	1.0	5.0	2.0	5.6	1.90	0.16	90.5
112	DTL/NEM-37	1.3	2.3	94.0	82.3	0.0	22.2	-0.1	-0.2	1.5	1.8	54.2	41.0	47.5	40.8	1.0	3.0	2.0	5.3	1.80	0.17	90.6
	5406-27P24																					
	STECTHC17-1-2-1																					
	-1-2-88B-1-#-888888																					
26	B-8-B	-1.5	12.7	167.9	79.1	0.0	26.2	0.0	1.1	0.8	2.1	51.6	41.5	41.0	35.0	0.0	6.3	2.0	8.3	2.50	0.23	90.8
152	DTL/NEM-77	2.3	12.3	140.4	104.8	0.0	14.0	0.0	-0.2	1.1	1.6	58.4	50.0	52.0	44.1	1.0	3.0	2.0	4.7	2.20	0.20	90.9
172	Dr Gadag's material-15	1.1	3.3	86.1	31.9	0.0	23.4	0.0	0.0	0.8	1.4	13.4	48.1	12.6	47.2	1.0	8.0	2.0	9.0	2.20	0.20	90.9
40	AMATLCOHS92-1-1-3E-4-3-1-B	0.0	1.7	107.2	86.2	0.0	14.0	-0.1	0.9	0.8	0.5	35.3	36.5	34.0	34.8	2.0	2.0	3.0	3.3	1.90	0.17	91.1
56	WL20-x-x-2	2.8	14.7	143.9	49.3	0.5	28.9	0.5	0.1	1.3	1.2	44.2	51.0	42.6	41.4	0.0	2.0	2.0	2.7	2.50	0.22	91.2
118	DTL/NEM-43	0.9	13.7	157.3	111.3	0.0	34.4	0.0	-0.1	2.5	0.8	48.1	34.3	45.8	32.4	1.0	2.2	2.0	3.0	1.50	0.13	91.3
60	WL16-x-x-3	1.4	4.3	135.5	67.3	0.0	23.4	0.0	0.3	1.1	1.3	30.4	40.5	26.7	34.7	2.0	2.0	3.0	3.7	2.40	0.20	91.7
155	DTL/NEM-80	0.7	3.1	152.0	63.6	0.0	11.7	0.0	0.6	0.7	1.6	26.3	44.5	20.8	41.8	0.0	2.0	2.0	4.3	2.40	0.20	91.7

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13	CM300	-1.3	12.3	114.5	49.6	0.0	5.9	0.0	0.1	0.8	1.7	27.8	38.7	26.5	28.1	0.0	6.0	1.0	6.6	2.50	0.20	92.0
110	DT/LNEM-35	0.9	10.7	112.0	65.3	0.0	32.4	0.0	0.6	1.1	0.8	52.2	48.0	56.9	40.6	1.0	2.0	3.0	4.3	1.60	0.12	92.5
24	CML311	-0.4	3.3	124.3	69.5	0.0	9.0	0.0	0.5	1.3	2.7	55.7	37.5	50.0	29.7	1.0	4.0	2.0	5.7	1.80	0.11	93.9
135	DT/LNEM-60	-2.1	7.7	128.2	72.1	0.0	5.8	0.5	0.9	1.2	0.7	58.6	36.0	52.4	33.5	2.0	5.0	3.0	7.7	1.80	0.11	93.9
154	DT/LNEM-79	0.6	11.3	162.0	102.8	0.0	5.8	0.0	0.1	1.1	1.8	55.4	47.7	44.9	49.6	1.0	3.0	2.0	3.7	1.70	0.10	94.1
136	DT/LNEM-61	0.8	13.3	107.1	92.5	0.0	11.7	0.0	0.0	1.2	0.9	53.5	27.4	44.7	22.8	1.0	2.0	2.0	4.3	1.90	0.11	94.2
66	DT/LNEM-11	0.0	2.3	112.3	86.3	1.0	17.3	0.5	-0.1	1.3	1.4	49.3	37.6	48.9	43.0	2.0	6.0	3.0	7.7	2.10	0.12	94.3
66	WL30-x-x-1	1.2	2.7	108.5	79.9	0.5	39.0	0.5	0.5	1.5	0.3	41.5	49.8	29.8	38.0	0.0	7.3	3.0	3.3	1.70	0.09	94.7
34	CML-338-B-B	2.1	10.7	124.8	58.9	0.0	17.3	0.0	0.6	1.9	0.6	57.8	44.7	49.0	40.2	1.0	1.0	2.0	2.7	2.30	0.10	95.7
138	DT/LNEM-63	0.8	13.7	110.2	91.5	0.0	19.3	0.0	0.1	1.1	0.1	48.8	39.4	45.2	18.6	1.0	3.0	2.0	3.3	2.10	0.09	95.7
111	DT/LNEM-36	-0.1	8.3	95.4	69.3	2.0	32.4	0.0	0.1	1.8	2.1	48.8	51.1	55.5	44.5	1.0	4.0	3.0	4.3	2.20	0.09	95.9
141	DT/LNEM-66	2.9	12.0	100.2	45.1	0.0	22.3	0.5	0.1	0.7	-0.1	23.2	-0.1	18.6	-0.3	0.0	2.0	1.0	4.3	2.10	0.08	96.2
68	DT/LNEM-13	0.4	7.7	127.6	86.2	0.0	20.3	0.1	0.1	1.6	1.0	55.2	38.1	49.1	42.2	0.0	4.0	1.0	5.3	2.40	0.09	96.3
94	DT/LNEM-19	-0.7	13.2	123.5	88.7	0.0	19.0	0.5	0.5	0.8	1.3	47.4	31.5	47.0	28.0	1.0	4.3	3.0	5.7	1.50	0.05	96.7
4	CM 600	-1.2	6.7	118.2	62.3	0.0	45.6	-0.1	0.0	0.8	1.4	49.7	21.5	49.2	16.8	1.0	5.0	1.2	5.8	1.90	0.06	96.8
41	PIO.301 1F2-3-6-3-B-B	0.7	9.3	140.6	59.6	0.0	18.4	1.0	1.1	1.4	1.4	48.4	42.7	49.0	43.2	2.0	4.0	3.0	5.3	1.80	0.05	97.2
90	DT/LNEM-15	0.3	3.0	111.5	44.6	0.0	12.4	1.0	-0.1	0.7	1.3	30.0	41.1	21.9	35.1	2.0	5.3	3.0	7.0	2.20	0.05	97.7
100	DT/LNEM-25	-1.3	9.3	127.8	102.3	0.0	20.5	0.5	0.1	2.1	0.3	56.5	41.5	55.5	41.8	1.0	6.0	3.0	7.0	1.90	0.03	98.4
63	DT/LNEM-6	3.3	-0.2	120.3	66.9	0.0	17.0	0.0	0.0	1.1	0.3	50.0	0.1	43.9	0.2	1.0	2.0	3.0	3.7	1.50	0.02	98.7
142	DT/LNEM-67	0.2	15.3	152.6	96.2	0.0	11.5	0.1	0.6	1.3	0.7	55.4	47.8	46.2	40.4	2.0	2.2	3.0	3.7	1.60	0.01	99.4
105	DT/LNEM-30	0.6	10.3	110.8	62.3	0.0	19.3	0.0	0.0	1.1	0.1	46.4	49.7	41.9	41.4	1.0	2.0	2.0	3.7	1.90	0.00	100.0
147	DT/LNEM-72	0.6	11.3	121.7	118.6	0.0	19.0	0.0	-0.1	2.4	-0.1	48.4	42.7	50.3	41.6	1.0	3.0	3.0	4.3	1.60	0.00	100.0
	MEAN	-0.1	6.6	128.7	69.6	0.06	16.9	0.09	0.34	1.30	1.43	48.33	41.89	44.94	38.28	0.96	3.49	2.28	5.01	2.07	0.52	75.45
	LSD (p = 0.05)	NS	4.2	13.78	18.06	NS	3.36	NS	NS	NS	0.96	11.23	12.3	NS	11.2	NS	0.96	NS	2.03	0.72	0.83	
	CV (%)	62.3	78.6	14.3	29.6	35.4	36.6	23.5	53.0	54.3	40.0	50.2	15.2	37.8	14.9	14.5	23.2	32.3	22.1	19.3	43.6	

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Table 49: Performance of the new introduction of population bulks and lines derived from the drought tolerant populations developed at CIMMYT, Mexico under normal conditions during Kharif, 2003 at Delhi

Entry No.	Pedigree	Plot No. DLK-03	CIMMYT origin	Plant stand	50% anthesis (d)	50% silking (d)	Yield (t/ha)	Selection (1-3)
1	Tuxpeno Sequia- C6	501	TL96B-6681-1	Good	57	54	3.89	1
2	Tuxpeno Sequia-C8	502	PR99A-652-2	Good	57	55	3.97	1
3	TS6 C4	503	TL97B-6631-8	Good	56	54	4.01	1
4	La Posta Sequia- C5	504	PR98B-4661	Good	57	54	4.12	1
5	La Posta Sequia-C7	505	PR99A-643	Good	55	54	4.26	1
6	Pool 26 Sequia- C3	506	TL96B-6675-2	Good	54	54	4.05	1
7	DTP1- white, C6	507	TL95B-6695-4	Good	52	52	3.88	1
8	DTP- white, C9	508	PR99A-641	Good	52	52	4.11	1
9	DTP1-yellow, C6	509	TL95B-6695-5	Good	52	52	3.75	1
10	DTP-yellow, C9	510	PR99A-642	Good	52	52	3.97	1
11	Pool 18 Sequia- C3	511	TL95B-6695-1	Good	51	51	3.56	1
12	Pool 18 Sequia- C5	512	PR98A-650-6	Good	51	51	3.79	1
13	Pool 16 BN Sequia- C3	513	TL00A-1652	Good	51	51	3.99	1
14	G26SeqC1-149-1-1-1-1	514	PR95B-5658-11-1	Good	60	57	2.76	1
15	G26SeqC1-149-1-1-1-2	515	PR95B-5658-11-2	Good	60	59	2.99	1
16	G26SeqC1-149-1-1-2-1	516	PR95B-5658-12-1	Good	60	57	2.79	1
17	G26SeqC1-149-1-1-2-2	517	PR95B-5658-12-2	Good	63	59	2.88	1
18	G26SeqC1-149-1-1-2-3	518	PR95B-5658-12-3	Medium	63	60	2.60	2
19	G26SeqC1-149-1-1-2-4	519	PR95B-5658-12-4	Medium	63	63	2.35	2
20	G26SeqC1-149-1-1-2-5	520	PR95B-5658-12-5	Medium	60	57	2.62	2
21	G26SeqC1-149-1-1-3-1	521	PR95B-5658-13-1	Poor	-	-	-	3
22	G26SeqC1-244-1-1-1-1	522	PR95B-5658-18-1	Medium	60	58	1.98	2
23	G26SeqC1-278-4-3-2-1	523	PR95B-5658-27-1	Medium	60	57	2.45	2
24	G26SeqC1-63-1-2-1-1	524	PR95B-5658-38-1	Medium	60	57	2.22	2
25	G26SeqC1-63-1-2-1-2	525	PR95B-5658-38-2	Medium	-	-	-	3
26	G26SeqC1-63-1-2-3-1	526	PR95B-5658-40-1	Medium	60	57	2.78	2
27	G26SeqC1-202-1-2-2-1	527	PR95B-5658-47-1	Poor	-	-	-	3
28	DTP1WC6F19-1-#-1-2-1	528	PR95B-5652-6-1	Poor	-	-	-	3
29	DTP1WC6F19-1-#-1-2-2	529	PR95B-5652-6-2	Poor	-	-	-	3
30	DTP1WC6F19-1-#-1-3-1	530	PR95B-5652-7-1	Poor	-	-	-	3
31	DTP1WC6F19-1-#-1-3-2	531	PR95B-5652-7-2	Poor	-	-	-	3
32	DTP1WC6F58-1-#-3-1-1	532	PR95B-5652-16-1	Poor	-	-	-	3
33	DTP1WC6F58-1-#-3-1-2	533	PR95B-5652-16-2	Medium	66	63	2.19	2
34	DTP1WC6F58-1-#-3-2-1	534	PR95B-5652-17-1	Medium	66	63	1.98	2
35	DTP1WC6F58-1-#-3-3-1	535	PR95B-5652-18-1	Medium	60	60	3.16	2
36	DTP1WC6F85-2-#-3-3-1	536	PR95B-5652-21-1	Poor	-	-	-	3
37	DTP1WC6F98-1-#-1-2-1	537	PR95B-5652-23-1	Poor	63	57	2.32	2
38	DTP1WC6F98-1-#-1-2-2	538	PR95B-5652-23-2	Poor	-	-	-	3
39	DTP1WC6F98-1-#-1-2-3	539	PR95B-5652-23-3	Good	60	57	2.90	1
40	DTP1WC6F98-1-#-1-2-4	540	PR95B-5652-23-4	Medium	60	57	2.20	2
41	DTP1WC6F98-1-#-1-3-1	541	PR95B-5652-24-1	Poor	60	57	3.04	1
42	DTP1WC6F98-1-#-1-3-2	542	PR95B-5652-24-2	Poor	59	57	2.30	2
43	DTP1WC6F100-3-#-3-1-1	543	PR95B-5652-29-1	Poor	64	63	2.60	2
44	DTP1WC6F100-3-#-3-1-2	544	PR95B-5652-29-2	Poor	-	-	-	3
45	DTP1WC6F148-1-#-3-3-1	545	PR95B-5652-37-1	Good	64	63	2.86	1
46	DTP1WC6F180-1-#-1-1-1	546	PR95B-5652-47-1	Poor	-	-	-	3
47	DTP1WC6F181-1-#-3-1-1	547	PR95B-5652-49-1	Good	64	63	2.89	1
48	DTP1WC6F181-1-#-3-2-1	548	PR95B-5652-50-1	Poor	-	-	-	3
49	DTP1WC6F181-1-#-3-4-1	549	PR95B-5652-52-1	Medium	63	60	1.59	2
50	DTP1WC6F186-1-#-1-1-1	550	PR95B-5652-53-1	Poor	63	60	2.30	2
51	DTP1WC6F186-1-#-1-2-1	551	PR95B-5652-54-1	Poor	60	57	2.20	2

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52	DTP1WC6F186-1-#-1-3-1	552	PR95B-5652-54-1	Good	60	57	3.02	1
53	DTP1WC6F186-1-#-1-3-2	553	PR95B-5652-55-2	Good	63	58	2.79	1
54	DTP1WC6F186-1-#-1-3-3	554	PR95B-5652-55-3	Good	63	57	2.89	1
55	DTP1WC6F186-1-#-1-3-4	555	PR95B-5652-55-4	Medium	63	57	2.35	2
56	DTP1WC6F186-1-#-1-4-1	556	PR95B-5652-56-1	Poor	-	-	-	3
57	DTP1WC6F186-1-#-1-4-2	557	PR95B-5652-56-2	Good	63	60	3.13	1
58	DTP1WC6F207-2-#-1-1-1	558	PR95B-5652-57-1	Poor	-	-	-	3
59	DTP1WC6F259-2-#-4-2-1	559	PR95B-5652-62-1	Poor	57	57	2.30	2
60	DTP1WC6F259-2-#-4-2-2	560	PR95B-5652-62-2	Poor	-	-	-	3
61	DTP1WC6F259-2-#-4-3-1	561	PR95B-5652-63-1	Poor	61	61	2.35	2
62	DTP1WC6F273-1-#-1-1-1	562	PR95B-5652-64-1	Medium	63	61	2.62	2
63	DTP1WC6F131-2-#-1-2-1	563	PR95B-5652-86-1	Good	63	61	2.19	2
64	DTP1WC6F131-2-#-1-2-2	564	PR95B-5652-86-2	Poor	63	61	1.99	2
65	DTP1WC6F132-2-#-2-1-1	565	PR95B-5652-87-1	Medium	63	61	3.16	1
66	DTP1WC6F9-2-#-1-3-1	566	PR95B-5652-104-1	Good	61	61	2.84	1
67	DTP1WC6F19-1-#-1-1-1	567	PR95B-5652-107-1	Good	64	57	2.91	1
68	DTP1WC6F19-1-#-1-2-1	568	PR95B-5652-108-1	Poor	-	-	-	3
69	DTP1WC6F19-1-#-1-2-2	569	PR95B-5652-108-2	Poor	-	-	-	3
70	DTP1WC6F19-1-#-1-2-3	570	PR95B-5652-108-3	Poor	-	-	-	3
71	DTP1WC6F19-1-#-1-4-1	571	PR95B-5652-110-1	Medium	64	61	3.02	1
72	DTP1WC6F33-1-#-3-2-1	572	PR95B-5652-111-1	Poor	-	-	-	3
73	DTP1WC6F33-1-#-3-3-1	573	PR95B-5652-115-1	Poor	64	61	2.39	2
74	DTP1WC6F58-1-#-4-1-1	574	PR95B-5652-123-1	Poor	-	-	-	3
75	DTP1WC6F98-1-#-1-2-1	575	PR95B-5652-133-1	Good	64	57	2.89	1
76	DTP1WC6F98-1-#-1-2-2	576	PR95B-5652-133-2	Good	61	57	2.02	1
77	DTP1WC6F98-1-#-1-2-3	577	PR95B-5652-133-3	Medium	63	60	2.19	2
78	DTP1WC6F98-1-#-1-2-4	578	PR95B-5652-133-4	Medium	61	57	1.99	2
79	DTP1WC6F98-1-#-1-4-1	579	PR95B-5652-135-1	Good	61	57	1.90	2
80	DTP1WC6F98-1-#-1-4-2	580	PR95B-5652-135-2	Poor	-	-	-	3
81	DTP1WC6F98-1-#-1-4-3	581	PR95B-5652-135-3	Medium	57	57	2.69	2
82	DTP1WC6F98-1-#-1-4-4	582	PR95B-5652-135-4	Medium	60	67	2.19	2
83	DTP1WC6F181-1-#-3-1-1	583	PR95B-5652-141-1	Good	64	66	1.88	2
84	DTP1WC6F181-1-#-3-1-2	584	PR95B-5652-141-2	Good	61	67	1.90	2
85	DTP1WC6F273-1-#-2-3-1	585	PR95B-5652-154-1	Poor	-	-	-	3
86	DTP1WC6F285-1-#-1-1-1	586	PR95B-5652-158-1	Poor	-	-	-	3
87	DTP1WC6F285-1-#-1-1-2	587	PR95B-5652-158-2	Poor	57	57	2.19	2
88	DTP1WC6F285-1-#-1-1-3	588	PR95B-5652-158-3	Poor	61	67	1.99	2
89	DTP1WC6F285-1-#-1-3-1	589	PR95B-5652-160-1	Poor	-	-	-	3
90	DTP1WC6F213-1-#-1-1-1	590	PR95B-5652-172-1	Good	63	61	2.05	2
91	DTP1WC6F347-1-#-1-3-1	591	PR95B-5652-172-1	Medium	64	57	2.30	2
92	DTP1WC6F347-1-#-1-3-2	592	PR95B-5652-172-2	Good	60	57	3.17	1
93	DTPWC9-F2-3-1	593	TL2000B-6605-1-1	Good	60	57	2.35	2
94	DTPWC9-F2-3-2	594	TL2000B-6605-1-2	Good	60	57	2.77	2
95	DTPWC9-F2-3-3	595	TL2000B-6605-1-3	Good	61	57	2.19	2
96	DTPWC9-F2-3-4	596	TL2000B-6605-1-4	Good	61	57	1.99	2
97	DTPWC9-F2-3-5	597	TL2000B-6605-1-5	Good	61	57	3.10	1
98	DTPWC9-F5-1-1	598	TL2000B-6605-2-1	Good	61	57	2.21	2
99	DTPWC9-F5-1-2	599	TL2000B-6605-2-2	Good	61	57	2.32	2
100	DTPWC9-F5-1-3	600	TL2000B-6605-2-3	Good	61	57	2.71	2
101	DTPWC9-F5-1-4	601	TL2000B-6605-2-4	Good	61	59	2.30	2
102	DTPWC9-F5-1-5	602	TL2000B-6605-2-5	Good	61	61	2.35	2
103	DTPWC9-F5-1-6	603	TL2000B-6605-2-6	Good	66	64	2.89	1
104	DTPWC9-F5-1-7	604	TL2000B-6605-2-7	Good	61	61	2.32	2
105	DTPWC9-F5-2-1	605	TL2000B-6605-3-1	Good	61	61	2.80	2
106	DTPWC9-F5-2-2	606	TL2000B-6605-3-2	Good	61	61	2.35	2
107	DTPWC9-F5-2-3	607	TL2000B-6605-3-3	Good	64	61	2.35	2
108	DTPWC9-F5-2-4	608	TL2000B-6605-3-4	Good	61	61	2.35	2
109	DTPWC9-F5-2-5	609	TL2000B-6605-3-5	Good	61	61	2.19	2
110	DTPWC9-F5-4-1	610	TL2000B-6605-4-1	Good	61	61	1.99	2

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111	DTPWC9-F5-4-2	811	TL2000B-6605-4-2	Good	61	61	2.94	1
112	DTPWC9-F5-4-3	812	TL2000B-6605-4-3	Good	61	61	2.22	2
113	DTPWC9-F5-4-4	813	TL2000B-6605-4-4	Good	61	61	2.32	2
114	DTPWC9-F5-4-5	814	TL2000B-6605-4-5	Good	61	61	2.78	2
115	DTPWC9-F14-1-1	815	TL2000B-6605-5-1	Good	58	53	2.30	2
116	DTPWC9-F14-1-2	816	TL2000B-6605-5-2	Good	58	53	2.30	2
117	DTPWC9-F14-1-3	817	TL2000B-6605-5-3	Good	58	53	2.96	1
118	DTPWC9-F14-1-4	818	TL2000B-6605-5-4	Good	58	53	2.30	2
119	DTPWC9-F14-1-5	819	TL2000B-6605-5-5	Good	56	56	2.62	2
120	DTPWC9-F14-1-6	820	TL2000B-6605-5-6	Good	56	56	2.19	2
121	DTPWC9-F16-1-1	821	TL2000B-6605-6-1	Good	56	56	1.98	2
122	DTPWC9-F16-1-2	822	TL2000B-6605-6-2	Good	56	56	3.13	1
123	DTPWC9-F16-1-3	823	TL2000B-6605-6-3	Good	58	58	2.22	2
124	DTPWC9-F16-1-4	824	TL2000B-6605-6-4	Good	58	56	2.92	2
125	DTPWC9-F16-1-5	825	TL2000B-6605-6-5	Good	56	56	2.78	2
126	DTPWC9-F17-1-1	826	TL2000B-6605-7-1	Good	56	56	2.30	2
127	DTPWC9-F17-1-2	827	TL2000B-6605-7-2	Good	56	56	2.20	2
128	DTPWC9-F17-1-3	828	TL2000B-6605-7-3	Good	56	56	2.96	1
129	DTPWC9-F17-1-4	829	TL2000B-6605-7-4	Good	56	56	2.30	2
130	DTPWC9-F17-1-5	830	TL2000B-6605-7-5	Good	56	56	2.92	2
131	DTPWC9-F17-1-6	831	TL2000B-6605-7-6	Good	58	58	2.35	2
132	DTPWC9-F17-1-7	832	TL2000B-6605-7-7	Good	56	56	2.85	2
133	DTPWC9-F17-1-8	833	TL2000B-6605-7-8	Good	58	58	2.62	2
134	DTPWC9-F17-1-9	834	TL2000B-6605-7-9	Good	56	56	2.19	2
135	DTPWC9-F18-1-1	835	TL2000B-6605-8-1	Good	64	61	1.98	2
136	DTPWC9-F18-1-2	836	TL2000B-6605-8-2	Good	64	61	3.01	1
137	DTPWC9-F18-1-3	837	TL2000B-6605-8-3	Good	61	61	2.22	2
138	DTPWC9-F24-2-1	838	TL2000B-6605-9-1	Good	56	56	2.32	2
139	DTPWC9-F24-2-2	839	TL2000B-6605-9-2	Medium	56	56	2.30	2
140	DTPWC9-F24-2-3	840	TL2000B-6605-9-3	Good	56	56	2.20	2
141	DTPWC9-F24-2-4	841	TL2000B-6605-9-4	Good	56	56	2.93	1
142	DTPWC9-F24-2-5	842	TL2000B-6605-9-5	Good	56	56	2.30	2
143	DTPWC9-F24-4-1	843	TL2000B-6605-10-1	Good	56	56	2.62	2
144	DTPWC9-F24-4-2	844	TL2000B-6605-10-2	Good	56	56	2.19	2
145	DTPWC9-F24-4-3	845	TL2000B-6605-10-3	Good	56	56	1.98	2
146	DTPWC9-F24-4-4	846	TL2000B-6605-10-4	Good	56	56	3.06	1
147	DTPWC9-F24-4-5	847	TL2000B-6605-10-5	Good	56	56	2.22	2
148	DTPWC9-F31-1-1	848	TL2000B-6605-11-1	Good	61	61	2.32	2
149	DTPWC9-F31-1-2	849	TL2000B-6605-11-2	Good	61	61	2.78	2
150	DTPWC9-F31-1-3	850	TL2000B-6605-11-3	Good	61	61	2.30	2
151	DTPWC9-F32-1-1	851	TL2000B-6605-12-1	Good	61	58	2.20	2
152	DTPWC9-F32-1-2	852	TL2000B-6605-12-2	Good	61	61	2.91	1
153	DTPWC9-F32-1-3	853	TL2000B-6605-12-3	Good	64	61	2.30	2
154	DTPWC9-F32-1-4	854	TL2000B-6605-12-4	Good	64	64	2.60	2
155	DTPWC9-F32-1-5	855	TL2000B-6605-12-5	Good	61	57	2.35	2
156	DTPWC9-F32-1-6	856	TL2000B-6605-12-6	Good	61	56	2.35	2
157	DTPWC9-F33-2-1	857	TL2000B-6605-13-1	Good	58	57	2.62	2
158	DTPWC9-F33-2-2	858	TL2000B-6605-13-2	Good	61	57	2.22	2
159	DTPWC9-F33-2-3	859	TL2000B-6605-13-3	Good	57	57	2.32	2
160	DTPWC9-F33-4-1	860	TL2000B-6605-14-1	Good	57	61	2.39	2
161	DTPWC9-F33-4-2	861	TL2000B-6605-14-2	Good	57	57	2.30	2
162	DTPWC9-F33-4-3	862	TL2000B-6605-14-3	Good	57	57	2.20	2
163	DTPWC9-F33-4-4	863	TL2000B-6605-14-4	Good	57	57	3.13	1
164	DTPWC9-F35-1-1	864	TL2000B-6605-15-1	Good	64	61	2.36	2
165	DTPWC9-F35-1-2	865	TL2000B-6605-15-2	Good	64	61	2.60	2
166	DTPWC9-F35-1-3	866	TL2000B-6605-15-3	Good	64	61	2.59	2
167	DTPWC9-F35-1-4	867	TL2000B-6605-15-4	Good	57	57	2.35	2
168	DTPWC9-F35-1-5	868	TL2000B-6605-15-5	Good	63	61	2.82	2
169	DTPWC9-F55-1-1	869	TL2000B-6605-16-1	Good	61	57	2.19	2

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170	DTPWC9-F55-1-2	670	TL2000B-6605-16-2	Good	57	57	1.98	2
171	DTPWC9-F55-2-1	671	TL2000B-6605-17-1	Good	57	57	3.16	1
172	DTPWC9-F55-2-2	672	TL2000B-6605-17-2	Good	57	57	2.22	2
173	DTPWC9-F55-2-3	673	TL2000B-6605-17-3	Good	56	56	2.32	2
174	DTPWC9-F66-2-1	674	TL2000B-6605-18-1	Good	56	56	2.30	2
175	DTPWC9-F66-2-2	675	TL2000B-6605-18-2	Good	57	57	2.20	2
176	DTPWC9-F66-2-3	676	TL2000B-6605-18-3	Good	57	57	3.07	1
177	DTPWC9-F66-2-4	677	TL2000B-6605-18-4	Good	57	57	2.30	2
178	DTPWC9-F67-1-1	678	TL2000B-6605-19-1	Good	57	57	2.62	2
179	DTPWC9-F67-1-2	679	TL2000B-6605-19-2	Good	61	57	2.32	2
180	DTPWC9-F67-2-1	680	TL2000B-6605-20-1	Good	61	61	2.78	2
181	DTPWC9-F67-2-2	681	TL2000B-6605-20-2	Good	57	56	2.30	2
182	DTPWC9-F67-2-3	682	TL2000B-6605-20-3	Good	64	61	2.20	2
183	DTPWC9-F67-2-4	683	TL2000B-6605-20-4	Good	63	61	3.04	1
184	DTPWC9-F70-4-1	684	TL2000B-6605-21-1	Good	66	56	2.30	2
185	DTPWC9-F70-4-2	685	TL2000B-6605-21-2	Good	64	61	2.80	2
186	DTPWC9-F70-4-3	686	TL2000B-6605-21-3	Good	57	56	2.35	2
187	DTPWC9-F70-4-4	687	TL2000B-6605-21-4	Good	58	56	2.35	2
188	DTPWC9-F70-4-5	688	TL2000B-6605-21-5	Good	61	58	2.62	2
189	DTPWC9-F73-2-1	689	TL2000B-6605-22-1	Good	58	57	2.22	2
190	DTPWC9-F73-2-2	690	TL2000B-6605-22-2	Good	58	57	2.32	2
191	DTPWC9-F73-2-3	691	TL2000B-6605-22-3	Good	58	57	2.78	2
192	DTPWC9-F73-2-4	692	TL2000B-6605-22-4	Good	58	57	2.30	2
193	DTPWC9-F73-2-5	693	TL2000B-6605-22-5	Good	58	58	2.20	2
194	DTPWC9-F73-2-6	694	TL2000B-6605-22-6	Good	58	57	3.08	1
195	DTPWC9-F73-2-7	695	TL2000B-6605-22-7	Good	58	57	2.30	2
196	DTPWC9-F73-2-8	696	TL2000B-6605-22-8	Good	58	57	2.60	2
197	DTPWC9-F75-3-1	697	TL2000B-6605-23-1	Good	61	61	2.19	2
198	DTPWC9-F75-3-2	698	TL2000B-6605-23-2	Good	61	58	1.98	2
199	DTPWC9-F75-3-3	699	TL2000B-6605-23-3	Medium	58	58	3.11	1
200	DTPWC9-F75-3-4	700	TL2000B-6605-23-4	Good	58	58	2.22	2
201	DTPWC9-F80-2-1	701	TL2000B-6605-24-1	Medium	58	58	2.32	2
202	DTPWC9-F80-2-2	702	TL2000B-6605-24-2	Poor	58	58	1.72	3
203	DTPWC9-F80-2-3	703	TL2000B-6605-24-3	Medium	61	61	2.20	2
204	DTPWC9-F80-2-4	704	TL2000B-6605-24-4	Medium	58	58	3.11	1
205	DTPWC9-F87-3-1	705	TL2000B-6605-25-1	Good	58	58	2.30	2
206	DTPWC9-F87-3-2	706	TL2000B-6605-25-2	Medium	63	61	2.62	2
207	DTPWC9-F87-3-3	707	TL2000B-6605-25-3	Medium	61	61	2.32	2
208	DTPWC9-F87-3-4	708	TL2000B-6605-25-4	Good	58	58	2.78	2
209	DTPWC9-F87-3-5	709	TL2000B-6605-25-5	Good	58	58	2.30	2
210	DTPWC9-F88-2-1	710	TL2000B-6605-26-1	Good	61	58	2.30	2
211	DTPWC9-F88-2-2	711	TL2000B-6605-26-2	Good	58	57	3.12	1
212	DTPWC9-F88-2-3	712	TL2000B-6605-26-3	Good	60	58	2.30	2
213	DTPWC9-F88-2-4	713	TL2000B-6605-26-4	Good	61	58	2.60	2
214	DTPWC9-F88-2-5	714	TL2000B-6605-26-5	Good	61	58	2.36	2
215	DTPWC9-F88-2-6	715	TL2000B-6605-26-6	Good	61	57	2.35	2
216	DTPWC9-F88-2-7	716	TL2000B-6605-26-7	Good	67	57	2.62	2
217	DTPWC9-F92-2-1	717	TL2000B-6605-27-1	Good	57	57	2.22	2
218	DTPWC9-F92-2-2	718	TL2000B-6605-27-2	Good	57	57	2.32	2
219	DTPWC9-F92-2-3	719	TL2000B-6605-27-3	Good	64	61	2.32	2
220	DTPWC9-F92-2-4	720	TL2000B-6605-27-4	Good	57	57	2.30	2
221	DTPWC9-F92-2-5	721	TL2000B-6605-27-5	Good	58	57	2.20	2
222	DTPWC9-F98-1-1	722	TL2000B-6605-28-1	Good	61	57	3.04	1
223	DTPWC9-F98-1-2	723	TL2000B-6605-28-2	Good	59	57	2.30	2
224	DTPWC9-F98-2-1	724	TL2000B-6605-29-1	Good	67	58	2.60	2
225	DTPWC9-F98-2-2	725	TL2000B-6605-29-2	Good	57	55	2.32	2
226	DTPWC9-F98-2-3	726	TL2000B-6605-29-3	Good	57	57	2.78	2
227	DTPWC9-F98-3-1	727	TL2000B-6605-30-1	Good	57	55	2.30	2
228	DTPWC9-F98-3-2	728	TL2000B-6605-30-2	Good	55	55	2.20	2

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229	DTPWC9-F98-3-3	729	TL2000B-6605-30-3	Good	59	55	3.08	1
230	DTPWC9-F102-3-1	730	TL2000B-6605-31-1	Good	55	55	2.30	2
231	DTPWC9-F102-3-2	731	TL2000B-6605-31-2	Medium	64	61	2.60	2
232	DTPWC9-F102-3-3	732	TL2000B-6605-31-3	Good	65	55	2.35	2
233	DTPWC9-F103-2-1	733	TL2000B-6605-32-1	Good	55	55	2.35	2
234	DTPWC9-F103-2-2	734	TL2000B-6605-32-2	Good	57	57	2.62	2
235	DTPWC9-F103-2-3	735	TL2000B-6605-32-3	Good	57	55	2.22	2
236	DTPWC9-F103-2-4	736	TL2000B-6605-32-4	Medium	57	57	2.32	2
237	DTPWC9-F104-5-1	737	TL2000B-6605-33-1	Good	57	57	2.78	2
238	DTPWC9-F104-5-2	738	TL2000B-6605-33-2	Good	59	61	2.30	2
239	DTPWC9-F104-5-3	739	TL2000B-6605-33-3	Good	57	57	2.20	2
240	DTPWC9-F104-5-4	740	TL2000B-6605-33-4	Good	57	57	3.14	1
241	DTPWC9-F104-5-5	741	TL2000B-6605-33-5	Medium	57	57	2.30	2
242	DTPWC9-F104-5-6	742	TL2000B-6605-33-6	Good	57	57	2.80	2
243	DTPWC9-F104-5-7	743	TL2000B-6605-33-7	Good	55	55	2.19	2
244	DTPWC9-F109-2-1	744	TL2000B-6605-34-1	Good	55	55	1.98	2
245	DTPWC9-F109-2-2	745	TL2000B-6605-34-2	Good	55	55	3.16	1
246	DTPWC9-F109-2-3	746	TL2000B-6605-34-3	Good	55	55	2.22	2
247	DTPWC9-F109-2-4	747	TL2000B-6605-34-4	Good	55	55	2.32	2
248	DTPWC9-F109-2-5	748	TL2000B-6605-34-5	Good	55	55	2.30	2
249	DTPWC9-F109-2-6	749	TL2000B-6605-34-6	Good	57	57	2.20	2
250	DTPWC9-F109-2-7	750	TL2000B-6605-34-7	Good	57	57	3.08	1
251	DTPWC9-F109-2-8	751	TL2000B-6605-34-8	Good	57	57	2.30	2
252	DTPWC9-F109-2-9	752	TL2000B-6605-34-9	Good	57	57	2.62	2
253	DTPWC9-F115-1-1	753	TL2000B-6605-35-1	Good	57	57	2.32	2
254	DTPWC9-F115-1-2	754	TL2000B-6605-35-2	Good	59	57	2.78	2
255	DTPWC9-F115-1-3	755	TL2000B-6605-35-3	Good	57	57	2.30	2
256	DTPWC9-F115-1-4	756	TL2000B-6605-35-4	Good	57	57	1.98	2
257	DTPWC9-F119-1-1	757	TL2000B-6605-36-1	Good	57	57	3.16	1
258	DTPWC9-F119-1-2	758	TL2000B-6605-36-2	Good	57	57	2.22	2
259	DTPWC9-F120-3-1	759	TL2000B-6605-37-1	Good	57	57	2.32	2
260	DTPWC9-F120-3-2	760	TL2000B-6605-37-2	Good	59	57	2.30	2
261	DTPWC9-F120-3-3	761	TL2000B-6605-37-3	Good	57	57	2.20	2
262	DTPWC9-F120-3-4	762	TL2000B-6605-37-4	Good	64	59	3.07	1
263	DTPWC9-F120-3-5	763	TL2000B-6605-37-5	Good	64	59	2.30	2
264	DTPWC9-F120-3-6	764	TL2000B-6605-37-6	Good	59	59	2.62	2
265	DTPWC9-F120-3-7	765	TL2000B-6605-37-7	Good	57	57	2.32	2
266	DTPWC9-F120-3-8	766	TL2000B-6605-37-8	Good	57	57	2.78	2
267	DTPWC9-F120-3-9	767	TL2000B-6605-37-9	Good	64	59	2.30	2
268	DTPWC9-F126-1-2	768	TL2000B-6605-38-2	Good	64	64	2.20	2
269	DTPWC9-F126-1-3	769	TL2000B-6605-38-3	Good	64	64	3.10	1
270	DTPWC9-F127-4-1	770	TL2000B-6605-39-1	Good	57	57	2.30	2
271	DTPWC9-F127-4-2	771	TL2000B-6605-39-2	Good	57	57	2.60	2
272	DTPWC9-F127-4-3	772	TL2000B-6605-39-3	Good	57	57	2.35	2
273	DTPWC9-F127-4-4	773	TL2000B-6605-39-4	Good	57	57	2.35	2
274	DTPWC9-F128-1-1	774	TL2000B-6605-40-1	Good	64	57	2.62	2
275	DTPWC9-F128-1-2	775	TL2000B-6605-40-2	Good	57	57	2.22	2
276	DTPWC9-F128-1-3	776	TL2000B-6605-40-3	Good	64	64	2.32	2
277	DTPWC9-F128-1-4	777	TL2000B-6605-40-4	Medium	64	64	2.32	2
278	DTPWC9-F131-1-1	778	TL2000B-6605-41-1	Medium	57	57	2.30	2
279	DTPWC9-F131-1-2	779	TL2000B-6605-41-2	Good	59	57	2.20	2
280	DTPWC9-F131-1-3	780	TL2000B-6605-41-3	Medium	57	57	3.12	1
281	DTPWC9-F131-1-4	781	TL2000B-6605-41-4	Good	57	57	2.30	2
282	DTPWC9-F131-1-5	782	TL2000B-6605-41-5	Good	57	57	2.62	2
283	DTPWC9-F131-1-6	783	TL2000B-6605-41-6	Good	57	57	2.62	2
284	DTPWC9-F131-1-7	784	TL2000B-6605-41-7	Good	57	57	2.32	2
285	DTPWC9-F131-1-8	785	TL2000B-6605-41-8	Good	57	57	2.78	2
286	DTPWC9-F137-3-1	786	TL2000B-6605-42-1	Good	57	57	2.30	2
287	DTPWC9-F137-3-2	787	TL2000B-6605-42-2	Good	57	57	2.20	2

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288	DTPWC9-F137-3-3	788	TL2000B-6605-42-3	Good	57	57	3.08	1
289	DTPWC9-F138-3-1	789	TL2000B-6605-43-1	Good	57	57	2.30	2
290	DTPWC9-F138-3-2	790	TL2000B-6605-43-2	Medium	57	57	2.60	2
291	DTPWC9-F138-3-3	791	TL2000B-6605-43-3	Good	57	57	2.35	2
292	DTPWC9-F138-3-4	792	TL2000B-6605-43-4	Good	57	57	2.35	2
293	DTPWC9-F138-4-1	793	TL2000B-6605-44-1	Good	59	59	2.62	2
294	DTPWC9-F138-4-2	794	TL2000B-6605-44-2	Good	59	57	2.22	2
295	DTPWC9-F138-4-3	795	TL2000B-6605-44-3	Good	59	57	2.32	2
296	DTPWC9-F138-4-4	796	TL2000B-6605-44-4	Good	57	57	2.32	2
297	DTPWC9-F138-4-5	797	TL2000B-6605-44-5	Good	59	59	2.30	2
298	DTPWC9-F138-4-6	798	TL2000B-6605-44-6	Good	66	64	2.20	2
299	DTPWC9-F141-2-1	799	TL2000B-6605-45-1	Good	55	54	3.02	1
300	DTPWC9-F141-2-2	800	TL2000B-6605-45-2	Good	55	55	2.30	2
301	DTPWC9-F141-2-3	801	TL2000B-6605-45-3	Good	55	55	2.78	2
302	DTPWC9-F141-4-1	802	TL2000B-6605-46-1	Good	55	55	2.30	2
303	DTPWC9-F141-4-2	803	TL2000B-6605-46-2	Good	55	55	2.20	2
304	DTPWC9-F141-4-3	804	TL2000B-6605-46-3	Good	55	55	3.06	1
305	DTPWC9-F141-4-4	805	TL2000B-6605-46-4	Good	55	55	2.30	2
306	DTPWC9-F141-4-5	806	TL2000B-6605-46-5	Good	55	55	2.60	2
307	DTPWC9-F141-4-6	807	TL2000B-6605-46-6	Good	64	55	2.35	2
308	DTPWC9-F141-4-7	808	TL2000B-6605-46-7	Good	55	55	2.35	2
309	DTPWC9-F143-2-1	809	TL2000B-6605-47-1	Good	55	55	2.62	2
310	DTPWC9-F143-2-2	810	TL2000B-6605-47-2	Good	55	55	2.22	2
311	DTPWC9-F143-2-3	811	TL2000B-6605-47-3	Good	55	55	2.32	2
312	DTPWC9-F145-1-1	812	TL2000B-6605-48-1	Good	64	59	2.32	2
313	DTPWC9-F145-1-2	813	TL2000B-6605-48-2	Good	64	59	2.30	2
314	DTPWC9-F145-1-3	814	TL2000B-6605-48-3	Good	59	59	2.20	2
315	DTPWC9-F145-1-4	815	TL2000B-6605-48-4	Good	64	64	2.95	1
316	DTPWC9-F145-1-5	816	TL2000B-6605-48-5	Good	59	59	2.30	2
317	DTPWC9-F145-1-6	817	TL2000B-6605-48-6	Good	64	64	2.62	2
318	DTPWC9-F145-2-1	818	TL2000B-6605-49-1	Good	59	59	2.62	2
319	DTPWC9-F145-2-2	819	TL2000B-6605-49-2	Good	64	61	2.32	2
320	DTPWC9-F145-3-1	820	TL2000B-6605-50-1	Good	64	61	2.78	2
321	DTPWC9-F145-3-2	821	TL2000B-6605-50-2	Good	64	61	2.30	2
322	DTPWC9-F145-3-3	822	TL2000B-6605-50-3	Good	59	55	2.20	2
323	DTP1YC6F20-1-#-1-3-1	823	PR95B-5653-8-1	Good	61	61	2.89	1
324	DTP1YC6F21-1-#-1-1-1	824	PR95B-5653-9-1	Poor	-	-	-	3
325	DTP1YC6F88-2-#-1-2-1	825	PR95B-5653-16-1	Poor	59	55	2.60	2
326	DTP1YC6F132-2-#-1-2-1	826	PR95B-5653-23-1	Good	-	-	-	3
327	DTP1YC6F132-2-#-1-2-2	827	PR95B-5653-23-2	Poor	-	-	-	3
328	DTP1YC6F132-2-#-1-2-3	828	PR95B-5653-23-3	Poor	-	-	-	3
329	DTP1YC6F132-2-#-1-3-1	829	PR95B-5653-24-1	Poor	-	-	-	3
330	DTP1YC6F170-1-#-4-1-1	830	PR95B-5653-29-1	Poor	59	59	2.30	2
331	DTP1YC6F170-1-#-4-1-2	831	PR95B-5653-29-2	Medium	66	64	2.60	2
332	DTP1YC6F170-1-#-5-1-1	832	PR95B-5653-30-1	Medium	-	-	-	3
333	DTP1YC6F190-1-#-1-1-1	833	PR95B-5653-35-1	Good	66	64	2.35	2
334	DTP1YC6F190-1-#-1-1-2	834	PR95B-5653-35-2	Poor	64	64	2.62	2
335	DTP1YC6F190-1-#-1-3-1	835	PR95B-5653-37-1	Poor	64	64	2.22	2
336	DTP1YC6F190-1-#-3-1-1	836	PR95B-5653-40-1	Medium	64	64	2.32	2
337	DTP1YC6F206-1-#-2-1-1	837	PR95B-5653-43-1	Poor	-	-	-	3
338	DTP1YC6F206-1-#-2-1-2	838	PR95B-5653-43-2	Poor	-	-	-	3
339	DTP1YC6F206-1-#-2-1-3	839	PR95B-5653-43-3	Poor	-	-	-	3
340	DTP1YC6F206-1-#-2-1-4	840	PR95B-5653-43-4	Poor	-	-	-	3
341	DTP1YC6F215-1-#-5-1-1	841	PR95B-5653-45-1	Poor	-	-	-	3
342	DTP1YC6F215-1-#-5-1-2	842	PR95B-5653-45-2	Poor	-	-	-	3
343	DTP1YC6F215-1-#-5-1-3	843	PR95B-5653-45-3	Poor	-	-	-	3
344	DTP1YC6F215-1-#-5-2-1	844	PR95B-5653-46-1	Poor	64	64	2.22	2
345	DTP1YC6F230-1-#-2-1-1	845	PR95B-5653-47-1	Medium	-	-	-	3
346	DTP1YC6F230-1-#-2-1-2	846	PR95B-5653-47-2	Poor	-	-	-	3

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347	DTPIYC6F230-1-#-2-2-1	847	PR95B-5653-48-1	Poor	66	64	2.20	2
348	DTPIYC6F230-1-#-3-2-1	848	PR95B-5653-51-1	Poor	59	57	2.89	1
349	DTPIYC6F230-1-#-3-2-2	849	PR95B-5653-51-2	Poor	-	-	-	3
350	DTPIYC6F239-2-#-2-1-1	850	PR95B-5653-53-1	Medium	59	59	2.60	2
351	DTPIYC6F239-2-#-2-1-2	851	PR95B-5653-53-2	Poor	-	-	-	3
352	DTPIYC6F244-2-#-4-1-1	852	PR95B-5653-57-1	Poor	-	-	-	3
353	DTPIYC6F292-2-#-5-4-1	853	PR95B-5653-63-1	Poor	-	-	-	3
354	DTPIYC6F296-2-#-1-2-1	854	PR95B-5653-65-1	Poor	-	-	-	3
355	DTPIYC6F297-2-#-1-3-1	855	PR95B-5653-69-1	Good	-	-	-	3
356	DTPIYC6F304-1-#-1-1-1	856	PR95B-5653-71-1	Poor	-	-	-	3
357	DTPIYC6F304-1-#-1-1-2	857	PR95B-5653-71-2	Poor	-	-	-	3
358	DTPIYC6F338-2-#-1-1-1	858	PR95B-5653-72-1	Poor	-	-	-	3
359	DTPIYC6F338-2-#-1-3-1	859	PR95B-5653-74-1	Poor	-	-	-	3
360	DTPIYC6F338-2-#-1-3-2	860	PR95B-5653-74-2	Poor	-	-	-	3
361	DTPIYC6F347-1-#-1-1-1	861	PR95B-5653-75-1	Poor	-	-	-	3
362	DTPIYC6F347-1-#-1-1-2	862	PR95B-5653-75-2	Poor	-	-	-	3
363	DTPIYC6F347-1-#-1-2-1	863	PR95B-5653-76-1	Poor	-	-	-	3
364	DTPIYC6F347-1-#-1-2-2	864	PR95B-5653-76-2	Poor	-	-	-	3
365	DTPIYC6F148-2-#-1-3-1	865	PR95B-5653-80-1	Poor	-	-	-	3
366	DTPIYC6F197-1-#-1-1-1	866	PR95B-5653-81-1	Poor	-	-	-	3
367	DTPIYC6F197-1-#-1-2-1	867	PR95B-5653-82-1	Poor	-	-	-	3
368	DTPIYC6F197-1-#-1-2-2	868	PR95B-5653-82-2	Poor	-	-	-	3
369	DTPIYC6F197-1-#-1-2-3	869	PR95B-5653-82-3	Poor	-	-	-	3
370	DTPIYC6F197-1-#-1-2-4	870	PR95B-5653-82-4	Poor	-	-	-	3
371	DTPIYC6F197-1-#-1-2-5	871	PR95B-5653-82-5	Poor	-	-	-	3
372	DTPIYC6F197-1-#-1-3-1	872	PR95B-5653-83-1	Poor	-	-	-	3
373	DTPIYC6F197-1-#-1-3-2	873	PR95B-5653-83-2	Poor	-	-	-	3
374	DTPIYC6F197-1-#-1-4-1	874	PR95B-5653-84-1	Poor	-	-	-	3
375	DTPIYC6F197-1-#-1-4-2	875	PR95B-5653-84-2	Poor	-	-	-	3
376	DTPIYC6F197-1-#-1-4-3	876	PR95B-5653-84-3	Poor	-	-	-	3
377	DTPIYC6F234-2-#-1-1-1	877	PR95B-5653-85-1	Poor	-	-	-	3
378	DTPIYC6F234-2-#-1-1-2	878	PR95B-5653-85-2	Poor	-	-	-	3
379	DTPIYC6F266-1-#-3-2-1	879	PR95B-5653-89-1	Poor	-	-	-	3
380	DTPIYC6F266-1-#-3-2-2	880	PR95B-5653-89-2	Poor	-	-	-	3
381	DTPIYC6F266-1-#-3-2-3	881	PR95B-5653-89-3	Poor	-	-	-	3
382	DTPIYC6F244-3-#-3-2-1	882	PR95B-5653-100-1	Poor	-	-	-	3
383	DTPIYC6F244-3-#-3-3-1	883	PR95B-5653-101-1	Poor	-	-	-	3
384	DTPIYC6F244-3-#-3-3-2	884	PR95B-5653-101-2	Poor	-	-	-	3
385	DTPIYC6F244-3-#-3-4-1	885	PR95B-5653-102-1	Poor	-	-	-	3
386	DTPIYC6F244-3-#-3-4-2	886	PR95B-5653-102-2	Poor	-	-	-	3
387	DTPIYC6F341-2-#-1-2-1	887	PR95B-5653-106-1	Poor	-	-	-	3
388	DTPIYC6F20-1-#-1-1-1	888	PR95B-5653-107-1	Poor	-	-	-	3
389	DTPIYC6F20-1-#-1-1-2	889	PR95B-5653-107-2	Poor	-	-	-	3
390	DTPIYC6F20-1-#-1-2-1	890	PR95B-5653-108-1	Poor	-	-	-	3
391	DTPIYC6F20-1-#-1-2-2	891	PR95B-5653-108-2	Poor	-	-	-	3
392	DTPIYC6F20-1-#-1-2-3	892	PR95B-5653-108-3	Poor	-	-	-	3
393	DTPIYC6F20-1-#-1-4-1	893	PR95B-5653-110-1	Poor	-	-	-	3
394	DTPIYC6F20-1-#-1-4-2	894	PR95B-5653-110-2	Poor	-	-	-	3
395	DTPIYC6F21-1-#-1-1-1	895	PR95B-5653-111-1	Poor	-	-	-	3
396	DTPIYC6F21-1-#-1-1-2	896	PR95B-5653-111-2	Poor	-	-	-	3
397	DTPIYC6F21-1-#-1-5-1	897	PR95B-5653-115-1	Poor	-	-	-	3
398	DTPIYC6F178-2-#-1-1-1	898	PR95B-5653-127-1	Poor	-	-	-	3
399	DTPIYC6F178-2-#-1-1-2	899	PR95B-5653-127-2	Good	56	56	2.12	2
400	DTPIYC6F239-2-#-2-1-1	900	PR95B-5653-129-1	Poor	-	-	-	3
401	DTPIYC6F239-2-#-2-1-2	901	PR95B-5653-129-2	Poor	-	-	-	3
402	DTPIYC6F239-2-#-2-1-3	902	PR95B-5653-129-3	Poor	-	-	-	3
403	DTPIYC6F239-2-#-2-1-4	903	PR95B-5653-129-4	Poor	-	-	-	3
404	DTPIYC6F239-2-#-2-2-1	904	PR95B-5653-130-1	Poor	-	-	-	3
405	DTPIYC6F239-2-#-2-2-2	905	PR95B-5653-130-2	Poor	-	-	-	3

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406	DTP1YC6F239-2-#-2-2-3	906	PR95B-5653-130-3	Poor	-	-	-	3
407	DTP1YC6F239-2-#-2-2-4	907	PR95B-5653-130-4	Poor	-	-	-	3
408	DTP1YC6F239-2-#-2-3-1	908	PR95B-5653-131-1	Poor	-	-	-	3
409	DTP1YC6F239-2-#-2-3-2	909	PR95B-5653-131-2	Poor	-	-	-	3
410	DTP1YC6F284-1-#-2-1-1	910	PR95B-5653-133-1	Poor	-	-	-	3
411	DTP1YC6F232-2-#-2-3-1	911	PR95B-5653-138-1	Poor	-	-	-	3
412	DTP1YC6F232-2-#-2-3-2	912	PR95B-5653-138-2	Poor	-	-	-	3
413	DTP1YC6F148-2-#-1-1-1	913	PR95B-5653-143-1	Poor	-	-	-	3
414	DTP1YC6F148-2-#-1-1-2	914	PR95B-5653-143-2	Poor	-	-	-	3
415	DTP1YC6F148-2-#-1-1-3	915	PR95B-5653-143-3	Poor	-	-	-	3
416	DTP1YC6F148-2-#-1-1-4	916	PR95B-5653-143-4	Poor	-	-	-	3
417	DTP1YC6F234-2-#-1-1-1	917	PR95B-5653-145-1	Poor	-	-	-	3
418	DTP1YC6F234-2-#-2-2-1	918	PR95B-5653-149-1	Poor	-	-	-	3
419	DTP1YC6F234-2-#-2-2-2	919	PR95B-5653-149-2	Poor	-	-	-	3
420	DTP1YC6F234-2-#-2-2-3	920	PR95B-5653-149-3	Poor	-	-	-	3
421	DTP1YC6F234-2-#-2-2-4	921	PR95B-5653-149-4	Poor	-	-	-	3
422	DTP1YC6F234-2-#-2-4-1	922	PR95B-5653-151-1	Poor	-	-	-	3
423	DTP1YC6F234-2-#-2-4-2	923	PR95B-5653-151-2	Poor	-	-	-	3
424	DTP1YC6F234-2-#-2-5-1	924	PR95B-5653-152-1	Poor	-	-	-	3
425	DTP1YC6F342-1-#-1-1-1	925	PR95B-5653-153-1	Poor	-	-	-	3
426	DTP1YC6F342-1-#-1-2-1	926	PR95B-5653-154-1	Poor	-	-	-	3
427	DTP1YC6F342-1-#-1-2-2	927	PR95B-5653-154-2	Poor	-	-	-	3
428	DTP1YC6F342-1-#-1-2-3	928	PR95B-5653-154-3	Poor	-	-	-	3
429	DTP1YC6F343-1-#-3-1-1	929	PR95B-5653-155-1	Poor	-	-	-	3
430	DTP1YC6F343-1-#-3-1-3	930	PR95B-5653-155-3	Poor	-	-	-	3
431	DTPYC9-F11-2-2	931	TL2000B-6606-1-2	Good	59	57	2.22	2
432	DTPYC9-F11-2-3	932	TL2000B-6606-1-3	Good	61	59	2.32	2
433	DTPYC9-F11-2-4	933	TL2000B-6606-1-4	Good	59	57	2.32	2
434	DTPYC9-F13-2-2	934	TL2000B-6606-2-2	Good	57	57	2.30	2
435	DTPYC9-F13-2-3	935	TL2000B-6606-2-3	Good	57	57	2.20	2
436	DTPYC9-F13-2-4	936	TL2000B-6606-2-4	Good	57	57	2.89	1
437	DTPYC9-F15-3-1	937	TL2000B-6606-3-1	Good	57	57	2.30	2
438	DTPYC9-F15-3-2	938	TL2000B-6606-3-2	Good	57	57	2.62	2
439	DTPYC9-F15-3-3	939	TL2000B-6606-3-3	Good	59	57	2.62	2
440	DTPYC9-F15-3-4	940	TL2000B-6606-3-4	Good	57	57	2.32	2
441	DTPYC9-F38-3-1	941	TL2000B-6606-4-1	Good	59	57	2.78	2
442	DTPYC9-F38-3-2	942	TL2000B-6606-4-2	Good	59	59	2.30	2
443	DTPYC9-F38-3-3	943	TL2000B-6606-4-3	Good	59	57	2.20	2
444	DTPYC9-F38-3-4	944	TL2000B-6606-4-4	Good	59	57	2.99	1
445	DTPYC9-F38-3-5	945	TL2000B-6606-4-5	Good	59	57	2.30	2
446	DTPYC9-F38-4-1	946	TL2000B-6606-5-1	Good	57	57	2.80	2
447	DTPYC9-F38-4-2	947	TL2000B-6606-5-2	Good	57	57	2.35	2
448	DTPYC9-F38-4-3	948	TL2000B-6606-5-3	Good	57	57	2.35	2
449	DTPYC9-F38-4-4	949	TL2000B-6606-5-4	Good	57	57	2.82	2
450	DTPYC9-F38-4-5	950	TL2000B-6606-5-5	Good	57	57	2.92	1
451	DTPYC9-F38-4-6	951	TL2000B-6606-5-6	Good	57	57	2.30	2
452	DTPYC9-F38-5-1	952	TL2000B-6606-6-1	Good	59	57	2.80	2
453	DTPYC9-F38-5-2	953	TL2000B-6606-6-2	Good	59	57	2.35	2
454	DTPYC9-F38-5-3	954	TL2000B-6606-6-3	Good	59	57	2.35	2
455	DTPYC9-F38-5-4	955	TL2000B-6606-6-4	Good	59	57	2.82	2
456	DTPYC9-F38-5-5	956	TL2000B-6606-6-5	Good	57	57	2.22	2
457	DTPYC9-F38-5-6	957	TL2000B-6606-6-6	Good	59	57	2.32	2
458	DTPYC9-F38-5-7	958	TL2000B-6606-6-7	Good	59	57	2.80	2
459	DTPYC9-F40-3-1	959	TL2000B-6606-7-1	Good	59	57	3.12	1
460	DTPYC9-F40-3-2	960	TL2000B-6606-7-2	Good	57	57	2.30	2
461	DTPYC9-F40-3-3	961	TL2000B-6606-7-3	Good	59	57	2.82	2
462	DTPYC9-F40-3-4	962	TL2000B-6606-7-4	Good	57	57	2.82	2
463	DTPYC9-F40-3-5	963	TL2000B-6606-7-5	Good	57	57	2.32	2
464	DTPYC9-F42-2-1	964	TL2000B-6606-8-1	Good	59	57	2.78	2

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465	DTPYC9-F42-2-2	965	TL2000B-6606-8-2	Good	59	57	2.30	2
466	DTPYC9-F42-2-3	966	TL2000B-6606-8-3	Good	57	57	2.20	2
467	DTPYC9-F46-1-1	967	TL2000B-6606-10-1	Medium	57	57	3.09	1
468	DTPYC9-F46-1-2	968	TL2000B-6606-10-2	Good	57	57	2.30	2
469	DTPYC9-F46-1-3	969	TL2000B-6606-10-3	Good	59	57	2.60	2
470	DTPYC9-F46-1-4	970	TL2000B-6606-10-4	Good	59	59	2.35	2
471	DTPYC9-F46-1-5	971	TL2000B-6606-10-5	Good	59	57	2.35	2
472	DTPYC9-F46-1-6	972	TL2000B-6606-10-6	Medium	57	57	2.62	2
473	DTPYC9-F46-1-7	973	TL2000B-6606-10-7	Good	57	57	3.02	1
474	DTPYC9-F46-1-8	974	TL2000B-6606-10-8	Medium	59	59	2.30	2
475	DTPYC9-F46-3-1	975	TL2000B-6606-11-1	Good	57	57	2.20	2
476	DTPYC9-F46-3-2	976	TL2000B-6606-11-2	Good	59	57	3.10	1
477	DTPYC9-F46-3-3	977	TL2000B-6606-11-3	Good	57	57	2.30	2
478	DTPYC9-F46-3-4	978	TL2000B-6606-11-4	Good	57	57	2.62	2
479	DTPYC9-F46-3-5	979	TL2000B-6606-11-5	Good	57	57	2.62	2
480	DTPYC9-F46-3-6	980	TL2000B-6606-11-6	Good	57	57	2.32	2
481	DTPYC9-F46-3-7	981	TL2000B-6606-11-7	Good	59	57	2.78	2
482	DTPYC9-F46-3-8	982	TL2000B-6606-11-8	Good	59	57	2.30	2
483	DTPYC9-F46-3-9	983	TL2000B-6606-11-9	Good	53	51	2.20	2
484	DTPYC9-F46-3-10	984	TL2000B-6606-11-10	Good	53	51	3.19	1
485	DTPYC9-F53-3-1	985	TL2000B-6606-12-1	Good	53	51	2.30	2
486	DTPYC9-F53-3-2	986	TL2000B-6606-12-2	Good	53	51	2.60	2
487	DTPYC9-F53-3-3	987	TL2000B-6606-12-3	Good	53	51	2.35	2
488	DTPYC9-F55-2-1	988	TL2000B-6606-13-1	Good	64	61	2.35	2
489	DTPYC9-F55-2-2	989	TL2000B-6606-13-2	Good	64	61	2.62	2
490	DTPYC9-F63-2-1	990	TL2000B-6606-14-1	Good	53	51	3.05	1
491	DTPYC9-F65-2-2	991	TL2000B-6606-14-2	Good	64	61	2.30	2
492	DTPYC9-F65-2-3	992	TL2000B-6606-14-3	Good	64	61	2.20	2
493	DTPYC9-F69-3-1	993	TL2000B-6606-15-1	Good	53	51	3.01	1
494	DTPYC9-F69-3-2	994	TL2000B-6606-15-2	Good	53	51	2.30	2
495	DTPYC9-F69-3-3	995	TL2000B-6606-15-3	Good	64	61	2.62	2
496	DTPYC9-F69-3-4	996	TL2000B-6606-15-4	Good	64	58	2.62	2
497	DTPYC9-F69-3-5	997	TL2000B-6606-15-5	Good	58	58	2.32	2
498	DTPYC9-F69-3-6	998	TL2000B-6606-15-6	Good	58	58	2.78	2
499	DTPYC9-F71-2-1	999	TL2000B-6606-16-1	Good	53	51	2.30	2
500	DTPYC9-F71-2-2	1000	TL2000B-6606-16-2	Good	53	51	2.20	2
501	DTPYC9-F71-2-3	1001	TL2000B-6606-16-3	Good	53	51	3.06	1
502	DTPYC9-F71-2-4	1002	TL2000B-6606-16-4	Good	53	51	2.30	2
503	DTPYC9-F72-1-1	1003	TL2000B-6606-17-1	Good	53	51	2.60	2
504	DTPYC9-F72-1-2	1004	TL2000B-6606-17-2	Good	53	51	2.35	2
505	DTPYC9-F72-1-3	1005	TL2000B-6606-17-3	Good	54	51	2.35	2
506	DTPYC9-F72-1-4	1006	TL2000B-6606-17-4	Good	58	51	2.62	2
507	DTPYC9-F74-1-1	1007	TL2000B-6606-18-1	Good	53	51	3.04	1
508	DTPYC9-F74-1-2	1008	TL2000B-6606-18-2	Good	53	51	2.30	2
509	DTPYC9-F74-1-3	1009	TL2000B-6606-18-3	Good	53	51	2.20	2
510	DTPYC9-F74-1-4	1010	TL2000B-6606-18-4	Good	53	51	2.65	1
511	DTPYC9-F74-1-5	1011	TL2000B-6606-18-5	Good	53	51	2.30	2
512	DTPYC9-F74-1-6	1012	TL2000B-6606-18-6	Good	53	51	2.62	2
513	DTPYC9-F74-3-1	1013	TL2000B-6606-19-1	Good	58	51	2.62	2
514	DTPYC9-F74-3-2	1014	TL2000B-6606-19-2	Good	53	51	2.32	2
515	DTPYC9-F74-3-3	1015	TL2000B-6606-19-3	Good	53	51	2.78	2
516	DTPYC9-F74-3-4	1016	TL2000B-6606-19-4	Good	58	51	2.30	2
517	DTPYC9-F81-1-1	1017	TL2000B-6606-20-1	Good	61	58	2.20	2
518	DTPYC9-F81-1-2	1018	TL2000B-6606-20-2	Good	61	58	2.78	1
519	DTPYC9-F81-2-1	1019	TL2000B-6606-21-1	Good	61	51	2.30	2
520	DTPYC9-F81-3-1	1020	TL2000B-6606-22-1	Good	61	58	2.62	2
521	DTPYC9-F81-3-2	1021	TL2000B-6606-22-2	Good	61	58	2.62	2
522	DTPYC9-F81-3-3	1022	TL2000B-6606-22-3	Good	53	51	2.32	2
523	DTPYC9-F81-3-4	1023	TL2000B-6606-22-4	Good	53	51	2.78	2

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524	DTPYC9-F85-1-1	1024	TL2000B-6606-25-1	Good	61	58	2.30	2
525	DTPYC9-F86-1-1	1025	TL2000B-6606-25-1	Good	64	61	2.20	2
526	DTPYC9-F86-1-2	1026	TL2000B-6606-25-2	Good	64	61	2.86	1
527	DTPYC9-F86-1-3	1027	TL2000B-6606-25-3	Good	64	61	2.30	2
528	DTPYC9-F86-2-1	1028	TL2000B-6606-26-1	Medium	61	61	2.60	2
529	DTPYC9-F86-2-2	1029	TL2000B-6606-26-2	Good	64	61	2.35	2
530	DTPYC9-F86-2-3	1030	TL2000B-6606-26-3	Good	64	61	2.35	2
531	DTPYC9-F86-2-4	1031	TL2000B-6606-26-4	Good	64	61	2.62	2
532	DTPYC9-F86-2-5	1032	TL2000B-6606-26-5	Good	61	61	3.06	1
533	DTPYC9-F87-1-1	1033	TL2000B-6606-27-1	Good	61	61	2.30	2
534	DTPYC9-F87-1-2	1034	TL2000B-6606-27-2	Good	64	61	2.20	2
535	DTPYC9-F87-1-3	1035	TL2000B-6606-27-3	Good	64	61	2.92	1
536	DTPYC9-F87-3-1	1036	TL2000B-6606-28-1	Good	61	61	2.30	2
537	DTPYC9-F87-3-2	1037	TL2000B-6606-28-2	Good	53	51	2.62	2
538	DTPYC9-F87-3-3	1038	TL2000B-6606-28-3	Good	61	61	2.62	2
539	DTPYC9-F102-4-1	1039	TL2000B-6606-29-1	Medium	61	58	2.32	2
540	DTPYC9-F102-4-2	1040	TL2000B-6606-29-2	Good	58	58	2.78	2
541	DTPYC9-F102-4-3	1041	TL2000B-6606-29-3	Good	58	58	2.30	2
542	DTPYC9-F102-4-4	1042	TL2000B-6606-29-4	Fair	67	67	2.93	1
543	DTPYC9-F102-4-5	1043	TL2000B-6606-29-5	Good	61	58	2.30	2
544	DTPYC9-F103-5-1	1044	TL2000B-6606-30-1	Good	64	58	2.20	2
545	DTPYC9-F103-5-2	1045	TL2000B-6606-30-2	Medium	64	61	2.91	1
546	DTPYC9-F103-5-3	1046	TL2000B-6606-30-3	Medium	64	61	2.30	2
547	DTPYC9-F103-5-4	1047	TL2000B-6606-30-4	Good	61	58	2.62	2
548	DTPYC9-F113-4-1	1048	TL2000B-6606-31-1	Good	63	51	2.62	2
549	DTPYC9-F113-4-2	1049	TL2000B-6606-31-2	Good	53	51	2.32	2
550	DTPYC9-F114-2-1	1050	TL2000B-6606-32-1	Good	61	51	2.78	2
551	DTPYC9-F114-2-2	1051	TL2000B-6606-32-2	Good	53	51	2.30	2
552	DTPYC9-F114-2-3	1052	TL2000B-6606-32-3	Good	61	61	2.20	2
553	DTPYC9-F114-2-4	1053	TL2000B-6606-32-4	Good	61	51	2.99	1
554	DTPYC9-F114-2-5	1054	TL2000B-6606-32-5	Good	63	61	2.30	2
555	DTPYC9-F114-2-6	1055	TL2000B-6606-32-6	Good	53	51	2.62	2
556	DTPYC9-F114-3-1	1056	TL2000B-6606-33-1	Good	63	61	2.62	2
557	DTPYC9-F114-3-2	1057	TL2000B-6606-33-2	Good	61	51	2.32	2
558	DTPYC9-F114-3-3	1058	TL2000B-6606-33-3	Good	63	51	2.78	2
559	DTPYC9-F114-3-4	1059	TL2000B-6606-33-4	Good	53	51	2.30	2
560	DTPYC9-F114-4-1	1060	TL2000B-6606-34-1	Fair	63	51	2.30	2
561	DTPYC9-F114-4-2	1061	TL2000B-6606-34-2	Good	53	51	3.02	1
562	DTPYC9-F114-4-3	1062	TL2000B-6606-34-3	Good	63	51	2.30	2
563	DTPYC9-F116-2-1	1063	TL2000B-6606-35-1	Good	53	51	2.60	2
564	DTPYC9-F116-2-2	1064	TL2000B-6606-35-2	Good	53	51	2.35	2
565	DTPYC9-F116-2-3	1065	TL2000B-6606-35-3	Good	53	51	2.35	2
566	DTPYC9-F125-2-1	1066	TL2000B-6606-36-1	Good	53	51	2.62	2
567	DTPYC9-F125-2-2	1067	TL2000B-6606-36-2	Good	58	58	2.88	1
568	DTPYC9-F125-2-3	1068	TL2000B-6606-36-3	Good	61	58	2.30	2
569	DTPYC9-F125-2-4	1069	TL2000B-6606-36-4	Good	58	58	2.20	2
570	DTPYC9-F125-2-5	1070	TL2000B-6606-36-5	Fair	61	58	2.62	2
571	DTPYC9-F125-2-6	1071	TL2000B-6606-36-6	Good	58	58	2.62	2
572	DTPYC9-F125-2-7	1072	TL2000B-6606-36-7	Good	64	61	2.32	2
573	DTPYC9-F125-2-8	1073	TL2000B-6606-36-8	Good	64	61	2.78	2
574	DTPYC9-F129-2-9	1074	TL2000B-6606-37-9	Good	64	61	2.30	2
575	DTPYC9-F129-2-1	1075	TL2000B-6606-37-1	Good	64	61	2.87	1
576	DTPYC9-F132-2-2	1076	TL2000B-6606-38-2	Good	64	61	2.30	2
577	DTPYC9-F132-2-1	1077	TL2000B-6606-38-1	Good	61	58	2.20	2
578	DTPYC9-F132-2-2	1078	TL2000B-6606-38-2	Good	61	58	2.87	1
579	DTPYC9-F132-2-3	1079	TL2000B-6606-38-3	Good	61	58	2.30	2
580	DTPYC9-F132-2-4	1080	TL2000B-6606-38-4	Good	58	63	2.62	2
581	DTPYC9-F132-2-5	1081	TL2000B-6606-38-5	Good	61	58	2.62	2
582	DTPYC9-F132-2-6	1082	TL2000B-6606-38-6	Good	58	53	2.32	2

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583	DTPYC9-F132-2-7	1083	TL2000B-6606-38-7	Good	61	61	2.78	2
584	DTPYC9-F134-2-1	1084	TL2000B-6606-39-1	Good	61	58	2.30	2
585	DTPYC9-F134-2-2	1085	TL2000B-6606-39-2	Good	61	58	2.20	2
586	DTPYC9-F134-2-3	1086	TL2000B-6606-39-3	Good	64	61	2.82	1
587	DTPYC9-F134-2-4	1087	TL2000B-6606-39-4	Good	54	51	2.30	2
588	DTPYC9-F134-2-5	1088	TL2000B-6606-39-5	Good	54	51	2.82	2
589	DTPYC9-F134-2-6	1089	TL2000B-6606-39-6	Good	61	58	2.62	2
590	DTPYC9-F134-3-1	1090	TL2000B-6606-40-1	Good	64	61	2.32	2
591	DTPYC9-F134-3-2	1091	TL2000B-6606-40-2	Good	64	61	2.78	2
592	DTPYC9-F134-3-3	1092	TL2000B-6606-40-3	Good	56	54	2.30	2
593	DTPYC9-F134-3-4	1093	TL2000B-6606-40-4	Good	56	54	2.20	2
594	DTPYC9-F134-3-5	1094	TL2000B-6606-40-5	Good	56	54	2.81	1
595	DTPYC9-F134-3-6	1095	TL2000B-6606-40-6	Good	56	54	2.30	2
596	DTPYC9-F135-1-1	1096	TL2000B-6606-41-1	Good	56	54	2.62	2
597	DTPYC9-F135-1-2	1097	TL2000B-6606-41-2	Good	56	54	2.62	2
598	DTPYC9-F135-1-3	1098	TL2000B-6606-41-3	Good	56	54	2.32	2
599	DTPYC9-F135-1-4	1099	TL2000B-6606-41-4	Good	56	54	2.78	2
600	DTPYC9-F135-1-5	1100	TL2000B-6606-41-5	Good	64	61	2.30	2
601	DTPYC9-F135-1-6	1101	TL2000B-6606-41-6	Good	64	61	2.20	2
602	DTPYC9-F138-1-1	1102	TL2000B-6606-42-1	Good	67	61	2.87	1
603	DTPYC9-F138-1-2	1103	TL2000B-6606-42-2	Good	64	61	2.30	2
604	DTPYC9-F138-1-3	1104	TL2000B-6606-42-3	Good	67	61	2.60	2
605	DTPYC9-F138-1-4	1105	TL2000B-6606-42-4	Poor	64	61	2.35	2
606	DTPYC9-F142-1-1	1106	TL2000B-6606-43-1	Good	64	58	2.35	2
607	DTPYC9-F142-1-2	1107	TL2000B-6606-43-2	Good	61	58	2.62	2
608	DTPYC9-F142-1-3	1108	TL2000B-6606-43-3	Good	61	58	2.88	1
609	DTPYC9-F142-1-4	1109	TL2000B-6606-43-4	Good	61	58	2.30	2
610	DTPYC9-F142-1-5	1110	TL2000B-6606-43-5	Good	64	61	2.60	2
611	DTPYC9-F142-1-6	1111	TL2000B-6606-43-6	Good	64	61	2.35	2
612	DTPYC9-F142-3-1	1112	TL2000B-6606-44-1	Good	64	61	2.38	2
613	DTPYC9-F142-3-2	1113	TL2000B-6606-44-2	Good	54	54	2.62	2
614	DTPYC9-F142-3-3	1114	TL2000B-6606-44-3	Good	58	58	2.22	2
615	DTPYC9-F143-1-1	1115	TL2000B-6606-45-1	Good	56	54	2.32	2
616	DTPYC9-F143-1-2	1116	TL2000B-6606-45-2	Good	58	54	2.20	2
617	DTPYC9-F143-1-3	1117	TL2000B-6606-45-3	Good	54	54	2.79	1
618	DTPYC9-F143-1-4	1118	TL2000B-6606-45-4	Good	61	58	2.30	2
619	DTPYC9-F143-1-5	1119	TL2000B-6606-45-5	Good	61	58	2.62	2
620	DTPYC9-F143-1-6	1120	TL2000B-6606-45-6	Good	61	58	2.62	2
621	DTPYC9-F143-1-7	1121	TL2000B-6606-45-7	Good	54	54	2.32	2
622	DTPYC9-F143-5-1	1122	TL2000B-6606-46-1	Good	54	54	2.78	2
623	DTPYC9-F143-5-2	1123	TL2000B-6606-46-2	Good	54	54	2.30	2
624	DTPYC9-F143-5-3	1124	TL2000B-6606-46-3	Good	61	58	2.20	2
625	DTPYC9-F143-5-4	1125	TL2000B-6606-46-4	Good	54	54	2.97	1
626	DTPYC9-F143-5-5	1126	TL2000B-6606-46-5	Good	56	54	2.30	2
627	DTPYC9-F144-2-1	1127	TL2000B-6606-47-1	Good	54	54	2.60	2
628	DTPYC9-F144-2-2	1128	TL2000B-6606-47-2	Good	54	54	2.35	2
629	DTPYC9-F144-2-3	1129	TL2000B-6606-47-3	Good	54	54	2.35	2
630	DTPYC9-F145-3-1	1130	TL2000B-6606-48-1	Good	54	51	2.82	2
631	DTPYC9-F145-3-2	1131	TL2000B-6606-48-2	Good	54	54	3.04	1
632	DTPYC9-F145-3-3	1132	TL2000B-6606-48-3	Good	54	54	2.30	2
633	DTPYC9-F145-3-4	1133	TL2000B-6606-48-4	Good	54	54	2.20	2
634	DTPYC9-F145-3-5	1134	TL2000B-6606-48-5	Good	54	64	3.06	1
635	DTPYC9-F145-3-6	1135	TL2000B-6606-48-6	Good	54	54	2.30	2
636	DTPYC9-F145-3-7	1136	TL2000B-6606-48-7	Good	54	54	2.62	2
637	DTPYC9-F145-3-8	1137	TL2000B-6606-48-8	Good	54	54	2.62	2
638	DTPYC9-F145-4-1	1138	TL2000B-6606-49-1	Good	54	54	2.32	2
639	DTPYC9-F145-4-2	1139	TL2000B-6606-49-2	Good	54	54	2.35	2
640	DTPYC9-F145-4-3	1140	TL2000B-6606-49-3	Good	54	54	2.62	2
641	DTPYC9-F145-4-4	1141	TL2000B-6606-49-4	Good	54	54	2.22	2

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642	DTPYC9-F145-4-5	1142	TL2000B-6606-49-5	Good	54	54	2.32	2
643	DTPYC9-F145-4-6	1143	TL2000B-6606-49-6	Good	54	54	2.20	2
644	DTPYC9-F145-4-7	1144	TL2000B-6606-49-7	Good	61	58	3.12	1
645	DTPYC9-F145-4-8	1145	TL2000B-6606-49-8	Good	54	54	2.30	2
646	DTPYC9-F148-2-1	1146	TL2000B-6606-50-1	Good	54	54	2.62	2
647	DTPYC9-F148-2-2	1147	TL2000B-6606-50-2	Good	54	54	2.62	2
648	DTPYC9-F148-2-3	1148	TL2000B-6606-50-3	Good	56	56	2.32	2
649	G18SeqC3-17-1-1-1	1149	PR95A-657-15-1	Good	59	56	2.78	2
650	G18SeqC3-17-1-1-2	1150	PR95A-657-15-2	Good	54	54	2.30	2
651	G18SeqC3-21-1-1-1	1151	PR95A-657-24-1	Good	59	56	2.20	2
652	G18SeqC3-21-1-1-2	1152	PR95A-657-24-2	Good	59	56	3.02	1
653	G18SeqC3-23-3-1-1	1153	PR95A-657-28-1	Poor	59	56	2.30	2
654	G18SeqC3-23-3-1-2	1154	PR95A-657-28-2	Poor	-	-	-	3
655	G18SeqC3-28-1-1-1	1155	PR95A-657-32-1	Good	54	54	2.35	2
656	G18SeqC3-29-2-1-1	1156	PR95A-657-36-1	Poor	-	-	-	3
657	G18SeqC3-29-2-1-2	1157	PR95A-657-36-2	Poor	-	-	-	3
658	G18SeqC3-34-2-1-1	1158	PR95A-657-42-1	Poor	59	56	3.01	1
659	G18SeqC3-45-1-1-1	1159	PR95A-657-53-1	Medium	54	54	2.30	2
660	G18SeqC3-45-1-1-2	1160	PR95A-657-53-2	Good	54	54	2.20	2
661	G18SeqC3-54-1-1-1	1161	PR95A-657-60-1	Poor	-	-	-	3
662	G18SeqC3-62-2-1-1	1162	PR95A-657-75-1	Poor	54	54	1.02	3
663	G18SeqC3-62-2-2-1	1163	PR95A-657-76-1	Medium	59	54	2.35	2
664	G18SeqC3-74-1-2-1	1164	PR95A-657-89-1	Poor	-	-	-	3
665	G18SeqC3-74-1-3-1	1165	PR95A-657-90-1	Medium	59	56	2.79	1
666	G18SeqC3-74-1-3-2	1166	PR95A-657-90-2	Poor	-	-	-	3
667	G18SeqC3-75-1-1-1	1167	PR95A-657-93-1	Poor	-	-	-	3
668	G18SeqC3-75-1-1-2	1168	PR95A-657-93-2	Poor	-	-	-	3
669	G18Seq C5 F6-3-1	1169	PR99B-5631-1-1	Medium	54	56	2.35	2
670	G18Seq C5 F9-2-1	1170	PR99B-5631-2-1	Good	54	54	2.32	2
671	G18Seq C5 F16-1-1	1171	PR99B-5631-3-1	Good	56	54	2.22	2
672	G18Seq C5 F16-1-2	1172	PR99B-5631-3-2	Good	54	54	2.32	2
673	G18Seq C5 F18-2-1	1173	PR99B-5631-4-1	Good	56	54	2.20	2
674	G18Seq C5 F18-2-2	1174	PR99B-5631-4-2	Good	56	54	2.38	1
675	G18Seq C5 F19-1-1	1175	PR99B-5631-5-1	Good	56	54	2.30	2
676	G18Seq C5 F19-1-2	1176	PR99B-5631-5-2	Good	54	54	2.32	2
677	G18Seq C5 F19-2-1	1177	PR99B-5631-6-1	Good	54	54	2.62	2
678	G18Seq C5 F19-2-2	1178	PR99B-5631-6-2	Good	54	54	2.32	2
679	G18Seq C5 F28-2-1	1179	PR99B-5631-7-1	Good	54	54	2.78	2
680	G18Seq C5 F35-2-1	1180	PR99B-5631-8-1	Medium	59	56	2.30	2
681	G18Seq C5 F42-2-1	1181	PR99B-5631-9-1	Medium	59	56	2.20	2
682	G18Seq C5 F46-1-1	1182	PR99B-5631-10-1	Good	54	54	2.67	1
683	G18Seq C5 F46-1-2	1183	PR99B-5631-10-2	Good	56	54	2.30	2
684	G18Seq C5 F47-1-1	1184	PR99B-5631-12-1	Good	54	54	2.30	2
685	G18Seq C5 F49-1-1	1185	PR99B-5631-13-1	Good	54	54	2.35	2
686	G18Seq C5 F54-2-1	1186	PR99B-5631-14-1	Good	54	54	2.38	2
687	G18Seq C5 F54-2-2	1187	PR99B-5631-15-2	Good	59	56	2.62	2
688	G18Seq C5 F54-2-3	1188	PR99B-5631-15-3	Good	54	54	2.30	1
689	G18Seq C5 F54-2-4	1189	PR99B-5631-15-4	Good	54	54	2.30	2
690	G18Seq C5 F59-2-1	1190	PR99B-5631-16-1	Poor	-	-	-	3
691	G18Seq C5 F63-2-1	1191	PR99B-5631-18-1	Good	54	54	2.89	1
692	G18Seq C5 F65-1-1	1192	PR99B-5631-19-1	Good	54	51	2.30	2
693	G18Seq C5 F65-1-2	1193	PR99B-5631-19-2	Good	54	51	2.62	2
694	G18Seq C5 F68-2-1	1194	PR99B-5631-20-1	Good	54	54	2.62	2
695	G18Seq C5 F68-3-1	1195	PR99B-5631-21-1	Good	54	51	2.32	2
696	G18Seq C5 F69-2-1	1196	PR99B-5631-22-1	Good	54	54	2.38	2
697	G18Seq C5 F74-2-1	1197	PR99B-5631-24-1	Good	54	54	2.62	2
698	G18Seq C5 F76-1-1	1198	PR99B-5631-25-1	Good	54	54	2.32	2
699	G18Seq C5 F76-1-2	1199	PR99B-5631-25-2	Good	54	54	2.32	2
700	G18Seq C5 F76-2-1	1200	PR99B-5631-26-1	Good	54	54	2.78	2

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701	G18Seq C5 F76-2-2	1201	PR99B-5631-26-2	Good	54	54	2.30	2
702	G18Seq C5 F78-1-1	1202	PR99B-5631-27-1	Good	54	54	2.20	2
703	G18Seq C5 F78-2-1	1203	PR99B-5631-28-1	Good	54	54	3.08	1
704	G18Seq C5 F83-1-1	1204	PR99B-5631-29-1	Good	58	54	2.30	2
705	G18Seq C5 F91-2-1	1205	PR99B-5631-30-1	Good	54	54	2.60	2
706	G18Seq C5 F91-3-1	1206	PR99B-5631-31-1	Good	54	54	2.35	2
707	G18Seq C5 F93-2-1	1207	PR99B-5631-34-1	Good	54	51	2.35	2
708	G18Seq C5 F93-2-2	1208	PR99B-5631-34-2	Good	54	54	2.62	2
709	G18Seq C5 F97-1-1	1209	PR99B-5631-35-1	Good	54	51	3.21	1
710	G18Seq C5 F97-1-2	1210	PR99B-5631-35-2	Good	54	54	2.30	2
711	G18Seq C5 F99-2-1	1211	PR99B-5631-37-1	Good	58	56	2.60	2
712	G18Seq C5 F100-1-1	1212	PR99B-5631-38-1	Good	54	51	2.35	2
713	G18Seq C5 F100-2-1	1213	PR99B-5631-39-1	Good	54	54	2.35	2
714	G18Seq C5 F100-2-2	1214	PR99B-5631-39-2	Good	54	54	2.62	2
715	G18Seq C5 F100-2-3	1215	PR99B-5631-39-3	Good	54	54	2.22	2
716	G18Seq C5 F101-1-1	1216	PR99B-5631-40-1	Good	54	51	2.32	2
717	G18Seq C5 F102-1-1	1217	PR99B-5631-41-1	Good	54	54	2.20	2
718	G18Seq C5 F103-1-1	1218	PR99B-5631-42-1	Good	54	54	3.12	1
719	G18Seq C5 F103-1-2	1219	PR99B-5631-42-2	Good	54	54	2.30	2
720	G18Seq C5 F105-1-1	1220	PR99B-5631-43-1	Good	54	51	2.62	2
721	G18Seq C5 F105-2-1	1221	PR99B-5631-44-1	Good	54	51	2.62	2
722	G18Seq C5 F105-2-2	1222	PR99B-5631-44-2	Good	54	54	2.32	2
723	G18Seq C5 F106-1-1	1223	PR99B-5631-45-1	Good	54	54	2.78	2
724	G18Seq C5 F113-1-1	1224	PR99B-5631-46-1	Good	54	54	2.30	2
725	G18Seq C5 F113-1-2	1225	PR99B-5631-46-2	Medium	54	54	2.20	2
726	G18Seq C5 F117-2-1	1226	PR99B-5631-47-1	Medium	57	55	2.97	1
727	G18Seq C5 F119-1-1	1227	PR99B-5631-48-1	Good	54	54	2.30	2
728	G18Seq C5 F122-1-1	1228	PR99B-5631-49-1	Good	57	57	2.60	2
729	G18Seq C5 F122-2-1	1229	PR99B-5631-50-1	Good	54	54	2.78	2
730	G18Seq C5 F123-1-1	1230	PR99B-5631-51-1	Poor	54	54	0.92	3
731	G18Seq C5 F127-1-1	1231	PR99B-5631-52-1	Medium	54	54	2.20	2
732	G18Seq C5 F127-2-1	1232	PR99B-5631-53-1	Good	56	56	3.03	1
733	G18Seq C5 F129-1-1	1233	PR99B-5631-54-1	Good	56	56	2.30	2
734	G18Seq C5 F129-1-2	1234	PR99B-5631-54-2	Good	54	54	2.60	2
735	G18Seq C5 F129-2-1	1235	PR99B-5631-55-1	Good	54	54	2.35	2
736	G18Seq C5 F129-3-1	1236	PR99B-5631-56-1	Good	54	54	2.35	2
737	G18Seq C5 F130-1-1	1237	PR99B-5631-57-1	Good	54	54	2.62	2
738	G18Seq C5 F130-1-2	1238	PR99B-5631-57-2	Good	54	54	3.08	1
739	G18Seq C5 F134-3-1	1239	PR99B-5631-59-1	Good	54	54	2.30	2
740	G18Seq C5 F134-3-2	1240	PR99B-5631-59-2	Good	54	54	2.20	2
741	G18Seq C5 F134-3-3	1241	PR99B-5631-59-3	Good	54	54	3.10	1
742	G18Seq C5 F135-1-1	1242	PR99B-5631-61-1	Good	51	58	2.30	2
743	G18Seq C5 F140-1-1	1243	PR99B-5631-61-1	Good	55	55	2.62	2
744	G18Seq C5 F140-1-2	1244	PR99B-5631-61-2	Good	55	54	2.62	2
745	G18Seq C5 F140-1-3	1245	PR99B-5631-61-3	Good	55	55	2.32	2
746	G18Seq C5 F146-2-1	1246	PR99B-5631-62-1	Good	55	55	2.35	2
747	G18Seq C5 F148-3-1	1247	PR99B-5631-63-1	Good	55	55	2.62	2
748	G18Seq C5 F149-2-1	1248	PR99B-5631-64-1	Poor	55	55	1.14	3
749	G18Seq C5 F149-2-2	1249	PR99B-5631-64-2	Good	55	53	2.32	2
750	G18Seq C5 F149-2-3	1250	PR99B-5631-64-3	Good	56	53	2.78	2
751	G18Seq C5 F150-1-1	1251	PR99B-5631-65-1	Good	55	53	2.30	2
752	G18Seq C5 F150-1-2	1252	PR99B-5631-65-2	Good	55	53	2.20	2
753	G18Seq C5 F152-1-1	1253	PR99B-5631-66-1	Good	55	53	3.00	1
754	G18Seq C5 F153-1-1	1254	PR99B-5631-67-1	Poor	55	53	0.85	3
755	G18Seq C5 F153-3-1	1255	PR99B-5631-68-1	Medium	53	53	2.60	2
756	G18Seq C5 F153-3-2	1256	PR99B-5631-68-2	Medium	53	53	2.35	2
757	G18Seq C5 F157-2-1	1257	PR99B-5631-70-1	Poor	65	58	1.26	3
758	G18Seq C5 F157-2-2	1258	PR99B-5631-70-2	Good	55	63	2.35	2
759	G18Seq C5 F157-2-3	1259	PR99B-5631-70-3	Good	55	55	2.62	2

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760	G18Seq C5 F158-2-1	1260	PR99B-5631-71-1	Good	65	56	2.22	2
761	G18Seq C5 F165-1-1	1261	PR99B-5631-72-1	Good	65	55	2.32	2
762	G18Seq C5 F168-3-1	1262	PR99B-5631-73-1	Good	53	53	2.78	2
763	G18Seq C5 F168-3-2	1263	PR99B-5631-75-2	Good	53	53	2.30	2
764	G18Seq C5 F171-1-1	1264	PR99B-5631-76-1	Good	53	53	2.20	2
765	G18Seq C5 F171-1-2	1265	PR99B-5631-76-2	Good	53	53	3.14	1
766	G18Seq C5 F171-2-1	1266	PR99B-5631-77-1	Good	53	53	2.30	2
767	G18Seq C5 F171-2-2	1267	PR99B-5631-77-2	Good	53	53	2.60	2
768	G18Seq C5 F177-1-1	1268	PR99B-5631-79-1	Good	53	53	2.35	2
769	G18Seq C5 F179-2-1	1269	PR99B-5631-80-1	Good	53	53	2.35	2
770	G18Seq C5 F181-2-1	1270	PR99B-5631-81-1	Good	65	56	2.62	2
771	G18Seq C5 F181-2-2	1271	PR99B-5631-81-2	Good	53	53	2.87	1
772	G18Seq C5 F187-1-1	1272	PR99B-5631-82-1	Good	53	53	2.30	2
773	G18Seq C5 F187-1-2	1273	PR99B-5631-82-2	Good	52	51	2.60	2
774	G18Seq C5 F191-3-1	1274	PR99B-5631-83-1	Good	53	53	2.35	2
775	G18Seq C5 F191-3-2	1275	PR99B-5631-83-2	Good	53	53	2.35	2
776	G18Seq C5 F193-2-1	1276	PR99B-5631-84-1	Good	65	55	2.62	2
777	G18Seq C5 F196-2-1	1277	PR99B-5631-85-1	Good	67	55	2.22	2
778	G18Seq C5 F196-2-2	1278	PR99B-5631-85-2	Good	53	53	2.32	2
779	G18Seq C5 F197-1-1	1279	PR99B-5631-86-1	Good	52	52	2.20	2
780	G18Seq C5 F197-1-2	1280	PR99B-5631-86-2	Good	52	52	2.99	1
781	G18Seq C5 F198-1-1	1281	PR99B-5631-87-1	Good	53	53	2.30	2
782	G18Seq C5 F198-1-2	1282	PR99B-5631-87-2	Good	52	52	2.62	2
783	G18Seq C5 F198-1-3	1283	PR99B-5631-87-3	Good	53	53	2.62	2
784	G18Seq C5 F201-3-1	1284	PR99B-5631-88-1	Good	52	52	2.32	2
785	G18Seq C5 F205-1-1	1285	PR99B-5631-89-1	Good	53	53	2.78	2
786	G18Seq C5 F205-1-2	1286	PR99B-5631-89-2	Good	53	53	2.32	2
787	G18Seq C5 F210-2-1	1287	PR99B-5631-90-1	Good	52	52	2.35	2
788	G18Seq C5 F210-2-2	1288	PR99B-5631-90-2	Good	65	55	2.62	2
789	G18Seq C5 F215-1-1	1289	PR99B-5631-91-1	Good	53	51	2.22	2
790	G18Seq C5 F219-1-1	1290	PR99B-5631-93-1	Good	57	55	2.32	2
791	G18Seq C5 F219-1-2	1291	PR99B-5631-93-2	Good	67	55	2.78	2
792	G18Seq C5 F221-4-1	1292	PR99B-5631-94-1	Good	67	57	2.30	2
793	G18Seq C5 F223-2-1	1293	PR99B-5631-95-1	Good	53	53	2.20	2
794	G18Seq C5 F223-2-2	1294	PR99B-5631-95-2	Good	53	53	3.12	1
795	G18Seq C5 F226-2-1	1295	PR99B-5631-96-1	Good	53	53	2.30	2
796	G18Seq C5 F226-2-2	1296	PR99B-5631-96-2	Good	53	53	2.60	2
797	G18Seq C5 F226-2-3	1297	PR99B-5631-96-3	Good	53	53	2.35	2
798	G18Seq C5 F228-1-1	1298	PR99B-5631-97-1	Good	53	53	2.36	2
799	G18Seq C5 F228-1-2	1299	PR99B-5631-97-2	Good	53	53	2.62	2
800	G18Seq C5 F229-1-1	1300	PR99B-5631-98-1	Good	67	57	3.10	1
801	G18Seq C5 F229-1-2	1301	PR99B-5631-98-2	Good	67	57	2.30	2
802	G18Seq C5 F236-1-1	1302	PR99B-5631-100-1	Good	53	53	2.60	2
803	G18Seq C5 F236-1-2	1303	PR99B-5631-100-2	Good	53	53	2.35	2
804	POOL 16 BNSEQ.C3 F26 x 39-1	1304	TL2000A-1649-115-1	Good	55	51	2.35	2
805	POOL 16 BNSEQ.C3 F37 x 2-1	1305	TL2000A-1649-216-1	Good	53	53	2.62	2
806	POOL 16 BNSEQ.C3 F26 x 29-1	1306	TL2000A-1649-115-2	Good	53	53	2.22	2
807	POOL 16 BNSEQ.C3 F31 x 15-1	1307	TL2000A-1649-180-1	Good	53	53	2.32	2
808	POOL 16 BNSEQ.C3 F31 x 20-2	1308	TL2000A-1649-111-2	Good	67	53	2.20	2
809	POOL 16 BNSEQ.C3 F34 x 31-3	1309	TL2000A-1649-202-3	Good	53	53	3.12	1
810	POOL 16 BNSEQ.C3 F25 x 2-2	1310	TL2000A-1649-144-2	Good	53	53	2.30	2
811	POOL 16 BNSEQ.C3 F22 x 1-3	1311	TL2000A-1649-126-3	Good	53	51	2.62	2
812	POOL 16 BNSEQ.C3 F19 x 20-2	1312	TL2000A-1649-111-1	Good	53	53	2.62	2
813	POOL 16 BNSEQ.C3 F6 x 3-1	1313	TL2000A-1649-32-1	Good	55	53	2.32	2
814	POOL 16 BNSEQ.C3 F33 x 23-3	1314	TL2000A-1649-195-3	Good	53	53	2.78	2
815	POOL 16 BNSEQ.C3 F32 x 26-1	1315	TL2000A-1649-188-1	Good	53	51	2.35	2
816	POOL 16 BNSEQ.C3 F19 x 20-1	1316	TL2000A-1649-111-1	Good	53	53	2.36	2
817	POOL 16 BNSEQ.C3 F40 x 35-1	1317	TL2000A-1649-240-1	Good	53	53	2.62	2
818	POOL 16 BNSEQ.C3 F29 x 33-2	1318	TL2000A-1649-171-2	Good	53	53	2.22	2

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819	POOL 16 BNSEQ.C3 F10 x 36-2	1319	TL2000A-1649-59-2	Good	53	53	2.32	2
820	POOL 16 BNSEQ.C3 F11 x 39-3	1320	TL2000A-1649-60-3	Good	53	53	2.20	2
821	POOL 16 BNSEQ.C3 F32 x 37-4	1321	TL2000A-1649-191-4	Good	53	51	3.22	1
822	POOL 16 BNSEQ.C3 F25 x 2-3	1322	TL2000A-1649-144-3	Good	55	53	2.30	2
823	POOL 16 BNSEQ.C3 F30 x 35-3	1323	TL2000A-1649-179-3	Good	53	51	2.62	2
824	POOL 16 BNSEQ.C3 F22 x 5-2	1324	TL2000A-1649-127-2	Good	55	53	2.62	2
825	POOL 16 BNSEQ.C3 F23 x 13-1	1325	TL2000A-1649-133-1	Good	53	53	2.32	2
826	POOL 16 BNSEQ.C3 F38 x 34-2	1326	TL2000A-1649-227-2	Good	53	53	2.78	2
827	POOL 16 BNSEQ.C3 F37 x 3-2	1327	TL2000A-1649-217-2	Good	57	55	2.30	2
828	POOL 16 BNSEQ.C3 F25 x 13-2	1328	TL2000A-1649-146-2	Good	53	53	2.20	2
829	POOL 16 BNSEQ.C3 F27 x 32-2	1329	TL2000A-1649-159-2	Good	53	53	3.11	1
830	POOL 16 BNSEQ.C3 F37 x 20-1	1330	TL2000A-1649-221-1	Good	53	53	2.30	2
831	POOL 16 BNSEQ.C3 F33 x 38-1	1331	TL2000A-1649-197-1	Good	53	53	2.60	2
832	POOL 16 BNSEQ.C3 F10 x 36-3	1332	TL2000A-1649-59-3	Good	53	53	2.78	2
833	POOL 16 BNSEQ.C3 F34 x 5-4	1333	TL2000A-1649-199-4	Good	55	53	2.30	2
834	POOL 16 BNSEQ.C3 F37 x 2-4	1334	TL2000A-1649-216-4	Good	53	53	2.20	2
835	POOL 16 BNSEQ.C3 F24 x 10-2	1335	TL2000A-1649-141-2	Good	53	51	3.16	1
836	POOL 16 BNSEQ.C3 F28 x 16-3	1336	TL2000A-1649-164-3	Good	55	53	2.30	2
837	POOL 16 BNSEQ.C3 F34 x 2-4	1337	TL2000A-1649-198-4	Good	53	51	2.60	2
838	POOL 16 BNSEQ.C3 F20 x 17-3	1338	TL2000A-1649-118-3	Good	53	53	2.35	2
839	POOL 16 BNSEQ.C3 F26 x 39-3	1339	TL2000A-1649-155-3	Good	53	53	2.35	2
840	POOL 16 BNSEQ.C3 F34 x 24-2	1340	TL2000A-1649-201-2	Good	53	53	2.62	2
841	POOL 16 BNSEQ.C3 F31 x 15-3	1341	TL2000A-1649-180-3	Good	57	53	3.07	1
842	POOL 16 BNSEQ.C3 F34 x 31-2	1342	TL2000A-1649-202-2	Good	53	53	2.30	2
843	POOL 16 BNSEQ.C3 F7 x 39-2	1343	TL2000A-1649-42-2	Good	53	53	2.20	2
844	POOL 16 BNSEQ.C3 F25 x 2-5	1344	TL2000A-1649-144-5	Good	65	53	3.02	1
845	POOL 16 BNSEQ.C3 F31 x 28-2	1345	TL2000A-1649-182-2	Good	65	53	2.30	2
846	POOL 16 BNSEQ.C3 F20 x 5-3	1346	TL2000A-1649-118-3	Good	53	53	2.62	2
847	POOL 16 BNSEQ.C3 F34 x 2-1	1347	TL2000A-1649-198-1	Good	53	53	2.62	2
848	POOL 16 BNSEQ.C3 F6 x 36-1	1348	TL2000A-1649-36-1	Good	55	55	2.32	2
849	POOL 16 BNSEQ.C3 F32 x 34-2	1349	TL2000A-1649-190-2	Good	53	53	2.35	2
850	POOL 16 BNSEQ.C3 F15 x 36-1	1350	TL2000A-1649-90-1	Good	60	55	2.62	2
851	POOL 16 BNSEQ.C3 F38 x 26-2	1351	TL2000A-1649-225-2	Good	53	53	2.22	2
852	POOL 16 BNSEQ.C3 F18 x 11-1	1352	TL2000A-1649-103-1	Good	66	55	2.60	2
853	POOL 16 BNSEQ.C3 F36 x 10-2	1353	TL2000A-1649-212-2	Good	55	53	2.35	2
854	POOL 16 BNSEQ.C3 F40 x 12-2	1354	TL2000A-1649-234-2	Good	53	51	2.35	2
855	POOL 16 BNSEQ.C3 F20 x 32-2	1355	TL2000A-1649-120-2	Good	53	53	2.62	2
856	POOL 16 BNSEQ.C3 F7 x 37-2	1356	TL2000A-1649-42-2	Good	53	53	3.00	1
857	POOL 16 BNSEQ.C3 F36 x 1-2	1357	TL2000A-1649-210-2	Good	53	53	2.30	2
858	POOL 16 BNSEQ.C3 F23 x 2-4	1358	TL2000A-1649-144-4	Good	53	53	2.60	2
859	POOL 16 BNSEQ.C3 F13 x 22-1	1359	TL2000A-1649-77-1	Good	53	53	2.35	2
860	POOL 16 BNSEQ.C3 F11 x 26-1	1360	TL2000A-1649-59-1	Good	57	53	2.35	2
861	POOL 16 BNSEQ.C3 F34 x 31-1	1361	TL2000A-1649-202-1	Good	53	51	2.62	2
862	POOL 16 BNSEQ.C3 F33 x 7-2	1362	TL2000A-1649-193-2	Good	57	53	2.22	2
863	POOL 16 BNSEQ.C3 F37 x 20-2	1363	TL2000A-1649-221-2	Good	57	53	2.32	2
864	POOL 16 BNSEQ.C3 F27 x 20-2	1364	TL2000A-1649-156-2	Good	53	53	3.11	1
865	POOL 16 BNSEQ.C3 F20 x 13-3	1365	TL2000A-1649-117-3	Good	53	53	3.08	1
866	POOL 16 BNSEQ.C3 F26 x 20-1	1366	TL2000A-1649-152-1	Good	53	53	2.30	2
867	POOL 16 BNSEQ.C3 F17 x 34-2	1367	TL2000A-1649-101-2	Good	53	51	2.62	2
868	POOL 16 BNSEQ.C3 F20 x 10-3	1368	TL2000A-1649-116-3	Good	53	51	2.62	2
869	POOL 16 BNSEQ.C3 F32 x 25-1	1369	TL2000A-1649-192-1	Good	53	51	2.32	2
870	POOL 16 BNSEQ.C3 F33 x 23-2	1370	TL2000A-1649-195-2	Good	57	53	2.78	2
871	POOL 16 BNSEQ.C3 F34 x 19-1	1371	TL2000A-1649-206-1	Good	53	51	2.35	2
872	POOL 16 BNSEQ.C3 F27 x 26-1	1372	TL2000A-1649-157-1	Medium	53	53	2.35	2
873	POOL 16 BNSEQ.C3 F39 x 30-3	1373	TL2000A-1649-233-3	Medium	53	53	2.62	2
874	POOL 16 BNSEQ.C3 F32 x 18-3	1374	TL2000A-1649-187-3	Good	58	53	2.22	2
875	POOL 16 BNSEQ.C3 F33 x 2-2	1375	TL2000A-1649-192-2	Good	53	53	2.32	2
876	POOL 16 BNSEQ.C3 F37 x 3-3	1376	TL2000A-1649-217-3	Good	53	53	2.20	2
877	POOL 16 BNSEQ.C3 F13 x 25-3	1377	TL2000A-1649-78-3	Good	58	53	3.16	1

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878	POOL 16 BNSEQ.C3 F26 x 29-3	1378	TL2000A-1649-153-3	Good	53	53	2.30	2
879	POOL 16 BNSEQ.C3 F11 x 37-1	1379	TL2000A-1649-55-1	Good	55	53	2.62	2
880	POOL 16 BNSEQ.C3 F10 x 1-3	1380	TL2000A-1649-55-3	Good	55	53	2.62	2
881	POOL 16 BNSEQ.C3 F10 x 1-1	1381	TL2000A-1649-55-1	Good	55	53	2.32	2
882	POOL 16 BNSEQ.C3 F19 x 20-3	1382	TL2000A-1649-112-3	Good	53	53	2.78	2
883	POOL 16 BNSEQ.C3 F37 x 14-1	1383	TL2000A-1649-219-1	Good	53	53	2.30	2
884	POOL 16 BNSEQ.C3 F9 x 36-2	1384	TL2000A-1649-53-2	Good	53	53	2.78	2
885	POOL 16 BNSEQ.C3 F26 x 20-2	1385	TL2000A-1649-152-2	Good	53	51	2.30	2
886	POOL 16 BNSEQ.C3 F26 x 39-2	1386	TL2000A-1649-155-2	Good	53	53	2.20	2
887	POOL 16 BNSEQ.C3 F19 x 39-1	1387	TL2000A-1649-114-1	Good	53	53	3.11	1
888	POOL 16 BNSEQ.C3 F37 x 2-2	1388	TL2000A-1649-216-2	Good	53	51	2.30	2
889	POOL 16 BNSEQ.C3 F34 x 19-2	1389	TL2000A-1649-200-2	Good	53	53	2.80	2
890	POOL 16 BNSEQ.C3 F39 x 30-4	1390	TL2000A-1649-233-4	Good	53	51	2.35	2
891	POOL 16 BNSEQ.C3 F24 x 8-4	1391	TL2000A-1649-140-4	Good	53	51	2.35	2
892	POOL 16 BNSEQ.C3 F26 x 2-2	1392	TL2000A-1649-150-2	Good	53	53	2.62	2
893	POOL 16 BNSEQ.C3 F13 x 15-2	1393	TL2000A-1649-73-2	Good	53	53	3.06	2
894	POOL 16 BNSEQ.C3 F13 x 25-2	1394	TL2000A-1649-78-2	Good	53	53	2.30	2
895	POOL 16 BNSEQ.C3 F37 x 14-4	1395	TL2000A-1649-219-4	Good	53	53	2.20	2
896	POOL 16 BNSEQ.C3 F40 x 29-2	1396	TL2000A-1649-239-2	Good	53	53	3.16	1
897	POOL 16 BNSEQ.C3 F24 x 10-1	1397	TL2000A-1649-141-1	Good	53	51	2.30	2
898	POOL 16 BNSEQ.C3 F8 x 17-4	1398	TL2000A-1649-47-4	Good	53	53	2.62	2
899	POOL 16 BNSEQ.C3 F25 x 12-2	1399	TL2000A-1649-145-2	Good	53	53	2.62	2
900	POOL 16 BNSEQ.C3 F33 x 34-3	1400	TL2000A-1649-196-3	Good	53	53	2.32	2
901	POOL 16 BNSEQ.C3 F24 x 29-1	1401	TL2000A-1649-136-1	Good	53	53	2.35	2
902	POOL 16 BNSEQ.C3 F25 x 17-3	1402	TL2000A-1649-147-3	Good	53	53	2.62	2
903	POOL 16 BNSEQ.C3 F24 x 32-2	1403	TL2000A-1649-146-2	Good	53	53	2.22	2
904	POOL 16 BNSEQ.C3 F40 x 29-1	1404	TL2000A-1649-239-1	Good	53	53	2.60	2
905	POOL 16 BNSEQ.C3 F19 x 16-3	1405	TL2000A-1649-106-3	Good	53	53	2.35	2
906	POOL 16 BNSEQ.C3 F6 x 5-1	1406	TL2000A-1649-33-1	Good	53	53	2.35	2
907	POOL 16 BNSEQ.C3 F37 x 2-3	1407	TL2000A-1649-216-3	Good	53	53	2.62	2
908	POOL 16 BNSEQ.C3 F10 x 34-3	1408	TL2000A-1649-58-3	Good	53	53	3.00	1
909	POOL 16 BNSEQ.C3 F27 x 34-1	1409	TL2000A-1649-181-1	Good	53	53	2.30	2
910	POOL 16 BNSEQ.C3 F32 x 37-3	1410	TL2000A-1649-191-3	Good	53	53	2.60	2
911	POOL 16 BNSEQ.C3 F36 x 6-1	1411	TL2000A-1649-111-1	Good	53	53	2.35	2
912	POOL 16 BNSEQ.C3 F24 x 18-1	1412	TL2000A-1649-142-1	Good	53	53	2.78	2
913	POOL 16 BNSEQ.C3 F28 x 15-2	1413	TL2000A-1649-163-2	Good	58	58	2.35	2
914	POOL 16 BNSEQ.C3 F28 x 15-3	1414	TL2000A-1649-163-3	Good	58	58	2.35	2
915	POOL 16 BNSEQ.C3 F29 x 20-1	1415	TL2000A-1649-168-1	Good	58	58	2.62	2
916	POOL 16 BNSEQ.C3 F29 x 20-2	1416	TL2000A-1649-168-2	Good	58	58	2.22	2
917	POOL 16 BNSEQ.C3 F6 x 23-3	1417	TL2000A-1649-34-3	Good	58	56	2.32	2
918	POOL 16 BNSEQ.C3 F36 x 10-1	1418	TL2000A-1649-212-1	Good	58	56	2.20	2
919	POOL 16 BNSEQ.C3 F10 x 1-2	1419	TL2000A-1649-55-2	Good	53	53	3.21	1
920	POOL 16 BNSEQ.C3 F22 x 1-2	1420	TL2000A-1649-126-2	Good	58	58	2.30	2
921	POOL 16 BNSEQ.C3 F17 x 19-1	1421	TL2000A-1649-103-1	Good	58	58	2.62	2
922	POOL 16 BNSEQ.C3 F35 x 21-1	1422	TL2000A-1649-207-1	Good	58	58	2.62	2
923	POOL 16 BNSEQ.C3 F11 x 37-3	1423	TL2000A-1649-55-3	Good	58	58	2.32	2
924	POOL 16 BNSEQ.C3 F33 x 2-3	1424	TL2000A-1649-192-3	Good	58	58	2.78	2
925	POOL 16 BNSEQ.C3 F30 x 1-3	1425	TL2000A-1649-174-3	Medium	53	53	2.30	2
926	POOL 16 BNSEQ.C3 F8 x 15-2	1426	TL2000A-1649-46-2	Good	58	58	2.78	2
927	POOL 16 BNSEQ.C3 F17 x 34-1	1427	TL2000A-1649-101-1	Good	53	53	2.30	2
928	POOL 16 BNSEQ.C3 F34 x 35-1	1428	TL2000A-1649-203-1	Good	58	53	2.20	2
929	POOL 16 BNSEQ.C3 F34 x 2-3	1429	TL2000A-1649-196-3	Good	49	53	3.06	1
930	POOL 16 BNSEQ.C3 F39 x 9-2	1430	TL2000A-1649-228-2	Good	58	56	2.30	2
931	POOL 16 BNSEQ.C3 F26 x 31-3	1431	TL2000A-1649-154-3	Good	53	53	2.60	2
932	POOL 16 BNSEQ.C3 F25 x 13-3	1432	TL2000A-1649-146-3	Good	53	53	2.35	2
933	POOL 16 BNSEQ.C3 F24 x 10-1	1433	TL2000A-1649-141-1	Good	53	53	2.30	2
934	POOL 16 BNSEQ.C3 F22 x 16-1	1434	TL2000A-1649-129-1	Good	53	53	2.62	2
935	POOL 16 BNSEQ.C3 F24 x 31-2	1435	TL2000A-1649-154-2	Good	53	53	3.00	1
936	POOL 16 BNSEQ.C3 F6 x 33-1	1436	TL2000A-1649-35-1	Good	58	56	2.30	2

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937	POOL 16 BNSEQ C3 F32 x 26-3	1437	TL2000A-1649-165-3	Good	53	53	2.20	2
938	POOL 16 BNSEQ C3 F28 x 18-3	1438	TL2000A-1649-165-3	Good	58	56	3.08	1
939	G16BNSEQCOF118-1-1-4-B-B-B	1439	TL98B-6611-1	Good	60	56	2.30	2
940	G16BNSEQCOF118-1-1-2-2-B-B-B	1440	TL98B-6611-2	Medium	60	56	2.62	2
941	G16BNSEQCOF118-1-1-3-1-B-B-B	1441	TL98B-6611-3	Good	60	56	2.62	2
942	G16BNSEQCOF118-1-1-3-5-B-B-B	1442	TL98B-6611-4	Good	60	56	2.62	2
943	G16BNSEQCOF118-1-1-4-1-B-B-B	1443	TL98B-6611-5	Good	60	56	2.32	2
944	G16BNSEQCOF118-1-1-4-2-B-B-B	1444	TL98B-6611-6	Good	60	56	2.35	2
945	G16BNSEQCOF118-1-1-4-3-B-B-B	1445	TL98B-6611-7	Good	60	56	2.62	2
946	G16BNSEQCOF118-1-1-4-5-B-B-B	1446	TL98B-6611-8	Good	60	56	2.22	2
947	G16BNSEQCOF118-1-2-1-1-B-B-B	1447	TL98B-6611-9	Good	59	56	2.80	2
948	G16BNSEQCOF118-1-2-1-2-B-B-B	1448	TL98B-6611-10	Good	59	56	2.35	2
949	G16BNSEQCOF118-1-2-1-4-B-B-B	1449	TL98B-6611-11	Good	59	56	2.35	2
950	G16BNSEQCOF118-1-2-1-5-B-B-B	1450	TL98B-6611-12	Good	59	56	2.62	2
951	G16BNSEQCOF118-1-3-1-1-B-B-B	1451	TL98B-6611-13	Good	59	56	2.79	1
952	G16BNSEQCOF118-1-3-1-2-B-B-B	1452	TL98B-6611-14	Good	61	61	2.30	2
953	G16BNSEQCOF118-1-3-1-3-B-B-B	1453	TL98B-6611-15	Good	59	56	2.60	2
954	G16BNSEQCOF118-1-3-2-1-B-B-B	1454	TL98B-6611-16	Good	59	59	2.35	2
955	G16BNSEQCOF118-1-4-3-1-B-B-B	1455	TL98B-6611-17	Good	59	59	2.78	2
956	G16SeqC1-15-2-1-2-2-1-B-B-B-B	1456	TL98B-6611-18	Good	61	61	2.35	2
957	G16SeqC1-15-2-1-2-2-2-B-B-B-B	1457	TL98B-6611-19	Good	61	61	2.35	2
958	SPEC6F74-1-4-1-1-1-B-B-B-B-B	1458	TL98B-6611-20	Good	61	61	2.62	2
959	SPEC6F271-1-1-1-1-1-B-B-B-B-B	1459	TL98B-6611-21	Good	65	65	2.22	2
960	SPEC6F295-1-1-1-1-1-B-B-B-B-B	1460	TL98B-6611-22	Good	65	65	2.32	2
961	SPEC7F57-1-3-2-1-1-B-B-B-B-B	1461	TL98B-6611-23	Poor	61	61	2.30	3
962	SPEC6F111-1-3-2-1-B-B-B-B-B	1462	TL98B-6611-24	Good	61	61	2.99	1
963	SPEC7F60-1-2-1-1-1-B-B-B-B-B	1463	TL98B-6611-25	Medium	61	61	2.30	2
964	G18SeqC2F119-2-1-1-1-1-B-B-B-B	1464	TL98B-6611-26	Good	61	61	2.62	2
965	G18SeqC2F119-2-1-1-4-2-3-B-B-B-B	1465	TL98B-6611-27	Good	61	61	2.62	2
966	G18SeqC2F141-5-1-1-1-2-B-B-B-B	1466	TL98B-6611-28	Good	61	61	2.32	2
967	G18SeqC2F141-5-1-1-4-2-1-B-B-B-B	1467	TL98B-6611-29	Good	61	61	2.78	2
968	G18SeqC2F334-2-2-1-1-5-3-B-B-B-B	1468	TL98B-6611-30	Good	53	53	2.30	2
969	G18SeqC2F141-2-2-1-1-1-2-1-1-B-B-B-B	1469	TL98B-6611-31	Good	61	61	2.30	2
970	G18SeqC3-7-1-2-2-1-B-B-B-B-B	1470	TL98B-6611-32	Poor	61	65	0.74	3
971	G18SeqC3-17-1-1-2-2-B-B-B-B-B	1471	TL98B-6611-33	Good	53	53	2.58	1
972	G18SeqC3-62-2-1-1-2-B-B-B-B-B	1472	TL98B-6611-34	Medium	61	61	2.30	2
973	G18SeqC3-95-1-1-1-3-B-B-B-B-B	1473	TL98B-6611-35	Good	59	59	2.80	2
974	G18SeqC3F20-1-2-1-1-1-B-B-B	1474	TL98B-6611-36	Medium	59	56	2.91	1
975	G18SeqC3F20-1-2-1-2-1-B-B-B	1475	TL98B-6611-37	Medium	59	56	2.35	2
976	G18SeqC3F98-1-2-1-1-2-B-B-B	1476	TL98B-6611-38	Good	59	56	2.62	2
977	G18SeqC3F155-2-1-1-1-1-B-B-B	1477	TL98B-6611-39	Good	59	56	2.97	1
978	G18SeqC3F155-2-1-1-2-B-B-B	1478	TL98B-6611-40	Good	59	56	2.30	2
979	G18SeqC3F155-2-1-1-4-B-B-B	1479	TL98B-6611-41	Good	59	56	2.28	2
980	G18SeqC3F155-2-1-1-5-B-B-B	1480	TL98B-6611-42	Good	59	56	3.00	1
981	G18SeqC3F155-2-1-1-2-2-B-B-B	1481	TL98B-6611-43	Good	59	56	2.30	2
982	G18SeqC3F155-2-1-1-2-3-B-B-B	1482	TL98B-6611-44	Good	59	56	2.62	2
983	G18SeqC3F155-2-1-1-2-4-B-B-B	1483	TL98B-6611-45	Good	59	56	2.62	2
984	G18SeqC3F155-2-1-3-1-1-B-B-B	1484	TL98B-6611-46	Good	59	58	2.62	2
985	G18SeqC3F211-1-1-1-2-1-B-B-B	1485	TL98B-6611-47	Medium	61	61	2.32	2
986	G18SeqC3F245-2-2-2-1-2-B-B-B	1486	TL98B-6611-48	Good	64	61	2.35	2
987	G18SeqC3F245-2-2-2-2-1-B-B-B	1487	TL98B-6611-49	Good	60	60	2.62	2
988	G18SeqC3F245-2-2-2-2-3-B-B-B	1488	TL98B-6611-50	Good	59	56	2.22	2
989	G18SeqC3F245-2-2-2-2-4-B-B-B	1489	TL98B-6611-51	Good	61	61	2.90	2
990	G18SeqC1-124-2-1-3-1-1-B-B-B-B	1490	TL98B-6611-52	Good	65	61	2.35	2
991	G18SeqC1-124-2-2-1-1-3-B-B-B-B	1491	TL98B-6611-53	Good	61	61	2.35	2
992	G18SeqC1-124-2-2-1-4-B-B-B-B	1492	TL98B-6611-54	Good	61	61	2.62	2
993	G18SeqC1-124-2-2-1-5-B-B-B-B	1493	TL98B-6611-55	Good	61	61	2.08	1
994	G18SeqC3F98-1-2-1-3-1-B-B	1494	TL98B-6611-56	Good	61	61	2.30	2

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995	G18SeqC3F155-2-1-1-2-1-B-B	1495	TL98B-6611-57	Good	61	61	2.60	2
996	G18SeqC3F245-2-2-1-1-B-B	1496	TL98B-6611-58	Good	61	61	2.35	2
997	G18SeqC2F119-2-1-1-1-2-B-B-B	1497	TL98B-6611-59	Good	61	61	3.04	1
998	G18SeqC2F119-2-1-1-1-3-B-B-B	1498	TL98B-6611-60	Good	61	65	2.30	2
999	SPLC7F52-1-3-1-1-1-B-B-B-B	1500	TL98B-6611-61	Good	67	65	2.60	2
1000	SPLC7F52-1-3-1-1-2-B-B-B-B	1500	TL98B-6611-62	Good	65	61	2.35	2
1001	SPLC7F52-1-3-1-1-3-B-B-B-B	1501	TL98B-6611-63	Good	65	65	2.78	2
1002	SPLC7F52-1-3-1-2-1-B-B-B-B	1502	TL98B-6611-64	Good	61	61	2.35	2
1003	SPLC7F52-1-3-1-2-2-B-B-B-B	1503	TL98B-6611-65	Good	61	61	2.35	2
1004	SPLC7F52-1-3-1-2-3-B-B-B-B	1504	TL98B-6611-66	Good	61	61	2.62	2
1005	SPLC7F101-2-3-1-3-1-B-B-B-B	1505	TL98B-6611-67	Good	67	65	2.22	2
1006	SPLC7F101-2-3-2-1-1-B-B-B-B	1506	TL98B-6611-68	Good	65	61	2.32	2
1007	SPLC7F110-4-4-2-1-1-B-B-B-B	1507	TL98B-6611-69	Good	61	61	2.20	2
1008	SPLC7F183-1-2-1-1-1-B-B-B-B	1508	TL98B-6611-70	Poor	-	-	-	3
1009	SPLC7F254-1-2-3-2-1-B-B-B-B	1509	TL98B-6611-71	Poor	-	-	-	3
1010	SPLC7F254-1-2-3-2-2-B-B-B-B	1510	TL98B-6611-72	Medium	69	67	2.62	2
1011	SPLC7F256-1-2-1-1-1-B-B-B-B	1511	TL98B-6611-73	Poor	-	-	-	3
1012	SPLC7F256-1-2-1-1-2-B-B-B-B	1512	TL98B-6611-74	Poor	67	69	0.65	3
1013	SPLC7F275-1-1-1-1-1-B-B-B-B	1513	TL98B-6611-75	Good	65	67	2.78	2
1014	SPLC7F275-1-1-1-1-2-B-B-B-B	1514	TL98B-6611-76	Good	67	71	2.30	2
1015	SPLC7F275-1-1-1-2-2-B-B-B-B	1515	TL98B-6611-77	Good	69	71	2.30	2
1016	LA POSTA SEQC3-H16-3-2-4-1-1-##-B-B-B-B-B	1518	TL98B-6611-78	Good	67	81	2.20	2
1017	LA POSTA SEQC3-H16-3-2-4-1-2-##-B-B-B-B-B	1517	TL98B-6611-79	Good	67	61	3.16	1
1018	LA POSTA SEQC3-H16-3-2-4-3-2-##-B-B-B-B-B	1518	TL98B-6611-80	Good	67	65	2.30	2
1019	LA POSTA SEQC3-H297-2-1-1-1-2-##-B-B-B-B-B	1516	TL98B-6611-81	Poor	-	-	-	3
1020	LA POSTA SEQC3-H297-2-1-1-1-3-##-B-B-B-B-B	1520	TL98B-6611-82	Good	67	67	2.35	2
1021	LA POSTA SEQC3-H20-4-1-1-2-3-##-B-B-B-B-B	1521	TL98B-6611-83	Good	69	67	2.35	2
1022	LA POSTA SEQC3-H20-4-1-1-2-5-##-B-B-B-B-B	1522	TL98B-6611-84	Good	69	67	2.62	2
1023	LA POSTA SEQC3-H1-2-2-1-2-1-4-##-B-B-B-B-B	1523	TL98B-6611-85	Medium	69	67	3.06	1
1024	LA POSTA SEQC3-H1-2-2-3-1-1-##-B-B-B-B-B	1524	TL98B-6611-86	Medium	69	67	2.30	2
1025	LA POSTA SEQC3-H1-2-2-3-1-3-##-B-B-B-B-B	1525	TL98B-6611-87	Poor	-	-	-	3
1026	LA POSTA SEQC3-H1-2-3-1-1-##-B-B-B-B-B	1526	TL98B-6611-88	Good	67	67	3.16	1
1027	LA POSTA SEQC3-H44-1-1-2-2-1-##-B-B-B-B-B	1527	TL98B-6611-89	Good	67	61	2.20	2
1028	LA POSTA SEQC3-H44-1-1-2-2-1-##-B-B-B-B-B	1528	TL98B-6611-90	Good	67	65	3.08	1
1029	LA POSTA SEQC3-H17-1-2-3-1-1-4-##-B-B-B-B-B	1529	TL98B-6611-91	Good	71	69	2.30	2
1030	LA POSTA SEQC3-H17-1-2-3-2-1-##-B-B-B-B-B	1530	TL98B-6611-92	Good	74	74	2.62	2
1031	LPSC3-36-1-1-2-1-B-B-B-B-B	1531	TL98B-6611-93	Good	69	67	2.62	2
1032	LPSC3-36-1-1-2-1-B-B-B-B-B	1532	TL98B-6611-94	Good	69	71	2.62	2
1033	LPSC3-36-2-1-1-2-B-B-B-B-B	1533	TL98B-6611-95	Good	69	67	2.32	2
1034	LPSC3-36-2-1-1-3-B-B-B-B-B	1534	TL98B-6611-96	Good	-	67	2.35	2
1035	LPSC3-36-2-2-1-B-B-B-B-B	1535	TL98B-6611-97	Good	69	67	2.62	2
1036	LPSC3-40-1-1-1-1-B-B-B-B-B	1536	TL98B-6611-98	Good	74	67	2.22	2
1037	LPSC3-40-1-1-1-2-B-B-B-B-B	1537	TL98B-6611-99	Good	74	79	2.60	2
1038	LPSC3-54-1-2-2-3-B-B-B-B-B	1538	TL98B-6611-100	Good	71	67	2.35	2

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1039	LPSC3-64-2-3-1-2-B-B-B-B	1539	TL98B-6611-101	Good	74	78	2.35	2
1040	LPSC3-64-2-3-2-1-B-B-B-B-B	1540	TL98B-6611-102	Good	74	71	2.62	2
1041	LPSC3-64-2-3-2-2-B-B-B-B-B	1541	TL98B-6611-103	Good	67	70	3.08	2
1042	P43C9-1-1-1-1-1-B-B-B-B	1542	TL98B-6611-104	Poor	-	-	-	3
1043	P43C9-56-1-1-1-2-B-B-B-B-B	1543	TL98B-6611-105	Poor	-	-	-	3
1044	P43C9-56-1-1-1-3-B-B-B-B-B	1544	TL98B-6611-106	Poor	-	-	-	3
1045	P43C9-56-1-1-1-4-B-B-B-B-B	1545	TL98B-6611-107	Poor	-	-	-	3
1046	P43C9-56-1-1-2-1-B-B-B-B-B	1546	TL98B-6611-108	Poor	-	-	-	3
1047	P43C9-56-1-1-2-2-B-B-B-B-B	1547	TL98B-6611-109	Poor	-	-	-	3
1048	P43C9-56-1-2-1-1-B-B-B-B-B	1548	TL98B-6611-110	Poor	-	-	-	3
1049	TS6c1-F228-2-2-3-1-2-#-B-B-B-B-B	1549	TL98B-6611-111	Good	68	71	2.78	2
1050	TS6c1-F118-1-2-3-1-2-#-B-B-B-B-B	1550	TL98B-6611-112	Good	74	67	2.35	2
1051	TS6C2-2-1-1-2-2-B-B-B-B-B	1551	TL98B-6611-113	Good	74	71	2.35	2
1052	TS6C2-30-1-1-1-1-B-B-B-B-B	1552	TL98B-6611-114	Good	-	67	-	3
1053	TS6C2-32-1-1-1-1-B-B-B-B-B	1553	TL98B-6611-115	Good	67	67	2.22	2
1054	TS6C2-43-1-1-2-2-B-B-B-B-B	1554	TL98B-6611-116	Good	67	-	-	3
1055	PZ1MRRSC2-47-1-1-1-1-B-B-B-B-B	1555	TL98B-6611-117	Good	67	64	2.20	2
1056	G26SeqC3-6-2-1-1-2-B-B-B-B-B	1556	TL98B-6611-118	Good	64	61	2.30	2
1057	G26SeqC3-52-1-1-1-1-B-B-B-B-B	1557	TL98B-6611-119	Good	64	61	2.62	2
1058	G26SeqC3-52-1-1-2-2-B-B-B-B-B	1558	TL98B-6611-120	Good	69	61	2.62	2
1059	G26SeqC3-71-1-1-2-1-B-B-B-B-B	1559	TL98B-6611-121	Good	70	-	-	3
1060	G26SeqC3-78-1-2-1-1-B-B-B-B-B	1560	TL98B-6611-122	Good	69	74	2.78	2
1061	G26SeqC3-83-1-1-2-1-B-B-B-B-B	1561	TL98B-6611-123	Good	70	71	2.30	2
1062	G26SeqC3-83-2-1-1-1-B-B-B-B-B	1562	TL98B-6611-124	Good	68	67	2.30	2
1063	G26SeqC2F135-3-3-1-1-1-2-B-B-B-B-B	1563	TL98B-6611-125	Good	68	68	2.20	2
1064	G26SeqC2F135-3-3-2-1-1-1-B-B-B-B-B	1564	TL98B-6611-126	Good	69	67	3.01	1
1065	G26SeqC2F135-3-3-2-3-1-1-B-B-B-B-B	1565	TL98B-6611-127	Poor	-	-	-	3
1066	G26SeqC2F135-3-3-2-3-1-2-B-B-B-B-B	1566	TL98B-6611-128	Good	67	64	2.60	2
1067	G26SeqC2F251-3-2-2-3-1-1-B-B-B-B-B	1567	TL98B-6611-129	Medium	71	-	-	3
1068	CML-226	1568	TL00B-6228-226	Good	67	64	2.35	2
1069	CML-247	1569	TL01B-6624-247	Good	74	71	2.62	2
1070	CML-252	1570	TL00B-6228-252	Good	68	68	3.00	1
1071	CML-254	1571	TL00B-6228-254	Good	68	71	2.20	2
1072	CML-274	1572	TL00B-6228-274	Good	67	71	2.20	2
1073	CML-287	1573	TL00B-6228-287	Good	68	69	3.06	1
1074	CML-300	1574	TL00B-6228-300	Good	61	61	2.20	2
1075	CML-311	1575	TL01B-6624-311	Good	64	68	2.30	2
1076	CML-339	1576	TL01B-6624-12	Good	64	68	2.30	2
1077	CML-340	1577	TL01B-6624-13	Good	68	64	2.62	2
1078	CML-341	1578	TL01B-6624-14	Good	68	71	2.62	2
1079	CML-342	1579	TL01B-6624-15	Good	68	71	2.62	2
1080	CML-343	1580	TL01B-6624-15	Good	68	71	2.32	2
1081	CML-344	1581	TL00B-6228-344	Good	68	71	2.30	2
1082	CML-345	1582	TL00B-6228-345	Good	68	64	2.62	2
1083	CML-346	1583	TL00B-6228-346	Good	61	67	2.78	2
1084	CML-347	1584	TL00B-6228-347	Good	74	71	2.60	2
1085	CML-348	1585	TL00B-6228-348	Good	71	68	2.30	2
1086	CML-405	1586	TL00B-6228-405	Good	68	64	2.35	2
1087	CML-415	1587	TL00B-6228-415	Good	68	64	2.30	2
1088	CML-421	1588	TL00B-6228-421	Good	61	57	3.11	1
1089	CML-422	1589	TL00B-6228-422	Good	61	67	2.30	2
1090	CML-440	1590	TL01A-1185-16	Good	68	64	2.60	2
1091	CML-448	1591	TL01B-6624-448	Good	68	64	2.30	2
1092	CML-449	1592	TL02B-6630	Poor	68	64	0.46	3
1093	CML-451	1593	TL01B-6624-451	Good	68	64	2.30	2
1094	CML-452	1594	TL01A-1185-28	Medium	68	64	2.60	2
1095	CML-444	1595	TL01B-6624-444	Poor	-	-	-	3
1096	CML-442	1596	TL01A-1185-30	Good	68	68	2.78	2

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1097	CL-G1628=G16BNSEQCOP118-1-1-4-2-BB	1597	TL01A-1517-6	Good	61	57	2.35	2
1098	CL-G1632 = G16C20MH44-#3-3-1-B*5	1598	TL01A-1517-8	Good	68	57	2.35	2
1099	CL-G1901 = G19C3H19-1-1-B-2-2-BBBB	1600	TL01A-1517-10	Medium	66	57	2.62	2
1100	CL-04930 = (P49C2MH12-1-4xPR8549-1-1)-1-1-3-BBBB-B	1600	TL01A-1517-10	Good	68	57	2.22	2
1101	CL-04934 = (P49C2MH12-5-4xP23C2-11-1)-2-2-2-BBBB-B	1601	TL01A-1517-4	Good	59	57	2.32	2
1102	CL-P10201 = P102 C6 S2(B)-34-2-BB	1602	TL01A-1517-12	Good	64	51	2.20	2
1103	CL-SPEW01 =SPEC6F74-1-4-1-1-2-B-BBBB	1603	TL01A-1517-13	Good	59	57	3.22	1
1104	CL-04935 = (PR8549-1-1xP23C2-1-1)-5-1-3-B*5	1604	COT00A-403-2	Good	61	57	2.30	2
1105	Pop.SEW-HG*A*c0F8-3-1-1-2-2-5-B	1605	TL99A-1217-69	Good	59	61	2.60	2
1106	89[G32/DRSTEW]#31-1-2-B-B-3-5-2-B-1-2-6-B-B-B	1606	TL02A-1163-55	Good	57	57	2.35	2
1107	89[G32/DRSTEW]#31-1-2-B-B-3-3-1-B-1-4-1-B-B-B	1607	TL02A-1163-50	Good	61	57	2.78	2
1108	89[G32/DRSTEW]#31-1-2-B-B-3-5-2-B-1-1-3-B-B-B	1608	TL02A-1163-52	Good	61	57	2.35	2
1109	89[G32/DRSTEW]#31-1-2-B-B-3-5-2-B-1-1-4-B-B-B	1609	TL02A-1163-53	Good	61	57	2.35	2
1110	89[G33/TEVFTSRPOOL]#91-1-8-B-9-B-B-B	1610	TL2000B-6209-9	Good	61	57	2.62	2
1111	89[G34/AC8536]#88-1-2-B-1-1-2-B	1611	TL2000B-6209-96	Good	61	57	2.22	2
1112	CL-TEWG005	1612	TL99B-6652-1	Good	61	69	2.32	2
1113	Tuxpeño Seq. C8-1-1-#B	1613	TL99A-1691-1	Good	68	71	2.20	2
1114	Tuxpeño Seq. C8-10-1-#B	1614	TL99A-1691-3	Good	68	71	3.02	1
1115	Tuxpeño Seq. C8-20-1-#B	1615	TL99A-1691-6	Poor	61	57	1.02	3
1116	Tuxpeño Seq. C8-24-1-#B	1616	TL99A-1691-7	Good	61	57	2.62	2
1117	Tuxpeño Seq. C8-28-2-#B	1617	TL99A-1691-8	Good	68	57	2.62	2
1118	Tuxpeño Seq. C8-35-1-#B	1618	TL99A-1691-9	Good	68	64	2.32	2
1119	Tuxpeño Seq. C8-39-1-#B	1619	TL99A-1691-10	Good	68	61	2.76	2
1120	Tuxpeño Seq. C8-47-2-#B	1620	TL99A-1691-12	Good	68	68	2.30	2
1121	Tuxpeño Seq. C8-56-1-#B	1621	TL99A-1691-15	Good	61	57	2.30	2
1122	Tuxpeño Seq. C8-59-1-#B	1622	TL99A-1691-14	Good	61	61	2.20	2
1123	Tuxpeño Seq. C8-64-1-#B	1623	TL99A-1691-15	Good	64	61	3.17	1
1124	Tuxpeño Seq. C8-70-1-#B	1624	TL99A-1691-17	Good	74	-	-	3
1125	Tuxpeño Seq. C8-74-1-#B	1625	TL99A-1691-18	Good	71	-	-	3
1126	Tuxpeño Seq. C8-76-2-#B	1626	TL99A-1691-19	Good	71	68	2.35	2
1127	Tuxpeño Seq. C8-79-1-#B	1627	TL99A-1691-20	Good	64	61	2.35	2
1128	Tuxpeño Seq. C8-82-1-#B	1628	TL99A-1691-21	Good	74	-	-	3
1129	Tuxpeño Seq. C8-85-1-#B	1629	TL99A-1691-22	Good	64	64	3.09	1
1130	Tuxpeño Seq. C8-86-2-#B	1630	TL99A-1691-23	Good	68	64	2.30	2
1131	Tuxpeño Seq. C8-88-1-#B	1631	TL99A-1691-24	Good	68	-	-	3
1132	Tuxpeño Seq. C8-89-2-#B	1632	TL99A-1691-25	Good	71	64	3.00	1
1133	Tuxpeño Seq. C8-90-1-#B	1633	TL99A-1691-26	Good	61	64	2.20	2
1134	Tuxpeño Seq. C8-91-1-#B	1634	TL99A-1691-27	Good	68	64	3.23	1
1135	Tuxpeño Seq. C8-93-2-#B	1635	TL99A-1691-28	Good	68	64	2.30	2
1136	Tuxpeño Seq. C8-95-3-#B	1636	TL99A-1691-30	Good	68	64	2.62	2
1137	TS6C3F3-2-3-1-1	1637	PR97A-657-3-1	Good	71	79	2.62	2
1138	TS6C3F3-2-3-2-1	1638	PR97A-657-2-1	Good	71	79	2.62	2
1139	TS6C3F15-3-6-2-1	1639	PR97A-657-7-1	Poor	-	-	-	3
1140	TS6C3F15-3-6-2-2	1640	PR97A-657-7-2	Poor	-	-	-	3
1141	TS6C3F15-3-6-3-1	1641	PR97A-657-8-1	Poor	71	71	2.62	2
1142	TS6C3F15-3-6-3-2	1642	PR97A-657-8-2	Poor	71	68	2.22	2
1143	TS6C3F25-1-4-1-1	1643	PR97A-657-9-1	Good	68	58	2.60	2
1144	TS6C3F29-2-2-1-1	1644	PR97A-657-11-1	Good	-	79	-	3
1145	TS6C3F29-2-2-3-1	1645	PR97A-657-13-1	Good	79	79	2.35	2
1146	TS6C3F29-2-2-3-2	1646	PR97A-657-13-2	Good	-	68	2.62	2

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1147	TS6C3F29-2-2-3-3	1547	PR97A-657-13-3	Good	-	79	-	3
1148	TS6C3F29-2-4-1-1	1548	PR97A-657-15-1	Medium	64	60	2.30	2
1149	TS6C3F29-2-4-1-2	1549	PR97A-657-15-2	Good	68	64	2.60	2
1150	TS6C3F29-2-5-1-1	1550	PR97A-657-16-1	Good	-	68	-	3
1151	TS6C3F31-1-1-1-1	1551	PR97A-657-17-1	Good	68	64	2.30	2
1152	TS6C3F31-1-1-1-2	1552	PR97A-657-18-2	Good	68	64	2.60	2
1153	TS6C3F31-1-1-1-3	1553	PR97A-657-18-3	Good	79	68	2.55	2
1154	TS6C3F31-1-1-2-1	1554	PR97A-657-19-1	Good	-	68	-	3
1155	TS6C3F31-1-1-2-2	1555	PR97A-657-19-2	Good	-	68	-	3
1156	TS6C3F31-1-1-2-3	1556	PR97A-657-19-3	Good	-	64	-	3
1157	TS6C3F31-1-1-3-1	1557	PR97A-657-20-1	Good	64	60	2.35	2
1158	TS6C3F31-1-1-3-2	1558	PR97A-657-20-2	Good	64	60	3.03	1
1159	TS6C3F31-1-1-3-3	1559	PR97A-657-20-3	Good	68	68	2.35	2
1160	TS6C3F31-1-1-4-1	1560	PR97A-657-21-1	Good	68	68	2.35	2
1161	TS6C3F31-1-1-4-2	1561	PR97A-657-21-2	Medium	79	64	2.62	2
1162	TS6C3F31-1-1-4-3	1562	PR97A-657-21-3	Good	64	60	2.22	2
1163	TS6C3F230-1-1-2-1	1563	PR97A-657-25-1	Good	68	68	2.32	2
1164	TS6C3F230-1-1-2-2	1564	PR97A-657-35-1	Poor	-	64	-	3
1165	TS6C3F230-1-1-2-2	1565	PR97A-657-35-2	Poor	-	-	-	3
1166	TS6C3F274-1-1-1-1	1566	PR97A-657-37-1	Poor	-	-	-	3
1167	TS6C3F281-2-4-2-1	1567	PR97A-657-39-1	Poor	-	-	-	3
1168	TS6C3F281-2-4-2-2	1568	PR97A-657-39-2	Medium	64	60	2.35	2
1169	TS6C3F281-2-5-1-1	1569	PR97A-657-42-1	Good	64	64	2.76	2
1170	TS6C3F281-2-5-1-2	1570	PR97A-657-42-2	Good	64	64	2.35	2
1171	TS6C3F281-2-5-1-3	1571	PR97A-657-42-3	Medium	64	60	2.35	2
1172	TS6C3F281-2-5-2-1	1572	PR97A-657-43-1	Good	68	64	2.62	2
1173	TS6C3F281-2-5-2-2	1573	PR97A-657-43-2	Good	68	64	2.22	2
1174	TS6C3F281-2-5-3-1	1574	PR97A-657-44-1	Good	64	60	2.32	2
1175	TS6C3F281-2-5-3-2	1575	PR97A-657-44-2	Good	64	60	2.20	2
1176	TS6C3F281-2-5-4-1	1576	PR97A-657-45-1	Good	64	58	3.12	1
1177	TS6C3F281-2-5-4-2	1577	PR97A-657-45-2	Good	64	64	2.30	2
1178	TS6C3F281-2-5-4-3	1578	PR97A-657-45-3	Poor	68	71	-	3
1179	LPSC4F7-1-2-1	1579	PR95B-5649-3-1	Poor	-	-	-	3
1180	LPSC4F7-1-2-2	1580	PR95B-5649-3-2	Poor	-	-	-	3
1181	LPSC4F40-3-2-1	1581	PR95B-5649-6-1	Good	68	64	2.62	2
1182	LPSC4F52-2-1-1	1582	PR95B-5649-7-1	Poor	-	-	-	3
1183	LPSC4F54-2-2-1	1583	PR95B-5649-8-1	Poor	-	-	-	3
1184	LPSC4F90-1-1-1	1584	PR95B-5649-10-1	Poor	-	-	-	3
1185	LPSC4F100-1-2-1	1585	PR95B-5649-11-1	Good	64	58	2.90	2
1186	LPSC4F100-1-2-2	1586	PR95B-5649-13-2	Poor	64	60	2.20	2
1187	LPSC4F140-1-1-1	1587	PR95B-5649-17-1	Good	68	64	3.07	1
1188	LPSC4F145-1-1-1	1588	PR95B-5649-19-1	Good	64	64	2.30	2
1189	LPSC4F145-2-1-1	1589	PR95B-5649-21-1	Good	68	64	2.60	2
1190	LPSC4F158-1-2-1	1590	PR95B-5649-25-1	Good	68	64	2.35	2
1191	LPSC4F158-1-2-2	1591	PR95B-5649-25-2	Poor	68	64	2.35	2
1192	LPSC4F160-3-1-1	1592	PR95B-5649-27-1	Poor	-	-	-	3
1193	LPSC4F173-2-2-1	1593	PR95B-5649-31-1	Poor	-	-	-	3
1194	LPSC4F173-2-2-2	1594	PR95B-5649-32-2	Poor	-	-	-	3
1195	LPSC4F173-2-2-3	1595	PR95B-5649-32-3	Poor	-	-	-	3
1196	LPSC4F205-1-1-1	1596	PR95B-5649-36-1	Poor	-	-	-	3
1197	LPSC4F205-1-4-1	1597	PR95B-5649-39-1	Poor	68	64	2.20	2
1198	LPSC4F205-1-4-2	1598	PR95B-5649-39-2	Poor	68	64	3.06	1
1199	LPSC4F273-2-2-1	1599	PR95B-5649-41-1	Good	64	60	2.30	2
1200	LPSC4F273-2-2-2	1700	PR95B-5649-49-2	Poor	64	60	2.62	2
1201	LPSC4F273-2-2-3	1701	PR95B-5649-49-3	Poor	68	60	2.62	2
1202	La Posta Seq C7-F10-3-1	1702	TL2000B-6607-1-1	Good	64	60	2.62	2
1203	La Posta Seq C7-F10-3-2	1703	TL2000B-6607-1-2	Good	64	58	2.32	2
1204	La Posta Seq C7-F10-3-3	1704	TL2000B-6607-1-3	Good	64	58	2.35	2
1205	La Posta Seq C7-F10-3-4	1705	TL2000B-6607-1-4	Good	58	58	2.62	2

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1206	La Posta Seq C7-F12-2-1	1706	TL2000B-6607-2-1	Good	58	58	2.22	2
1207	La Posta Seq C7-F12-2-2	1707	TL2000B-6607-2-2	Good	58	58	2.60	2
1208	La Posta Seq C7-F12-2-3	1708	TL2000B-6607-2-3	Good	58	58	2.35	2
1209	La Posta Seq C7-F18-3-1	1709	TL2000B-6607-3-1	Good	58	58	2.35	2
1210	La Posta Seq C7-F18-3-2	1710	TL2000B-6607-3-2	Good	58	58	2.62	2
1211	La Posta Seq C7-F18-3-3	1711	TL2000B-6607-3-3	Good	64	58	3.33	1
1212	La Posta Seq C7-F31-2-1	1712	TL2000B-6607-4-1	Good	64	58	2.30	2
1213	La Posta Seq C7-F31-2-2	1713	TL2000B-6607-4-2	Good	58	58	2.60	2
1214	La Posta Seq C7-F31-2-3	1714	TL2000B-6607-4-3	Good	58	58	2.35	2
1215	La Posta Seq C7-F31-2-4	1715	TL2000B-6607-4-4	Good	58	58	2.30	2
1216	La Posta Seq C7-F32-1-1	1716	TL2000B-6607-5-1	Good	64	60	2.60	2
1217	La Posta Seq C7-F32-1-2	1717	TL2000B-6607-5-2	Good	64	60	2.35	2
1218	La Posta Seq C7-F32-1-3	1718	TL2000B-6607-5-3	Good	58	58	3.16	1
1219	La Posta Seq C7-F32-1-4	1719	TL2000B-6607-5-4	Good	58	58	2.30	2
1220	La Posta Seq C7-F32-2-1	1720	TL2000B-6607-6-1	Good	68	64	2.60	2
1221	La Posta Seq C7-F32-3-1	1721	TL2000B-6607-7-1	Good	58	58	2.36	2
1222	La Posta Seq C7-F32-3-2	1722	TL2000B-6607-7-2	Medium	58	58	2.78	2
1223	La Posta Seq C7-F33-1-1	1723	TL2000B-6607-8-1	Good	58	58	2.35	2
1224	La Posta Seq C7-F33-1-2	1724	TL2000B-6607-8-2	Good	58	58	2.62	2
1225	La Posta Seq C7-F33-1-3	1725	TL2000B-6607-8-3	Good	58	58	2.22	2
1226	La Posta Seq C7-F33-1-4	1726	TL2000B-6607-8-4	Good	58	58	2.32	2
1227	La Posta Seq C7-F33-1-5	1727	TL2000B-6607-8-5	Good	68	58	2.20	2
1228	La Posta Seq C7-F55-2-1	1728	TL2000B-6607-9-1	Good	58	58	3.01	1
1229	La Posta Seq C7-F55-2-2	1729	TL2000B-6607-9-2	Good	58	58	2.30	2
1230	La Posta Seq C7-F55-3-1	1730	TL2000B-6607-10-1	Good	64	58	2.60	2
1231	La Posta Seq C7-F55-3-2	1731	TL2000B-6607-10-2	Good	58	58	2.36	2
1232	La Posta Seq C7-F64-1-1	1732	TL2000B-6607-11-1	Good	58	58	2.78	2
1233	La Posta Seq C7-F64-1-2	1733	TL2000B-6607-11-2	Good	64	60	2.36	2
1234	La Posta Seq C7-F64-1-3	1734	TL2000B-6607-11-3	Good	58	58	2.35	2
1235	La Posta Seq C7-F64-2-1	1735	TL2000B-6607-12-1	Good	58	58	2.62	2
1236	La Posta Seq C7-F64-2-2	1736	TL2000B-6607-12-2	Good	58	58	2.22	2
1237	La Posta Seq C7-F64-2-3	1737	TL2000B-6607-12-3	Good	64	60	2.32	2
1238	La Posta Seq C7-F64-2-4	1738	TL2000B-6607-12-4	Good	58	58	2.20	2
1239	La Posta Seq C7-F64-2-5	1739	TL2000B-6607-12-5	Good	68	58	3.07	1
1240	La Posta Seq C7-F64-2-6	1740	TL2000B-6607-12-6	Good	64	58	2.30	2
1241	La Posta Seq C7-F64-2-7	1741	TL2000B-6607-12-7	Good	64	58	2.62	2
1242	La Posta Seq C7-F64-2-8	1742	TL2000B-6607-12-8	Good	58	58	2.62	2
1243	La Posta Seq C7-F64-2-9	1743	TL2000B-6607-12-9	Good	58	58	2.62	2
1244	La Posta Seq C7-F67-3-1	1744	TL2000B-6607-13-1	Good	-	-	-	3
1245	La Posta Seq C7-F67-3-2	1745	TL2000B-6607-13-2	Good	64	60	2.32	2
1246	La Posta Seq C7-F71-1-1	1746	TL2000B-6607-14-1	Good	64	60	2.78	2
1247	La Posta Seq C7-F71-1-2	1747	TL2000B-6607-14-2	Good	64	64	-	3
1248	La Posta Seq C7-F71-1-3	1748	TL2000B-6607-14-3	Good	68	64	2.30	2
1249	La Posta Seq C7-F71-1-4	1749	TL2000B-6607-14-4	Good	64	64	-	3
1250	La Posta Seq C7-F71-1-5	1750	TL2000B-6607-14-5	Good	-	68	-	3
1251	La Posta Seq C7-F71-1-6	1751	TL2000B-6607-14-6	Good	64	60	3.08	1
1252	La Posta Seq C7-F78-2-1	1752	TL2000B-6607-15-1	Good	64	58	2.60	2
1253	La Posta Seq C7-F78-2-2	1753	TL2000B-6607-15-2	Good	68	64	2.20	2
1254	La Posta Seq C7-F78-2-3	1754	TL2000B-6607-15-3	Good	64	64	2.97	1
1255	La Posta Seq C7-F79-2-1	1755	TL2000B-6607-16-1	Good	68	64	2.20	2
1256	La Posta Seq C7-F79-3-1	1756	TL2000B-6607-17-1	Good	68	64	2.98	1
1257	La Posta Seq C7-F79-3-2	1757	TL2000B-6607-17-2	Medium	-	-	-	3
1258	La Posta Seq C7-F79-3-3	1758	TL2000B-6607-17-3	Good	68	64	2.62	2
1259	La Posta Seq C7-F79-3-4	1759	TL2000B-6607-17-4	Good	68	64	2.62	2
1260	La Posta Seq C7-F79-3-5	1760	TL2000B-6607-17-5	Good	-	64	-	3
1261	La Posta Seq C7-F79-3-6	1761	TL2000B-6607-17-6	Good	68	60	2.32	2
1262	La Posta Seq C7-F79-3-7	1762	TL2000B-6607-17-7	Good	64	60	2.35	2
1263	La Posta Seq C7-F80-2-1	1763	TL2000B-6607-18-1	Good	64	58	2.62	2
1264	La Posta Seq C7-F80-2-2	1764	TL2000B-6607-18-2	Good	64	60	2.22	2

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1265	La Posta Seq C7-F80-2-3	1765	TL2000B-6607-18-3	Good	64	60	2.60	2
1266	La Posta Seq C7-F80-2-4	1766	TL2000B-6607-18-4	Good	58	58	2.35	2
1267	La Posta Seq C7-F80-2-5	1767	TL2000B-6607-18-5	Good	64	60	2.35	2
1268	La Posta Seq C7-F86-1-1	1768	TL2000B-6607-19-1	Good	54	60	2.62	2
1269	La Posta Seq C7-F86-3-1	1769	TL2000B-6607-20-1	Good	64	60	3.12	1
1270	La Posta Seq C7-F96-1-1	1770	TL2000B-6607-20-2	Good	58	58	2.30	2
1271	La Posta Seq C7-F96-1-2	1771	TL2000B-6607-21-1	Good	58	58	2.60	2
1272	La Posta Seq C7-F96-1-3	1772	TL2000B-6607-21-3	Good	64	60	2.35	2
1273	La Posta Seq C7-F96-1-4	1773	TL2000B-6607-21-4	Good	60	58	2.30	2
1274	La Posta Seq C7-F96-1-5	1774	TL2000B-6607-21-5	Good	60	58	2.60	2
1275	La Posta Seq C7-F96-1-6	1775	TL2000B-6607-21-6	Good	60	58	2.35	2
1276	La Posta Seq C7-F97-2-1	1776	TL2000B-6607-22-1	Good	58	58	3.02	1
1277	La Posta Seq C7-F97-2-2	1777	TL2000B-6607-22-2	Good	64	58	2.30	2
1278	La Posta Seq C7-F97-3-1	1778	TL2000B-6607-23-1	Good	64	58	2.60	2
1279	La Posta Seq C7-F97-3-2	1779	TL2000B-6607-23-2	Good	64	58	2.35	2
1280	La Posta Seq C7-F97-3-3	1780	TL2000B-6607-23-3	Good	64	58	2.78	2
1281	La Posta Seq C7-F102-1-1	1781	TL2000B-6607-24-1	Good	64	58	2.35	2
1282	La Posta Seq C7-F102-1-2	1782	TL2000B-6607-24-2	Good	58	58	2.62	2
1283	La Posta Seq C7-F102-1-3	1783	TL2000B-6607-24-3	Good	60	68	2.22	2
1284	La Posta Seq C7-F103-1-1	1784	TL2000B-6607-25-1	Good	58	58	2.32	2
1285	La Posta Seq C7-F103-1-2	1785	TL2000B-6607-25-2	Good	58	58	2.62	2
1286	La Posta Seq C7-F103-2-1	1786	TL2000B-6607-26-1	Good	58	58	2.62	2
1287	La Posta Seq C7-F103-2-2	1787	TL2000B-6607-26-2	Poor	68	60	0.36	3
1288	La Posta Seq C7-F103-2-3	1788	TL2000B-6607-26-3	Good	58	58	2.78	2
1289	La Posta Seq C7-F103-2-4	1789	TL2000B-6607-26-4	Good	58	58	2.30	2
1290	La Posta Seq C7-F103-2-5	1790	TL2000B-6607-26-5	Good	60	58	2.30	2
1291	La Posta Seq C7-F103-2-6	1791	TL2000B-6607-26-6	Good	68	58	2.20	2
1292	La Posta Seq C7-F103-3-1	1792	TL2000B-6607-27-1	Good	68	58	3.11	1
1293	La Posta Seq C7-F103-3-2	1793	TL2000B-6607-27-2	Good	64	58	2.30	2
1294	La Posta Seq C7-F103-3-3	1794	TL2000B-6607-27-3	Good	64	58	2.60	2
1295	La Posta Seq C7-F103-3-4	1795	TL2000B-6607-27-4	Good	64	58	2.20	2
1296	La Posta Seq C7-F103-3-5	1796	TL2000B-6607-27-5	Good	60	58	3.22	1
1297	La Posta Seq C7-F109-2-1	1797	TL2000B-6607-28-1	Good	60	58	2.20	2
1298	La Posta Seq C7-F123-3-1	1798	TL2000B-6607-29-1	Good	58	58	3.08	1
1299	La Posta Seq C7-F123-3-2	1799	TL2000B-6607-29-2	Good	54	68	2.30	2
1300	La Posta Seq C7-F124-2-1	1800	TL2000B-6607-30-1	Good	60	58	2.62	2
1301	La Posta Seq C7-F124-2-2	1801	TL2000B-6607-30-2	Good	60	58	2.62	2
1302	La Posta Seq C7-F124-2-3	1802	TL2000B-6607-30-3	Good	64	58	2.62	2
1303	La Posta Seq C7-F124-3-1	1803	TL2000B-6607-31-1	Good	68	58	2.32	2
1304	La Posta Seq C7-F124-3-2	1804	TL2000B-6607-31-2	Good	64	58	2.35	2
1305	La Posta Seq C7-F124-3-3	1805	TL2000B-6607-31-3	Good	60	58	2.62	2
1306	La Posta Seq C7-F125-1-1	1806	TL2000B-6607-32-1	Good	58	58	2.22	2
1307	La Posta Seq C7-F125-1-2	1807	TL2000B-6607-32-2	Good	60	58	2.60	2
1308	La Posta Seq C7-F125-1-3	1808	TL2000B-6607-32-3	Good	60	58	2.35	2
1309	La Posta Seq C7-F125-2-1	1809	TL2000B-6607-33-1	Good	64	68	2.22	2
1310	La Posta Seq C7-F125-2-2	1810	TL2000B-6607-33-2	Good	58	58	2.62	2
1311	La Posta Seq C7-F125-2-3	1811	TL2000B-6607-33-3	Good	58	68	3.25	1
1312	La Posta Seq C7-F125-2-4	1812	TL2000B-6607-33-4	Good	58	58	2.30	2
1313	La Posta Seq C7-F144-1-1	1813	TL2000B-6607-34-1	Good	56	58	2.60	2
1314	La Posta Seq C7-F144-1-2	1814	TL2000B-6607-34-2	Good	60	58	2.35	2
1315	La Posta Seq C7-F152-1-1	1815	TL2000B-6607-35-1	Good	58	58	2.30	2
1316	La Posta Seq C7-F152-1-2	1816	TL2000B-6607-35-2	Medium	60	58	2.60	2
1317	La Posta Seq C7-F152-3-1	1817	TL2000B-6607-36-1	Poor	68	68	2.35	2
1318	La Posta Seq C7-F153-1-1	1818	TL2000B-6607-37-1	Good	57	58	2.30	2
1319	La Posta Seq C7-F153-1-2	1819	TL2000B-6607-37-2	Good	57	58	2.30	2
1320	La Posta Seq C7-F155-1-1	1820	TL2000B-6607-38-1	Good	60	57	2.20	2
1321	La Posta Seq C7-F155-1-2	1821	TL2000B-6607-38-2	Good	57	58	2.60	1
1322	La Posta Seq C7-F174-1-1	1822	TL2000B-6607-39-1	Good	68	60	2.20	2
1323	La Posta Seq C7-F174-1-2	1823	TL2000B-6607-39-2	Good	68	60	3.25	1

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1324	La Posta Seq C7-F174-1-3	1824	TL2000B-6607-39-3	Good	60	58	2.30	2
1325	La Posta Seq C7-F174-3-1	1825	TL2000B-6607-40-1	Good	57	56	2.62	2
1326	La Posta Seq C7-F174-3-2	1826	TL2000B-6607-40-2	Good	57	56	2.62	2
1327	La Posta Seq C7-F179-3-1	1827	TL2000B-6607-41-1	Good	60	56	2.62	2
1328	La Posta Seq C7-F179-3-2	1828	TL2000B-6607-41-2	Good	60	56	2.32	2
1329	La Posta Seq C7-F179-3-3	1829	TL2000B-6607-41-3	Good	68	56	2.35	2
1330	La Posta Seq C7-F179-3-4	1830	TL2000B-6607-41-4	Good	68	56	2.62	2
1331	La Posta Seq C7-F180-1-1	1831	TL2000B-6607-42-1	Good	56	56	2.22	2
1332	La Posta Seq C7-F180-1-2	1832	TL2000B-6607-42-2	Good	56	56	2.60	2
1333	La Posta Seq C7-F180-1-3	1833	TL2000B-6607-42-3	Good	56	56	2.35	2
1334	La Posta Seq C7-F180-3-1	1834	TL2000B-6607-43-1	Good	60	58	2.35	2
1335	La Posta Seq C7-F180-3-2	1835	TL2000B-6607-43-2	Good	60	56	2.62	2
1336	La Posta Seq C7-F182-1-1	1836	TL2000B-6607-44-1	Good	60	56	3.08	1
1337	La Posta Seq C7-F183-2-1	1837	TL2000B-6607-45-1	Good	60	56	2.30	2
1338	La Posta Seq C7-F183-2-2	1838	TL2000B-6607-45-2	Good	56	56	3.09	1
1339	La Posta Seq C7-F183-2-3	1839	TL2000B-6607-45-3	Good	60	60	2.35	2
1340	La Posta Seq C7-F196-1-1	1840	TL2000B-6607-46-1	Good	68	60	2.60	2
1341	La Posta Seq C7-F196-1-2	1841	TL2000B-6607-46-2	Good	68	56	2.20	2
1342	La Posta Seq C7-F219-1-1	1842	TL2000B-6607-47-1	Good	60	56	3.16	1
1343	La Posta Seq C7-F219-1-2	1843	TL2000B-6607-47-2	Good	60	56	2.20	2
1344	La Posta Seq C7-F219-1-3	1844	TL2000B-6607-47-3	Good	60	56	3.08	1
1345	La Posta Seq C7-F220-4-1	1845	TL2000B-6607-48-1	Good	60	58	2.30	2
1346	La Posta Seq C7-F220-4-2	1846	TL2000B-6607-48-2	Good	60	56	2.62	2
1347	La Posta Seq C7-F220-4-3	1847	TL2000B-6607-48-3	Good	60	56	2.62	2
1348	La Posta Seq C7-F233-1-1	1848	TL2000B-6607-49-1	Good	56	56	2.62	2
1349	La Posta Seq C7-F236-1-1	1849	TL2000B-6607-50-1	Good	56	56	2.32	2
1350	La Posta Seq C7-F236-1-2	1850	TL2000B-6607-50-2	Good	56	56	2.35	2

Table 50 : Effect of excessive moisture stress at germination & early seedling stage during cup screening on germination and growth parameter of different maize inbred lines.

Entry No.	PEDIGREE	Germination (%)		Survival (%)		Shoot DW (g/plant)		Root DW (g/plant)		No. of Adv. Roots	
		NM	WL	NM	WL	NM	WL	NM	WL	NM	WL
1	(P3466C4S2B-46-2-3FR)-B-3	100	16.7	100	16.7	0.33	0.24	0.24	0.11	9.0	11.0
2	AMATLCOHS44-1-2E-4-5-2-3	100	91.7	100	83.3	0.48	0.38	0.31	0.22	12.0	13.0
3	AMATLCOHS44-1-2E-4-5-2-3	100	91.7	100	91.7	0.45	0.29	0.32	0.23	11.0	16.0
4	AMATLCOHS44-1-2E-4-5-2-3	100	83.3	100	83.3	150.00	0.38	0.24	0.19	9.0	13.0
5	AMATLCOHS92-1-1-3E-4-3-1-B	100	83.3	100	75.0	0.53	0.39	0.32	0.24	11.0	18.0
6	AMATLCOHS92-1-1-3E-4-3-1-B	100	83.3	100	83.3	0.44	0.29	0.28	0.19	13.0	19.0
7	CML-116-B-8	100	66.7	100	41.7	0.49	0.12	0.19	0.16	11.0	14.0
8	AMATLCOHS92-1-1-3E-4-3-1-B	100	33.3	100	25.0	105.00	0.00	0.38	0.21	13.0	6.0
9	KSX3801F2-5-2-1-B-8	100	91.7	100	83.3	0.42	0.34	0.22	0.17	8.0	16.0
10	CML-101 (MS)-1	100	83.3	100	75.0	0.45	0.34	0.24	0.16	14.0	22.0
11	CML 327	100	91.7	100	83.3	0.62	0.46	0.35	0.24	10.0	17.0
12	WCL-xx-x	100	100.0	100	83.3	105.00	0.54	0.23	0.19	16.0	17.0
13	WLB-xx-1	100	83.3	100	75.0	0.33	0.23	0.19	0.16	12.0	16.0
14	WLB-xx-1	100	16.7	100	75.0	0.38	0.11	0.20	0.19	11.0	11.0
15	WL10-xx-2	100	83.3	100	75.0	0.31	0.24	0.17	0.13	9.0	17.0
16	WL10-xx-2	100	91.7	100	66.7	150.00	0.28	0.21	0.16	13.0	14.0
17	WL11-xx-1	100	83.3	100	75.0	0.42	0.33	0.29	0.15	9.0	16.0
18	WL11-xx-1	100	91.7	100	83.3	0.52	0.28	0.31	0.22	15.0	17.0
19	WL11-xx-4	100	100.0	100	33.3	0.41	0.35	0.27	0.19	11.0	16.0
20	WLB-xx-1	100	33.3	100	33.3	0.47	0.19	0.30	0.16	10.0	13.0
21	WL14-xx-1	100	91.7	100	91.7	0.39	0.32	0.28	0.19	9.0	16.0
22	WLB-xx-2	100	76.0	100	76.0	0.36	0.28	0.19	0.13	12.0	16.0

23	WL16-x-x-1	100	41.7	100	16.7	0.49	0.16	0.29	0.21	11.0	10.0
24	WL16-x-x-2	100	100.0	100	105.0	120.00	0.35	0.56	0.25	10.0	14.0
25	WL18-x-x-4	100	91.7	100	83.3	120.00	0.19	0.18	0.14	7.0	14.0
26	WL19-x-x-6	100	100.0	100	83.3	0.59	0.27	0.19	0.16	0.0	16.0
27	WL20-x-x	100	58.3	100	16.7	0.42	0.19	0.26	0.18	0.0	18.0
28	WL21-x-x-1	100	100.0	100	83.3	0.49	0.19	0.24	0.22	11.0	13.0
29	WL26-x-x-3	100	100.0	100	41.7	0.51	0.42	0.25	0.15	10.0	14.0
30	WL26-x-x-4	100	100.0	100	58.3	0.42	0.20	0.20	0.14	13.0	15.0
31	WL26-x-x-2	100	100.0	100	58.3	150.00	0.20	0.23	0.14	13.0	15.0
32	WL26-x-x-3	100	100.0	100	75.0	0.42	0.24	0.20	0.19	11.0	15.0
33	WL30-x-x-1	100	83.3	100	75.0	0.42	0.32	0.23	0.17	12.0	15.0
34	WL30-x-x-2	100	100.0	100	58.3	0.42	0.36	0.24	0.18	13.0	18.0
35	WL36-x-x-2	100	100.0	100	58.3	0.42	0.36	0.24	0.18	13.0	18.0
36	WL36-x-x-3	100	100.0	100	58.3	0.42	0.36	0.24	0.18	13.0	18.0
37	WL36-x-x-6	100	50.0	100	50.0	0.51	0.12	0.34	0.10	12.0	21.0
38	5406-119P28TSR-(S2)-3-1 2-2-B-##-988B-6-B	100	83.3	100	58.3	0.51	0.29	0.22	0.13	8.0	0.0
39	5406-119P28TSR-(S2)-3-1 2-2-B-##-988B-6-B	100	100.0	100	65.3	0.51	0.21	0.22	0.10	11.0	0.0
40	5406-119P28TSR-(S2)-3-1 2-2-B-##-988B-6-B	100	100.0	100	65.3	0.51	0.21	0.22	0.10	11.0	0.0
41	P15 TSR MI-2B-1-1-3-# BBB88B	100	21.3	100	100.0	0.62	0.00	0.45	0.00	11.0	17.0
42	P15 TSR MI-2B-1-1-3-# BBB88B	100	100.0	100	65.3	0.51	0.00	0.22	0.00	7.0	17.0
	Mean	100.0	74.78	100.0	65.48	21.80	0.24	0.26	0.16	10.50	14.76
	LSD (p = 0.05)	G	9.6	10.3	0.043	0.033	3.16				
	E	8.9	9.8	0.039	2.56						
	G x E	11.2	13.5	0.056	3.59						
	CV (%)	12.3	18.3	51.6	56.3						

Table 51: Effect of excessive moisture stress at germination & early seedling stage during cup screening on various biochemical parameter of different maize inbred lines.

Entry No.	PEDIGREE	Chl. 'a' (mg/g)		Chl. 'b' (mg/g)		Total Chl. (mg/g)		Total sugar in leaf (mg/g)		Total starch in leaf (mg/g)		Ethanol unsolv/g FW		Aldehyde ppm/g root/ml		ADH-activity in root (unit/mg protein)	
		C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W
1	IP3455C4S2B-46-2-3(FR)-B-3	3.02	1.25	2.34	0.85	4.59	2.23	20.03	10.00	0.0	0.0	2.2	33.0	0.01	24.00	0.02	128.60
3	AMATLCOHS44-1-1-2E-4 S-2-B	5.23	4.20	3.03	1.26	8.71	5.71	10.03	3.56	0.0	0.0	2.0	45.0	0.03	29.00	0.02	136.47
5	AMATLCOHS92-1-1-3E-4 3-1-B	3.25	4.38	0.79	1.41	4.23	6.06	12.08	6.12	0.0	0.0	4.3	53.0	0.03	39.00	0.05	101.72
7	CML-116-B-B	2.97	4.02	1.25	1.13	5.67	5.39	16.08	10.24	0.0	0.0	4.2	49.0	0.02	12.00	0.01	10.98
9	KSX3601F2-5-2-1-B-B	5.22	2.96	1.54	0.74	6.88	3.82	21.05	13.26	0.0	0.0	2.1	42.0	0.02	34.00	0.01	82.83
11	CML 327	5.26	3.23	3.02	0.88	8.73	4.30	16.25	9.52	0.0	0.0	2.1	62.0	0.00	46.00	0.02	120.65
13	WL8-x-x-1	5.15	3.86	2.16	1.08	7.69	5.17	11.23	6.00	0.0	0.0	0.9	33.0	0.00	23.00	0.02	266.28
15	WL10-x-x-2	2.99	3.11	0.48	0.92	3.61	4.22	16.24	9.56	0.0	0.0	0.8	31.0	0.02	24.00	0.01	93.14
16	WL10-x-x-3	5.26	3.63	3.44	0.96	9.19	4.79	16.24	5.09	0.0	0.0	2.1	33.4	0.03	29.00	0.03	147.61

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17	WL11-x-x-1	5.02	1.01	1.89	0.29	7.39	1.37	18.24	7.00	0.0	0.0	1.3	42.0	0.04	33.00	0.01	157.53
18	WL11-x-x-3	3.09	3.36	0.94	0.92	4.22	4.48	14.56	6.90	0.0	0.0	0.7	52.0	0.03	26.00	0.06	112.43
19	WL11-x-x-4	4.09	2.76	1.37	0.79	5.73	3.72	16.20	5.40	0.0	0.0	0.0	41.0	0.02	35.00	0.02	0.00
20	WL12-x-x-1	4.33	2.88	1.31	0.72	5.91	3.55	14.08	6.29	0.0	0.0	3.1	46.5	0.02	13.00	0.02	0.00
21	WL14-x-x-1	4.91	2.48	1.89	0.58	7.14	3.19	18.07	11.06	0.0	0.0	2.0	39.0	0.02	32.00	0.03	233.16
22	WL15-x-x-2	5.02	3.36	2.24	0.49	7.62	2.42	21.04	7.96	0.0	0.0	0.7	36.0	0.00	28.50	0.06	#REF!
23	WL16-x-x-1	4.40	3.61	1.20	0.95	5.86	4.77	14.05	3.00	0.0	0.0	0.4	49.0	0.01	16.00	0.02	0.00
24	WL18-x-x-3	2.73	3.0	0.90	1.00	3.50	4.29	11.16	6.00	0.0	0.0	1.1	29.8	0.02	35.00	0.02	#REF!
25	WL18-x-x-4	4.18	0.00	1.30	0.00	5.74	0.00	12.36	6.21	0.0	0.0	0.5	34.3	0.00	19.00	0.00	123.25
26	WL18-x-x-5	5.05	3.05	2.29	1.29	6.24	4.97	15.05	5.25	0.0	0.0	0.8	39.0	0.00	27.90	0.00	123.65
27	WL26-x-x	5.23	1.24	3.63	0.27	9.38	1.56	14.05	5.29	0.0	0.0	1.3	42.0	0.00	19.00	0.00	0.00
28	WL26-x-x-2	4.34	3.36	1.90	1.18	6.24	5.42	16.02	10.23	0.0	0.0	2.1	49.0	0.00	18.00	0.03	892.70
29	WL28-x-x-3	4.99	4.84	2.51	1.74	7.90	6.89	11.23	8.02	0.0	0.0	1.3	51.0	0.00	42.00	0.02	131.25
30	WL28-x-x-4	5.17	3.36	2.56	1.69	8.16	6.42	19.24	6.25	0.0	0.0	0.7	39.0	0.00	26.00	0.02	113.81
31	WL28-x-x-2	4.23	2.38	2.15	1.09	3.27	2.89	12.34	7.15	0.0	0.0	1.1	23.3	0.00	20.00	0.05	88.27
32	WL30-x-x-3	3.44	3.36	2.29	2.12	4.60	5.39	10.29	4.06	0.0	0.0	3.2	38.0	0.00	24.00	0.04	146.06
33	WL30-x-x-1	5.04	4.70	2.05	1.49	7.44	6.49	16.23	7.06	0.0	0.0	1.3	42.0	0.00	32.00	0.02	95.74
34	WL30-x-x-2	5.16	3.36	3.65	0.93	6.44	4.40	18.26	10.02	0.0	0.0	2.2	46.0	0.00	0.00	0.03	75.60
35	WL36-x-x-2	4.09	5.27	2.83	1.05	7.32	7.75	14.26	8.05	0.0	0.0	2.1	42.0	0.00	37.50	0.01	88.78
36	WL36-x-x-1	4.61	3.02	1.78	1.16	8.90	5.43	15.82	7.16	0.0	0.0	1.3	48.0	0.00	9.00	0.03	72.27
37	WL36-x-x-8	5.07	2.78	2.40	0.73	7.87	3.67	12.36	6.58	0.0	0.0	2.1	51.0	0.00	12.00	0.04	82.46
38	WL36-x-x-7	4.01	4.43	1.21	1.37	6.60	6.08	14.69	6.90	0.0	0.0	0.9	49.0	0.00	33.00	0.01	110.91

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Table 52: Performance of Inbred lines under flowering stage drought stress, exposed to drought stress under rain-shelter during Kharif-2003 at Delhi

Entry	Pedigree	Plant height (cm)	Ear height (cm)	Chlorophyll-I	Chlorophyll-II	Anthesis (d)	Silking (d)	ASI (days)	Ears per plant	Grain yield (t/ha)
16	.5406-119P28TSR-(S2)-3-1-2-2-B-###-BBBB-b-B	84.5	25.9	46.9	35.0	67.5	71.2	3.7	1.1	1.32
7	CM 117-4	127.3	60.4	55.7	43.9	46.0	49.0	3.0	0.8	1.25
6	KSX3601F2-5-2-1-B-B	112.2	71.6	53.6	46.0	55.0	55.5	0.5	0.9	1.21
42	DT/LN/EM22	111.7	63.8	57.5	54.5	51.0	52.0	1.0	1.3	1.14
8	CML 327	180.1	86.2	59.5	50.4	52.0	53.5	1.5	0.6	1.13
15	(CML159 CML144)	116.4	33.8	51.8	40.1	60.5	64.5	4.0	0.9	1.12
34	DT/LN/EM14	96.3	39.4	51.2	43.7	49.5	55.5	6.0	1.0	1.11
27	DT/LN/EM7	147.9	71.5	51.5	48.7	52.0	52.0	0.0	0.8	1.06
17	.5406-119P28TSR-(S2)-3-1-2-3-B-###-BBBB-b-B	86.4	41.4	44.1	41.1	71.0	75.3	4.3	0.8	1.04
25	DT/LN/EM5	124.1	63.8	53.3	47.2	53.0	54.0	1.0	0.9	1.03
33	DT/LN/EM13	113.4	48.4	53.2	49.6	56.5	56.5	0.0	0.8	0.90
18	LETY-6804 PLOT-28 ENT-90	99.5	39.9	49.9	37.1	68.0	71.3	3.3	0.7	0.89
4	PIO.301 1F2-3-5-3-B-B	114.2	53.0	49.7	32.8	58.5	57.5	-1.0	0.5	0.85
5	CML-116-B-B	140.4	66.6	53.3	40.5	54.0	54.0	0.0	0.7	0.83
23	DT/LN/EM3	144.1	68.8	46.9	46.2	56.0	57.5	1.5	0.5	0.75
39	DT/LN/EM19	122.0	72.4	49.0	39.9	55.0	56.5	1.5	0.8	0.74
22	DT/LN/EM2	136.8	71.3	56.1	43.5	58.0	61.0	3.0	0.4	0.69
35	DT/LN/EM15	121.8	50.6	49.3	40.1	58.5	58.5	0.0	0.7	0.62
28	DT/LN/EM8	132.7	62.4	47.2	48.1	56.5	59.0	2.5	0.3	0.59
41	DT/LN/EM21	87.9	57.6	42.6	39.4	53.0	54.0	1.0	0.5	0.56
44	DT/LN/EM24	122.4	59.9	51.3	47.5	54.5	56.5	2.0	0.8	0.53
1	(P3455C4S2B-46-2-3F/R)-B-3	130.5	68.2	48.7	43.8	59.5	66.0	6.5	0.6	0.51
32	DT/LN/EM12	96.4	54.5	50.8	47.8	58.0	63.0	5.0	0.4	0.51

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37	DT/LN/EM17	114.6	51.4	46.3	37.9	54.0	55.0	1.0	0.9	0.47
24	DT/LN/EM4	135.8	70.4	54.8	45.4	51.0	51.0	0.0	0.7	0.45
29	DT/LN/EM9	134.9	60.6	51.8	47.6	55.5	58.5	3.0	0.4	0.42
30	DT/LN/EM10	107.3	51.4	55.8	46.1	55.5	57.0	1.5	1.0	0.38
11	WL10-x-x-2	115.7	42.5	47.7	38.6	54.0	59.5	5.5	0.4	0.34
40	DT/LN/EM20	83.9	44.7	52.2	40.5	59.5	61.5	2.0	0.6	0.34
26	DT/LN/EM6	143.6	70.3	50.4	44.4	55.0	57.5	2.5	0.7	0.30
13	WL11-x-x-1	137.2	53.3	50.7	39.3	57.0	61.6	4.6	0.4	0.27
36	DT/LN/EM16	127.0	59.5	46.7	40.2	56.0	61.5	5.5	0.5	0.26
38	DT/LN/EM18	124.8	50.3	51.3	50.1	53.0	56.0	3.0	0.3	0.26
3	AMATLCOHS92-1-1-3E-4-3-1-B	95.6	45.7	49.9	36.5	59.5	63.2	3.7	0.5	0.25
19	P 15 TSR MH28-1-1-1-#BBBBBB	108.7	34.2	52.7	39.2	56.0	62.5	6.5	0.4	0.25
9	WL7-x-x	130.3	57.8	44.5	36.0	57.5	64.5	7.0	0.5	0.17
2	AMATLCOHS44-1-1-2E-4-5-2-B	94.2	49.3	37.9	39.1	59.5	64.2	4.7	0.6	0.16
31	DT/LN/EM11	75.7	29.3	44.4	33.0	58.0	71.2	13.2	0.3	0.12
12	WL10-x-x-3	139.1	64.6	52.6	31.6	57.0	68.9	11.9	0.5	0.11
14	WL11-x-x-3	96.9	31.5	52.9	44.6	57.0	69.6	12.6	0.5	0.10
21	DT/LN/EM1	104.5	46.1	52.5	42.8	50.0	72.8	22.8	0.5	0.10
45	DT/LN/EM25	117.4	68.7	50.2	42.1	61.5	75.3	13.8	0.1	0.08
43	DT/LN/EM23	117.6	59.5	52.1	46.3	64.0	78.9	14.9	0.5	0.07
10	WLB-x-x-1	116.7	58.9	58.0	37.5	63.0	81.3	18.3	0.2	0.05
20	CML-422	81.6	25.9	50.1	45.8	55.0	75.6	20.6	0.2	0.00
	MEAN	116.26	55.05	50.61	42.45	56.71	61.80	5.09	0.60	0.56
	LSD (p=0.05)	44.58	26.18	NS	NS	6.62	9.87	8.09	0.47	0.13
	CV (%)	18.91	23.45	10.3	14.78	5.74	8.16	143.65	43.52	116.29

Agronomical & Physiological Studies

Full Season:

F 9572A produced significantly higher grain yield at 120 and 180 kg level of nitrogen application at Ludhiana center. P MZ 234 and JK MH 1090 were outstanding entries at Dholi. In Zone V BISCO 851 at Godhra center yielded significantly higher grain yield at all the nitrogen levels.

Medium Maturity:

In Zone I NECH 113, BISCO 3123 and X 2003 were outstanding entries at Bajaura and Almora centers. In zone III X 2003 produced significantly higher grain yield at Bahraich, Varanasi and Ambikapur. However, performance of BISCO SURAJ - II was equally good at Bahraich center. Kaveri 235 showed its superiority at Kolhapur (in Zone IV) and at Godhra.

Early and Extra Maturity

Bio 92109 was found to be outstanding entry at Kangra, Almora and Kolhapur center in early maturity group. Some entry like Bio 12136, Seed Tech 1204, Seed Tech 1202 and FH 3161 also performed better at some of the locations.

In extra - early maturity group FH 3176 performed constantly better at all the centers in Zone - I. Performance of this entry was superior to all the checks at Kolhapur. In this maturity group another entry EC 3108 produced outstanding performance at Banswara and Chindwara.

Effect of date x Method of sowing

For early sowing during month of May, sowing on ridge, flat or in Tranch could be followed. However, for July sowing ridge or raised bed was found to be superior.

Effect of Plant density in the performance of full season hybrids

Performance of HQM1 was better at higher (83000) and lower (53000) plant densities as compared to HM 4, 5 and 6.

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Inter Cropping of sweet corn with flowers

Planting marigold small in 1:1 or 1:2 ratio did not produce any adverse impact on the production of sweet corn cobs with bonus yield of 700-900 thousand flowers at Chindwara.

Integrated nutrient management

Application of recommended N P K (90:60:40) + 10t FYM produced significantly higher yield of maize and wheat in rotation at Almora and Banswara application S and Zn along with NPK brought significant yield difference at Godhra and Banswara

Effect of seed priming on the performance of rainfed maize

Soaking seed in KH_2PO_4 (2.5%) or thio-urea (0.1%) or cytokinin (1 ppm) or cyocel (100 ppm) produced significantly higher yield at Banswara. However, at Udaipur seed sowing with cytokinin or thio-urea was found beneficial. Spraying 0.2% solution of Thio-urea either at knee high, Tesselling or at grain filling stage produced significantly higher grain yield under rainfed conditions at Banswara.

Studies on speciality corn

Bio 92109, X-3342, VL-42 and VL 78 produced more than 15 q/ha baby corn at Bajaura. For sweet corn spacing of 60 x 25 cm with 120: 60: 40 kg N:P:K was found optimum.

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RESEARCH REPORT

(Kharif 2003)

Following trials/experiments were conducted during *Kharif* 2003 at IARI, New Delhi.

Experiment	Materials	Environment	Entries	Tables
DL03K-101	F2-crosses	Optimal condition	140	43
DL03K-102	F2-crosses	Excessive moisture	140	43
DL03K-103	Inbred lines (Known for their performance under excessive moisture)	Optimal condition & excessive moisture	10	44,45,46
DL03K-104	Inbred lines (elite lines,20 each from CIMMYT-India, DMR & Pantnagar)	Optimal condition & excessive moisture	60	47
DL03K-105	Inbred lines (New elite lines, both mid- and advance generation)	Optimal condition & excessive moisture	180	48
DL03K-106	Drought/low-N tolerant lines/ populations from CIMMYT	Optimal condition	1350	49
DL03K-107	Inbred lines	Optimal condition & excessive moisture (pre-screening using cup method)	42	50, 51
DL03K-108	Inbred lines	Drought stress under rain-shelter	45	52

The experimental details, including germplasm, stress treatments, and a brief account of the findings of the experiments is as follows:

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Evaluation of F₂-populations under normal and excessive moisture conditions

The F₂ populations were derived by selfing in F₁ crosses during Rabi 2002 at Winter Nursery, Hyderabad. The F₁ crosses were generated using promising excessive moisture tolerant and susceptible lines [WL-435, WL 1600-3, WL 1800-3, KSX3601F2-5-2-1-B-B (454), LETY-980YPLOT-28-ENT-90, WL-438, WL 2600, WL 1100-4, P3455 (4S2B-46-2-3F/R), CML101 (MS)-1]. During Kharif, 2003, the F₂ families of these crosses were planted ear-to-row in two sets with one row of 5.0 m and three replicates at New Delhi. One set was maintained under normal moisture and second set was exposed to excessive moisture stress continuously for seven days at knee-high stage. 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 for plant height, ear height, nodes with brace roots and yield obtained from these populations under both the conditions (Table-43). Leaf samples were collected for DNA extraction from the parental lines as well as from all the crosses grown under normal condition to carry out genetic polymorphic studies.

Significant variability has been observed among the F₂ progenies for various parameters. Selected tolerant F₂ progenies were selfed and F₃ ears were harvested for further evaluation against excessive moisture stress in next season.

Physiological studies on the mechanism of excessive moisture tolerance in maize

In order to study the impact of excessive moisture stress on plant growth and development, and physiological and biochemical mode/mechanism of excessive moisture tolerance in maize the experiment was conducted using 10 elite maize inbred lines. The lines were selected on the basis of their known and distinct performance under excessive moisture conditions. Out of total 10 entries 6 (WL12-^{*}-^{*}-1, WL16-^{*}-^{*}-1, WL15-^{*}-^{*}-2, WL18-^{*}-^{*}-6, WL28-^{*}-^{*}-2 and WL36-^{*}-^{*}-4) were tolerant and rest 4 were known for their high susceptibility under excessive moisture stress (Table-44). The entries were planted in two rows of 5.0m with three replications. 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. Various observations on growth

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and development, and physiological and biochemical parameters were recorded (Table-44, 45,46). Excessive moisture stress causes severe plant mortality in susceptible lines and affected plant and ear height. Under normal moisture, there was no significant genotypic variability for above ground nodal roots development, however, excessive moisture stress aggravated the brace root growth in relatively tolerant lines (Table-44). The stress condition reduced leaf chlorophyll content (Table-46) and causes severe senescence in green leaf area in susceptible genotypes. Impact of stress condition was significant on dry matter partitioning, total biomass production and leaf area development, particularly in case of relatively susceptible genotypes (Table-45). Though, the effect of excessive moisture stress was nominal on days to 50% anthesis, however, silking was significantly delayed under due to stress, which causes remarkable delay in anthesis-silking interval (Table-44). The effect of stress on synchrony of male and female flowering eventually affected grain formation, which was apparent on effective ears per plant and grain yield. Though, the effect of stress condition was non-significant on test weight. Excessive moisture stress causes significant ear rots in relatively susceptible genotypes.

Excessive moisture stress enhanced free amino acid content in leaf and stem tissues of in tolerant genotypes, whereas, in susceptible entries the increase in amino acid content was nominal (Table-46). Data on carbohydrate concentration indicate that total sugar and starch content was in general higher in tolerant genotypes under normal moisture conditions. The total soluble sugar was also comparatively more in tolerant lines under excessive moisture, while starch content was relatively more in case susceptible entries, which may be due poor starch breakdown in susceptible lines under stress. Excessive moisture stress increased the ethanol accumulation in root tissues in all the genotypes. Though, the impact was more pronounced with susceptible genotypes. However, increase in leaf ethanol content was nominal in tolerant lines, while it was relatively higher in susceptible entries. Similar trend was observed with phenolics content of root and leaves.

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Evaluation of elite maize inbred lines against excessive moisture stress.

A total 60 inbred lines, all advance generation elite lines, 20 each from CIMMYT-Asian regional program, DMR and GBPUAT, Pantnagar, were evaluated for their performance under normal and excessive moisture stress. The entries were planted in two rows (5.0m) with two replication using ALPHA-lattice design. 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. In general, the stress condition severely affected various growth, development and yield attributes, and causes significant yield losses, ranges from 10.2 – 99.2% (Table-47). The top ranking 10 lines were selected on the basis of minimum yield losses under stress and superior performance under normal moisture condition as well, which include CML-425, CA 14707, WL28-*-*2, CML-427, WL28-*-*3, WL15-*-*2, CML-429, CML 327, Pant-14 HYD 01R and CA 00106.

Evaluation of new maize lines against excessive moisture stress.

A total 180 genotypes, all elite lines, including materials from AICRP on maize, lines from Delhi and Karnal center were evaluated for their performance under normal and excessive moisture stress. The entries were planted in two rows (5.0m) with two replication using ALPHA-lattice design. 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. Data recorded on various growth and reproductive parameters indicate significant genotypic variability (Table-48). Excessive moisture stress causes significant root lodging, reduction in plant height, leaf chlorophyll in susceptible entries, and increased brace root development in tolerant lines. Stress condition causes severe yield reduction, ranges from 20.9-100.0%. Out of total 180 entries, a total 17 entries, with >1.00 ton/ha yield under excessive moisture stress and relatively good performance under normal moisture were selected for further study and further improvement for excessive moisture tolerance.

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Evaluation of drought tolerant CIMMYT maize germplasm for their adaptation and *per se* performance under Indian conditions

Drought tolerant germplasm from developed by Physiology sub-program, CIMMYT, Mexico, including seven populations of different maturity groups and lines derived from these populations were planted during *kharif* season this year at IARI farm Delhi. The germplasm were improved for mid-season drought tolerance at CIMMYT, Mexico during last three decades. The materials includes population bulks of different selection cycles and lines derived from advance version of Tuxpeno sequia, La Posta Sequia, Pool 26 Sequia (late maturity), Pool 18 Sequia, Pool 16 BN sequia (Early maturity) DTP-W and DTP-Y (medium maturity). Out of total seven, four are white (Tuxpeno sequia, LaPosta Sequia, Pool 16 BN sequia and DTP-W) and rest three are in yellow grain color.

During course of improvement at CIMMYT for drought tolerance the populations were structured either full-sib or S1 families, and were screened for performance under water deficit conditions at flowering and grain filling stages. Superior families (8-30%) were grown remnant seed during rain-free winter season under three water regimes i.e.- severe stress (SS), irrigation withdrawn from three weeks before flowering till maturity, Intermediate stress (IS), irrigation withdrawn 10 days before flowering until maturity and well watered conditions. The best 50 families are recombined to form subsequent cycles. Recently, those 50 families are advanced to S2, rested under drought, advanced to S3, rested again, top crossed with testers of opposite heterotic group and were evaluated under at least two water regimes. The strategy of recurrent selection for mid-season drought has resulted in significantly improved performance under drought as well as low-N stresses, along with improved yields under normal moisture and nutrient regimes. The materials have been used either directly or as source germplasm for developing maize cultivars for marginal and less favorable areas in different countries in Asia, Africa and Latin America.

A total 1350 entries, including population bulks of different cycles and lines derived from advance version of the population were planted in Delhi during Kharif this year under optimal conditions. Data recorded on plant stand, flowering and yield (Table-49). All the populations have shown fairly good performance under Delhi conditions.

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However, among the lines, about 15% have show poor germination and/or poor plant stand. On the basis of data recorded, about 40% lines were selected and maintained through selfing. The selected germplasm is exposed to flowering stage drought stress during *Rabi* 2003-04 at winter nursery, Hyderabad. After harvesting the promising drought tolerant entries will be selected and further improved.

Pre-screening of maize inbred lines for excessive moisture tolerance using "cup method"

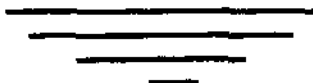
A new set of 42 entries was screened using cup method in order to identify the excessive moisture tolerant lines. Disposable plastic cups (250 cm³) perforated at the base at four points with an orifice of 5.0 mm diameter and used to grow maize seedlings. Cups were filled up to 220 cm³ of its volume with the mixture of siphoned soil, farmyard manure (FYM) and chemical fertilizers (NPK). Filled cups were placed in plastic tray (50 x 30 x 10 cm) containing a thin layer (5.0 cm) of water. Total soil in the cups got fully saturated with water entering from the wholes present at the base of the cups through capillary action. After 24-hrs, one seed per cup was sown, keeping embryo upside down at a depth of approximately 2.0-cm in this fully saturated soil condition. In this way, experiment was continued in the cups up to 20 days. After 20 days various growth and biochemical parameters were recorded (Table – 50, 51). The entries with normal growing plantlets under normal and excessive moisture conditions were selected as tolerant entries, and will be further exposed to excessive moisture stress at knee-high stage under field conditions.

Screening of maize inbred lines for flowering stage drought tolerance

Inbred lines with good *per se* performance under optimal conditions were screened for mid-season drought stress tolerance under rain-shelter conditions, where the plant can be kept free from rain for desired period of stress treatment. Total 45 elite inbred lined were planted in 1 row (3.0m) with replications using ALPHA-lattice design. Drought stress significantly reduced plant height as well as ear height in all the genotypes (Table-52). Leaf chlorophyll content was also reduced in almost all the entries. A progressive senescence of green leaf area was observed with increase of

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severity of drought stress. The adverse effect of drought was more pronounced on reproductive stage. Though, male flowering was least affected, but female flowering delayed remarkably, which causes longer ASI. The ASI >5.0 days resulted in large number of genotypes with barren plants with poor ears per plant, and eventually poor yield. However, significant genotypic variability has been noticed with regards to all the parameter and also for grain yield under stress conditions (Table-52). Out of total 45 genotypes studied, the top ranking 10 entries, with >1.0 t/ha yield, were selected as drought tolerant entries.



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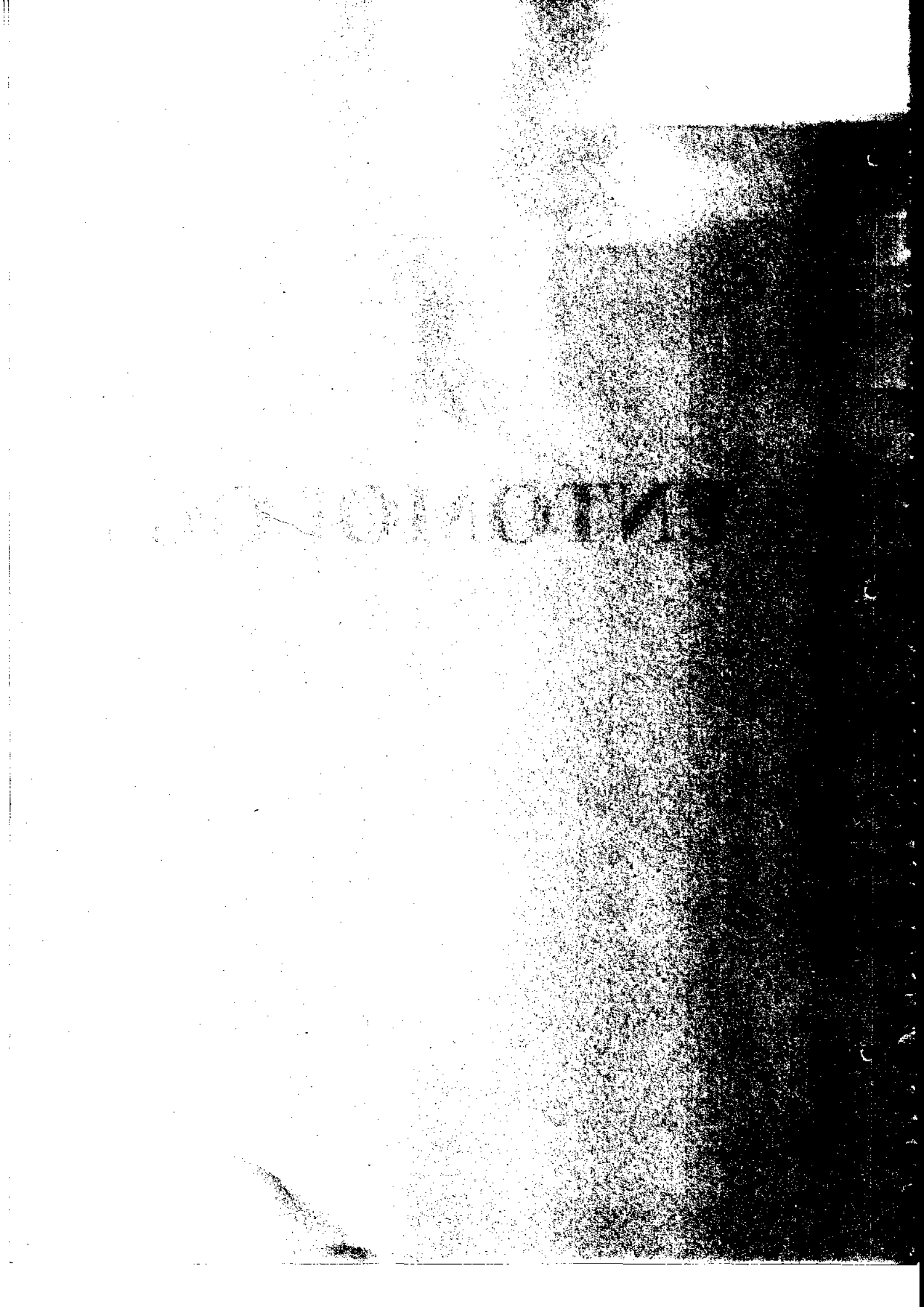


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Screening of germplasm for resistance against *Chilo partellus*

A total of 144 lines of maize germplasm and 42 lines of Quality Protein Maize were screened for resistance against maize stalk borer, *C. partellus* (Swinhoe) at the head quarters by artificially inoculating the plants by black-headed stage eggs. Out of total lines of 144, 97 lines were evaluated for first year and 47 lines for the second year. The plants were rated on 1-9 scales and categorized as resistant (1.0-3.0); 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	30	21	35	10	32	16	14	28
Resistant	8	5	24	7	31	15	14	22
Moderately Resistant	17	10	9	3	1	1	0	5
Susceptible	5	6	2	0	0	0	0	1

*The large number of resistant lines may be because of poor larval setting in the plants as the release of eggs was followed by incessant rain which washed away the eggs.

The resistant lines in early maturity are EC-3108, PRO-340, MAHI KANCHAN and moderately resistant lines are FH-3186, FH-3176, R-9803, BIO-92109, BIO-92136, SEEDTEC-1202, HIM-129, SURYA and KIRAN

Relative susceptibility of 60 maize germplasm was studied by artificially infesting the seeds by rice weevil *Sitophilus oryzae*. Observation were taken on the loss of weigh of grains and progeny developed on different germplasm. Effect of essential oil Citronella and Geranium have been studied on eggs/neonate larvae of *Trogoderma* and *Corcyra*. The studies in progress and results will be concluded.

Table 2: Screening of maize germplasms (Trial 75 AET 1st year Early maturity) to *C. partellus* during Kharif, 2003

Entry No.	Pedigree	Mean Leaf injury score per plant*				
		Delhi (A)	Karnal (A)	Kolhapur (A)	Ludhiana (A)	Udaipur (A)
1	BH - 2862	1.0	5.0	5.7	4.2	7.9
2	HKH- 1185	5.4	5.2	6.2	2.1	7.9
3	HKH-1210	1.2	5.8	4.9	2.7	8.0
4	FH- 3210	5.6	5.4	6.1	2.9	8.1
5	FH- 3210	4.0	6.2	6.0	2.9	6.9
6	JH-3851	3.4	4.6	4.4	2.0	6.2
7	PRO- 358	6.8	5.5	6.7	3.8	7.0
8	PRO- 357	2.8	7.4	7.0	3.9	6.3
9	PRO - 356	1.0	6.0	5.5	3.2	6.9
10	SEEDTEC-114	NG	2.6	6.2	4.8	7.0

11	SEEDTEC-122	5.5	7.2	6.1	3.1	7.1
12	SEEDTEC-205	6.4	5.6	6.1	2.8	7.7
13	BISCO-204	5.8	5.0	6.2	3.6	6.6
14	BISCO-2051	6.0	6.2	6.1	2.5	7.9
15	X 1150 Z	4.6	3.0	5.7	4.8	7.4
16	JKMH- 810	5.4	3.0	6.2	3.2	6.4
17	FILLER	3.6	4.2	6.3	2.7	7.8
18	X-2182	4.6	5.2	6.7	5.2	6.8
19	X-2185	5.2	5.6	5.0	2.6	6.6
20	KMH-3	4.6	6.2	5.9	2.8	7.2
21	MCH-5	3.6	6.6	6.0	3.2	7.8
22	MCH-6	6.2	6.0	5.6	2.7	6.5
23	KMH-2	6.4	7.6	5.5	3.8	6.6
24	KMH-3	3.6	4.8	6.4	3.4	6.4
25	KMH-5	6.2	5.8	5.9	2.7	7.9
26	KMH-9	1.0	4.0	5.0	3.1	5.9
27	PAC-71006	5.6	4.0	4.7	3.3	6.8
28	PMZ-135	1.2	4.2	5.8	3.1	7.7
29	ZAURI-2052	2.4	7.0	4.7	4.9	8.3
30	ZUARI-2054	3.0	4.2	5.7	4.8	7.9
31	FILLER	5.4	3.0	7.1	2.6	7.9
AET 2nd year (Early maturity)						
32.	FH-3186	4.6	6.8	6.8	2.7	8.5
33.	FH-3176	5.8	6.8	5.3	5.6	8.7
34.	FH-3161	8.0	8.0	4.9	3.8	7.5
35.	R-9803	3.2	3.0	6.0	-	7.8
36.	EC-3108	2.4	5.4	4.2	4.3	6.8
37.	BIO-92109	5.2	3.8	4.8	2.7	6.5
38.	BIO-92136	5.8	5.0	4.4	2.0	7.2
39.	SEEDTEC-1202	5.8	7.5	3.1	3.2	8.0
40.	SEEDTEC-1204	7.8	6.2	3.4	2.5	6.1
41.	SEEDTEC-1205	6.2	4.4	4.2	3.8	5.9
42.	PAC-70001	7.4	7.8	4.5	5.6	6.7
43.	PRO-340	1.3	8.0	5.2	5.2	6.8
44.	HIM-129	5.4	5.6	5.3	2.9	6.7
45.	SURYA	6.0	4.2	5.3	4.1	8.1
46.	X-3342	6.8	5.8	5.0	2.5	5.9
47.	KIRAN	3.2	5.0	4.4	2.9	6.6
48.	MAHI KANCHAN	2.0	4.8	4.6	5.8	7.9
49.	FILLER	4.2	4.0	6.0	3.1	6.0
50.	CM-500	1.4	5.2	5.3	3.7	7.6
51.	CM-600	3.0	4.0	5.1	6.7	8.7
52.	CM-202	7.4	4.1	5.7	6.9	8.6

* Mean score injury level on 1-9 scale

A- Artificial Infestation

Table: 3 Screening of maize germplasms (Trial 76 AET 1st year Medium maturity) to *C. partellus* during Kharif, 2003

Entry No.	Pedigree	Mean Leaf injury score per plant*				
		Delhi ** (A)	Karnal (N)	Kol. (A)	Ludhiana (A)	Udaipur (A)
1	BH-2359	1.0	1.2	6.5	2.7	7.8
2	BH-2809	1.4	1.4	7.3	2.9	4.2
3	FILLER	5.6	1.8	7.5	2.8	7.5
4	EC-3121	2.6	1.0	5.9	2.0	6.1
5	EC-3122	6.4	2.0	6.5	3.8	E
6	FILLER	1.0	2.1	2.8	2.7	7.8
7	WC-14-1 (DBM)	1.0	1.0	3.1	2.4	E
8	HKH-1203	1.0	1.3	6.7	2.0	E
9	HKH-1208	3.8	1.4	6.9	2.4	E
10	L-166	1.0	1.2	6.9	2.5	E
11	BIO-22027	2.0	1.5	5.6	3.2	7.2
12	PMZ-237	1.0	1.2	5.6	3.1	8.0
13	PMZ-131(RETESTING)	1.4	1.6	6.1	3.4	7.0
14	BISCO-1102	4.4	1.2	6.7	4.5	6.6
15	BISCO-201	1.2	1.0	5.9	4.2	7.0
16	SEEDTEC-1081	4.2	1.5	7.7	4.1	6.5
17	SEEDTEC-168	1.0	1.2	5.7	3.6	6.4
18	NMH-20507	3.6	1.1	6.7	3.1	6.8
19	MCH-7	2.6	1.1	6.8	3.0	5.9
20	ZAURI-2027	1.8	1.2	5.6	4.0	6.1
21	ZAURI-2021	1.0	1.2	7.0	3.2	6.1
22	AAMH-513	6.2	1.1	7.0	5.6	E
23	AAMH-511	3.4	1.5	5.7	4.5	E
24	X 1280 A	3.8	1.2	6.7	2.7	E
25	JKMH - 1001	1.0	1.0	6.0	3.3	E
26	NECH-119	1.0	1.1	3.0	3.2	E
27	NECH-120	1.0	1.0	5.9	2.7	5.8
28	X-26	1.0	1.1	7.6	4.0	5.4
29	NMH-20507	1.4	1.2	7.5	4.0	5.0
30	KH 510	1.0	1.0	5.8	3.5	6.3
31	NAVJOT	3.0	2.0	6.1	2.3	6.3
32.	FILLER	5.2	1.1	5.6	4.3	6.3
33.	CM-500	1.0	1.8	7.0	2.6	7.1
34.	CM-600	1.6	1.4	7.0	7.5	7.1
35.	CM-202	3.6	1.1	7.0	5.7	8.1
AET 2nd year (Medium maturity)						
36.	HKH-1206	1.0	1.8	7.1	3.4	7.8
37.	EC-3116	1.0	1.2	6.1	3.6	6.2
38.	EC-3110	4.6	1.2	5.5	3.0	5.4
39.	BISCO-3123	1.0	1.8	2.9	4.2	6.0
40.	BISCO SURAJ-11	1.0	2.1	5.8	3.4	6.2
41.	AAMH-204	1.0	1.3	3.0	2.5	5.9

42.	NECH-113	1.8	1.5	5.5	4.2	6.2
43.	X-2003	5.4	1.2	6.0	3.7	6.1
44.	KAVERI-235	5.8	1.2	5.8	3.2	6.4
45.	JKMH-1080	1.0	1.4	6.4	3.2	7.5

* Mean score injury level on 1-9 scale

** The release of *Chilo* eggs was followed by heavy rains. The higher number of resistant lines could be because of poor infestation.

E- Escape

A- Artificial Infestation

N- Natural Infestation

Table 4: Screening of maize germplasms (Trial 77 AET 1st year Full season maturity) to *C. partellus* during Kharif, 2003

Entry No.	Pedigree	Mean Leaf injury score per plant*				
		Delhi **(A)	Karnal (N)	Kol. (A)	Ludhiana (A)	Udaipur (A)
1	AH-01410	1.0	1.5	5.6	4.2	7.7
2	AH-01415	1.0	1.2	6.5	3.5	7.8
3	BH-2355	2.4	1.1	7.0	4.5	7.5
4	BH-2358	1.0	1.1	2.8	3.3	7.2
5	BH-2523	2.6	1.2	6.2	5.2	7.7
6	BH-2528	1.0	1.2	6.7	4.0	7.9
7	BH-2348	1.0	1.1	5.2	3.6	E
8	BH-2356	1.0	1.5	6.4	3.7	E
9	BH-2854	1.0	1.2	6.2	5.8	E
10	BH-2202	2.0	1.0	5.6	2.5	E
11	HKH-1215	2.6	1.0	6.2	2.5	6.4
12	BIO-20212	1.2	1.0	4.2	5.8	7.2
13	ROBUST	1.0	1.2	2.8	3.3	8.2
14	BISCO-902	1.0	1.4	2.9	5.0	8.1
15	ZAURI-2009	1.0	1.0	3.7	6.5	8.3
16	AAMH-459	1.0	2.8	6.3	3.2	7.2
17	X 1280 B	2.6	2.2	5.2	2.4	6.9
18	X 1231 H	1.0	2.6	5.4	4.3	5.6
19	POOJA	1.0	1.4	5.3	6.4	7.1
20	NECH-117	1.0	1.8	4.0	3.4	7.6
21	NECH-118	1.6	1.4	6.3	3.2	7.7
22	MCH-1	1.0	1.3	4.9	2.5	6.5
23	MCH-2	2.6	1.6	6.7	5.7	7.2
24	MCH-3	1.0	1.2	4.2	4.0	6.7
25	MCH-4	1.4	2.4	6.6	5.7	E
26	GK-3046	1.0	2.8	6.0	4.7	E
27	GK-3047	1.0	1.4	5.4	3.6	E
28	PAC-71061	1.2	2.0	6.0	3.7	E
29	PAC-71062	3.6	1.6	6.9	4.7	E

30	X-2001	1.0	1.3	5.8	3.4	6.1
31	SEEDTEC-C12	1.0	2.7	6.2	5.8	6.2
32.	SEEDTEC-C11	1.0	1.4	2.8	4.9	5.4
AET 2nd year (Full season maturity)						
33.	F 9572 A	1.0	1.4	5.3	3.5	6.7
34.	PMZ-234	3.2	1.4	6.2	4.7	5.1
35.	JKMH-1090	1.0	1.4	6.0	4.8	6.7
36.	F-1562	1.8	1.3	4.5	4.8	E
37.	BIO-92327	1.0	1.0	6.4	4.6	7.8
38.	BISCO-851	2.8	1.0	5.9	4.3	7.4
39.	NECH-110	1.0	2.0	5.4	3.8	7.6
40.	X-2006	2.6	1.0	5.9	6.3	7.6
41.	PRO-311	1.0	1.2	5.1	2.5	7.4
42.	BIO-9681	1.0	1.4	7.4	4.0	5.8
43.	PARBHAT	1.6	1.3	6.7	4.6	7.7
44.	GANGA-11	1.4	1.2	5.7	6.1	7.3
45.	FILLER NAVJOT	2.6	1.0	7.0	5.2	8.0
46.	CM-500	1.0	1.3	7.0	3.6	8.0
47.	CM-600	2.2	1.2	6.1	3.9	8.3
48.	CM-202	1.0	1.0	6.9	4.2	NG

E- Escape

NG- No Germination

* Mean score injury level on 1-9 scale

** The release of *Chilo* eggs was followed by heavy rains. The higher number of resistant lines could be because of poor infestation.

A- Artificial Infestation

N- Natural Infestation

Table: 5 Screening of Quality Protein Maize germplasms (Trial QPM-1) to *C. partellus* during Kharif, 2003

Entry No.	Pedigree	Mean Leaf injury score per plant*		
		Delhi ** A	Hyd. A	Ludhiana A
1	HQPM-1	1.2	5.4	4.4
2	HQPM-2	1.2	6.3	3.2
3	HQPM-3	1.0	5.0	4.1
4	B-QPM-12	1.2	5.9	2.8
5	B-QPM-024	1.0	4.7	3.2
6	B-QPM-31	2.8	4.2	5.0
7	B-QPM-32	1.0	5.6	2.8
8	B-QPM-33	1.0	4.9	3.4
9	CML-142 x CML-150	1.0	4.2	2.6
10	JH-QPM-83	1.0	4.2	2.8
11	SEEDTECH-2324	1.0	6.2	3.0
12	SHAKTIMAN-1	1.0	4.6	2.9

13	PRO-311	1.0	3.3	4.8
14	KH-510	1.0	5.3	4.9

* Mean score injury level on 1-9 scale

** The release of *Chilo* eggs was followed by heavy rains. The higher number of resistant lines could be because of poor infestation.

A- Artificial Infestation

Table: 6 Screening of Quality Protein Maize germplasms (Trial QPM-2) to *C. partellus* during Kharif,2003

Entry No.	Pedigree	Mean Leaf injury score per plant*	
		Delhi ** A	Ludhiana A
1.	J H QPM-35	1.0	2.4
2.	J H QPM-155	1.0	2.9
3.	J H QPM-41	1.0	3.1
4.	J H QPM- 144	1.0	2.9
5.	XP-0103	4.6	3.0
6.	B H QPM- 47	2.6	3.9
7.	B H QPM- 48	1.0	2.6
8.	B H QPM- 46	2.8	3.3
9.	B H QPM- 44	1.0	2.8
10.	B H QPM- 41	2.6	3.7
11.	B H QPM- 50	1.0	3.4
12.	B H QPM- 40	5.2	3.2
13.	B H QPM- 43	2.6	2.6
14.	B H QPM- 45	1.0	4.1
15.	B H QPM- 42	1.0	4.3
16.	XP-0105	3.4	2.4
17.	BAJ QPM-1	1.0	3.9
18.	BAJ QPM-2	3.8	2.8
19.	BVM-7	1.0	2.8
20.	S99TLWQ-HG-AB	1.0	3.2
21.	S99TLWQ-HG-B	1.0	5.4
22.	J H ae - 7	2.6	3.2
23.	J H wx - 29	1.6	4.4
24.	SHAKTIMAN-1	8.6	3.2
25.	PRO-311	1.0	2.5
26.	KH-510	1.0	3.7
27.	X-3342	1.8	2.7
28.	BIO 9681	4.2	2.3

* Mean score injury level on 1-9 scale

** The release of *Chilo* eggs was followed by heavy rains. The higher number of resistant lines could be because of poor infestation.

A- Artificial Infestation

Table: 7 Collaborative Project on Development of Asia Maize Borer Tolerant Downy Mildew resistant population (AMBTDMR), Ludhiana
Reaction of *C. partellus* to Early Yellow (EY) Kharif 2003

S. No.	Pedigree	Mean Damage Grade (1-9 Scale)
1.	EY-D-8-1-1-1-1-1	3.4
2.	EY-D-8-1-1-1-1-2	4.1
3.	EY-D2-8-1-3-3-2-1	4.5
4.	EY-D2-8-1-3-3-2-2	2.0
5.	EY-D2-8-1-3-3-2-3	3.8
6.	EY-D2-12-1-2-5-2-1	2.0
7.	EY-D2-12-1-2-5-2-2	2.6
8.	EY-D2-12-1-2-5-2-3	3.7
9.	EY-D2-12-1-2-6-4-1	2.6
10.	EY-D2-12-1-2-6-4-2	2.8
11.	EY-D2-12-1-3-2-3-1	2.6
12.	EY-D2-12-1-3-2-3-2	2.0
13.	EY-D2-12-1-3-2-3-3	4.7 (Severe mite attack)
14.	EY-D1-16-3-2-7-3-1	No germination
15.	EY-D1-16-3-2-7-3-2	2.0
16.	EY-D-16-3-4-1-1-1	2.7
17.	EY-D-16-3-4-2-2-1	3.7
18.	EY-D-16-3-4-2-2-2	3.0 (Severe mite attack)
19.	EY-D-16-3-4-2-2-3	2.8
20.	EY-D-16-3-4-2-2-4	2.0 (Severe mite attack)
21.	CM-300	2.0
22.	CM-500	4.9

Collaborative Project on development of Asian Maize Borer Tolerant Downy Mildew resistant population (AMBTDMR), Ludhiana
Reaction of *C. partellus* to Late Yellow (LY) Kharif 2003

S. No.	Pedigree	Mean Damage Grade (1-9 Scale)
1.	LY-D-3-3-4-3-1-1-1	3.8
2.	LY-D-3-3-4-3-1-1-2	3.4
3.	LY-D-3-3-4-3-1-1-3	3.3
4.	LY-D-3-3-4-3-1-1-4	7.0
5.	LY-L-26-2-5-2-1-1-1	8.4
6.	LY-L-26-2-5-2-1-1-2	7.4
7.	LY-L-26-2-5-2-1-1-3	8.4
8.	LY-L-30-2-2-3-1-1-1	5.0
9.	LY-L-30-2-2-3-1-1-2	4.8
10.	LY-L-30-2-2-3-1-1-3	4.5
11.	LY-L-30-2-2-3-1-2-1	2.5
12.	LY-L-30-2-2-3-1-2-2	2.6
13.	LY-L-30-2-2-4-1-1-1	3.3
14.	LY-L-30-2-2-4-1-1-2	4.9
15.	LY-L-30-2-2-4-1-1-3	2.0
16.	LY-L-30-2-2-4-1-1-1	2.0

17.	LY-L-30-2-2-4-1-1-2	2.2
18.	LY-L-30-2-2-4-1-1-3	2.8
19.	CM-300	2.1
20.	CM-500	2.7
21.	LY-L-30-2-2-4-1-2-1	2.7
22.	LY-L-30-2-2-4-1-2-2	2.0
23.	LY-L-30-2-5-2-2-1-1	3.6
24.	LY-L-30-2-5-2-2-1-2	2.6
25.	LY-L-30-2-5-2-2-1-3	2.2
26.	LY-L-30-2-5-2-2-2-1	2.0
27.	LY-L-30-2-5-2-2-2-2	2.9
28.	LY-L-30-2-5-4-1-2-1	2.0
29.	LY-L-30-2-5-4-1-1-1	2.0
30.	LY-L-30-2-5-4-1-1-2	2.0
31.	LY-L-30-2-5-4-1-2-1	3.2
32.	LY-L-30-2-2-3-2-1-1	2.0
33.	LY-L-30-2-2-3-2-1-2	2.0
34.	LY-L-38-2-1-2-2-2-1	2.0
35.	LY-L-38-2-1-2-2-2-2	2.6
36.	LY-L-38-2-1-2-2-2-3	2.9

Table: 8 Screening of inbred trial of maize germplasm against *C. partellus*, Udaipur

S. No.	Entry No.	Mean score per plant (1-9)
1	EI-458	7.9
2	EI-459	7.0
3	EI-460	6.4
4	EI-461	6.7
5	EI-463	7.2
6	EI-466	7.1
7	EI-468	5.2
8	EI-473	E
9	EI-474	E
10	EI-477	6.6
11	EI-478	6.5
12	EI-481	5.7
13	EI-482	6.1
14	EI-484	7.8
15	EI-485	7.4
16	EI-486	6.0
17	EI-493	8.3
18	6EI-488	7.7
19	EI-489	6.8
20	EI-490	7.3
21	EI-497	7.6
22	EI-491	6.3
23	EI-498	7.1
24	EI-499	6.8
25	EI-501	7.6

26	EI-502	6.3
27	EI-503	6.8
28	EI-504	8.0
29	EC-3108-1	7.4
30	EC-3110-1	7.2
31	EC-1108-2	6.2
32	EC-3121-2	7.9
33	EI-525	6.2
34	EI-508	5.4
35	EI-528	6.5
36	EI-526	6.9
37	EI-527	6.0
38	EI-510	6.6
39	EI-524	7.0
40	EI-507	7.3
41	EI-529	5.8
42	EI-518	7.7
43	EI-521	6.2
44	EI-530	7.2
45	EI-513	8.8
46	EI-460	7.2
47	EI-472	6.6
48	EI-499	7.1
49	EI-531	8.0
50	EI-532	5.6
51	EI-534	7.9
52	EI-535	6.0
53	EI-533A	6.0
54	EI-536	7.6
55	EI-537	5.9
56	EI-538	7.8
57	EI-539	6.1
58	EH-30624	6.4
59	EC-3110	7.3
60	EC-3122	6.3
61	EC-3121	7.9
62	EC-3116	5.4
63	CM-600	8.4
64	CM-138	7.1
65	CM-137	7.5
66	CM-119	6.8
67	Surya	7.2

68	Mahikanchan	6.8
69	PEHM-2	7.5
70	Navjot	7.4
71	MahiDhawal	6.9
72	Deccan-103	6.9
73	EC-3108	7.2

Date of sowing 18/7/2003

Date of release 8-9/08/03

Date of observation 09-17/09/2003

Table:9 Performance of test cross hybrid of Early Yellow Line during Kharif 2003, Delhi

Plot No.	Pedigree	Days to 50%		Hight (cm)		Yield Kg/Plot	100 Seed wt. (g)
		Pollen	Silk	Plant	Ear		
1.	EY (Ludh) CO (D/C)-(L/C)-1-1-1-1-1	46.3	47.7	160.7	77.7	1.581	27.17
2.	EY (Ludh) CO (D/C)-(L/C)-24-2-1-1-1	47.3	48.3	174.0	89.3	1.807	24.44
3.	EY (Ludh) CO (D/C)-(L/C)-33-1-2-1-1	45.7	45.7	167.3	83.7	1.505	23.79
4.	EY (CIMMYT) CO (D/C)-(Phil/O)-7-1-1-1-1	46.3	48.0	172.3	88.3	1.373	27.41
5.	EY (CIMMYT) CO (D/C)-(Phil/O)-7-1-1-2-1	46.7	47.7	170.0	80.3	1.299	26.36
6.	EY (CIMMYT) CO (D/C)-(Phil/O)-15-1-5-1-1	46.3	47.3	150.3	75.7	1.543	26.94
7.	EY (Ludh) CO (D/C)-(L/C)-1-1-1-1-1	46.3	46.0	161.0	90.0	1.465	23.89
8.	EY (Ludh) CO (D/C)-(L/C)-24-2-1-1-1	47.3	49.7	164.3	86.3	1.519	24.16
9.	EY (Ludh) CO (D/C)-(L/C)-33-1-2-1-1	47.3	48.0	169.7	89.0	1.384	24.71
10.	EY (CIMMYT) CO (D/C)-(Phil/O)-7-1-1-1-1	46.7	46.3	169.3	94.0	1.206	25.49
11.	EY (CIMMYT) CO (D/C)-(Phil/O)-7-1-1-2-1	47.0	47.3	160.7	83.7	1.322	25.07
12.	EY (CIMMYT) CO (D/C)-(Phil/O)-15-1-5-1-1	46.7	47.3	179.0	90.3	1.418	26.07
	CV	2.33	2.30	7.81	13.85	18.78	14.99
	SE (W)±	0.63	0.015	0.66	0.76	0.48	0.96
	CD5%	-	1.85	-	-	-	-
	CD 1%	-	2.51	-	-	-	-

Table: 10 Performance of test cross hybrid involving S-6 lines of borer tolerant during Kharif 2003, Delhi

Plot No.	Pedigree	Days to 50%		Hight (cm)		Yield Kg/ Plot	100 Seed wt. (g)
		Pollen	Silk	Plant	Ear		
1.	MIRTC4 Am F36-B-2-2-B	48.3	49.7	205.0	107.0	1.791	22.44
2.	MIRTC4 Am F36-B-2-2-B	48.3	50.0	185.3	102.7	0.939	24.72
3.	MIRTC4 Am F28-B-1-1-B	51.0	50.7	203.3	102.7	1.220	19.43
4.	MIRTC4 Am F36-B-2-2-B	48.7	51.0	204.0	109.0	1.121	22.27
5.	MIRTC4 Am F110-B-1-1-B	49.0	50.0	194.3	100.3	1.003	22.25
6.	MIRTC4 Am F101-B-2-2-B	50.7	50.7	208.0	105.0	1.387	22.53
7.	MIRTC4 Am F28-B-1-1-B	48.7	50.0	205.7	106.7	0.914	22.26
8.	MIRTC4 Am F101-B-2-2-B	48.7	50.7	212.0	109.0	1.306	28.75
9.	MIRTC4 Am F110-B-1-1-B	49.0	50.0	217.7	112.0	1.236	29.52
10.	MIRTC4 Am F28-B-1-1-B	48.0	50.0	207.3	107.0	1.309	27.07
11.	MIRTC4 Am F110-B-1-1-B	48.7	48.7	207.0	106.0	1.186	26.03
	CV	2.0	1.45	7.12	7.42	17.74	19.32
	SE (W)±	0.566	0.053	0.453	0.841	0.151	0.262
	CD5%	1.669	1.236	-	-	-	-
	CD 1%	2.277	1.687	-	-	-	-

Table: 11 Performance of test cross hybrid involving late yellow lines for yield during Kharif 2003, Delhi

Plot No.	Pedigree	Days to 50%		Hight (cm)		Yield Kg/ Plot	100 Seed wt. (g)
		Pollen	Silk	Plant	Ear		
1.	LY (IARI) CO (D/C)-44-2-5-2-1	48.7	51.3	161.0	75.0	0.875	25.45
2.	LY (IARI) CO (D/C)-(D/C)-50-1-4-2-1	47.3	49.3	170.7	89.0	1.001	23.33
3.	LY (Ludh) CO (L/C)-1-3-3-1-1	47.7	50.0	167.0	85.7	1.231	24.86
4.	LY (Ludh) CO (L/C)-1-3-3-1-2	45.3	50.0	168.0	85.3	1.006	24.74
5.	LY (Ludh) CO (L/C)-13-	48.7	51.3	160.0	79.3	1.123	27.23

	1-1-2-1						
6.	LY (CIMMYT) CO (D/C)-(Phil/O)-4-1-1-2-1	48.0	51.0	148.7	76.7	0.999	23.76
7.	LY (CIMMYT) CO (D/C)-(Phil/O)-4-1-1-3-1	49.3	50.67	173.0	86.3	1.194	28.39
8.	LY (IARI) CO (D/C)-44- 2-5-2-1	49.3	52.0	162.7	88.0	0.747	27.48
9.	LY (IARI) CO (D/C)-44- 2-6-3-1	50.7	51.3	162.7	82.0	1.032	26.84
10.	LY (Ludh) CO (L/C)-1- 3-3-1-1	49.0	51.0	190.3	93.7	1.205	23.43
11.	LY (Ludh) CO (L/C)-1- 3-3-1-2	50.0	51.3	183.0	91.0	1.168	24.65
12.	LY (Ludh) CO (L/C)-13- 1-1-2-1	50.7	52.3	195.7	93.0	1.488	24.01
13.	LY (CIMMYT) CO (D/C)-(Phil/O)-4-1-1-2-1	47.7	52.0	169.0	86.3	0.777	23.00
14.	LY (CIMMYT) CO (D/C)-(Phil/O)-4-1-1-3-1	48.0	49.3	165.0	82.0	1.028	24.67
15.	LY (CIMMYT) CO (D/C)-(Phil/O)-4-1-2-2-1	47.7	51.0	154.0	78.0	0.725	22.25
	CV	3.38	2.45	13.89	12.24	28.75	17.03
	SE (W)±	0.95	0.72	13.53	5.99	0.17	2.45
	CD5%	2.741	-	-	-	-	-
	CD 1%	3.697	-	-	-	-	-

Conduction of IPM experiment in Farmers' field in Punjab

In Kharif 2003 IPM trials of maize were initiated in 20 acres of farmers fields in four blocks of Hoshiarpur district. Before undertaking the experiment a benchmark survey was conducted to know the major constraints in maize production, which revealed that maize stem borer (*Chilo partellus*) was posing a major threat to the crop with some minor incidence of stalk rot and Maydis leaf blight. Taking entomological, pathological and agronomical aspects into considerations, IPM strategy was developed. The variety Bio-9681, recommended for Punjab was used for this experiment.

The fields were observed every week for insect and disease incidences

Trichogramma chilonis @ 8 cards/ ha on 8,13 and 18 days after germination (DAG) (each card having 20,000 parasites eggs with *T. chilonis* wasp) were released.

The crop was observed for the symptoms of banded leaf and sheath blight (BLSB) when the crop was 35 days old. Wherever disease was noticed, two base leaf sheaths were removed from the infected plants to prevent spreading of BLSB.

The yield ranged from 57.76 to 34.02 q/ha; average being 44.86 q/ha. In non-experimental farmers' field the yield varied from 18-27 q/ha. On comparing the upper limit of the range i.e. 27 q/ha. with our experiment, the yield recorded 66.15 per cent higher in experimental fields.

Table: 12 Effect of Integrated Crop Management on Maize Yield

S. No.	Location	Experimental Plots (a/ha.)	Control (Yield a/ha.)	% Increase in yield over control
1	Monakalan	57.76	27	113.92
2	Haedrowal	39.37		45.81
3	Dansiwal	34.02		26.00
4	Kandhali Narangpur	48.30		78.88
Average		44.86		66.15

* Maize Productivity in Hoshiarpur district (Kharif 2002)-29.12 q/ha.

Source: Statistical Abstract of Punjab (2002) published by Economic Advisor, Government of Punjab.

Table:13 Economics of Maize Cultivation per acre in Kharif 2003 at Hoshiarpur

Crop Stage/Item	Quantity Required	Rate (Rs. Per Unit)	Farmer Practice	IPM
Tillage & Sowing	Tractor & Labour		350	350
Seed		50 per Kg	400	400
Fertilizer Application			-	
Urea	85 Kg.	240/50 Kg.	75 Kg. 360	408
DAP	50 Kg.	480/50 Kg.	25 Kg. 240	480
MOP	20 Kg.	222/50 Kg.	-	88.80
Zinc Sulphate	8 Kg.	103/10 Kg.	-	82.40
FYM	2 Trolley	200 per Trolley	1 Trolley 200	400
Weeding			-	
Herbicide Atrazin	800 gm.	220 Kg.	176	176
Manual Weeding			375	375
Trichocard	8 cards for 3 releases	30/card	-	240
Irrigation	1 Irrigation	20/ hrs. 12hrs. in 1 acre	240	240
Harvesting		350/trolley	2 Trolley 700	3 Trolley 1050
Shelling	20 th share of yield	27.5/q	330	495
Total cost			3,371	4785.2
Yield			12q	18q
Gross Income*			6,600	9,900
Net Profit/ acre			3,229	5,115
Net Profit/hectare			8,073	12,787

* Selling price of maize was Rs. 550/qtl.

The cost of cultivation were calculated based on the local cost. The cost incurred in non-experimental cultivation is mean of two farmers and was compared with experimental fields. The net profit was Rs. 4,714 per hectare more, when the farmers adopted the technology.

The gains of adopting technology

1. Maize growers in Hoshiarpur district can substantially increase their profit by adopting proper crop management.
2. Maize can be cultivated profitably without using chemical pesticides.

Various component of IPM were evaluated individually and integrated manner in small experiment at Dholi, Pantnagar, Nagenhalli and Udaipur.

Table: 14 Integrated Pest Management trials in Kharif 2003 at Dholi

S. No.	Treatment	Weed exist once in the field (%)	Maydis Leaf Blight (1-5 scale)	Incidence of cut worm & white ants (%)	Incidence of stem borer (%)	Grain yield (Q/ha.)
1.	Recommended Agromininal Practices (RAP)* only	45.0	2.4	2.0	10.0	35.0
2.	RAP + Pre-emergence spraying of Atrazin @0.15%	0.90	2.2	0.7	8.0	42.0
3.	RAP + hand weeding	15.8	2.3	1.5	9.0	39.4
4.	RAP + Stapling of trichocard	9.0	2.4	2.0	3.0	37.2
5.	RAP + Pre-emergence spraying of 0.15% of Atrazin + stapling of Trichocard	9.0	2.2	0.7	3.0	43.7
6.	-do-+ Spraying of 0.2% of Mancozeb after disease initiation	9.0	2.0	0.7	3.0	40.6
7.	RAP + Pre-emergence spraying of 0.15% of Atrazin + Whorl application of Furadon in infested plants	9.0	2.1	0.7	1.5	44.5
8.	-do-+Spraying of 0.2% Mancozeb after disease initiation	9.0	2.0	0.7	1.5	46.8
9.	As in 5 + spraying of 5% neem kernel extract + spraying of 1% <i>Trichoderma viride</i>	9.0	2.2	0.2	2.5	39.9
10	As in 9+ spraying of 0.2% Mancozeb in place of <i>Trichoderma viride</i>	9.0	2.0	0.2	2.5	45.4

* Sowing of Fungicidal treated seed of shaktiman-1 amended with neem cake, N.P.K and ZnSO₄ and irrigation.

Recommended Agronomical Practice (RAP)= Sowing of fungicide-treated seed of Shaktiman-1 on 5th June in the soil amended with neem cake @5 Q/ha. and N:P:K:ZnSO₄ @100:60: 40:25 kg/ha. and irrigation at 25 days interval (if needed).

Table: 15 Maize Insect Pest Trap Nursery (Kharif-2003), Kolhapur

Sr. No.	Inbred line	Stem borer <i>C. partellus</i> (% infested plants)			Grass hopper (% infested plants)	Army worm (No. of larvae/ 10 Plants)	Myllocerus weevils (No. of Adults/ 10 plants)	Leaf Roller (% infested plants)	Heliothis (% infested cobs)	Aphids (% infested plants)	Lady bird beetle (No. of Adults/ Plant)
		I	II	III							
1.	CM-104	10	12	12	5	2	7	8	2	21	4
2.	CM-105	12	13	13	7	0	2	7	0	11	3
3.	CM-111	11	11	11	16	2	3	6	1	9	2
4.	CM-115	9	10	10	0	0	4	6	3	15	3
5.	CM-119	10	12	12	9	2	2	5	2	14	3
6.	CM-120	16	16	16	2	0	0	6	2	20	2
7.	CM-125	9	11	11	15	3	2	7	3	16	2
8.	CM-209	15	15	15	14	3	0	10	4	13	2
9.	CM-210	15	15	15	5	2	2	5	2	7	1
10.	CM-400	10	11	11	10	0	0	7	1	16	4
11.	CM-500	10	10	10	0	1	4	8	2	8	2
12.	CM-600	14	14	14	5	1	2	5	0	19	3
13.	MPQ-13	5	7	7	0	1	0	5	0	7	2

Date of Sowing:

1.07.2003

Date of Germination:

6.07.2003

Date of Observation:

I) 15 days after germination: 21.07.2003

II) 45 days after germination: 20.08.2003

III) 80 days after germination: 24.09.2003

Evaluation of chemicals of against maize pests

Experiment for evaluation of Cruiser-70 WS a syngenta product against termites and aphids were laid out in irrigated and rain fed plots at Delhi, Karnal and Udaipur. The data collected on the pest infestation was indicative of the efficiency of the seed treatment chemical. A logical conclusion can be drawn after completing the second year trial.

Table: 16 Field evaluation of some insecticides and bio-pesticides against stem borer, *C. partellus* under artificial infestation Kharif 2003 at Kolhapur.

Sr. No.	Treatment	Dead-Heart (%)		Infested plants + Dead Heart (%)		Mean Damage Rating (1-9 scale)	Grain yield at 15% moisture (Q/ha.)
		Mean	Arcsin	Mean	Arcsin		
1.	Decis-2.8 E.C. 0.7 ml/lit.	0.00	0.00	6.10	14.12	1.08	42.37
2.	Fipronil 5 E.C. 2 ml/lit.	3.33	8.54	12.33	20.48	1.55	39.10
3.	Endosulfan 35 E.C. 1.6 ml/lit	6.77	14.85	26.66	31.07	2.56	35.25
4.	Imidacloprid 200 SL 0.3 ml/lit	15.38	23.09	55.04	47.97	4.90	31.99
5.	Multineem 0.03% 5 ml/lit	48.99	44.42	100.00	90.00	7.45	21.33
6.	N.S.K.E. 5%	45.33	42.31	100.00	90.00	7.22	21.92
7.	Biolep (Bt. K.) g/lit.	63.99	53.14	100.00	90.00	7.73	11.02
8.	Control (Untreated)	64.77	53.60	100.00	90.00	7.61	11.37
9.	S.E. ±		2.20		1.52		1.22
	C.D. (0.05)		6.65		4.60		3.68

1. Maize variety: Panchaganga
2. Spray fluid/L. 250 lit./ha.
3. One spray 14 days after germination
4. Infestation: Next day after spraying
5. No. of Replications: Three
6. Plot size: 3.75 x 1.5 m (Net)
7. Spacing: 75 x 25 cm.
8. Date of sowing: 25.8.2003
9. Date of germination: 31.8.2003
10. Date of spraying: 14.09.2003
11. Date of infestation: 15.09.2003
12. Date of observation: 20.10.2003

Table:17 Efficacy of insecticides and biopesticides against maize stem borer, *Chilo partellus* infesting maize in Kharif 2003, Udaipur

S. No.	TREATMENTS	PLANTS SHOWING LEAF INJURY (%)	PLANT SHOWING DEAD HEARTS (%)
1	Decamethrin (400 ml) at 7 and 14 DAG	34.58 (32.21)	32.29 (28.53)
2	<i>Azadirachtin</i> (2.0 ml/ha) at 7 and 14 DAG	37.57 (37.17)	37.36 (36.82)
3	Decamethrin (400 ml) at 7 and <i>Azadirachtin</i> (2.0 ml/ha) at 14 DAG	36.81 (35.90)	32.65 (29.11)
4	Accephate at 7 and 14 DAG	34.79 (32.56)	37.01(36.23)
5	Endosulfan (1.51/ha) at 7 and 14 DAG	33.01 (29.68)	32.70 (29.18)
6	<i>T. Chilonis</i> (11ac/ha) at 7 and 14 DAG	37.60 (37.23)	35.84 (34.29)
7	Control	41.05 (43.12)	42.44 (45.44)
	SEM	0.937	1.442
	CD at 5%	2.88	4.44

Table 18 Monitoring of insect pest and natural enemies on maize crop Kharif 2003 at Kolhapur

Sr. No.	Crop period (week after sowing)	Insect Pests								Natural Enemies		
		Stem borer (%)	Black winged Aphid (%)	Flea beetle (%)	Grass hopper (%)	White fly (Adult/plant)	Grey weevils No. of Adults/ 10 plant	Leaf roller	White grub (%)	Cob borer (%)	Lady bird beetle (Adult/plant)	Ear wig Plant
1.	1.	-	-	-	-	-	-	-	-	-	-	-
2.	2.	5.4	22.2	11.3	5.7	1-3	-	-	-	2-3	-	-
3.	3.	10.6	20.3	14.6	7.3	2-5	-	-	-	1-3	-	-
4.	4.	12.7	13.4	-	10.3	-	5-7	11.4	-	2-3	-	-
5.	5.	-	-	-	15.7	-	5-9	9.5	4.3	-	-	-
6.	6.	-	-	-	25.4	-	3-6	-	5.7	-	-	-
7.	7.	-	-	-	25.4	-	5-8	-	-	-	-	1-3
8.	8.	-	11.04 (Tassel)	-	26.2	-	3-7	-	-	16.7	2-3	2-3
9.	9.	-	-	-	-	-	6-9	-	-	17.2	-	-
10.	10.	-	-	-	-	-	8-9	-	-	-	-	-
11.	11.	-	-	-	-	-	4-6	-	-	-	-	-
12.	12.	-	-	-	-	-	-	-	-	-	-	-

Date of sowing: 17.07.2003

Date of Germination: 23.07.2003

Variety: Panchaganga (Composite)

Table: 19 Population dynamic studies of insect pests and natural enemies by aerial insect trap at Kolhapur

S. No.	Week duration	Insect Fauna *			Natural enemies
		Hemiptera	Coleoptera	Lepidoptera	
1.	24-30 August, 2003	-	-	Spodeptera moth-2	Hymenopterous parasites-4
2.	31 Aug.-6 Sep., 2003	i) Black winged Aphids-30 ii) Delphacids-15	-	-	-
3.	7 Aug.-13 Sep., 2003	i) Black winged Aphids-31 ii) Delphacids-9	-	-	-
4.	14 Sep.-20 Sep., 2003	i) Black winged Aphids-15	i) Grey weevils-15 ii) <i>H. serrate</i> beetle-3	-	-
5.	21 Sep.-27 Sep., 2003	i) Black winged Aphids-20 ii) Delphacids-5	i) Grey weevils-7 ii) <i>H. serrate</i> beetle-2	-	Neuropteran parasite-4
6.	28 Sep.-4 Oct., 2003	i) Green Jassids-5	i) Grey weevils-7 ii) <i>H. serrate</i> beetle-1	-	-
7.	5 Oct.-11 Oct., 2003	i) Delphacids-10	i) Grey weevils-7 ii) <i>H. serrate</i> beetle-2	-	-

* Count of two catches in a week.

Date of installation of trap 20.08. 2003

Table: 20 Relative susceptibility of maize germplasm against rice weevil, *Sitophilus oryzae*

S. No.	Germplasm	Initial Weight	Final weight	Net Weight Loss	Percentage of weight loss	Progeny emerged
1.	GM-1, K-2001	3.69	3.24	0.44	12.05	17.00
2.	DMR QPM-20-10-(X)-(X)-5	2.86	2.66	0.61	21.31	10.66
3.	DMR QPM-20-10-(X)-(X)-3	3.65	3.45	0.19	5.32	9.66
4.	Shakti SO/SN HE25 # CC bulk 50%-F-#-#-10-3-B-1-B-#	3.47	3.29	0.18	5.25	9.33
5.	28 Full Sib Families (MS)6Hecc.bulk. (X)-1-4-BBBB-8-###	3.03	2.18	0.85	28.12	34.33
6.	Gejara Sweet Corn	3.38	2.89	0.49	14.56	16.00
7.	28 Full Sib Families (MS)6Hecc.bulk. (X)-6-3-B-1-(X)-1-BB-DMR QPM-20-31-##	3.79	3.79	0.14	3.72	8.00
8.	28 Full Sib Families (MS)6Hecc.bulk. (X)-6-3-B-1-(X)-BB-DMR QPM-20-21-##	3.34	2.90	0.44	13.04	18.33
9.	28 Full Sib Families (MS)6Hecc.bulk. (X)-1-4-BBBB-###	2.92	2.59	0.28	9.55	18.66
10.	DMR QPM-28-5-(X)-(X)-bulk	2.02	1.99	0.03	1.49	7.00
11.	28 Full Sib Families (MS)6Hecc.bulk. (X)-1-4-BBBB-10-###	3.52	3.36	0.49	13.91	7.66
12.	Narmada Moti	5.42	5.15	0.42	7.71	12.00
13.	DMR QPM-74-(X)-(X)-bulk	3.40	3.14	0.26	7.62	14.66
14.	JM 8	5.59	5.26	0.34	5.99	10.00
15.	Rattan 27 SN cc. Bulk-f-###-(X)-21	3.43	2.92	0.47	13.70	15.00
16.	DMR QPM-17-(X)-(X)-bulk	3.09	2.87	0.22	7.10	16.66
17.	DMR QPM-16-(X)-(X)-bulk	2.82	2.20	0.62	21.95	36.33

18.	Code-1997	4.33	2.83	0.49	11.38	24.66
19.	HM 1 (10)	6.19	5.45	0.78	12.53	18.50
20.	HQPM-3 (8)	4.30	3.95	0.34	7.95	22.33
21.	JM 12 K 2001	5.72	5.52	0.20	3.55	12.00
22.	GM-2 K 2001	3.38	2.89	0.49	14.50	34.33
23.	Code-1932	2.67	2.24	0.43	16.25	28.00
24.	DMR QPM-18-(X)-(X)-bulk	3.32	3.22	0.10	2.95	3.50
25.	Priya sweet corn	1.83	1.73	0.19	10.28	2.50
26.	DMR QPM-28-(X)-(X)-bulk	3.34	2.19	1.15	34.44	42.50
27.	28 Full Sib Families (MS)6Hecc.bulk. (X)-6-3-B-1-(X)-BB-DMR QPM-20-20- ##	3.73	3.48	0.50		33.50
28.	DMR QPM-65-(X)-(X)-bulk	3.52	3.52	0.18	5.17	20.66
29.	DHM 105 (13)	4.75	4.42	0.33	6.84	12.00
30.	DMR QPM-68-(X)-(X)-bulk	2.36	2.33	0.10	4.41	23.33
31.	GM 4 K2001	5.21	4.86	0.35	6.76	14.00
32.	Amber popcorn 2002-03	3.34	3.10	0.25	7.33	13.00
33.	Win popcorn 2002-03 Rabi	2.76	2.46	0.30	10.88	22.66
34.	DMR QPM-53-(X)-(X)-bulk	3.64	3.25	0.39	10.67	28.66
35.	DMR QPM-75-(X)-(X)-bulk	3.03	2.81	0.22	7.39	22.66
36.	DMR QPM-18-(X)-(X)-bulk	3.18	3.08	0.10	3.09	7.66
37.	Shakti(SO) HS259# cc bulk-25-f-####-(X)-23	2.36	1.80	0.56		34.00
38.	Rattan 27 SN cc. Bulk-f-##-(X)-18	3.67	3.18	0.49	13.45	35.00
39.	White O2P4 Full Sib Families bulk Bulk cc-f-####-(X)-9	2.03	1.61	0.43	20.96	41.50
40.	HQPM-2(1)	4.66	4.30	0.35	7.56	14.33
41.	Paras	5.62	5.11	0.51	9.07	18.66
42.	Bolland (3)	5.00	4.84	0.16	3.20	13.00
43.	2505x6(4)	4.15	3.64	0.51	12.29	30.00
44.	GM3, K2001	5.04	4.10	0.94	18.59	35.00

45.	Win sweet corn	2.64	2.60	0.09	3.22	6.00
46.	Ashwani 2002-2003	5.15	4.68	0.47	9.11	25.33
47.	DMR QPM-60-(X)-(X)-bulk	2.75	2.08	0.67	24.43	46.66
48.	DMR QPM-28-(X)-(X)-bulk	3.22	2.43	0.88	27.37	50.00
49.	DMR QPM-58-(X)-(X)-bulk	3.09	2.28	0.81	26.06	54.50
50.	28 Full Sib Families (MS)6Hecc.bulk. (X)-6-3-B-1-(X)-BB-DMR QPM-20-7- ##	3.33	2.60	0.73		44.00
51.	Sheetal	5.25	5.05	0.20	21.80	18.66
52.	Shakti (SO)HE25#CC bulk 50%-F-#- 10-3-B-1-B-#	2.35	2.17	0.18	7.54	31.00
53.	28 Full Sib Families (MS)6Hecc.bulk. (X)-6-3-B-1-(X)-B-DMR QPM-20-7-##	2.79	2.41	0.38	13.45	36.50
54.	28 Full Sib Families (MS)6Hecc.bulk. (X)-15-1-BB-DMR QPM-60-#	2.72	2.16	0.56	20.66	49.50
55.	28 Full Sib Families (MS)6Hecc.bulk. (X)-1-4-BBBB-(X)-3-#-(X)-(X)-11	2.95	2.27	0.68	22.90	37.00
56.	DHM 103(12)	5.06	5.07	0.32	6.30	12.00
57.	HQPM 9	5.31	5.16	0.15	2.86	14.33
58.	Code-2507	3.76	3.52	0.29	7.80	12.00
59.	SO/SN Comp. Category 'o'-#-#-#-Bulk- 1-1-#-#-(X)-##	2.43	2.26	0.18	7.48	30.33
60.	Rattan 27 SN cc. Bulk-f-##-(X)-14	3.43	3.35	0.08	2.19	2.50

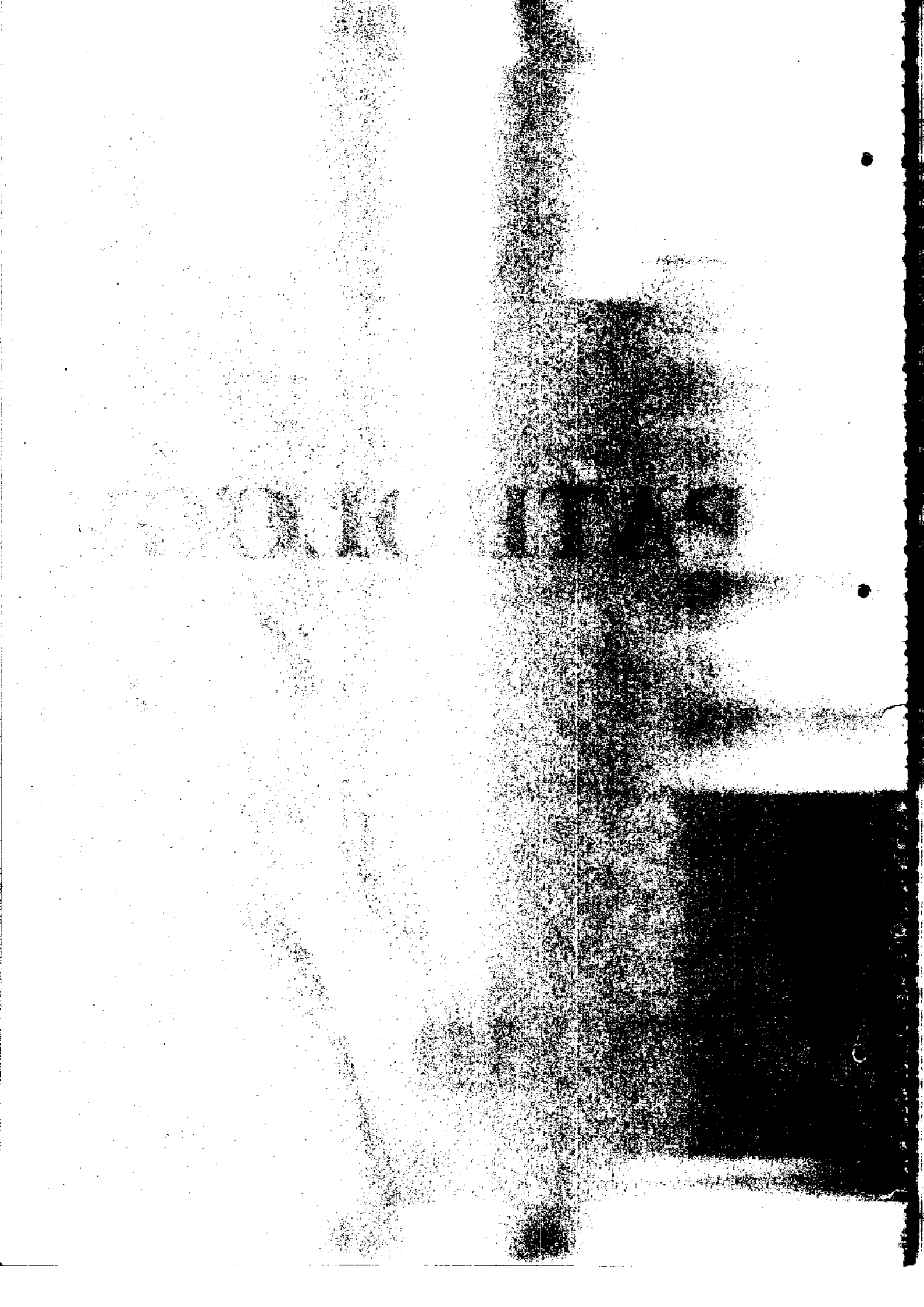
- 6 pair of insects released in 20 grains
- 3 replications
- weight loss recorded after 2 months of inoculation

Table: 21 Per cent mortality* of eggs/neonate larvae by organic fumigation with essential oil

Age of eggs	Emergence of larvae														
	1 μ l			2 μ l			5 μ l			10 μ l			Control		
	Neonate larvae		Egg	Neonate larvae		Egg	Neonate larvae		Egg	Neonate larvae		Egg	Neonate larvae		Egg
	Live	Dead		Live	Dead		Live	Dead		Live	Dead		Live	Dead	
<i>Trogoderma</i> eggs fumigated with <i>Geranium</i> oil (Exposer time: 5 days)															
0-24 hrs. old	100	-	-	84.0	16.0	-	74.1	25.9	-	-	100	-	100	-	-
24-48 hrs. old	90.0	10	-	64.0	36.0	-	42.8	57.1	-	-	100	-	92.5	7.4	-
48-72 hrs. old	100	-	-	65.2	34.7	-	28.5	71.4	-	-	100	-	87.0	12.9	-
<i>Trogoderma</i> eggs fumigated with <i>citronella</i> oil (Exposer time: 5 days)															
48-72 hrs. old	18.5	40.7	40.7	20.0	60.0	20.0	-	25.0	75.0	-	22.2	77.7	89.2	-	10.7
<i>Corcyra</i> eggs fumigated with <i>Geranium</i> oil (Exposer time: 3 days)															
48-72 hrs. old	70.0	30.0	-	68.9	31.0	-	6.6	93.3	-	-	100	-	86.2	-	13.8

* Average of three replications

ATHOLOGY



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Table No.1 Evaluation of maize genotypes (Early maturity) against diseases during kharif 2003- Trial No.75

SL. NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR
	AET 1st YEAR (EARLY MATURITY)								
1	BH-2862	1.0	1.5	2.0	2.8	4.0	1.1	2.0	2.0
2	HKH-1185	1.0	2.7	3.5	2.0	2.0	1.0	1.0	1.0
3	HKH-1210	1.3	2.5	3.3	2.0	2.0	1.9	1.5	1.5
4	FH-3210	1.3	3.5	3.3	2.7	2.5	1.5	1.5	1.5
5	FH-3210	1.3	2.5	3.5	4.4	2.0	1.5	1.5	1.5
6	JH-3851	1.3	2.5	2.3	2.6	1.5	1.0	2.0	2.0
7	PRO-358	1.0	2.7	3.0	2.5	3.5	1.0	1.5	1.5
8	PRO-357	1.0	1.5	3.3	2.4	3.5	1.0	1.5	1.5
9	PRO-356	1.0	2.0	2.5	2.9	3.5	1.4	1.5	1.5
10	SEEDTEC-114	1.8	1.7	2.3	3.2	3.5	1.5	1.5	1.5
11	SEEDTEC-122	1.5	1.8	2.0	2.0	3.0	1.0	1.0	1.0
12	SEEDTEC-205	1.3	2.7	3.3	2.8	5.0	1.9	2.0	2.0
13	BISCO-204	1.8	2.8	2.8	2.9	1.5	1.5	3.0	3.0
14	BISCO-2051	1.5	2.2	3.5	3.1	1.5	1.0	2.0	2.0
15	X 1150 Z	1.3	2.0	2.3	2.2	2.0	1.0	2.5	2.5
16	JKMH-810	1.3	1.5	2.5	3.2	2.0	1.0	1.0	1.0
17	FILLER	1.3	2.0	2.8	3.0	2.5	1.2	1.5	1.5
18	X-2182	1.3	1.2	1.5	2.8	3.5	1.0	2.0	2.0
19	X-2185	1.0	1.7	2.8	3.4	3.5	1.5	2.0	2.0
20	KMH-3	1.5	3.0	3.0	3.2	3.5	1.5	2.0	2.0
21	MCH-5	1.0	2.7	1.8	3.4	2.5	1.0	1.0	1.0
22	MCH-6	1.8	2.0	2.3	3.0	2.0	1.0	1.5	1.5
23	KMH-2	1.3	3.0	3.5	2.4	2.0	1.2	2.0	2.0
24	KMH-3	1.8	3.2	3.0	2.8	2.0	1.5	2.0	2.0
25	KMH-5	1.3	2.5	2.5	2.6	2.5	1.0	2.0	2.0
26	KMH-9	1.8	3.0	3.5	2.3	3.0	1.5	2.5	2.5
27	PAC-71006	1.8	2.7	2.5	4.2	3.5	1.0	2.0	2.0
28	PMZ-135	1.3	2.5	2.3	4.4	3.0	1.7	2.0	2.0
29	ZAURI-2052	1.3	1.7	2.5	2.8	2.5	1.0	1.0	1.0
30	ZAURI-2054	1.5	2.5	3.0	2.6	4.0	1.8	2.0	2.0
31	FILLER	1.3	3.0	4.0	4.2	3.5	1.9	2.5	2.5

Table No.1
Pedigree

SL NO	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR
AET 2nd YEAR (EARLY MATURITY)							
32	1.3	2.8	3.3	2.9	2.0	1.6	2.0
33	1.3	1.5	3.3	4.4	1.5	1.5	1.5
34	1.0	2.5	2.0	3.0	2.5	1.0	1.0
35	1.3	2.7	3.5	3.4	3.0	1.4	2.0
36	1.5	2.0	3.8	2.0	2.5	1.4	2.5
37	1.8	2.8	3.0	4.3	2.5	1.0	2.0
38	1.5	2.3	3.0	2.0	3.0	1.4	2.0
39	1.3	2.0	1.8	4.2	2.0	1.0	1.5
40	1.8	2.3	2.8	3.7	2.5	2.1	2.5
41	1.3	3.2	3.8	2.0	2.0	1.8	1.0
42	1.3	2.7	3.0	3.0	2.0	1.0	1.5
43	1.0	2.0	2.0	4.2	3.0	1.0	1.0
CHECKS							
44	1.8	2.7	3.8	3.8	2.5	1.3	1.0
45	1.5	2.8	4.0	3.5	3.0	2.1	2.0
46	1.5	2.5	3.0	2.8	3.0	1.6	1.0
47	1.8	3.2	3.5	4.3	2.0	1.5	2.0
48	1.8	3.5	4.3	2.9	4.0	2.3	2.0
49	1.0	3.0	3.8	2.8	2.5	1.5	2.5
50	1.3	2.5	3.3	4.4	2.0	1.0	2.5
51	1.3	2.5	4.0	3.2	3.5	2.4	3.0
52	1.5	2.8	2.0	3.5	3.5	1.4	3.0
CM-500	-	-	-	-	-	-	-
CML 186	-	-	-	4.7	-	-	-
CM-202	-	-	-	-	-	-	-
HK11341	-	-	-	-	-	-	5.0
Navjot	-	-	3.5	-	-	-	-
Early Corn	-	-	-	-	-	-	-
Local Check	2.5	1.3	-	-	-	-	-
Local Check (W)	-	-	-	-	-	-	-
MAI 120	-	-	-	-	-	-	-
Basi	-	-	-	-	-	-	-
Amar	-	-	-	-	-	-	-

Table No. 1

SL. NO	Pedigree	AET 1st YEAR (EARLY MATURITY)	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	MAND	COIM
1	BH-2862		2.0	2.0	3.5	3.0	3.8	4.0	-	100.0	100.0
2	HKH-1185		2.8	2.5	4.5	4.5	4.3	4.0	2.0	100.0	100.0
3	HKH-1210		3.5	3.4	5.0	4.5	4.0	4.0	-	100.0	100.0
4	FH-3210		2.5	2.0	5.0	4.0	4.8	4.0	3.0	100.0	100.0
5	FH-3210		2.0	2.2	4.5	4.0	4.0	3.5	3.0	100.0	100.0
6	JH-3851		3.0	3.5	4.5	4.0	4.3	3.0	2.5	100.0	100.0
7	PRO-358		1.8	2.0	3.0	2.0	3.0	4.0	3.0	100.0	100.0
8	PRO-357		1.5	2.0	4.0	2.5	3.3	5.0	2.0	100.0	95.8
9	PRO-356		1.8	2.3	3.5	3.0	4.0	4.0	2.0	100.0	100.0
10	SEEDTEC-114		1.3	1.8	3.5	1.0	3.0	3.5	3.0	97.5	100.0
11	SEEDTEC-122		1.5	1.8	2.5	0.5	3.5	3.5	2.0	46.9	84.1
12	SEEDTEC-205		1.8	1.8	2.5	1.0	4.3	4.5	4.0	35.1	60.0
13	BISCO-204		2.0	1.8	3.0	2.5	3.8	3.0	4.0	95.4	100.0
14	BISCO-2051		2.0	2.4	5.0	1.0	4.5	3.0	4.0	83.3	80.9
15	X 1150 Z		2.8	3.0	5.0	1.0	3.8	3.5	3.0	96.6	92.5
16	JKMH-810		2.0	2.0	2.0	1.5	3.5	4.0	3.0	100.0	48.7
17	FILLER		3.0	2.3	4.5	2.5	3.5	4.0	2.5	7.6	87.5
18	X-2182		2.0	2.3	3.0	2.0	3.0	4.0	1.0	100.0	95.0
19	X-2185		2.0	2.3	2.5	2.5	3.0	3.5	2.0	100.0	71.7
20	KMH-3		2.5	1.8	3.5	2.0	3.8	3.5	2.0	100.0	94.9
21	MCH-5		1.0	2.3	2.5	1.5	3.0	4.0	-	100.0	100.0
22	MCH-6		1.8	1.5	2.5	2.0	3.0	3.5	2.0	91.1	63.2
23	KMH-2		2.5	3.3	4.0	2.0	3.5	4.0	2.0	65.6	100.0
24	KMH-3		2.0	1.8	2.5	2.0	3.5	3.5	2.0	100.0	100.0
25	KMH-5		2.3	1.5	4.0	3.0	3.0	4.0	-	100.0	100.0
26	KMH-9		1.8	2.3	4.0	3.0	3.0	3.0	2.0	100.0	100.0
27	PAC-71006		1.5	2.4	2.5	2.0	3.8	3.5	4.0	100.0	100.0
28	PMZ-135		1.3	1.8	2.5	1.0	3.8	4.0	4.0	94.4	100.0
29	ZAURI-2052		1.0	1.8	2.5	2.5	3.3	3.5	3.5	100.0	100.0
30	ZAURI-2054		1.8	2.3	3.5	1.0	3.8	4.0	4.0	73.9	41.0
31	FILLER		2.0	2.9	5.0	4.5	4.0	3.5	2.0	96.4	100.0

Table No.1
Pedigree

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	MAND	SDM (%)	COIM
AET 2nd YEAR (EARLY MATURITY)											
32	FH-3186	2.0	2.6	4.5	3.5	4.0	4.0	3.0	100.0	100.0	100.0
33	FH-3176	2.0	3.0	4.5	3.0	4.3	4.0	3.5	100.0	100.0	100.0
34	FH-3161	1.0	2.5	2.5	0.5	4.5	3.5	2.0	100.0	100.0	100.0
35	R-9803	3.3	2.8	4.5	1.0	3.8	3.5	4.0	100.0	100.0	100.0
36	EC-3108	3.0	1.5	5.0	2.5	3.8	3.5	4.0	100.0	100.0	100.0
37	BIO-92109	1.8	2.3	2.0	1.0	3.8	4.5	5.0	100.0	100.0	100.0
38	BIO-92136	1.8	2.5	2.0	1.5	3.5	3.5	3.0	88.2	100.0	100.0
39	SEEDTEC-1202	1.8	1.8	2.0	1.0	3.3	4.0	3.0	100.0	100.0	100.0
40	SEEDTEC-1204	2.0	2.1	2.0	0.5	3.5	4.0	2.0	90.6	92.1	92.1
41	SEEDTEC-1205	3.0	2.3	3.5	1.0	3.5	4.0	3.0	82.7	92.6	92.6
42	PAC-70001	3.0	2.5	2.0	1.5	3.8	4.5	1.0	100.0	100.0	100.0
43	PRO-340	1.5	2.0	4.0	0.5	4.5	5.0	2.0	84.6	70.0	70.0
CHECKS											
44	HIM-129	2.0	2.5	5.0	3.0	4.5	4.5	3.0	95.0	100.0	100.0
45	SURYA	3.8	2.9	5.0	4.5	4.8	4.5	3.0	100.0	100.0	100.0
46	X-3342	2.5	2.3	3.5	2.0	3.8	4.0	2.0	100.0	100.0	100.0
47	KIRAN	3.0	2.8	4.5	4.0	3.8	3.0	2.0	100.0	100.0	100.0
48	MAHI KANCHAN	3.0	2.0	4.5	3.5	3.8	4.0	2.0	100.0	100.0	100.0
49	FILLER	2.5	3.1	4.5	3.5	3.8	4.5	3.0	100.0	100.0	100.0
50	CM-500	2.0	1.8	5.0	3.0	4.5	4.0	4.0	100.0	100.0	100.0
51	CM-600	3.5	3.3	5.0	4.5	4.5	4.0	3.0	100.0	100.0	100.0
52	CM-202	3.0	3.0	5.0	4.0	-	4.0	-	100.0	100.0	100.0
	CM-500	-	-	-	-	-	-	-	100.0	100.0	100.0
	CML 186	-	-	-	-	-	-	-	-	-	-
	CM-202	-	4.5	-	-	-	-	-	-	-	-
	HKI1341	-	-	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-	-	-
	Early Corn	-	-	-	4.5	-	-	2.5	-	-	-
	Local Check	3.0	-	-	-	-	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-	-	-	-
	MAI 120	-	-	5.0	-	-	-	-	-	-	-
	Basi	-	-	-	-	4.7	-	-	-	-	-
	Amar	-	-	-	-	4.2	-	-	-	-	-

Table No. 1

SL. NO	Pedigree	BSDM (1-5)		RDM	PFSR (1-9)		HYD	UDP	ESR (%)	PANT	C. RUST (1-5)	
		DHAU	PANT		LUD	DHAU					ARB	
	AET 1st YEAR (EARLY MATURITY)											
1	BH-2862	2.0	1.3	34.8	2.0	4.0	6.4	36.3	24.3	2.0		
2	HKH-1185	2.3	2.8	86.4	3.1	6.9	6.0	51.4	27.1	Tr		
3	HKH-1210	2.5	3.3	100.0	2.6	5.3	6.7	56.4	60.6	1.0		
4	FH-3210	2.8	5.0	84.0	2.5	6.6	6.1	79.2	51.8	2.0		
5	FH-3210	3.0	4.5	88.0	3.1	6.2	7.0	76.8	62.5	Tr		
6	JH-3851	1.6	1.3	96.0	3.4	6.0	3.4	12.8	0.0	1.5		
7	PRO-358	1.7	2.3	40.0	3.8	7.0	5.7	42.1	25.0	1.5		
8	PRO-357	1.3	1.0	8.7	2.3	6.2	8.7	25.6	15.0	2.0		
9	PRO-356	2.2	2.3	12.0	2.2	7.0	8.0	75.6	26.8	1.5		
10	SEEDTEC-114	1.9	1.0	0.0	1.6	4.4	2.9	75.3	0.0	Tr		
11	SEEDTEC-122	1.6	1.5	0.0	2.6	5.3	4.0	31.4	15.3	2.0		
12	SEEDTEC-205	2.5	1.3	11.1	3.8	6.7	5.8	76.4	50.5	1.5		
13	BISCO-204	2.7	1.0	4.0	4.0	6.2	2.7	28.4	6.6	1.5		
14	BISCO-2051	2.7	1.3	32.0	3.3	7.0	6.0	56.7	66.6	2.0		
15	X 1150 Z	1.9	3.3	8.0	3.0	6.4	4.9	65.4	50.0	Tr		
16	JKMH-810	1.8	2.8	0.0	4.0	6.3	5.2	69.6	99.9	1.0		
17	FILLER	2.5	1.0	31.8	4.3	6.2	6.6	69.3	11.5	1.5		
18	X-2182	1.7	1.0	13.0	1.8	4.9	4.3	44.1	15.9	1.5		
19	X-2185	1.8	1.3	63.6	2.0	6.0	4.4	63.0	18.0	1.5		
20	KMH-3	2.0	2.5	64.0	3.3	6.0	6.8	62.6	83.3	Tr		
21	MCH-5	2.1	1.5	4.8	2.8	5.9	6.8	66.2	0.0	Tr		
22	MCH-6	1.7	1.5	0.0	3.4	6.7	6.3	44.9	2.1	1.0		
23	KMH-2	2.7	1.5	95.5	4.8	7.0	6.7	34.6	53.3	Tr		
24	KMH-3	2.7	2.5	88.0	3.4	6.3	7.5	67.1	26.6	Tr		
25	KMH-5	2.8	1.5	80.0	3.3	5.7	6.1	46.8	10.4	1.8		
26	KMH-9	2.5	2.3	81.8	1.8	6.6	5.6	35.0	27.8	2.0		
27	PAC-71006	2.0	1.3	36.0	2.6	6.8	5.5	47.8	7.0	Tr		
28	PMZ-135	2.1	1.5	0.0	3.1	6.0	5.0	65.0	0.0	Tr		
29	ZAURI-2052	2.6	2.0	0.0	3.2	6.0	4.6	71.6	42.1	Tr		
30	ZAURI-2054	2.2	3.8	29.2	2.2	6.6	4.9	62.0	16.7	1.3		
31	FILLER	2.5	4.0	68.0	2.5	7.0	5.8	79.5	54.4	1.0		

Table No.1
Pedigree

SL NO	Pedigree	BSDM (1-5) DHAU	PANT	RDM UDP	PFSR (1-9) LUD	HYD	UDP	ESR (%) DHAU	PANT	C RUST (1-5) ARB
AET 2nd YEAR (EARLY MATURITY)										
32	FH-3186	2.7	5.0	39.1	2.8	6.2	5.6	84.6	43.1	2.5
33	FH-3176	2.0	4.5	39.1	2.0	6.5	5.3	73.5	46.7	2.0
34	FH-3161	3.0	3.3	70.6	3.5	5.2	2.9	74.0	12.5	2.3
35	R-9803	2.2	2.5	66.7	2.5	5.7	5.0	57.7	0.0	Tr
36	EC-3108	2.0	3.8	34.8	2.6	6.6	5.6	60.2	35.3	Tr
37	BIO-92109	2.1	4.3	47.6	3.3	6.0	3.3	57.5	35.6	Tr
38	BIO-92136	2.6	3.3	8.3	3.0	5.9	4.0	60.3	23.0	Tr
39	SEEDTEC-1202	1.4	1.5	8.7	3.5	6.4	3.8	47.4	16.5	1.5
40	SEEDTEC-1204	2.4	1.5	4.5	3.3	6.0	2.7	69.1	11.1	1.8
41	SEEDTEC-1205	2.5	1.5	20.0	3.0	6.3	4.8	60.1	22.4	1.5
42	PAC-70001	2.2	1.3	16.0	4.0	5.6	3.7	57.0	26.5	Tr
43	PRO-340	2.2	2.3	8.0	2.4	6.8	7.3	68.8	0.0	1.5
CHECKS										
44	HIM-129	2.8	2.8	28.0	4.0	6.9	6.1	86.9	75.0	Tr
45	SURYA	2.5	2.5	80.0	2.5	5.6	7.8	72.9	36.5	1.8
46	X-3342	1.5	1.3	30.4	4.0	6.1	5.9	47.2	30.2	Tr
47	KIRAN	2.8	3.3	79.2	5.0	6.7	6.9	82.3	82.5	2.8
48	MAHI KANCHAN	3.0	3.0	80.0	1.1	6.8	7.6	71.1	46.7	1.5
49	FILLER	2.4	2.5	81.8	2.6	6.6	6.8	80.1	25.0	1.0
50	CM-500	2.5	2.8	75.0	3.3	6.9	6.5	88.2	20.2	1.0
51	CM-600	3.5	4.5	68.0	2.6	7.0	6.9	97.6	5.5	1.0
52	CM-202	3.0	-	61.5	2.8	NG	5.8	69.8	-	4.0
CM-500	-	-	-	-	-	-	-	-	-	-
CML 186	-	-	-	-	-	-	-	-	-	-
CM-202	-	-	-	-	-	-	-	-	-	-
HKI1341	-	-	-	-	-	-	-	-	-	-
Navjot	-	-	-	-	-	-	-	-	-	-
Early Corn	-	-	-	-	-	-	-	-	-	-
Local Check	1.6	-	-	27.8	-	7.0	-	11.3	-	-
Local Check (W)	-	-	-	35.0	-	-	-	-	-	-
MAI 120	-	-	-	-	-	-	-	-	-	-
Basi	-	-	4.5	-	-	-	-	-	46.3	-
Amar	-	-	2.0	-	-	-	-	-	24.1	-

Table No 2 Evaluation of maize genotypes (Early maturity) against diseases during Kharif 2003 - Trial No.75 A

SL. NO	Pedigree	MLB (1-5)	DHAU	JASH	DHQ	DEL	LUD	KAR
1	AH-24007	1.5	2.7	2.8	2.9	2.0	1.9	2.0
2	AH-24012	1.5	3.4	2.8	2.0	2.0	1.6	2.5
3	AH-23015	1.0	3.0	2.5	2.8	3.5	1.9	2.5
4	AH-23041	1.0	3.0	3.3	3.2	2.0	1.0	1.0
5	JH-31005	1.0	2.9	3.0	3.4	2.5	1.3	1.0
6	EH-1266	1.5	2.3	3.3	4.5	4.5	1.5	2.0
7	EH-1297	2.0	3.0	3.8	4.4	3.5	1.9	1.0
8	EH-1318	1.5	3.3	3.0	2.9	2.0	1.3	2.5
9	FH-3259	1.3	2.0	2.3	3.2	3.5	1.5	1.0
10	FH-3239	1.0	2.0	2.5	3.4	4.0	1.5	2.5
11	FH-3246	1.0	1.0	1.8	2.0	3.5	2.0	1.0
12	HKH-1176	1.0	2.0	2.0	2.8	2.5	1.6	1.0
13	CHH-210	1.5	3.0	2.5	3.2	3.5	1.0	2.5
14	BVM-5 COMP.	1.5	2.2	3.3	3.0	2.5	1.6	2.0
15	BVM-6 COMP.	1.3	2.5	2.5	3.4	3.5	1.2	2.0
16	R-03/702	1.0	3.0	3.0	4.4	3.0	2.0	1.5
17	PRO-361	1.5	2.5	2.3	3.2	2.5	2.5	1.5
18	PRO-362	1.0	3.7	2.3	3.4	3.0	1.5	1.0
19	BIO-20171	1.3	3.6	2.3	2.0	4.0	1.0	4.0
20	PMZ-138	1.0	1.5	2.8	4.2	3.0	1.5	1.0
21	BISCO-2435	1.0	1.5	2.5	2.0	3.5	1.5	2.0
22	BISCO-1881	1.0	1.5	2.5	3.2	2.0	1.0	1.0
23	SEEDTEC-2041	1.0	3.5	2.8	2.0	2.0	1.2	2.0
24	SEEDTEC-2031	1.0	3.7	2.5	2.0	4.0	1.0	1.0
25	SGMH-101	1.5	3.2	2.5	3.0	3.0	1.0	2.0
26	AAMH-133	1.5	2.8	3.3	2.9	2.0	1.0	2.5
27	AAMH-138	1.0	3.0	3.0	3.4	3.5	1.0	2.5
28	X 1182 D	1.0	2.0	2.5	3.2	4.0	1.0	1.0
29	X 1182 K	1.0	1.7	3.0	3.4	4.0	1.3	1.5
30	JKMH-1701	1.0	2.2	3.3	4.4	2.0	1.8	2.0
31	JKMH-062	1.0	2.3	2.5	3.6	4.0	1.0	2.0

Table No 2

SL. NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR
32	MCH-15	1.3	1.5	2.0	2.0	2.0	4.5	1.5	1.0
33	SSF- X 2098	1.5	2.7	1.8	2.9	2.9	2.0	1.6	1.0
34	X-612	1.5	3.0	3.5	3.2	3.2	4.0	1.8	2.0
35	X-2097	1.0	1.6	2.0	3.0	3.0	4.0	1.4	1.0
36	KAVERI-2020	1.3	2.5	2.3	2.0	2.0	2.0	1.0	2.5
37	JH-31036	1.3	2.5	2.3	2.7	2.7	3.5	1.0	2.5
EXTRA EARLY MATURITY									
38	AH-23021	1.5	2.5	2.0	3.2	3.2	3.0	1.5	1.5
39	AH-23025	1.5	2.3	2.5	3.4	3.4	2.5	1.0	2.5
40	AH-23029	1.3	2.3	3.0	3.2	3.2	1.5	1.5	2.0
41	AH-23035	1.3	3.5	3.0	3.0	3.0	4.5	2.0	2.0
42	AH-23039	1.0	2.5	2.0	2.8	2.8	4.0	1.0	1.0
43	FH-3211	1.3	1.8	2.5	2.9	2.9	2.5	1.4	1.5
44	DEH-10103	1.5	2.5	2.8	4.5	4.5	2.5	1.2	3.0
45	DEH-10303	1.3	2.2	2.8	3.7	3.7	4.5	1.3	1.5
46	DEH-10503	1.3	3.5	2.8	3.8	3.8	4.0	1.9	2.0
47	DEH-11303	1.3	2.5	2.5	4.3	4.3	3.5	1.0	2.5
48	HKH-183	1.3	1.8	2.5	4.0	4.0	5.0	2.0	1.0
49	BVM-7 COMP.	1.0	2.8	3.3	4.2	4.2	2.5	1.2	1.5
50	JKMH-204-1	1.5	2.0	2.5	3.8	3.8	4.0	1.4	1.0
CHECKS									
51	HIM-129	1.3	3.0	3.0	4.4	4.4	2.5	2.3	2.5
52	SURYA	1.3	2.0	3.0	3.7	3.7	3.5	2.1	1.5
53	X-3342	1.3	2.7	2.5	2.0	2.0	4.5	2.3	1.0
54	MAHI KANCHAN	1.3	3.0	3.5	3.5	3.5	2.0	2.4	2.5
55	KIRAN	1.3	3.7	4.0	4.2	4.2	4.0	1.0	1.0
56	FILLER	1.5	3.5	3.8	2.9	2.9	3.0	2.6	3.5
57	CM-500	1.3	3.3	3.5	4.5	4.5	2.5	1.3	2.0
58	CM-600	1.3	2.5	3.3	3.0	3.0	1.5	2.1	3.0
59	CM-202	1.5	2.1	-	3.2	3.2	3.0	2.0	2.0

Table No 2

SL NO	Pedigree	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR
	CM-500	-	-	-	-	-	-	-
	CML 186	-	-	-	4.7	-	-	-
	CM-202	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	4.5
	Navjot	-	-	3.5	-	-	-	-
	Early Com.	-	-	-	-	-	-	-
	Local Check	1.5	1.3	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-
	Basi	-	-	-	-	-	-	-
	Amar	-	-	-	-	-	-	-

Table No 2

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND	COIM
1	AH-24007	2.0		5.0	3.5	4.0	4.0	1.0	100.0	100.0
2	AH-24012	2.3		4.5	2.5	2.5	4.0	2.0	100.0	100.0
3	AH-23015	2.0		3.5	0.5	3.5	4.0	2.0	100.0	100.0
4	AH-23041	1.5		3.5	2.0	3.5	4.0	1.0	100.0	100.0
5	JH-31005	1.8		3.5	4.5	3.5	3.0	2.0	100.0	100.0
6	EH-1265	2.0		4.0	1.5	3.5	4.5	1.0	100.0	100.0
7	EH-1297	2.3		4.5	3.0	3.5	4.0	1.0	100.0	100.0
8	EH-1318	2.0		4.5	0.5	4.0	4.0	2.0	100.0	100.0
9	FH-3259	2.8		5.0	2.0	4.5	4.0	-	100.0	100.0
10	FH-3239	1.5		4.5	1.5	4.5	4.5	1.0	100.0	100.0
11	FH-3246	1.8		2.5	3.5	3.5	4.5	2.0	96.9	100.0
12	HKH-1176	1.8		3.0	3.5	3.5	4.0	2.0	100.0	97.4
13	CHH-210	2.3		4.5	4.0	3.5	4.0	4.0	100.0	97.4
14	BVM-5 COMP.	2.8		4.0	2.0	3.0	3.5	3.0	95.0	100.0
15	BVM-6 COMP.	2.5		4.0	4.0	4.0	3.5	-	100.0	100.0
16	R-037702	1.5		4.5	4.0	4.5	4.0	-	100.0	94.7
17	PRO-361	1.8		4.0	1.0	3.5	3.0	1.0	100.0	82.9
18	PRO-362	1.8		3.5	0.5	3.0	3.0	2.0	91.6	79.1
19	BIO-20171	2.0		4.5	3.0	4.5	4.0	3.0	96.8	97.5
20	PMZ-138	1.0		3.0	1.0	4.0	4.0	1.0	100.0	97.5
21	BISCO-2435	1.0		2.0	1.5	2.5	4.0	2.0	50.0	60.5
22	BISCO-1881	1.3		2.5	1.0	3.0	3.5	2.0	73.9	84.2
23	SEEDTEC-2041	1.5		2.0	0.5	3.0	4.0	2.0	81.4	97.3
24	SEEDTEC-2031	1.0		2.0	1.0	3.0	4.0	3.0	45.9	86.8
25	SGMH-101	1.3		3.5	0.5	4.0	4.0	3.0	92.0	97.4
26	AAMH-133	1.5		4.5	1.5	4.5	3.0	1.0	100.0	100.0
27	AAMH-138	1.0		3.5	1.5	4.0	4.5	2.0	100.0	100.0
28	X 1182 D	2.0		4.0	0.5	3.5	4.0	1.5	91.1	100.0
29	X 1182 K	1.3		3.5	1.5	3.5	4.0	1.0	92.3	100.0
30	JKMH-1701	1.0		4.5	1.0	3.5	4.5	2.0	100.0	100.0
31	JKMH-062	1.5		2.5	2.0	3.5	4.0	2.0	100.0	100.0

Table No 2

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND	COIM	
32	MCH-15	1.5		4.5	1.0	2.5	3.0	2.0	25.8	76.3	
33	SSF-X 2098	2.0		2.0	2.0	-	3.5	1.0	100.0	100.0	
34	X-612	2.0		3.5	4.0	3.0	4.0	3.0	93.1	84.2	
35	X-2097	1.8		2.5	1.0	3.0	3.5	2.0	100.0	89.4	
36	KAVERI-2020	2.3		4.0	1.0	3.5	3.5	2.0	96.5	100.0	
37	JH-31036	3.0		4.5	3.5	2.5	3.5	2.0	100.0	100.0	
	EXTRA EARLY MATURITY										
38	AH-23021	1.3		2.5	3.0	4.0	4.0	2.0	100.0	100.0	
39	AH-23025	2.0		4.5	3.0	4.0	4.0	1.0	100.0	100.0	
40	AH-23029	2.0		4.0	2.0	3.0	4.0	3.0	95.2	100.0	
41	AH-23035	2.0		4.5	4.0	4.0	4.0	1.0	100.0	100.0	
42	AH-23039	1.8		3.5	2.0	3.5	4.0	-	100.0	100.0	
43	FH-3211	2.8		3.5	4.0	5.0	4.0	1.0	100.0	100.0	
44	DEH-10103	3.3		4.0	4.0	3.0	3.0	2.0	100.0	97.5	
45	DEH-10303	3.0		4.5	4.0	3.5	4.5	2.0	100.0	100.0	
46	DEH-10503	3.0		4.0	3.5	4.5	4.0	2.0	100.0	100.0	
47	DEH-11303	2.8		4.5	2.0	4.0	3.5	2.0	100.0	100.0	
48	HKH-183	3.0		4.5	4.5	4.0	4.5	3.0	100.0	100.0	
49	BVM-7 COMP.	2.8		4.0	0.5	4.5	3.0	2.0	100.0	97.4	
50	JKMH-204-1	2.0		3.5	3.5	4.0	4.0	3.0	61.5	94.7	
	CHECKS										
51	HIM-129	3.5		4.5	4.5	4.0	4.0	3.0	100.0	100.0	
52	SURYA	3.0		4.5	3.0	4.0	4.0	2.0	100.0	100.0	
53	X-3342	3.0		4.0	2.0	3.5	4.0	3.0	100.0	97.5	
54	MAHIKANCHAN	3.8		3.5	1.0	3.0	4.0	1.0	100.0	100.0	
55	KIRAN	3.5		5.0	0.5	3.5	3.5	2.0	100.0	100.0	
56	FILLER	3.3		4.0	4.0	3.0	4.0	3.0	100.0	100.0	
57	CM-500	3.5		4.0	4.0	4.5	4.0	2.0	100.0	100.0	
58	CM-600	4.5		5.0	4.5	-	3.0	3.0	100.0	100.0	
59	CM-202	4.5		4.5	4.0	3.0	4.0	-	100.0	100.0	

Table No 2

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND 100.0	COIM 100.0
	CM-500	-	-	-	-	-	-	-	-	-
	CML 186	-	-	-	-	-	-	-	-	-
	CM-202	-	4.5	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	2.5	-	-
	Early Com.	-	-	-	4.5	-	-	-	-	-
	Local Check	2.8	-	-	-	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-	-	-
	MAI 120	-	-	5.0	-	-	-	-	-	-
	Basi	-	-	-	-	4.7	-	-	-	-
	Amar	-	-	-	-	4.2	-	-	-	-

Table No 2

SL. NO	Pedigree	BSDM (1-5)	PANT	RDM	PFSR (1-9)	HYD	UDP	ESR (%)	PANT
		DHAU		UDP	LUD			DHAU	
1	AH-24007	2.5	3.5	80.0	2.8	4.6	5.4	57.5	-
2	AH-24012	2.6	1.0	76.5	2.6	5.1	3.1	50.6	-
3	AH-23015	2.3	1.0	76.2	4.0	4.1	5.7	29.1	99.9
4	AH-23041	3.0	3.0	77.3	3.0	4.8	3.9	38.0	37.5
5	JH-31005	2.6	1.5	36.4	2.8	4.2	3.9	34.6	0.0
6	EH-1265	3.3	3.0	25.0	2.8	6.3	6.5	77.0	0.0
7	EH-1297	3.0	1.0	57.1	3.8	6.2	3.8	50.8	99.9
8	EH-1318	2.6	4.0	54.5	3.2	6.0	5.9	66.6	99.9
9	FH-3259	2.8	1.0	52.6	2.8	4.6	6.6	59.4	33.3
10	FH-3239	2.2	3.0	87.0	3.8	7.2	5.9	63.6	50.0
11	FH-3246	1.3	3.0	10.5	3.2	7.1	6.4	45.4	5.8
12	HKH-1176	1.5	1.0	4.2	3.2	6.7	6.8	22.3	22.2
13	CHH-210	2.9	3.5	15.0	3.7	7.3	6.1	74.3	0.0
14	BVM-5 COMP.	2.5	3.0	45.0	3.6	7.6	5.4	62.1	6.2
15	BVM-6 COMP.	2.8	3.0	43.8	3.8	6.2	5.8	49.2	-
16	R-03702	2.3	1.5	52.4	3.4	5.9	53.8	61.7	22.2
17	PRO-361	2.1	1.0	0.0	3.4	7.0	8.2	44.7	-
18	PRO-362	2.6	1.5	5.0	3.8	6.6	6.5	40.9	28.5
19	BIO-20171	2.8	3.0	48.0	2.6	5.2	5.1	22.9	80.0
20	PMZ-138	1.8	1.0	4.5	3.6	4.3	7.1	24.6	-
21	BISCO-2435	1.9	1.0	0.0	2.7	5.2	3.1	53.6	0.0
22	BISCO-1881	2.0	1.0	0.0	3.0	3.6	3.3	77.2	-
23	SEEDTEC-2041	2.7	1.0	4.5	3.2	7.3	4.4	45.4	50.0
24	SEEDTEC-2031	2.3	1.5	0.0	2.6	4.7	3.8	44.8	22.2
25	SGMH-101	2.8	1.5	5.0	4.8	5.0	4.5	42.7	44.4
26	AAMH-133	3.0	1.5	85.0	3.6	4.5	3.5	66.8	99.9
27	AAMH-138	3.0	2.0	75.0	3.6	4.2	2.7	46.8	38.4
28	X 1182 D	2.0	1.5	4.3	3.4	4.8	3.8	54.5	-
29	X 1182 K	1.8	1.5	14.3	2.6	5.9	2.9	56.2	9.5
30	JKMH-1701	2.3	1.0	14.3	2.4	3.4	4.2	75.3	0.0
31	JKMH-062	3.0	1.5	12.5	3.4	5.9	4.8	0.0	5.8

Table No 2

SL. NO	Pedigree	BSDM (1-5)	RDM		PFSR (1-9)	HYD	UDP		ESR (%)	PANT
			UDP	LUD			UDP	LUD		
32	MCH-15	2.4	3.0	4.5	3.0	7.3	6.4	55.4	33.3	
33	SSF- X 2098	2.5	-	40.9	3.2	5.5	3.2	59.0	-	
34	X-612	2.1	1.0	19.0	2.8	4.4	3.4	51.3	5.0	
35	X-2097	2.2	1.0	0.0	3.6	6.9	2.9	34.4	9.1	
36	KAVERI-2020	1.9	3.0	21.7	3.4	5.7	5.0	36.7	0.0	
37	JH-31036	2.6	1.5	78.3	3.2	5.0	3.2	29.3	0.0	
	EXTRA EARLY MATURITY									
38	AH-23021	1.8	2.0	76.0	2.8	6.8	6.0	43.7	17.6	
39	AH-23025	1.7	5.0	42.9	3.6	5.2	7.0	64.0	30.7	
40	AH-23029	2.3	1.5	47.4	2.6	4.3	6.8	59.3	0.0	
41	AH-23035	2.4	3.0	28.0	3.4	5.2	5.6	43.1	35.2	
42	AH-23039	1.9	1.0	16.0	3.4	5.2	5.8	50.9	-	
43	FH-3211	1.6	5.0	100.0	3.8	6.7	6.2	70.9	68.4	
44	DEH-10103	2.0	1.0	72.2	4.0	7.5	6.6	81.6	66.6	
45	DEH-10303	1.9	2.0	77.3	3.8	7.1	6.4	69.1	-	
46	DEH-10503	2.5	2.0	52.6	2.8	6.9	7.6	74.6	60.0	
47	DEH-11303	2.7	1.5	65.2	3.6	6.0	6.9	61.4	54.5	
48	HKH-183	3.0	1.0	87.5	4.2	7.3	7.1	44.8	-	
49	BVM-7 COMP.	2.7	2.5	52.4	3.6	7.6	5.6	70.1	-	
50	JKMH-204-1	1.7	1.0	0.0	3.2	6.4	7.1	58.8	-	
	CHECKS									
51	HIM-129	3.0	1.5	72.2	3.0	7.0	7.6	89.7	11.1	
52	SURYA	2.9	2.0	22.7	2.8	5.8	6.2	56.1	42.8	
53	X-3342	2.5	1.0	25.0	2.4	5.6	6.3	86.8	18.1	
54	MAHI KANCHAN	2.8	2.0	93.8	3.2	7.1	5.5	37.5	10.0	
55	KIRAN	2.2	2.0	89.5	2.4	6.4	6.0	54.9	53.8	
56	FILLER	2.6	1.5	68.4	3.6	7.0	5.2	78.3	0.0	
57	CM-500	2.6	1.0	62.5	4.2	6.8	4.9	85.7	-	
58	CM-600	2.8	1.5	75.0	3.2	7.4	7.2	73.2	-	
59	CM-202	2.8	3.0	85.7	-	2.8	1.9	44.2	0.0	

Table No 2

SL. NO	Pedigree	BSDM (1-5)		RDM		PFSR (1-9)		ESR (%)	
		DHAU	PANT	UDP	LUD	HYD	UDP	DHAU	PANT
	CM-500	-	-	-	-	-	-	-	-
	CML 186	-	-	-	-	-	-	-	-
	CM-202	-	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-
	Early Com.	-	-	-	-	-	-	-	-
	Local Check	1.5	-	27.8	-	7.3	-	14.5	-
	Local Check (W)	-	-	35.0	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-	-
	Basi	-	4.5	-	-	-	-	-	46.3
	Amar	-	2.0	-	-	-	-	-	24.1

Table 10.3 Evaluation of major genotypes in terms of sugar yield/crop/ha (2003-2005) (Table 10.3)

Sl. no	Pedigree	MLB (P-5) ALV	DM (%)	WSP	SPC	Yield	MLB
AET 1st YEAR - MEDIUM MATURITY							
1	BH-2359	1.3	3.6	2.8	2.6	3.3	2.0
2	BH-2809	1.3	1.7	2.3	3.0	2.5	1.0
3	FILLER	1.5	1.0	2	3.3	2.5	1.0
4	EC-3121	2.5	2.7	3.5	3.0	3.0	2.0
5	EC-3122	1.0	2.6	3.6	2.6	4.0	2.5
6	FILLER	1.3	1.7	2.3	3.3	3.0	1.0
7	WC-14-1 (DBM)	2.0	2.9	2.8	3.1	3.5	2.5
8	HKH-1203	1.0	1.5	2.5	2.8	4.0	1.5
9	HKH-1208	1.3	3.0	2.5	3.0	4.0	1.0
10	L-166	1.3	2.7	2.8	4.2	2.5	2.0
11	BIO-22027	1.0	1.0	1.8	4.4	2.5	1.0
12	PMZ-237	1.5	1.6	2.3	3.2	3.0	1.0
13	PMZ-131 (RETESTING)	1.3	2.2	2.8	4.2	2.5	1.5
14	BISCO-1102	1.0	1.0	2	2.0	2.5	2.0
15	BISCO-201	1.0	1.7	2	2.8	3.5	1.5
16	SEEDTEC-1081	1.0	3.0	1.8	2.7	2.5	1.5
17	SEEDTEC-168	1.3	2.2	2.8	2.8	3.0	2.0
18	NMH-20507	1.3	2.7	2.5	2.0	3.5	2.0
19	MCH-7	1.3	1.2	1.5	4.0	4.5	1.0
20	ZAURI-2027	1.0	2.5	2.5	4.3	3.0	1.5
21	ZAURI-2021	1.0	2.4	1.8	3.0	3.5	1.0
22	AAMH-513	1.8	2.5	1.8	2.8	4.5	2.0
23	AAMH-511	2.0	2.2	3.5	3.2	3.0	2.0
24	X 1280 A	1.0	3.0	2.5	3.4	2.5	2.0
25	JKMH-1001	1.3	2.2	2.5	3.2	3.5	1.5
26	NECH-119	1.0	3.0	2.3	3.4	4.5	1.5
27	NECH-120	1.0	3.0	2.3	3.2	3.5	1.0
28	X-26	1.5	2.5	2.3	4.2	3.0	2.5
29	NMH-20507	1.5	2.7	2.3	2.0	3.5	1.0

Table No.3
Pedigree

SL. NO	CHECKS	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR
30	KH 510	1.8	3.0	2.3	2.9	4.5	1.5	2.0
31	NAVJOT	1.8	2.2	3.8	3.0	2.0	1.5	1.5
32	FILLER	1.8	3.0	3.8	3.2	2.5	1.4	2.0
33	CM-500	2.8	2.2	2.8	4.3	4.0	1.5	3.5
34	CM-600	1.5	2.9	4.5	3.2	4.0	1.7	3.0
35	CM-202	2.0	2.1	3.0	4.4	2.0	2.2	3.0
AET 2nd YEAR (MEDIUM MATURITY)								
36	HKH-1206	1.3	3.0	2.3	3.4	3.5	1.7	1.0
37	EC-3116	1.5	2.4	4.3	3.2	2.5	2.0	2.0
38	EC-3110	1.5	1.8	3.8	3.4	2.0	2.2	2.0
39	BISCO-3123	1.3	1.5	2.3	3.3	4.0	1.6	2.0
40	BISCO SURAJ-11	1.3	2.0	2.8	4.0	3.5	1.2	2.0
41	AAMH-204	1.5	1.7	1.8	4.2	2.0	1.1	1.0
42	NECH-113	1.0	1.6	1.8	3.2	3.0	1.2	1.0
43	X-2003	1.3	1.5	3.0	3.4	2.5	1.7	1.5
44	KAVEERI-235	2.8	1.2	2.3	3.2	3.0	1.5	1.0
45	JKMH-1080	1.5	-	1.5	3.5	2.0	1.1	1.0
	CM-500	-	-	-	-	-	-	-
	GML 186	-	-	-	4.7	-	-	-
	CM-202	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	4.5
	Navjot	-	-	3.3	-	-	-	-
	Early Com.	-	-	-	-	-	-	-
	Local Check	1.5	1.3	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-
	Basi	-	-	-	-	-	-	-
	Amar	-	-	-	-	-	-	-

Table No.3

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND	COIM
	AET 1st YEAR (MEDIUM MATURITY)									
1	BH-2359	2.3	1.5	2.0	2.0	-	3.5	2.0	100.0	100.0
2	BH-2809	2.0	1.8	3.5	1.5	3.3	4.0	3.0	100.0	100.0
3	FILLER	1.5	2.0	4.5	1.5	3.0	2.5	2.0	76.0	95.3
4	EC-3121	3.0	2.5	3.0	2.5	3.3	4.0	2.0	100.0	100.0
5	EC-3122	2.5	2.0	3.5	1.0	3.5	4.0	2.0	96.7	100.0
6	FILLER	2.5	1.8	3.5	1.0	3.3	3.5	3.0	100.0	100.0
7	WC-14-1 (DBM)	3.0	2.8	3.5	3.0	2.8	3.5	3.0	100.0	100.0
8	HKH-1203	3.5	2.4	2.5	1.5	3.5	4.5	3.0	100.0	100.0
9	HKH-1208	2.0	3.1	3.5	2.0	3.8	2.5	1.0	97.1	100.0
10	L-166	2.5	2.6	4.5	2.5	3.5	4.0	1.0	93.5	95.0
11	BIO-22027	1.3	2.3	2.5	1.5	4.5	4.0	3.0	79.3	90.0
12	PMZ-237	1.8	1.9	2.5	1.0	4.3	4.0	3.0	84.8	84.6
13	PMZ-131 (RETESTING)	1.5	2.6	2.0	1.0	3.5	3.5	1.0	87.5	94.8
14	BISCO-1102	2.0	1.5	3.5	2.0	2.5	3.5	5.0	65.0	97.4
15	BISCO-201	2.0	2.0	5.0	1.0	3.0	3.0	4.0	100.0	97.4
16	SEEDTEC-1081	1.8	2.6	4.5	2.0	3.3	3.0	1.0	79.1	100.0
17	SEEDTEC-168	2.0	2.0	2.0	1.0	2.8	4.0	2.0	75.0	87.5
18	NMH-20507	1.8	2.3	4.0	0.5	2.8	4.0	3.0	82.1	100.0
19	MCH-7	1.0	1.5	2.0	0.5	2.8	4.0	2.0	80.9	100.0
20	ZAURI-2027	1.6	2.2	4.5	0.5	3.0	3.5	2.0	28.5	95.0
21	ZAURI-2021	1.5	1.8	3.5	0.5	2.5	3.0	2.0	100.0	92.5
22	AAMH-513	2.0	2.0	4.5	1.5	3.3	3.5	3.0	100.0	100.0
23	AAMH-511	1.8	3.1	4.0	1.5	3.5	3.5	2.5	100.0	100.0
24	X 1280 A	1.0	1.5	3.0	1.5	2.8	2.5	3.0	27.2	100.0
25	JKMH-1001	1.5	2.5	4.5	1.0	3.5	4.0	3.0	88.8	79.5
26	NECH-119	1.6	2.4	4.5	1.0	3.0	4.0	4.0	100.0	97.4
27	NECH-120	1.0	2.3	2.0	2.0	2.8	4.0	2.0	95.6	100.0
28	X-26	1.5	2.3	4.5	1.5	3.5	4.0	2.0	100.0	94.7
29	NMH-20507	2.0	2.0	4.5	2.0	3.0	3.5	2.0	96.6	94.7

Table No.3
Pedigree

SL. NO	CHECKS	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	MAND (%)	COIM
30	KH 510	2.0	2.0	2.5	1.0	3.5	4.0	3.0	93.7	97.3
31	NAVJOT	2.0	3.0	4.0	4.0	3.5	3.5	3.0	100.0	100.0
32	FILLER	1.8	2.2	3.5	4.0	3.0	3.0	2.0	100.0	100.0
33	CM-500	3.0	2.6	4.5	2.5	4.3	4.5	3.0	100.0	100.0
34	CM-600	3.8	3.0	4.5	3.0	4.5	4.0	3.0	90.0	100.0
35	CM-202	3.5	3.4	4.5	NG	4.5	4.0	NG	100.0	100.0
AET 2nd YEAR (MEDIUM MATURITY)										
36	HKH-1206	1.5	2.4	3.5	2.0	3.5	4.5	2.0	100.0	100.0
37	EC-3116	2.0	2.0	3.5	1.0	3.0	4.0	-	100.0	100.0
38	EC-3110	1.5	3.2	2.5	1.5	3.3	4.0	2.0	94.1	100.0
39	BISCO-3123	2.0	2.3	2.0	0.5	2.3	4.0	2.0	73.9	100.0
40	BISCO SURAJ-11	1.3	2.0	2.0	1.5	2.5	4.0	3.0	100.0	100.0
41	AAMH-204	1.3	2.1	4.5	2.0	3.3	4.0	2.0	69.9	97.5
42	NECH-113	1.5	2.8	2.5	1.0	3.3	3.0	3.0	100.0	100.0
43	X-2003	2.0	2.2	3.5	1.5	3.0	4.0	2.0	96.7	100.0
44	KAVEERI-235	1.5	2.3	3.5	1.5	3.3	3.5	3.0	100.0	100.0
45	JKMH-1080	1.3	2.0	4.5	0.5	3.8	3.0	2.0	100.0	100.0
	CM-500	-	-	-	-	-	-	-	100.0	100.0
	CML 186	-	-	-	-	-	-	-	-	-
	CM-202	-	4.5	-	-	-	-	-	-	-
	HKH1341	-	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-	-
	Early Com.	-	-	-	4.5	-	-	2.5	-	-
	Local Check	2.5	-	-	-	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-	-	-
	MAI 120	-	-	5.0	-	-	-	-	-	-
	Basi	-	-	-	-	4.7	-	-	-	-
	Amar	-	-	-	-	4.2	-	-	-	-

Table No.3
Pedigree

SL. NO	Pedigree	BSDM (1-5) DHAU	PANT	RDM UDP	PFSR (1-9) LUD	HYD	UDP	ESR (%) DHAU	PANT	C. RUST (1-5) ARBH
	CHECKS									
30	KH 510	2.5	1.3	28.6	3.4	3.4	3.1	73.2	50.0	1.5
31	NAVJOT	3.0	2.8	12.5	3.4	4.3	5.0	67.2	13.6	3.3
32	FILLER	3.0	3.3	70.8	3.4	6.6	6.3	78.6	34.3	2.5
33	CM-500	2.5	2.8	76.0	2.6	7.0	6.7	90.7	40.3	1.5
34	CM-600	3.0	4.5	62.0	2.4	7.2	6.4	95.6	30.1	15.0
35	CM-202	2.4	4.0	66.7	2.6	2.0	4.9	87.5	15.3	2.6
	AET 2nd YEAR (MEDIUM MATURITY)									
36	HKH-1206	2.9	5.0	60.0	3.2	6.0	4.2	84.6	55.7	1.0
37	EC-3116	2.6	2.8	63.2	2.5	5.5	5.5	56.8	26.7	2.3
38	EC-3110	2.4	1.8	45.5	3.2	4.8	5.8	74.6	18.7	2.0
39	BISCO-3123	2.0	1.8	56.5	2.1	2.0	5.2	65.1	52.9	Tr
40	BISCO SURAJ-11	1.5	1.5	36.4	3.0	2.8	3.8	69.7	36.5	Tr
41	AAMH-204	2.0	3.8	20.8	2.8	3.7	3.6	71.6	35.8	1.6
42	NECH-113	1.6	1.0	47.6	3.1	3.7	3.0	77.2	33.6	2.8
43	X-2003	2.1	1.5	26.1	2.6	5.4	4.9	67.3	17.5	1.5
44	KAVEERI-235	1.4	1.3	64.0	2.8	2.9	4.3	72.1	33.3	1.3
45	JKMH-1080	2.4	1.3	29.2	3.1	5.3	5.4	76.7	80.5	2.3
	CM-500	-	-	-	-	-	-	-	-	-
	CML 186	-	-	-	-	-	-	-	-	-
	CM-202	-	-	-	-	-	-	-	-	4.0
	HKI1341	-	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-	-
	Early Com.	-	-	-	-	-	-	-	-	-
	Local Check	1.9	-	45.8	-	7.3	-	12.7	-	-
	Local Check (W)	-	-	35.0	-	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-	-	-
	Basi	-	4.5	-	-	-	-	-	46.3	-
	Amar	-	2.0	-	-	-	-	-	24.1	-

Table No 4 Evaluation of maize genotypes (Medium maturity) against diseases during kharif 2003 - Trial No.76 A

SL NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR
	IET MEDIUM MATURITY								
1	BH-3298	1.0	1.5	1.8	2.7	3.0	3.0	1.7	2.0
2	BH-3299	1.3	2.0	2.3	3.0	3.0	3.0	1.4	2.5
3	BH-3443	1.3	2.5	1.8	2.8	4.0	4.0	1.6	1.0
4	CHH-202	1.3	2.0	3.5	3.2	4.0	4.0	1.8	1.0
5	JH-10362	1.3	1.5	1.8	3.4	2.5	2.5	1.7	1.0
6	JC-1456	1.3	2.5	2.8	2.0	4.0	4.0	1.7	1.0
7	JC-1459	1.5	1.5	2.0	3.0	2.5	2.5	1.7	1.5
8	HKH-1200	1.3	2.0	1.5	3.0	4.5	4.5	1.3	1.0
9	L-182	1.5	1.0	3.0	2.8	2.0	2.0	1.7	1.5
10	L-134	1.5	2.0	3.5	3.0	3.5	3.5	2.3	1.0
11	AH-23007	1.3	1.8	3.0	4.2	3.0	3.0	1.8	1.0
12	AH-23071	1.8	2.5	3.3	4.3	2.5	2.5	1.7	3.0
13	AH-24008	1.3	1.5	2.3	3.2	2.0	2.0	1.2	1.0
14	AH-24020	1.5	1.8	3.0	2.9	3.5	3.5	1.7	1.0
15	BIO-22069	1.3	1.5	2.3	2.6	3.0	3.0	1.0	1.5
16	BIO-22045	1.5	2.5	2.5	3.2	2.0	2.0	1.7	2.0
17	PMZ-136	1.5	2.7	1.8	3.0	2.5	2.5	2.0	3.0
18	BISCO-0101	1.3	2.0	1.5	2.8	4.0	4.0	1.2	1.0
19	BISCO-0102	1.3	1.8	1.8	2.0	2.5	2.5	1.7	1.0
20	SEEDTEC-663	1.3	1.7	2.5	3.0	2.5	2.5	1.7	2.5
21	SEEDTEC-2437	1.3	1.7	2.3	2.7	3.0	3.0	1.3	2.0
22	VIPL-1501	1.8	1.7	2.8	3.2	3.0	3.0	1.3	1.0
23	VIPL-1503	1.8	2.7	3.5	4.4	3.0	3.0	2.4	3.0
24	AAMH-831	1.3	2.7	2.0	3.0	1.5	1.5	1.0	2.0
25	AAMH-574	1.5	2.0	2.0	3.1	2.5	2.5	1.0	2.0
26	JKMH-207	1.3	2.0	3.0	3.2	3.5	3.5	1.7	3.0
27	JKMH-1512	1.3	1.2	1.5	2.9	3.5	3.5	1.0	1.0
28	NECH-126	1.5	1.0	1.8	3.0	3.0	3.0	1.2	1.5
29	NECH-127	1.3	2.0	2.5	3.2	2.0	2.0	1.2	1.0
30	SSF-X 87	1.5	3.0	2.8	3.4	4.5	4.5	1.4	1.0

Table No 4

SL. NO	Pedigree	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR
31	SSF-X 88	1.3	2.0	3.5	3.2	5.0	1.3	2.0
32	X-2005	1.3	2.0	2.0	2.0	1.5	1.5	1.5
33	X-2003 A	1.3	1.5	2.3	3.0	3.0	1.4	1.0
34	KAVERI-2288	1.3	1.5	2.0	2.0	3.0	2.0	2.0
35	NMH-1034	1.3	1.5	1.5	2.0	3.0	1.4	1.0
36	SMH-3758	1.5	2.0	2.3	2.0	3.5	1.4	1.5
37	MAHABEEJ-1100	1.3	2.3	2.5	4.2	3.0	1.0	1.0
38	MAHABEEJ-1102	1.3	2.5	-	4.3	3.0	1.2	1.0
	CHECKS							
39	KH 510(CHECK)	1.3	3.0	2.3	3.2	2.5	1.1	2.0
40	NAVJOT(CHECK)	1.5	3.0	3.8	4.0	2.5	1.4	2.5
41	CM-500	1.3	2.5	3.5	3.0	2.0	1.3	3.0
42	CM-600	1.5	3.5	4.0	3.0	3.0	1.4	3.0
43	CM-202	1.5	2.0	3.5	2.9	3.5	3.0	2.0
	CM-500	-	-	-	-	-	-	-
	CML 186	-	-	-	4.7	-	-	-
	CM-202	-	-	-	-	-	-	-
	HKI1341	-	-	-	-	-	-	4.5
	Navjot	-	-	3.5	-	-	-	-
	Early Com.	-	-	-	-	-	-	-
	Local Check	1.8	1.2	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-
	Basi	-	-	-	-	-	-	-
	Amar	-	-	-	-	-	-	-

Table No 4

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND	COIM	
IET MEDIUM MATURITY											
1	BH-3298	1.5		3.5	1.5	3.0	4.0	2.0	100.0	100.0	
2	BH-3299	1.5		4.5	-	3.0	3.5	3.0	100.0	100.0	
3	BH-3443	2.0		3.5	2.0	4.0	3.5	3.0	100.0	100.0	
4	CHH-202	1.5		2.5	2.5	3.0	3.0	2.0	95.2	100.0	
5	JH-10362	1.3		4.5	1.0	4.0	4.0	2.0	100.0	100.0	
6	JC-1456	2.3		4.5	2.5	3.5	4.0	3.0	100.0	87.5	
7	JC-1459	1.8		3.5	2.0	3.0	3.5	2.0	96.8	85.0	
8	HKH-1200	1.3		3.0	1.0	3.5	4.0	3.0	85.0	100.0	
9	L-182	1.8		4.0	1.5	4.0	3.5	2.0	100.0	100.0	
10	L-134	1.3		5.0	1.0	3.5	4.0	1.5	100.0	100.0	
11	AH-23007	2.0		2.0	2.0	4.0	3.0	2.0	100.0	100.0	
12	AH-23071	2.3		4.5	3.0	3.0	3.0	1.0	100.0	100.0	
13	AH-24008	2.5		3.0	3.0	3.5	4.0	2.0	100.0	100.0	
14	AH-24020	2.0		4.0	1.0	4.0	4.0	2.0	100.0	100.0	
15	BIO-22069	1.8		3.5	0.5	3.5	4.0	3.0	100.0	89.5	
16	BIO-22045	1.5		2.0	-	3.5	3.5	3.0	72.4	92.3	
17	PMZ-136	1.3		4.0	0.5	3.5	4.0	2.0	93.1	56.1	
18	BISCO-0101	1.3		2.5	0.5	4.0	3.5	2.0	50.0	52.5	
19	BISCO-0102	1.5		4.0	1.0	3.5	4.0	2.0	90.6	86.8	
20	SEEDTEC-663	1.5		2.0	1.0	4.0	3.5	3.0	95.6	92.5	
21	SEEDTEC-2437	1.3		2.5	1.0	4.0	3.5	3.0	64.5	95.1	
22	VIPL-1501	1.3		2.5	1.0	2.5	4.0	2.0	90.4	97.4	
23	VIPL-1503	2.3		3.5	0.5	2.5	4.0	2.0	100.0	86.8	
24	AAMH-831	1.8		2.0	1.0	2.5	5.0	3.0	90.9	97.5	
25	AAMH-574	1.5		3.5	1.5	3.0	4.0	2.0	84.8	100.0	
26	JKMH-207	1.3		3.5	1.0	3.5	3.5	2.0	96.7	100.0	
27	JKMH-1512	1.5		2.0	1.0	4.0	4.0	3.0	94.1	97.4	
28	NECH-126	1.5		3.5	0.5	3.5	-	1.0	95.4	87.8	
29	NECH-127	1.8		3.5	-	4.0	3.5	3.0	89.4	100.0	
30	SSF-X 87	2.0		4.0	0.5	3.0	4.5	2.0	100.0	100.0	

Table No 4

SL NO	Pedigree	TLB (1-5)	ARB	NAG	BAJ	BLSB (1-5)	PANT	DEL	BAJ	SDM (%)	MAND	COIM
31	SSF-X 88	1.8		3.5	-	3.5	3.5	4.5	2.0	100.0	100.0	100.0
32	X-2005	2.0		4.5	0.5	3.0	3.0	3.5	4.0	100.0	100.0	87.5
33	X-2003 A	1.3		2.0	2.5	3.5	3.5	5.0	2.0	96.7	78.9	78.9
34	KAVERI-2288	2.3		2.5	1.0	3.5	3.5	4.0	3.0	70.8	84.2	84.2
35	NMH-1034	1.3		3.5	1.5	3.0	3.0	3.5	1.0	100.0	76.3	76.3
36	SMH-3758	1.8		3.5	1.0	3.0	3.0	4.0	2.0	56.5	100.0	100.0
37	MAHABEEJ-1100	1.5		3.5	1.5	4.0	4.0	3.5	2.0	100.0	100.0	100.0
38	MAHABEEJ-1102	1.5		4.5	NG	3.0	3.0	3.5	NG	75.0	97.4	97.4
	CHECKS											
39	KH 510(CHECK)	1.8		3.5	-	3.5	3.5	4.0	3.0	96.2	100.0	100.0
40	NAVJOT(CHECK)	2.0		2.5	-	2.5	2.5	4.0	4.0	100.0	100.0	100.0
41	CM-500	2.0		5.0	1.0	-	-	3.5	1.0	100.0	100.0	100.0
42	CM-600	3.8		4.5	4.5	5.0	5.0	4.0	1.0	100.0	100.0	100.0
43	CM-202	3.3		4.5	4.5	5.0	5.0	3.5	1.0	100.0	100.0	100.0
	CM-500	-		-	-	-	-	-	-	100.0	100.0	100.0
	CML 186	-		-	-	-	-	-	-	-	-	-
	CM-202	-		-	-	-	-	-	-	-	-	-
	HKI1341	-		-	-	-	-	-	-	-	-	-
	Navjot	-		-	-	-	-	-	-	-	-	-
	Early Com.	-		-	4.5	-	-	-	2.5	-	-	-
	Local Check	3.0		-	-	-	-	-	-	-	-	-
	Local Check (W)	-		-	-	-	-	-	-	-	-	-
	MAI 120	-		5.0	-	-	-	-	-	-	-	-
	Basi	-		-	-	-	-	-	-	-	-	-
	Amiar	-		-	-	4.7	4.7	-	-	-	-	-
		-		-	-	4.2	4.2	-	-	-	-	-

Table No 4

SL NO	Pedigree	BSDM (1-5)		PANT	RDM UDP	PFSR (1-9) LUD	HYD	UDP	ESR (%)		
		DHAU	PANT						DHAU	PANT	
IET MEDIUM MATURITY											
1	BH-3298	1.5	1.0	38.1	3.2	5.5	2.9	22.5	0.0		
2	BH-3299	1.3	1.0	76.9	2.8	5.0	4.6	22.8	20.0		
3	BH-3443	1.1	3.0	70.6	2.6	5.3	4.7	67.8	0.0		
4	CHH-202	1.3	1.5	30.0	2.8	7.0	4.7	13.5	57.1		
5	JH-10362	1.8	1.0	19.0	2.6	5.6	5.8	44.4	35.0		
6	JC-1456	1.2	1.0	11.8	3.8	3.5	6.1	47.9	26.3		
7	JC-1459	1.2	1.0	15.0	3.3	6.6	5.8	45.8	29.4		
8	HKH-1200	1.8	1.5	12.5	3.0	6.4	7.8	28.5	31.5		
9	L-182	1.9	1.5	58.3	2.8	5.8	5.2	26.1	60.0		
10	L-134	2.0	2.0	40.9	4.0	4.6	4.4	68.0	87.5		
11	AH-23007	2.3	1.5	57.1	3.0	5.4	3.8	18.6	8.0		
12	AH-23071	2.6	2.0	52.2	2.6	4.3	4.0	73.9	38.4		
13	AH-24008	2.0	2.5	100.0	3.2	5.2	4.8	67.3	22.2		
14	AH-24020	2.3	1.0	70.0	2.6	6.7	6.6	58.4	33.3		
15	BIO-22069	2.3	2.0	4.2	2.8	6	4.9	45.4	33.3		
16	BIO-22045	2.0	1.0	9.5	3.0	6.7	6.4	44.4	38.4		
17	PMZ-136	2.2	1.0	8.3	2.7	5.3	4.4	42.1	23.8		
18	BISCO-0101	1.3	1.0	0.0	3.2	5.2	5.5	85.5	53.3		
19	BISCO-0102	2.0	1.0	0.0	3.0	7.2	4.6	34.2	45.4		
20	SEEDTEC-663	2.0	1.5	9.1	3.0	4.0	4.6	40.3	25.0		
21	SEEDTEC-2437	1.5	1.0	0.0	3.2	5.3	4.9	52.1	0.0		
22	VIPL-1501	1.9	1.0	10.5	3.2	4.9	5.8	53.4	0.0		
23	VIPL-1503	1.5	1.5	25.0	3.2	5.7	6.2	67.7	61.5		
24	AAMH-831	1.5	1.0	0.0	4.2	3.7	2.5	45.9	22.2		
25	AAMH-574	1.3	1.0	9.5	4.2	7	4.1	43.1	8.6		
26	JKMH-207	2.1	1.0	47.1	2.0	5.2	5.4	44.4	27.7		
27	JKMH-1512	2.1	1.0	0.0	3.0	6.2	6.5	64.8	99.9		
28	NECH-126	2.4	1.0	0.0	3.2	7.6	3.5	49.3	0.0		
29	NECH-127	1.8	1.5	14.3	3.0	3.8	4.2	72.6	0.0		
30	SSF-X 87	1.7	3.0	76.0	3.6	3.2	3.8	52.8	26.6		

Table No 4

SL. NO	Pedigree	BSDM (1-5)	PANT	RDM	PFSR (1-9)	HYD	UDP	ESR (%)	PANT
		DHAU	UDP	LUD				DHAU	
31	SSF-X 88	1.8	5.0	39.1	2.6	5.0	3.3	18.1	34.7
32	X-2005	1.3	1.0	77.3	2.2	3.6	2.6	75.5	35.2
33	X-2003 A	2.0	1.0	13.6	2.7	6.7	4.0	28.0	14.2
34	KAVERI-2288	1.9	1.0	4.2	2.7	4.7	4.9	65.5	53.8
35	NMH-1034	1.5	2.0	11.1	2.6	4.5	6.2	67.1	99.9
36	SMH-3758	1.8	1.0	0.0	4.0	3.7	6.2	82.1	18.1
37	MAHABEEJ-1100	1.8	1.5	50.0	3.8	7.1	5.5	49.3	99.9
38	MAHABEEJ-1102	1.8	1.0	33.3	2.6	3.0	3.0	43.7	18.1
	CHECKS								
39	KH 510(CHECK)	1.7	1.0	19.0	2.8	6.7	3.3	44.3	25.0
40	NAVJOT(CHECK)	2.5	1.0	30.0	3.2	3.7	4.4	59.7	50.0
41	CM-500	2.2	-	66.7	2.8	5.0	4.7	76.9	-
42	CM-600	2.5	4.0	50.0	2.0	6.6	5.0	74.1	61.5
43	CM-202	1.8	1.5	90.9	2.4	6.6	2.9	85.0	-
	CM-500	-	-	-	-	-	-	-	-
	CML 186	-	-	-	-	-	-	-	-
	CM-202	-	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-
	Early Corn.	-	-	-	-	-	-	-	-
	Local Check	1.3	-	16.7	-	7.0	4.5	12.1	-
	Local Check (W)	-	-	35.0	-	-	-	-	-
	MAJ 120	-	-	-	-	-	-	-	-
	Basi	-	4.5	-	-	-	-	-	46.3
	Amar	-	2.0	-	-	-	-	-	24.1

Table No. 5 Evaluation of maize genotypes (full-season maturity) against diseases during Khanif 2003- Trial No. 77

SL. NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR
1	AH-01410	1.8	2.5	3.8	3.0	1.5	2.5	2.5	
2	AH-01415	1.3	1.3	2.5	3.8	3.5	2.0	1.0	
3	BH-2355	1.5	2.6	3.0	3.0	3.5	1.3	1.0	
4	BH-2358	1.3	1.0	2.3	3.5	2.0	2.0	1.0	
5	BH-2523	1.5	2.0	2.8	2.8	1.5	3.1	3.0	
6	BH-2528	1.3	1.5	2.0	3.0	2.5	1.9	1.0	
7	BH-2348	1.5	2.0	3.5	2.7	2.0	1.5	2.5	
8	BH-2356	1.3	2.1	2.3	2.8	2.0	2.2	1.5	
9	BH-2854	1.5	1.5	2.0	2.6	1.5	1.9	1.0	
10	BH-2202	1.8	3.0	3.0	1.8	2.5	1.3	1.5	
11	HKH-1215	1.8	1.5	2.5	2.5	1.5	1.2	2.0	
12	BIO-20212	1.8	1.7	3.0	1.7	2.5	1.6	2.0	
13	ROBUST	2.0	2.5	3.0	2.0	4.0	2.3	1.5	
14	BISCO-902	2.0	2.5	3.3	2.7	2.5	1.4	1.5	
15	ZAURI-2009	1.0	2.3	2.9	2.9	3.0	2.2	1.0	
16	AAMH-459	1.0	2.5	2.3	3.0	2.5	1.4	1.5	
17	X 1280 B	1.5	3.0	2.5	3.8	4.0	1.1	1.0	
18	X 1231 H	1.8	2.0	3.0	2.6	2.5	1.6	1.5	
19	POOJA	1.8	2.3	3.3	3.6	2.0	1.5	1.0	
20	NECH-117	1.5	1.0	1.8	1.8	2.5	1.1	2.0	
21	NECH-118	1.0	1.0	1.8	2.9	4.0	1.2	1.0	
22	MCH-1	1.0	1.7	3.3	2.7	3.5	1.2	1.5	
23	MCH-2	1.0	1.0	2.3	3.0	2.5	1.6	1.0	
24	MCH-3	1.3	1.2	3.0	2.8	3.5	1.1	1.0	
25	MCH-4	1.3	2.0	3.5	2.7	4.5	1.3	1.0	
26	GK-3046	2.0	2.5	2.8	3.8	3.0	1.5	2.0	
27	GK-3047	1.5	3.0	2.8	2.6	2.5	1.6	2.0	
28	PAC-71061	1.5	3.0	2.5	2.9	2.5	1.4	1.5	
29	PAC-71062	1.5	2.4	3.0	3.0	2.0	2.1	2.0	
30	X-2001	1.5	3.0	3.8	3.5	2.0	3.2	1.5	
31	SEEDTEC-C 12	1.0	1.6	2.0	4.0	5.0	1.0	1.0	
32	SEEDTEC-C 11	1.0	2.7	-	3.8	2.5	1.2	1.5	

Table No. 5

SL. NO	Pedigree	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR
	AET 2nd YEAR (FULL SEASON MATURITY)							
33	F 9572 A	1.0	1.5	3.5	3.0	3.0	2.0	1.0
34	PMZ-234	1.0	2.7	3.3	3.5	3.0	2.7	2.0
35	JKMH-1090	1.3	1.5	2.3	4.2	2.5	1.2	1.0
36	F-1562	1.0	1.0	2.3	3.7	1.5	1.3	1.0
37	BIO-92327	1.0	2.0	2.5	3.0	1.5	1.6	1.0
38	BISCO-851	1.3	2.5	2.5	4.3	3.0	2.1	2.5
39	NECH-110	1.3	2.5	3.3	3.5	2.5	2.3	2.0
40	X-2006	1.3	2.5	2.5	3.2	1.5	1.3	1.0
	CHECKS							
41	PRO-311	1.3	2.0	3.0	2.8	3.5	1.4	1.0
42	BIO-9681	1.5	1.5	2.8	2.6	4.0	1.1	1.5
43	PARBHAT	1.8	1.5	2.5	1.7	2.5	1.6	1.5
44	GANGA-11	2.0	1.5	2.8	2.9	3.0	1.2	1.0
45	FILLER NAVJOT	2.0	3.0	4.0	3.2	2.5	2.5	2.5
46	CM-500	2.0	1.5	2.3	3.0	4.0	1.2	2.0
47	CM-600	1.5	2.5	4.0	3.4	3.5	1.8	3.5
48	CM-202	1.8	2.5	3.5	3.5	2.5	2.2	1.5
	CM-500	-	-	-	-	-	-	-
	CML 186	-	-	-	4.7	-	-	-
	CM-202	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	4.5
	Navjot	-	-	3.8	-	-	-	-
	Early Com.	-	-	-	-	-	-	-
	Local Check	1.5	1.4	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-
	Basi	-	-	-	-	-	-	-
	Amar	-	-	-	-	-	-	-

Table No.5

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND	COJM
1	AH-01410	1.3	3.1	3.5	1.5	2.5	3.5	3.0	100.0	95.0
2	AH-01415	1.5	2.8	4.5	2.0	3.7	3.5	3.0	100.0	97.5
3	BH-2355	1.8	2.7	3.5	1.5	4.0	3.5	3.0	100.0	100.0
4	BH-2358	1.8	3.2	2.5	1.5	2.8	3.0	3.0	100.0	100.0
5	BH-2523	1.0	3.3	2.5	1.5	4.5	3.0	2.0	100.0	100.0
6	BH-2528	1.8	2.5	4.5	1.5	4.3	3.5	3.0	100.0	100.0
7	BH-2348	1.8	2.3	3.0	0.5	4.0	4.0	3.0	100.0	100.0
8	BH-2356	1.5	3.3	3.5	0.5	4.0	4.0	2.0	100.0	100.0
9	BH-2854	1.5	2.4	3.5	1.0	3.8	4.0	2.0	90.9	97.4
10	BH-2202	1.8	2.1	3.5	0.5	3.3	4.0	2.0	100.0	100.0
11	HKH-1215	2.0	2.5	2.0	1.0	3.8	3.5	3.0	96.8	97.4
12	BIO-20212	2.0	1.5	3.0	3.0	3.8	3.5	3.0	95.8	100.0
13	ROBUST	1.5	2.3	3.5	1.0	3.5	4.0	3.0	90.9	100.0
14	BISCO-902	1.8	1.8	2.5	1.0	3.0	4.0	3.0	93.1	97.6
15	ZAURI-2009	1.8	1.5	3.5	2.5	3.3	4.0	3.0	94.1	100.0
16	AAMH-459	1.3	2.3	3.0	1.0	3.5	3.5	3.0	100.0	100.0
17	X 1280 B	1.3	3.5	2.0	3.0	3.0	4.0	4.0	100.0	100.0
18	X 1231 H	1.8	2.1	3.5	1.5	2.8	3.5	3.0	100.0	100.0
19	POOJA	1.3	1.5	2.5	2.0	3.0	3.5	2.0	93.5	90.0
20	NECH-117	1.3	2.1	2.0	1.0	3.3	3.5	3.0	86.6	85.0
21	NECH-118	1.0	1.5	3.5	2.0	3.0	3.0	3.0	100.0	100.0
22	MCH-1	1.3	2.1	3.0	3.5	3.3	3.5	2.0	96.6	100.0
23	MCH-2	1.0	2.2	2.0	0.5	3.3	3.5	4.0	100.0	100.0
24	MCH-3	1.0	1.8	2.5	1.0	3.0	3.5	2.0	100.0	100.0
25	MCH-4	2.0	2.0	3.5	2.5	3.5	5.0	3.0	100.0	100.0
26	GK-3046	1.5	2.8	4.0	1.0	4.3	3.5	1.0	100.0	100.0
27	GK-3047	1.0	2.0	3.5	0.5	4.0	3.5	2.0	100.0	100.0
28	PAC-71061	2.0	2.4	2.0	0.5	4.0	3.5	2.0	100.0	100.0
29	PAC-71062	1.8	3.0	3.5	1.0	4.0	3.5	3.0	100.0	100.0
30	X-2001	2.0	2.0	3.5	2.0	4.3	4.0	3.0	96.5	100.0
31	SEEDTEC-C 12	1.0	1.5	2.5	1.0	4.0	5.0	3.0	83.3	100.0
32	SEEDTEC-C 11	2.0	2	2.0	1.0	5.0	3.5	3.0	96.2	100.0

Table No 5

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	PANT (1-5)	DEL	BAJ	SDM (%) MAND	COIM
AET 2nd YEAR (FULL SEASON MATURITY)										
33	F 9572 A	1.0	2.4	2.5	0.5	3.0	3.5	3.0	96.5	100.0
34	PMZ-234	2.0	2.0	4.0	0.5	4.0	3.5	3.0	82.8	97.5
35	JKMH-1090	1.0	1.8	4.5	0.5	3.3	3.5	3.0	97.1	100.0
36	F-1562	1.5	2.3	2.0	0.5	3.0	3.5	2.0	91.1	100.0
37	BID-92327	1.8	2.0	2.0	1.5	3.3	3.0	2.0	87.5	100.0
38	BISCO-851	1.3	2.0	3.5	1.0	3.3	3.5	3.0	92.0	100.0
39	NECH-110	1.3	2.7	3.0	1.0	3.5	4.5	3.0	100.0	100.0
40	X-2006	1.8	2.8	2.5	1.5	3.8	3.0	3.0	81.8	89.7
CHECKS										
41	PRO-311	1.8	2.3	4.5	1.0	2.8	4.0	3.0	94.1	100.0
42	BIO-9681	1.3	2.3	3.5	0.5	4.0	3.0	3.0	96.6	92.1
43	PARBHAT	1.3	2.0	4.0	0.5	3.5	4.0	3.0	84.0	100.0
44	GANGA-11	2.3	2.5	3.5	3.5	3.5	3.5	2.0	100.0	100.0
45	FILLER NAVJOT	2.5	2.3	4.0	2.5	4.0	3.0	4.0	100.0	100.0
46	CM-500	3.0	2.3	3.5	3.0	5.0	3.5	4.0	100.0	100.0
47	CM-600	3.5	3.3	4.5	4.5	5.0	4.0	2.0	100.0	100.0
48	CM-202	3.5	4.3	3.5	4.5	3.5	3.5	1.0	CM 500	100.0
	CM-500	-	-	-	-	-	-	-	100.0	100.0
	CML 186	-	-	-	-	-	-	-	-	-
	CM-202	-	-	-	-	-	-	-	-	-
	HKI1341	-	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-	-
	Early Com.	-	-	-	4.5	-	-	2.5	-	-
	Local Check	3.0	-	-	-	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-	-	-
	MAI 120	-	-	5.0	-	-	-	-	-	-
	Basi	-	-	-	-	4.7	-	-	-	-
	Amar	-	-	-	-	4.2	-	-	-	-

Table No 5

SL NO	Pedigree	BSDM (1-5) DHAU	PANT	RDM UDP	PFSR (1-9) LUD	UDP	ESR (%) DHAU	PANT	C. RUST (1-5) ARBH
1	AH-01410	2.3	1.8	66.7	2.7	5.6	76.5	77.7	2.5
2	AH-01415	1.8	1.8	62.5	2.8	5.8	64.6	50.0	2.8
3	BH-2355	2.0	3.0	100.0	3.3	7.6	55.8	99.9	3.0
4	BH-2358	1.0	1.3	20.0	2.7	2.5	54.8	80.0	3.0
5	BH-2523	1.3	5.0	92.0	3.3	7.0	53.8	16.7	3.5
6	BH-2528	1.5	4.3	52.4	2.7	2.8	35.4	50.0	4.0
7	BH-2348	2.0	4.8	85.0	2.5	7.2	32.9	36.5	4.0
8	BH-2356	2.0	5.0	41.0	3.3	5.9	26.7	38.3	3.8
9	BH-2854	2.0	4.3	65.0	3.0	5.1	28.7	91.7	3.1
10	BH-2202	2.1	1.0	12.5	3.0	2.6	56.8	58.0	Tr
11	HKH-1215	1.5	1.3	76.5	4.2	8.3	25.3	38.5	Tr
12	BIO-20212	2.0	1.3	29.2	2.8	4.9	60.2	51.7	1.8
13	ROBUST	2.3	1.8	19.0	3.2	5.4	74.7	20.5	1.8
14	BISCO-902	2.0	1.3	34.8	3.2	4.4	70.4	58.3	1.0
15	ZAURI-2009	3.0	1.0	35.3	2.7	5.4	51.0	51.1	1.3
16	AAMH-459	3.1	3.8	35.0	3.0	2.6	82.0	17.4	1.3
17	X 1280 B	2.7	1.5	96.0	3.5	8.2	43.8	42.0	1.3
18	X 1231 H	2.7	1.0	21.7	2.8	3.7	84.7	55.7	2.0
19	POOJA	2.5	1.8	66.7	3.0	5.9	76.8	84.3	Tr
20	NECH-117	1.5	1.3	0.0	3.5	2.2	37.5	20.0	Tr
21	NECH-118	1.5	1.0	4.3	2.8	6.1	33.8	20.0	1.0
22	MCH-1	2.6	1.5	75.0	2.7	6.8	52.0	35.0	1.0
23	MCH-2	1.7	1.5	17.6	3.4	4.9	59.1	66.8	Tr
24	MCH-3	2.3	1.5	59.1	3.0	6.4	57.4	34.0	Tr
25	MCH-4	1.0	1.5	60.0	2.1	6.6	48.4	83.3	1.0
26	GK-3046	2.0	4.5	65.2	3.0	4.8	58.7	71.4	2.0
27	GK-3047	2.5	4.8	72.7	3.2	4.2	58.0	99.9	1.4
28	PAC-71061	1.5	5.0	52.2	2.8	6.7	40.7	73.3	1.5
29	PAC-71062	2.0	2.5	58.8	3.0	7.7	54.8	45.5	2.0
30	X-2001	2.8	2.5	68.2	2.5	2.3	60.4	14.4	3.8
31	SEEDTEC-C 12	1.5	1.5	5.0	2.7	3.5	64.8	0.0	1.0
32	SEEDTEC-C 11	1.5	1.5	53.3	2.4	2.6	35.5	0.0	1.5

Table No.5

SL. NO	Pedigree	AET 2nd YEAR (FULL SEASON MATURITY)									
		BSDM (1-5) DHAU	PANT	RDM UDP	PFSR (1-9) LUD	UDP	ESR (%) DHAU	PANT	C. RUST (1-5) ARBH		
33	F 9572 A	2.5	1.3	17.6	2.8	4.0	69.4	72.0	Tr		
34	PMZ-234	2.3	1.5	55.0	3.2	5.7	68.1	50.0	2.7		
35	JKMH-1090	1.5	2.3	10.0	2.5	5.5	54.1	16.2	1.3		
36	F-1562	1.0	1.0	20.8	2.8	6.6	58.1	67.4	1.0		
37	BIO-92327	2.0	1.0	28.5	2.7	4.8	62.0	56.5	1.0		
38	BISCO-851	1.5	1.0	35.0	2.7	3.3	71.4	0.0	1.5		
39	NECH-110	2.3	1.5	0.0	2.3	2.3	59.5	1.6	Tr		
40	X-2006	1.7	2.0	47.8	3.0	2.9	59.9	45.0	2.8		
	CHECKS										
41	PRO-311	1.6	1.5	0.0	2.3	4.5	39.4	15.0	1.5		
42	BIO-9681	1.7	2.3	20.8	2.8	4.7	71.5	40.9	1.8		
43	PARBHAT	2.3	2.8	27.8	3.8	4.6	39.0	75.0	2.3		
44	GANGA-11	1.8	2.0	55.0	2.8	6.1	74.4	66.7	1.0		
45	FILLER NAVJOT	2.0	1.8	73.9	2.5	7.0	52.0	65.0	3.7		
46	CM-500	2.5	3.3	68.4	3.2	6.3	74.1	99.9	1.0		
47	CM-600	3.0	4.3	10.5	3.0	7.3	95.5	50.0	1.0		
48	CM-202	3.0		69.2	2.3	5.1	94.1	66.6	1.8		
	CM-500	-	-	-	-	-	-	-	-		
	CML 186	-	-	-	-	-	-	-	-		
	CM-202	-	-	-	-	-	-	-	-		
	HK11341	-	-	-	-	-	-	-	-		
	Navjot	-	-	-	-	-	-	-	-		
	Early Com.	-	-	-	-	-	-	-	-		
	Local Check	1.3	-	4.5	-	7.0	12.4	12.1	-		
	Local Check (W)	-	-	-	-	-	35.0	-	-		
	MAI 120	-	-	-	-	-	-	-	-		
	Basi	-	4.5	-	-	-	-	-	46.3		
	Amar	-	2.0	-	-	-	-	-	24.1		

Table No 6 Evaluation of maize genotypes (full-season maturity) against diseases during kharif 2003 - Trial No.77 A

SL. NO	Pedigree	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR
	IET FULL SEASON MATURITY							
1	BH-3294	1.3	1.9	2.3	2.6	3.5	1.2	1.5
2	BH-3300	1.0	1.0	2.5	2.9	3.5	1.4	2.5
3	BH-3306	1.3	1.7	3.5	2.0	2.5	1.6	2.5
4	BH-3309	1.3	1.7	3.0	1.5	3.5	1.4	3.5
5	BH-3315	1.0	1.0	1.5	3.0	3.0	1.6	2.0
6	BH-3437	1.0	2.5	3.5	3.2	4.5	1.1	2.0
7	EH-1259	1.3	2.5	3.8	3.4	2.5	1.6	3.0
8	HKH-1168	1.0	2.5	2.5	3.9	2.5	1.5	2.0
9	HKH-1211 (Y)	1.5	2.0	3.5	2.9	3.0	1.6	2.5
10	ZA WH-2	1.0	2.0	3.0	2.6	2.0	1.4	1.0
11	JH-10655	1.0	2.5	2.8	2.5	3.0	1.3	1.5
12	DMRFG-22	2.0	1.0	3.0	3.0	1.5	2.0	2.0
13	DMRFG-25	1.3	2.0	3.5	3.2	3.5	1.1	2.0
14	KMH-9961	1.0	1.0	3.5	3.1	1.5	2.0	1.5
15	SWS 013 Y - 6 NORMAL	1.3	1.0	2.8	3.0	2.5	1.9	1.5
16	AH-23065	2.5	2.5	3.3	2.8	2.5	1.6	3.5
17	PRO-363	1.5	1.5	3.0	3.4	3.0	2.0	2.0
18	BIO-20228	1.0	1.0	2.0	3.7	4.0	1.5	1.0
19	BISCO-911	1.0	1.0	3.0	3.2	2.5	2.1	3.5
20	SEEDTEC-661	1.3	1.7	1.5	3.0	1.5	1.0	1.0
21	SGMH-102	1.3	2.0	2.8	2.7	3.0	1.4	2.5
22	VIPL-1902	1.0	2.0	2.5	3.4	2.0	1.5	2.0
23	AAMH-531	1.8	2.0	2.5	3.2	2.5	1.5	2.5
24	X 1282 X	1.0	2.0	3.5	3.5	3.0	1.9	1.0
25	JKMH-013	1.3	3.0	3.3	3.6	4.5	1.3	2.5
26	NECH-125	1.0	2.0	2.3	3.5	2.5	1.8	2.0
27	KDMH-3437	1.0	2.0	2.5	3.4	3.5	1.3	1.0
28	SSF-X 86	1.3	3.0	3.0	1.8	2.0	1.4	1.0
29	X-2007	1.0	2.0	2.5	2.0	3.0	1.5	2.0
30	GJ 3049	1.0	2.0	2.5	1.7	5.0	1.4	1.0

SL. NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR
31	M-0324	1.0	2.1	2.3	3.2	2.5	1.4	2.0
32	EAGLE-9	1.5	2.5	3.3	2.9	3.5	2.0	2.5
33	MCH-8	1.0	1.5	1.8	2.8	3.5	1.8	1.0
34	MCH-13	1.0	1.8	2.0	2.7	2.0	1.5	1.0
35	GF-2008	1.0	1.5	2.5	3.8	2.5	1.7	1.5
36	GF-2012	1.3	2.0	2.3	2.6	3.0	1.7	2.0
37	FILLER	1.3	2.1	3.0	1.8	3.0	1.5	2.0
38	BH-3297	1.0	1.0	2.5	3.0	2.0	1.5	1.0
39	BH-3301	1.0	1.0	2.5	2.0	1.5	1.6	1.0
40	BH-3307	1.3	2.0	3.0	3.0	2.5	1.3	2.5
41	BH-3313	1.0	1.0	2.5	2.8	1.5	1.6	1.0
42	BH-3316	1.0	1.5	2.0	1.8	3.0	1.3	1.5
43	BH-3439	1.0	1.0	2.8	2.0	3.5	1.5	2.5
44	HKH-1129	1.3	2.0	3.0	3.0	3.0	1.5	1.5
45	HKH-1201 (W)	1.3	2.1	-	4.2	4.0	2.1	1.0
46	HKH-1217	1.3	2.4	2.8	3.2	2.5	2.2	2.0
47	JH-10589	1.3	1.5	2.8	2.8	2.5	1.6	1.0
48	JC-1441 C3 FS	1.5	2.1	3.5	3.4	4.0	1.5	1.0
49	DMRFG-23	1.3	2.0	2.8	2.9	2.5	1.4	1.0
50	DMRFG-26	1.0	2.5	2.5	3.0	2.0	1.6	1.0
51	MC-03-1	1.3	2.0	2.3	3.8	2.0	1.6	1.5
52	AH-23049	1.0	2.5	4.8	3.2	1.5	2.1	2.0
53	VEH-310101	1.5	2.5	2.8	4.0	2.5	1.8	1.0
54	PRO-360	1.0	2.7	2.0	3.4	3.0	1.6	1.0
55	PMZ-235	1.0	2.1	3.3	3.0	2.5	1.3	2.5
56	BISCO-715	1.0	2.2	2.8	2.0	2.5	1.4	1.5
57	SEEDTEC-662	1.5	2.0	2.8	2.9	2.0	1.2	2.0
58	VIPL-1806	1.0	2.1	3.8	3.2	1.5	1.6	2.0
59	AAMH-475	1.5	2.5	2.3	3.4	2.5	1.7	2.0
60	X 1282 T	1.0	2.0	2.0	3.0	3.0	1.8	1.0
61	JKMH-370-2	1.0	2.1	2.8	4.1	3.5	1.3	1.0
62	NECH-124	1.0	2.5	1.8	3.2	2.0	1.6	1.0
63	MCH-11	1.0	2.0	2.3	1.5	2.0	1.4	1.0

Table No 6

SL. NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR
64	SSF-X 2002	1.0	2.2	3.5	3.2	2.5	2.0	2.5
65	X-2004	1.3	2.0	3.3	3.4	2.5	2.1	2.5
66	NMH-1033	1.0	1.8	3.0	1.7	2.0	1.7	1.0
67	GK 3050	1.0	1.6	2.8	2.0	2.0	1.8	2.5
68	M-0327	1.5	2.0	2.3	2.9	1.5	2.1	1.5
69	MCH-12	1.3	2.5	2.0	3.2	2.0	1.2	1.0
70	GF-2007	1.3	1.5	2.3	2.0	3.0	2.1	1.5
71	GF-2009	1.5	2.6	2.0	3.0	4.0	1.6	2.0
72	CHECKS							
73	PRO-311	1.0	2.6	2.0	3.2	3.5	1.8	1.0
74	BIO-9681	1.5	2.0	2.8	2.0	2.5	1.1	2.5
75	PARBHAT	1.5	1.0	3.0	3.0	2.0	1.4	2.0
76	GANGA-11	1.3	1.0	3.3	2.9	2.5	1.9	3.5
77	SEEDTEC-2324	1.3	1.5	2.3	2.0	2.0	2.2	1.0
78	CM-500	1.3	2.4	3.5	3.8	3.5	2.0	2.5
79	CM-600	1.3	2.0	-	3.2	3.5	1.5	2.0
	CM-202	1.3	1.5	3.8	3.4	1.5	1.0	2.5
	CM-500	-	-	-	-	-	-	-
	CML 186	-	-	-	4.7	-	-	-
	CM-202	-	-	-	-	-	-	-
	HK11341	-	-	-	-	-	-	4.0
	Navjot	-	-	3.3	-	-	-	-
	Early Corn.	-	-	-	-	-	-	-
	Local Check	1.5	1.4	-	-	-	-	-
	Local Check (W)	-	-	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-
	Basi	-	-	-	-	-	-	-
	Amar	-	-	-	-	-	-	-

Table No 6

SL. NO	Pedigree	TETB (1-5)	ARB	NAG	BAJ	BLSB (1-5)	DEL	BAJ	SDM (%)	COIM
	IET FULL SEASON MATURITY									
1	BH-3294	3.5		4.5	2.5	-	3.5	1.0	100.0	100.0
2	BH-3300	3.5		3.5	0.5	3.5	3.5	2.0	100.0	100.0
3	BH-3306	3.0		4.0	1.0	-	3.5	2.0	100.0	100.0
4	BH-3309	1.8		3.5	2.0	4.0	4.0	2.0	100.0	100.0
5	BH-3315	3.0		3.0	1.5	3.0	3.5	3.0	100.0	100.0
6	BH-3437	3.0		3.5	3.5	4.0	5.0	2.0	100.0	100.0
7	EH-1259	1.8		2.5	1.5	3.5	4.0	2.0	96.5	100.0
8	HKH-1168	2.5		3.5	3.0	3.5	3.0	2.0	100.0	92.5
9	HKH-1211 (Y)	1.5		4.0	0.5	3.0	4.0	1.0	68.9	100.0
10	ZA WH-2	2.0		3.5	2.0	2.5	4.0	2.0	100.0	100.0
11	JH-10655	1.3		4.5	1.0	2.5	3.5	1.0	87.5	100.0
12	DMRFG-22	1.5		4.5	1.0	2.5	3.5	2.0	100.0	100.0
13	DMRFG-25	2.5		3.5	2.5	-	3.5	1.0	100.0	100.0
14	KMH-9961	2.8		2.0	1.5	-	4.0	2.0	100.0	97.5
15	SWS 013 Y - 6 NORMAL	1.8		2.0	1.0	2.5	3.5	3.0	50.0	100.0
16	AH-23065	2.8		2.0	1.0	3.0	3.5	4.0	100.0	97.5
17	PRO-363	2.0		2.5	2.0	2.5	3.5	2.0	70.9	100.0
18	BIO-20228	1.5		4.0	0.5	3.0	4.0	3.0	90.9	100.0
19	BISCO-911	1.6		3.0	0.5	3.5	3.5	3.0	96.7	100.0
20	SEEDTEC-661	1.5		3.5	-	4.0	4.0	2.0	96.7	100.0
21	SGMH-102	1.8		4.0	1.0	-	3.5	1.0	92.3	95.0
22	VIPL-1902	1.5		3.0	0.5	2.0	3.5	1.0	90.9	97.5
23	AAMH-531	1.3		1.5	1.0	2.5	3.5	2.0	93.3	100.0
24	X 1282 X	1.0		3.5	2.0	-	4.0	3.0	89.2	97.5
25	JKMH-013	1.3		2.0	2.0	3.0	4.0	2.0	89.4	100.0
26	NECH-125	2.3		3.5	2.0	4.0	3.5	3.0	100.0	100.0
27	KDMH-3437	2.8		4.0	1.5	3.5	3.5	3.0	100.0	100.0
28	SSF-X 86	1.0		4.5	2.0	2.5	3.5	3.0	100.0	100.0
29	X-2007	2.0		1.5	2.0	3.0	3.5	2.0	100.0	100.0
30	GJ 3049	1.5		3.5	-	3.0	5.0	3.0	100.0	81.6

Table No 6
SL. NO Pedigree

SL. NO	Pedigree	TLB (1-5)	ALM	ARB	NAG	BAJ	BLSB (1-5)	PANT	DEL	BAJ	SDM (%)	MAND	COIM
31	M-0324	1.0	1.0		1.5	2.0	3.0	3.5	3.5	2.0	90.9952	100.0	
32	EAGLE-9	1.8	1.8		3.5	3.0	2.5	4.0	4.0	3.0	81.8	100.0	
33	MCH-8	1.0	1.0		4.0	-	-	4.0	4.0	2.0	100.0	100.0	
34	MCH-13	1.8	1.8		4.0	-	4.0	3.5	3.5	3.0	100.0	100.0	
35	GF-2008	1.0	1.0		2.0	0.5	3.0	4.0	4.0	3.0	100.0	92.1	
36	GF-2012	1.8	1.8		3.5	2.0	-	3.5	3.5	2.0	84.2	100.0	
37	FILLER	1.0	1.0		4.0	1.0	2.5	4.0	4.0	3.0	79.1	100.0	
38	BH-3297	3.0	3.0		3.5	1.0	4.5	3.5	3.5	1.0	100.0	100.0	
39	BH-3301	2.3	2.3		2.0	2.0	3.0	3.0	3.0	3.0	100.0	100.0	
40	BH-3307	1.0	1.0		3.0	2.0	3.5	3.5	3.5	3.0	93.7	100.0	
41	BH-3313	1.8	1.8		3.0	1.5	2.0	3.5	3.5	3.0	92.8	100.0	
42	BH-3316	3.0	3.0		4.5	1.0	3.0	4.0	4.0	3.0	84.0	100.0	
43	BH-3439	2.5	2.5		3.0	3.0	2.5	4.0	4.0	2.0	100.0	100.0	
44	HKH-1129	2.0	2.0		3.5	2.5	-	3.5	3.5	2.0	100.0	100.0	
45	HKH-1201 (W)	3.0	3.0		3.5	-	2.5	4.0	4.0	3.0	100.0	100.0	
46	HKH-1217	1.8	1.8		2.0	0.5	3.5	4.0	4.0	2.0	100.0	13.6	
47	JH-10589	2.0	2.0		3.5	0.5	-	4.0	4.0	3.0	12.0	100.0	
48	JC-1441 C3 FS	3.0	3.0		3.5	1.0	-	4.0	4.0	2.0	100.0	100.0	
49	DMRFG-23	2.0	2.0		3.5	0.5	3.5	3.5	3.5	1.0	100.0	100.0	
50	DMRFG-26	2.0	2.0		3.5	2.0	2.5	4.0	4.0	2.0	100.0	100.0	
51	MC-03-1	2.0	2.0		2.0	0.5	3.0	3.5	3.5	4.0	100.0	100.0	
52	AH-23049	1.3	1.3		1.5	0.5	2.5	3.5	3.5	2.0	100.0	100.0	
53	VEH-310101	1.5	1.5		2.5	1.0	-	4.0	4.0	3.0	100.0	44.4	
54	PRO-360	1.5	1.5		1.5	-	3.0	3.5	3.5	2.0	50.0	100.0	
55	PMZ-235	1.5	1.5		3.0	0.5	3.5	3.5	3.5	3.0	100.0	100.0	
56	BISCO-715	1.6	1.6		4.5	0.5	-	3.0	3.0	3.0	100.0	100.0	
57	SEEDTEC-662	2.0	2.0		3.0	1.5	3.0	4.0	4.0	3.0	96.7	86.8	
58	VIPL-1806	1.0	1.0		2.0	1.0	-	3.5	3.5	2.0	96.6	97.2	
59	AAMH-475	1.5	1.5		3.5	0.5	-	4.0	4.0	3.0	100.0	100.0	
60	X 1282 T	3.0	3.0		2.0	0.5	3.5	3.5	3.5	3.0	100.0	100.0	
61	JKMH-370-2	1.5	1.5		3.5	1.0	3.0	3.5	3.5	3.0	100.0	97.4	
62	NECH-124	2.0	2.0		2.5	0.5	3.0	4.0	4.0	3.0	97.0	97.4	
63	MCH-11	2.3	2.3		3.0	0.5	-	3.5	3.5	1.0	100.0	100.0	

Table No 6

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	BAJ	BLSB (1-5) PANT	DEL	BAJ	SDM (%) MAND	COIM
64	SSF-X 2002	2.3		3.5	1.5	-	3.5	2.0	100.0	97.5
65	X-2004	1.5		1.5	2.0	3.0	3.5	2.0	100.0	97.4
66	NMH-1033	1.3		2.0	-	-	3.5	2.0	66.6	100.0
67	GK 3050	1.8		3.5	1.5	2.5	4.5	3.0	100.0	100.0
68	M-0327	1.3		2.0	0.5	-	4.0	3.0	89.2	100.0
69	MCH-12	1.8		4.0	2.0	2.5	3.5	2.0	100.0	95.5
70	GF-2007	1.8		3.5	1.0	3.0	3.5	3.0	92.8	100.0
71	GF-2009	2.0		3.0	1.0	3.5	4.0	3.0	88.2	94.7
	CHECKS									
72	PRO-311	2.3		4.0	0.5	3.5	4.0	2.0	86.9	97.5
73	BIO-9681	2.0		3.5	0.5	-	4.0	3.0	86.6	94.7
74	PARBHAT	2.5		3.5	2.5	-	3.5	1.0	93.5	97.3
75	GANGA-11	3.5		3.0	3.0	2.5	4.5	2.0	96.7	92.5
76	SEEDTEC-2324	3.0		3.0	2.0	-	3.5	3.0	80.0	100.0
77	CM-500	3.5		4.0	2.0	3.0	3.0	4.0	100.0	100.0
78	CM-600	4.5		4.5	4.0	4.0	4.5	1.0	100.0	100.0
79	CM-202	4.5		4.5	4.0	-	3.5	1.0	100.0	100.0
	CM-500									
	CML 186									
	CM-202									
	HKI1341									
	Navjot									
	Early Corn.							2.5		
	Local Check	3.0								
	Local Check (W)									
	MAI 120			5.0						
	Basi					4.7				
	Amar					4.2				

Table No 6

SL. NO	Pedigree	BSDM (1-5)		RDM	PFSR (1-9)		HYD	UDP	ESR (%)		PANT	
		DHAU	PANT		LUD	LUD			DHAU	PANT		
IET FULL SEASON MATURITY												
1	BH-3294	1.8	-	52.2	2.8	2.7	4.8	44.9	-	-	21.4	
2	BH-3300	1.7	4.0	86.4	2.2	7.1	5.5	28.2	-	-	30.0	
3	BH-3306	1.5	-	71.4	3.0	6.1	6.9	33.9	-	-	20.0	
4	BH-3309	1.3	1.0	19.0	3.5	5.4	5.2	34.8	-	-	11.1	
5	BH-3315	2.0	3.0	14.3	3.5	3.4	2.5	31.2	-	-	-	
6	BH-3437	2.0	4.0	65.0	3.6	5.1	6.7	37.7	-	-	-	
7	EH-1259	2.3	1.0	22.7	3.3	7.7	5.1	62.2	-	-	-	
8	HKH-1168	1.6	1.0	100.0	3.2	6.6	6.0	87.6	-	-	-	
9	HKH-1211 (Y)	2.8	1.5	9.5	3.8	2.5	4.9	57.0	-	-	-	
10	ZA WH-2	2.7	3.5	44.4	4.0	5.1	4.7	50.2	-	-	-	
11	JH-10655	2.0	1.0	0.0	3.3	3.1	3.7	58.7	-	-	-	
12	DMRFG-22	1.5	4.0	88.9	2.5	5.1	6.1	69.6	-	-	-	
13	DMRFG-25	1.8	-	28.6	2.7	3.2	6.6	48.4	-	-	-	
14	KMH-9961	2.0	-	75.0	3.0	4.4	4.5	47.2	-	-	-	
15	SWS 013 Y - 6 NORMAL	2.5	1.0	0.0	2.5	2.6	5.0	27.3	-	-	8.3	
16	AH-23065	2.8	1.5	66.7	3.0	3.4	4.5	35.9	-	-	6.2	
17	PRO-363	1.5	1.0	0.0	3.1	2.3	2.7	41.5	-	-	-	
18	BIO-20228	3.0	2.0	28.6	3.4	4.3	3.1	36.9	-	-	-	
19	BISCO-911	2.0	1.0	25.0	2.5	7.0	3.7	69.7	-	-	-	
20	SEEDTEC-661	1.5	1.0	20.0	2.4	6.9	2.4	54.1	-	-	-	
21	SGMH-102	1.4	1.0	75.0	3.2	7.3	PG*	67.4	-	-	-	
22	VIPL-1902	1.5	1.0	12.5	3.5	4.4	4.8	32.1	-	-	-	
23	AAMH-531	1.5	1.5	50.0	2.5	2.3	6.1	52.8	-	-	5.8	
24	X 1282 X	1.5	-	13.0	3.3	4.3	3.5	39.9	-	-	-	
25	JKMH-013	1.5	3.5	13.0	4.1	4.0	4.8	42.2	-	-	11.7	
26	NECH-125	2.0	1.0	22.2	2.5	5.2	4.3	53.7	-	-	-	
27	KDMH-3437	2.0	4.0	50.0	3.3	5.1	4.4	26.4	-	-	-	
28	SSF-X 86	2.0	1.0	57.9	3.7	3.8	3.0	25.4	-	-	4.1	
29	X-2007	2.0	1.0	50.0	2.8	3.8	2.8	23.0	-	-	-	
30	GJ 3049	2.3	1.0	15.8	2.3	3.5	5.1	38.4	-	-	25.0	

Table No 6
SL. NO Pedigree

SL. NO	Pedigree	BSDM (1-5)		PANT	RDM		PFSSR (1-9)		HYD	UDP	ESR (%)	
		DHAU	LUD		UDP	LUD	DHAU	PANT				
31	M-0324	1.8	3.3	1.0	5.0	3.3	3.3	3.3	3.3	5.0	35.4	-
32	EAGLE-9	2.0	2.5	2.0	52.6	2.5	5.3	2.5	5.3	5.1	47.0	12.5
33	MCH-8	1.8	3.3	-	4.0	3.3	5.5	3.3	5.5	4.3	46.9	-
34	MCH-13	1.7	2.4	1.0	31.8	2.4	5.3	2.4	5.3	4.5	40.2	-
35	GF-2008	1.6	3.6	1.0	28.6	3.6	3.2	3.6	3.2	4.8	51.7	-
36	GF-2012	1.5	3.5	-	18.2	3.5	5.5	3.5	5.5	3.1	34.6	-
37	FILLER	2.0	3.3	1.0	22.7	3.3	5.7	3.3	5.7	3.9	48.5	-
38	BH-3297	1.8	4.0	1.0	69.6	4.0	2.1	4.0	2.1	2.0	33.4	-
39	BH-3301	2.2	2.6	3.0	42.9	2.6	3.1	2.6	3.1	2.5	27.7	-
40	BH-3307	1.3	2.8	1.5	17.4	2.8	6.0	2.8	6.0	2.4	25.6	10.0
41	BH-3313	2.3	3.1	1.5	0.0	3.1	3.1	3.1	3.1	3.0	16.0	-
42	BH-3316	2.6	3.3	1.0	9.5	3.3	2.3	3.3	2.3	3.0	26.1	-
43	BH-3439	2.9	3.3	4.0	69.2	3.3	3.2	3.3	3.2	2.9	29.5	12.5
44	HKH-1129	3.1	3.7	-	86.7	3.7	6.0	3.7	6.0	3.7	40.7	-
45	HKH-1201 (W)	2.2	3.1	1.5	66.7	3.1	6.0	3.1	6.0	6.0	45.7	-
46	HKH-1217	3.2	2.0	1.0	84.2	2.0	4.6	2.0	4.6	6.4	30.5	-
47	JH-10589	1.6	4.2	-	0.0	4.2	6.0	4.2	6.0	2.7	33.3	-
48	JC-1441 C3 FS	2.5	3.2	-	70.6	3.2	5.0	3.2	5.0	3.4	43.7	-
49	DMRFG-23	2.6	2.8	3.5	84.2	2.8	6.0	2.8	6.0	3.3	41.0	16.6
50	DMRFG-26	3.0	2.4	1.0	83.3	2.4	4.7	2.4	4.7	3.0	41.1	22.2
51	MC-03-1	3.1	2.6	1.0	78.3	2.6	4.4	2.6	4.4	3.1	54.0	-
52	AH-23049	2.5	1.8	1.5	50.0	1.8	2.4	1.8	2.4	4.1	46.7	15.0
53	VEH-310101	2.5	3.0	-	28.6	3.0	3.3	3.0	3.3	PG*	41.7	-
54	PRO-360	2.5	3.2	1.0	0.0	3.2	5.5	3.2	5.5	5.6	30.5	5.5
55	PMZ-235	2.8	2.5	1.0	40.0	2.5	3.6	2.5	3.6	2.3	65.9	50.0
56	BISCO-715	2.5	3.2	-	20.8	3.2	3.3	3.2	3.3	3.5	32.2	-
57	SEEDTEC-662	2.6	3.2	1.0	29.2	3.2	5.8	3.2	5.8	3.5	61.0	-
58	VIPL-1806	2.4	3.0	-	33.3	3.0	5.0	3.0	5.0	3.1	37.4	-
59	AAMH-475	1.6	3.3	-	4.8	3.3	2.6	3.3	2.6	3.0	46.5	-
60	X 1282 T	1.9	3.0	1.0	31.6	3.0	4.9	3.0	4.9	3.5	29.0	-
61	JKMH-370-2	2.0	2.8	2.0	47.8	2.8	3.4	2.8	3.4	3.2	37.4	16.6
62	NECH-124	2.9	3.0	1.0	4.0	3.0	6.5	3.0	6.5	4.4	46.5	-
63	MCH-11	2.7	3.2	-	13.0	3.2	5.5	3.2	5.5	4.0	29.0	-

Table No 6

SL NO	Pedigree	BSDM (1-5)	PANT	RDM	PFSR (1-9)	HYD	UDP	ESR (%)	PANT
64	SSF-X 2002	1.5	-	72.2	3.1	4.4	3.9	37.1	-
65	X-2004	1.5	1.5	66.7	3.0	5.6	4.2	72.7	33.3
66	NIMH-1033	1.4	-	34.5	3.0	-	3.7	56.5	-
67	GK 3050	2.5	1.5	36.8	3.1	3.5	3.7	27.6	16.6
68	M-0327	2.6	-	5.0	3.0	3.2	2.7	35.1	-
69	MCH-12	2.6	1.0	36.4	3.3	6.4	3.7	44.4	-
70	GF-2007	2.8	1.0	4.8	3.5	2.2	6.3	61.0	-
71	GF-2009	3.0	1.0	10.0	3.0	4.7	7.6	26.2	42.8
	CHECKS								
72	PRO-311	2.5	1.0	9.1	3.2	4.9	3.2	59.0	6.6
73	BIO-9681	2.3	-	36.0	3.7	3.8	4.2	51.4	-
74	PARBHAT	1.5	1.0	18.8	2.5	3.8	4.6	11.5	-
75	GANGA-11	2.0	1.0	61.1	2.8	3.8	5.8	37.8	17.6
76	SEEDTEC-2324	1.4	-	35.0	3.3	4.5	4.7	15.5	-
77	CM-500	1.6	1.0	81.0	2.3	6.1	2.4	39.2	50.0
78	CM-600	2.3	1.0	63.2	3.0	6.1	5.4	20.8	40.0
79	CM-202	2.5	-	90.9	3.0	8.7	6.8	18.3	-
	CM-500	-	-	-	-	-	-	-	-
	CML 186	-	-	-	-	-	-	-	-
	CM-202	-	-	-	-	-	-	-	-
	HKI1341	-	-	-	-	-	-	-	-
	Navjot	-	-	-	-	-	-	-	-
	Early Corn	-	-	-	-	-	-	-	-
	Local Check	1.6	-	12.4	-	7.4	4.3	10.4	-
	Local Check (W)	-	-	35.0	-	-	-	-	-
	MAI 120	-	-	-	-	-	-	-	-
	Basi	-	4.5	-	-	-	-	-	46.3
	Amar	-	2.0	-	-	-	-	-	24.1

Table 7: Trap Nursery 2003 Kharif

S.No.	Pedigree	MLB (1-5)	BAJ	DHAU	DHO	LUD	ARBH	JASH
1	CM 104	1.3	0.5	2.0	1.4	1.2	-	1.5
2	CM 105	1.3	0.0	1.5	2.0	1.5	-	2.5
3	CM 111	1.0	0.5	3.0	2.2	1.6	-	3.0
4	CM 115	1.8	3.5	3.5	2.4	3.2	-	2.5
5	CM 119	1.8	3.5	3.0	3.5	4.0	-	2.0
6	CM 120	1.5	2.5	3.5	2.7	1.7	-	3.0
7	CM 125	1.3	0.5	2.5	2.6	3.0	-	3.0
8	CM 209	1.5	3.0	2.0	2.8	2.4	1.5	3.0
9	CM 210	2.5	3.5	2.0	2.7	2.2	-	2.0
10	CM 400	2.8	1.5	3.0	2.6	3.8	-	3.0
11	CM 500	2.0	3.5	3.5	2.5	2.8	1.5	2.5
12	CM 600	2.0	-	2.0	2.8	2.1	-	3.0

S.No.	Pedigree	TLB (1-5)	BAJ	KOL	ARBH
1	CM 104	1.3	0.5	0.8	1.5
2	CM 105	1.3	1.0	0.8	2.0
3	CM 111	1.5	2.5	1.3	2.2
4	CM 115	1.5	1.0	2.3	3.0
5	CM 119	1.3	1.0	2.0	2.0
6	CM 120	1.3	1.5	1.7	2.6
7	CM 125	1.5	0.5	1.5	2.5
8	CM 209	1.5	-	1.5	2.0
9	CM 210	1.3	1.5	2.0	3.5
10	CM 400	2.3	2.5	1.7	4.0
11	CM 500	1.8	3.0	0.8	2.6
12	CM 600	3.0	-	0.3	3.6

Table 7

S.No.	Pedigree	BLSB (1-5)	DHAU	DHO	JASH	BSDM (1-5)	DHAU	PFSR (%)	DEL	HYD	LUD	UDP
1	CM 104	BAJ										
2	CM 105	2.0	2.5	2.0	1.0	2.0	70.6	5.0	3.3	5.0	3.3	24.0
3	CM 111	3.0	3.0	2.0	2.0	2.5	62.5	3.9	4.1	3.9	4.1	5.0
4	CM 115	3.0	2.0	2.0	1.5	2.0	38.5	4.0	3.5	4.0	3.5	14.3
5	CM 119	3.0	4.0	-	2.0	2.5	93.0	4.7	2.6	4.7	2.6	44.4
6	CM 120	2.0	2.0	4.0	2.0	1.0	50.0	5.8	2.5	5.8	2.5	10.0
7	CM 125	1.0	2.0	2.0	1.5	2.0	75.0	2.7	3.3	2.7	3.3	25.0
8	CM 209	3.0	2.0	-	1.5	1.0	60.0	7.3	3.3	7.3	3.3	60.0
9	CM 210	2.0	2.0	2.0	1.5	1.0	37.5	7.2	3.6	7.2	3.6	16.7
10	CM 400	4.0	1.0	2.0	2.0	1.0	66.7	6.7	3.6	6.7	3.6	77.8
11	CM 500	2.0	1.0	-	1.5	2.0	76.9	2.6	3.3	2.6	3.3	15.4
12	CM 600	3.0	3.5	-	1.5	1.5	66.7	7.2	3.2	7.2	3.2	53.8

S.No.	Pedigree	BROWN SPOT (1-5)	BAJ	DHAU	DHAU	ESR (%)	URVULARIA LEAF SPOT (1-5)	SDM (%)	RDM (%)	C. RUST (1-5)	ARBH
1	CM 104	-									
2	CM 105	-	2.0	2.0	9.1	2.0	82.7	0.0	0.0	1.0	1.0
3	CM 111	-	2.5	2.5	8.2	2.5	100.0	5.0	5.0	1.0	1.0
4	CM 115	1.5	-	10.4	10.4	2.0	100.0	0.0	0.0	1.0	1.0
5	CM 119	1.0	3.0	5.8	5.8	3.0	100.0	0.0	0.0	1.0	1.0
6	CM 120	2.0	3.0	9.3	9.3	2.5	100.0	5.0	5.0	1.0	1.0
7	CM 125	2.0	3.0	7.2	7.2	2.0	100.0	25.0	25.0	1.0	1.0
8	CM 209	-	3.0	11.1	11.1	1.5	100.0	10.0	10.0	1.5	1.5
9	CM 210	-	2.0	7.9	7.9	2.0	70.5	0.0	0.0	1.0	1.0
10	CM 400	-	1.5	6.0	6.0	2.0	100.0	17.1	17.1	1.5	1.5
11	CM 500	3.0	3.0	11.2	11.2	1.0	100.0	7.7	7.7	1.5	1.5
12	CM 600	-	2.0	14.6	14.6	3.0	100.0	30.8	30.8	1.5	1.5
			2.0	11.4	11.4	3.0	100.0	0.0	0.0	1.5	1.5

Table 8: Evaluation of diseases in QPM 1 during 2003 kharif

S.No.	Pedigree	MLB (1-5)		DHO	LUD	BLSB (1-5)		PFSR (1-9)		LUD
		DEL	DEL			DEL	HYD			
1	HQPM-1	2.5	2.6	1.1	4.5	3.9	3.0			
2	HQPM-2	2.0	2.8	1.1	3.5	2.8	2.6			
3	HQPM-3	1.5	2.9	1.6	3.5	4.7	3.0			
4	B-QPM-12	1.5	3.0	1.1	4.0	2.9	3.5			
5	B-QPM-024	2.5	2.0	1.2	3.5	3.2	2.8			
6	B-QPM-31	3.5	3.0	1.0	4.5	3.9	4.0			
7	B-QPM-32	2.5	2.0	2.3	3.5	4.3	3.5			
8	B-QPM-33	2.5	2.8	1.4	4.5	3.5	4.3			
9	CML-142 x CML-150	3.0	2.3	1.3	4.0	3.9	2.6			
10	JH-QPM-83	1.5	2.5	1.0	3.5	4.5	3.6			
	CHECKS									
11	SEEDTEC-2324	3.0	2.4	1.0	4.0	4.1	2.6			
12	SHAKTIMAN-1	2.5	3.0	1.8	4.0	4.3	2.5			
13	PRO-311	2.5	3.2	1.1	4.0	4.2	2.6			
14	KH-510	2.0	2.8	1.3	4.0	3.0	3.3			

Table 9: Evaluation of diseases in QPM-2 during 2003 kharif

S.No.	Pedigree	MLB (1-5)		DHO	LUD	BLSB (1-5)		PFSR (1-9)		LUD
		DEL	DEL			DEL	HYD			
1	JH-QPM-35	2.5	2.6	1.5	4.0	3.8	2.5			
2	JH QPM-155	3.5	2.8	1.0	3.5	4.0	2.4			
3	JH QPM-41	2.0	3.0	1.0	4.5	3.7	2.5			
4	JH-QPM-144	2.0	2.9	1.0	4.0	3.1	2.4			
5	XP-0103	2.5	3.2	1.0	4.5	4.1	2.5			
6	BH QPM-47	3.5	3.0	1.0	4.0	4.7	3.4			
7	BH QPM-48	2.0	2.0	1.0	4.0	4.0	2.6			
8	BH QPM-46	1.5	2.7	1.0	3.5	4.0	2.5			
9	BH QPM-44	3.5	2.6	1.2	4.5	5.2	2.6			
10	BH QPM-41	2.5	3.2	1.0	4.0	3.4	3.5			
11	BH QPM-50	3.0	2.9	1.0	4.0	4.5	2.7			
12	BH QPM-40	1.5	3.4	1.0	3.5	2.1	2.5			
13	BH QPM-43	2.0	3.2	1.0	4.0	3.3	2.5			
14	BH QPM-45	1.5	2.9	1.4	3.0	4.0	3.3			
15	BH QPM-42	3.0	2.8	1.1	4.0	1.9	3.0			
16	XP 0105	2.5	3.0	2.2	4.0	3.4	2.6			
17	BAJ QPM-1	2.0	3.2	1.2	4.0	3.3	2.6			
18	BAJ QPM-2	2.5	2.9	1.2	3.0	3.9	2.6			
19	BVM-7	1.5	3.2	1.0	3.5	7.0	3.5			
20	S99TLWQ-HG-AB	3.0	3.0	1.5	4.5	3.6	3.3			
21	S99TLWQ-HG-B	1.5	2.8	1.1	4.0	3.4	3.5			
22	JH ae-7	2.5	3.4	1.0	3.5	3.5	3.8			
23	JH wx-29	2.0	2.9	2.0	4.0	3.1	2.5			
24	SHAKITMAN-1	2.0	3.6	1.2	4.0	4.3	3.0			
25	CHECKS									
25	PRO-311	1.5	3.0	3.1	4.0	4.4	2.6			
26	KH-510	2.5	2.8	1.5	4.0	4.2	2.5			
27	X-3342	1.5	3.4	1.3	3.0	4.0	3.2			
28	BIO 9681	4.5	4.7	2.1	4.0	4.0	3.1			

Table 11: Screening of maize materials for BSDM at Pantnagar during kharif 2003
(Dr. Gadag)

S.No.	Pedigree	BSDM (1-5) PANT	S.No.	Pedigree	BSDM (1-5) PANT
1	Comp 8527 x 8551 x 8-2-1-4-1-1-2-3-2-3	2.3	21	5039	1.0
2	Comp.8527 x A 68 x 2-5-10-2-2-1-3-2	1.5	22	9678 C-1 #4	3.0
3	Comp.8527 x 85164 x 1-2-7-5-1-1-5-2-2	1.0	23	9683 A.1	4.0
4	Comp.85134 x 85164 x 1-1-6-3-2-2-4	-	24	9683 A.1-5-1-2	2.0
5	Comp.8527 x 8551 x 8-2-1-7-13-2-2-1	1.0	25	9683 A.1-5-2-3	5.0
6	Comp.8527 x 85164 x 1-2-8-1-1-1-3	4.0	26	9683 A.1-4-1	2.0
7	Comp.DRC 8601 x A 68 x 1-4-3-3-1-1-5-5	2.0	27	9683-A.1-5-1	2.5
8	IPA 34-62-F-#-1-4-2	1.8	28	9683-A.1-5-2	1.3
9	Comp.8527 x 85164 x 1-2-7-5-1-1-5-2-3	1.0	29	NAI 139	1.0
10	Comp.8527 x 85164 x 1-2-7-5-1-1-5-2-4	1.5	30	CM-111	1.3
11	Comp.8527 x A 68 x 2-5-8-2-1-2-1-4	2.0	31	CM-140	2.3
12	Comp.85134 x 85164 x 1-1-6-3-2-2-4-1	5.0	32	5039	2.3
13	Comp.85134 x 85164 x 1-1-6-3-2-2-4-2	5.0	33	5039-3	1.3
14	Comp.85134 x 85164 x 1-1-6-3-2-2-4-3	3.0	34	5047-3	3.8
15	Comp.8527 x DRC 8601 x 2-2-9-6-1-3-6-1	2.8	35	5053-2	1.0
16	Comp.DRC 8601 x A 68 x 1-4-3-3-1-1-5-1-2	2.0	36	CM-136-3	1.5
17	Comp.DRC 8601 x A 68 x 1-4-3-3-1-1-5-1-3	-	37	S.1-(Basi Local)	2.5
18	IPA 34-62-F-#-1-4-3	2.3			
19	IPA-2-2-f.1-#-1-1-1-1	1.5			
20	CM-111-#-2	1.5			

Table 12: Evaluation of Nagenahally hybrids to downy mildew during 2003 K

S.No.	Pedigree	SDM (%) MAND
1	NAH-1100	13.6
2	NAH-1110	3.0
3	NAH-1115	11.1
4	DMH-1	62.9
5	NAH-1124	48.0
6	NAH-1068	15.1
7	NAH-1127	11.1
8	NAH-1138	13.0
9	NAH-1144	0.0
10	KANAKA	12.5
11	NAH-1146	0.0
12	NAH-2022	7.4
13	NAH-2044	7.1
14	NAH-2049	6.6
15	NAH-2069	10.0
16	PMZ-303	25.0
17	NAH-2075	20.0
18	NAH-2088	17.8
19	NAH-2089	11.7
20	NAH-2092	12.5
21	DMH-2	100.0
22	NAH-2093	0.0
23	NAH-2094	20.0
24	NAH-2095	16.6
25	NMH-234	20.6
26	NAH-2096	3.7
27	NAH-2097	41.9
28	NAH-2098	12.5
29	NAH-2099	15.3
30	NAC-6004	11.9
31	NAH-2100	0.0
32	NAH-2101	0.0
33	NAH-1137	17.2
34	NANDI-909	8.3
35	VMH-404	51.8
	CM-500	100.0

Table 13: Evaluation of maize inbred lines (NAI) to sorghum downy mildew during 2003 Kharif

S.No.	Pedigree	SDM (%) MAND
1	NAI-108	78.9
2	NAI-112	100.0
3	NAI-113	100.0
4	NAI-115	100.0
5	NAI-116	27.7
6	NAI-117	40.0
7	NAI-122	81.2
8	NAI-124	100.0
9	NAI-125	31.2
10	NAI-127	84.6
11	NAI-129	7.1
12	NAI-132	18.7
13	NAI-133	100.0
14	NAI-139	100.0
15	NAI-140	100.0
16	NAI-143	100.0
17	NAI-147	100.0
18	NAI-149	87.5
19	NAI-151	100.0
20	NAI-154	100.0
21	NAI-155	100.0
22	NAI-156	100.0
23	NAI-159	100.0
24	NAI-160	91.6
25	NAI-163	100.0
26	NAI-164	100.0
27	NAI-165	100.0
28	NAI-166	100.0
29	NAI-142	0.0
30	NAI-144	38.8
31	CM-105	92.3
32	CM-111	93.7
33	CM-114	NG
34	CM-118	100.0
35	CM-132	100.0
36	CM-201	21.4
37	CM-205	100.0
38	CM-211	88.8
39	CM-501	66.6
40	MO-17	25.0
41	HI-55	100.0
42	A-419	100.0
43	Fla-2Bt-115	100.0
	CM 500	100.0

Table 14: Evaluation of S4 lines of Mandya hybrids to downy mildew during 2003 Kharif

S.No.	Pedigree	SDM (%)
		MAND
1	MAH-1074	63.6
2	MAH-1077	50.0
3	MAH-1085	30.7
4	MAH-1088	76.9
5	MAH-1093	50.0
6	MAH-1096	0.0
7	MAH-1101	53.8
8	MAH-1107	40.0
	CM 500	100.0

Table 15: Evaluation of S2 lines of Nagenahally hybrids to downy mildew during 2003 Kharif

S.No.	Pedigree	SDM (%)
		MAND
1	NAH-1051	26.6
2	NAH-1075	12.5
3	NAH-1100	12.5
4	NAH-1101	0.0
5	NAH-1103	62.5
6	NAH-1107	31.2
7	NAH-1109	66.6
8	NAH-1117	0.0
9	NAH-1135	50.0
10	NAH-1137	18.6
11	NAH-1191	0.0
	CM 500	100.0

Table 16: Evaluation of maize CiMMYT lines against BSDM (Pantnagar) and BLSB (Udaipur, Pantnagar and Delhi) during kharif 2003

S.No.	Pedigree	BSDM (1-5)		BLSB (1-5)		DEL
		PANT	UDF	PANT	UDF	
1	CA00106	1.0	2.5	2.5	3.5	3.5
2	CA049Y04	1.0	4.0	3.8	5.0	5.0
3	CA03147	-	3.8	3.0	4.5	4.5
4	CA14509	-	2.8	4.8	4.5	4.5
5	CA14518	-	4.0	3.3	5.0	5.0
6	CA03106	1.0	4.0	3.5	4.5	4.5
7	CA003134	-	3.5	3.5	3.0	3.0
8	CA00370(CML 469)	3.0	3.5	3.0	4.0	4.0
9	CA34507	1.0	3.5	3.3	2.5	2.5
10	CA00102(CML 429)	1.5	3.0	3.5	3.8	3.8
11	CA00396	2.0	2.3	3.8	3.0	3.0
12	CA00319(CML 465)	5.0	3.3	3.5	2.8	2.8
13	CA34506	3.3	3.0	4.5	3.3	3.3
14	CA03131	3.0	4.5	4.5	4.3	4.3
15	CA00334(CML 433)	2.5	3.3	4.0	5.0	5.0
16	CA34516	3.0	3.0	3.5	3.5	3.5
17	CA03149	1.0	3.5	3.5	4.5	4.5
18	CA14510(CML 428)	3.3	2.3	4.3	3.0	3.0
19	CA00332(CML 432)	2.0	4.0	4.8	5.0	5.0
20	CA00344	1.0	4.0	3.5	5.0	5.0
21	CML-425	1.5	3.8	3.8	3.8	3.8
22	CML-430	3.5	4.0	1.5	4.0	4.0
23	CA03124	2.5	3.5	5.0	4.8	4.8
24	CA00384	2.0	3.0	4.0	3.8	3.8
25	CA00378	2.5	3.0	4.3	3.5	3.5
26	CML 421	2.0	3.5	5.0	4.8	4.8
27	Pop.147-F2#161-3-2-B-1-B	1.0	2.5	5.0	3.3	3.3
28	Pop.147-F2#161-3-2-B-1-B	1.5	2.5	5.0	3.8	3.8

Table 16

S.No.	Pedigree	BSSDM (1-5)		BLSB (1-5)		PANT	DEL
		PANT	UDP	PANT	UDP		
29	SW 89145-1P7H-#-3-B-B-B-B (CA14527)	1.0	2.8	5.0	3.5		
30	EY-DMR-G-C5-S2-B-B-3-2-B-B-B (CA00104)	1.5	3.5	4.3	4.3		
31	P31 C4S5B-23-#-4-B-B-B-B (CA03142)	4.0	3.0	4.0	4.5		
32	SW 89145-1P7H-#-3-B-B-B-B (CA14527)	1.8	3.0	4.0	3.8		
33	CA03130 (CML 426)	2.0	3.8	4.0	4.8		
34	CA14502 (CML 427)	4.0	4.5	4.0	5.0		
35	CA00304 (CML 431)	-	3.3	4.5	4.3		
36	CML 413	1.0	3.3	4.8	4.3		
37	CA14501	2.0	2.8	-	2.8		
38	CA14517	-	3.5	3.3	3.0		
39	CA03116 (CML 470)	1.0	2.5	3.8	5.0		
40	CA14709 (CML 471)	1.5	4.0	3.0	5.0		
41	CA14524 (CML 474)	3.8	3.8	3.8	3.0		
42	CA14520 (CML 475)	1.3	2.8	3.0	5.0		
43	CML 428	1.5	-	-	-		
44	CA00334(CML 433)						

Table 17: Evaluation of CIMMYT maize inbred lines at Nagenahalli during kharif 2003

S.No.	Pedigree	TLB (1-5)	S.No.	Pedigree	TLB (1-5)
1	NAI-102	2.0	35	NAI-155	2.0
2	NAI-104	2.0	36	NAI-156	2.0
3	NAI-108	2.0	37	NAI-158	3.0
4	NAI-109	2.5	38	NAI-159	3.5
5	NAI-112	2.0	39	NAI-160	3.0
6	NAI-113	2.0	40	NAI-161	2.5
7	NAI-114	2.0	40a.	MAI-120 (Sub.check)	5.0
8	NAI-116	2.0	41	NAI-162	2.0
9	NAI-117	2.0	42	NAI-163	3.5
10	NAI-119	2.0	43	NAI-164	3.5
11	NAI-123	2.0	44	NAI-165	3.0
12	NAI-124	2.0	45	NAI-167	2.0
13	NAI-125	2.0	46	KUI-1411	2.0
14	NAI-126	2.0	47	KUI-1414	2.0
15	NAI-127	2.0	48	MO-17	2.0
16	NAI-128	3.0	49	FLA-2-BT-115	2.0
17	NAI-130	2.0	50	HI-55	2.0
18	NAI-132	2.0	51	H-4460HT-3	2.0
19	NAI-133	2.5	52	CM-114	2.0
20	NAI-135	2.0	53	CM-115	2.5
20a.	MAI-120 (Sub.check)	5.0	54	CM-117	2.5
21	NAI-137	2.0	55	CM-119	2.5
22	NAI-138	2.0	56	CM-122	2.0
23	NAI-139	2.0	57	CM-131	3.5
24	NAI-140	2.0	58	CM-132	2.0
25	NAI-141	2.0	59	CM-205	3.0
26	NAI-142	2.0	60	CM-209	2.0
27	NAI-143	2.0	60a	MAI-120 (Sub.check)	5.0
28	NAI-145	2.0	61	CM-501	2.5
29	NAI-146	2.5	62	MAI-104	2.0
30	NAI-147	2.0	63	MAI-105	2.0
31	NAI-148	2.5	64	MAI-110	2.0
32	NAI-149	2.0	65	MAI-112	2.0
33	NAI-151	2.0	66	MAI-114	2.0
34	NAI-152	2.0	67	MAI-123	2.0

Table 18: Evaluation of CIMMYT maize inbred lines at Nagenahalli during kharif 2003

S.No.	Pedigree	TLB (1-5)
1	NAI-601	2.0
2	NAI-607	2.0
3	NAI-608	2.0
4	NAI-609	2.0
5	NAI-615	2.0
6	NAI-617	2.0
7	NAI-620	2.0
8	NAI-624	2.0
9	NAI-627	2.0
10	NAI-632	2.0
11	NAI-635	2.0
12	NAI-637	2.0
13	NAI-639	2.0
14	P-21	2.0
15	GT-440	2.0
16	TZMI-102	2.0
17	CM-300	4.0
18	CM-400	4.5

Table 19: Evaluation of CIMMYT maize inbred lines at Nagenahalli during kharif 2003

S.No.	Pedigree	TLB (1-5)	SDM (%)
1	NAH-1100	2.0	13.6
2	NAH-1110	2.0	3.0
3	NAH-1115	2.0	11.1
4	DMH-1 (Public Check)	3.5	63.0
5	NAH-1124	2.0	48.0
6	NAH-1068	2.0	15.1
7	NAH-1127	2.0	11.1
8	NAH-1138	2.0	13.0
9	NAH-1144	2.0	0.0
10	Kanak (Seed Tech,Private)	2.0	12.5
11	NAH-1146	2.0	0.0
12	NAH-2022	2.0	7.4
13	NAH-2044	2.0	7.1
14	NAH-2049	2.0	6.6
15	NAH-2069	2.0	10.0
16	KH-5981 (Private check)	3.5	25.0
17	NAH-2075	2.0	20.0
18	NAH-2080	2.0	17.8
19	NAH-2089	2.0	11.7
20	NAH-2092	2.0	12.5
21	DMH-2 (Public check)	3.5	100.0
22	NAH-2093	2.3	0.0
23	NAH-2094	2.0	20.0
24	NAH-2095	2.0	16.6
25	NMH-234 (Private check)	2.0	20.6
26	NAH-2096	2.0	3.7
27	NAH-2097	2.0	41.9
28	NAH-2098	2.0	12.5
29	NAH-2099	2.0	15.3
30	NAC-6004 (Public check)	2.0	11.9
31	NAH-2100	2.0	0.0
32	NAH-2101	2.0	0.0
33	NAH-1137	2.0	17.2
34	BIO-9637 (Private check)	4.0	8.3
35	VMH-404 (Private check)	2.0	51.8

Table 20: Evaluation of CIMMYT maize inbred lines at Nagenahalli during kharif 2003

S.No.	Pedigree	TLB (1-5)	S.No.	Pedigree	TLB (1-5)
1	SKV-1	2.0	42	SKV-46	2.5
2	SKV-2	2.0	43	SKV-47	2.0
3	SKV-3	2.0	44	SKV-48	2.0
4	SKV-4	3.5	45	SKV-49	2.0
5	SKV-5	2.0	46	NAI-154	2.0
6	SKV-6 (L)	2.0	47	SKV-51	2.0
7	SKV-6 (E)	2.0	48	SKV-52	2.0
8	SKV-7	4.0	49	SKV-53	2.0
9	SKV-8	3.5	50	SKV-55	2.0
10	SKV-9	2.0	51	SKV-57	2.0
11	SKV-10	2.5	52	SKV-58	2.0
12	SKV-11	2.0	53	SKV-59	2.5
13	SKV-12	2.0	54	SKV-60	2.0
14	SKV-13	2.0	55	SKV-61	2.0
15	SKV-14	2.0	56	SKV-62	2.0
16	SKV-15	2.0	57	SKV-63	2.0
17	SKV-17	2.0	58	SKV-64	2.0
18	SKV-18	2.0	59	SKV-65	2.0
19	SKV-19	2.0	60	SKV-66	2.0
20	SKV-20	2.0	60a.	MAI-120 (Sus. Check)	5.0
20a.	MAI-120 (Sus. Check)	5.0	61	SKV-67	2.0
21	SKV-21	2.0	62	SKV-69	2.0
22	SKV-23	2.0	63	SKV-70	2.0
23	SKV-24	2.0	64	SKV-71	2.5
24	SKV-25	2.0	65	SKV-72	2.0
25	SKV-26	2.0	66	SKV-74	2.0
26	SKV-27	2.0	67	SKV-75	2.0
27	SKV-28	2.0	68	SKV-76	2.0
28	SKV-30	2.0	69	NE-19008-SWOOD-1066-1	2.0
29	SKV-31	2.0	70	CA-00302-SWOOE-2030-3	2.0
30	SKV-33	2.0	71	CA-00324-SWOOE-2025-156	2.0
31	SKV-34	2.0	72	CA-00334-SWOOE-2030-13	2.0
32	SKV-35	2.0	73	CA-00346-SWOOE-2025-63	2.0
33	SKV-36	3.5	74	CA-34501-SWOOE-2025-73	2.0
34	SKV-37	2.0	75	CA-34502-SWOOE-2032-15	2.0
35	SKV-38	2.0	76	CL-02836-SWOOE-2025-82	2.0
36	SKV-39	3.0	77	TOOSW-101-SWOOE-2029-336	2.5
37	SKV-40	3.0	78	TOOSW-301-SWOOE-2029-421	2.0
38	SKV-42	2.5	79	TOOOO-306-SWOOE-2026-658	2.0
39	SKV-43	2.0	80	TOOOO-306-SWOOE-2026-167	2.0
40	SKV-44	2.0	81	TOO-35102-SWOOE-2027-202	2.0
40a.	MAI-120 (Sus. Check)	5.0	82	TOOSW501-SWOOE-2029-159	2.0
41	SKV-45	2.0	83	MAI-120 (Sus. Check)	5.0

Table 21: Control of diseases with metalaxyl M XL 35/ES (Apron XL35 ES 3 WS) through seed treatment at Pantnagar, Mandya, Dhaulakuan and Udaipur during kharif 2003

S. No.	Treatment	Dose g/kg	Germination (%)				Infected plants (%)
			PANT	MAND	DHAU	UDP	
							PANT
1.	Untreated	-	77.7	86.0	71.5	84.3	79.3
2.	Apron XL 35 ES	1.2	82.6	88.0	73.9	81.3	38.3
3.	Apron XL 35 ES	2.4	93.3	89.0	76.9	72.6	41.8
4.	Apron XL 35 ES	3.5	74.4	89.0	80.6	74.3	22.6
5.	Apron 35 WSC	7.0	65.1	91.0	79.1	76.6	19.6
6.	Apron XL 35 ES	4.8	-	-	74.2	77.6	-
7.	Apron XL 35 ES	9.6	-	-	70.1	71.0	-
8.	Apron 35 WS	4.0	-	-	-	81.3	-

S. No.	Treatment	Dose g/kg	SDM (%)	RDM (%)	BSDM (1-5)		
					MAND	UDP	PANT
1.	Untreated	-	98.5	66.7	3.3	2.9	2.9
2.	Apron XL 35 ES	1.2	15.0	0.0	1.8	2.5	2.5
3.	Apron XL 35 ES	2.4	7.0	0.0	2.0	2.1	2.1
4.	Apron XL 35 ES	3.5	2.6	0.0	1.5	2.0	2.0
5.	Apron 35 WSC	7.0	9.5	0.0	1.3	1.9	1.9
6.	Apron XL 35 ES	4.8	3.8	0.0	-	1.5	1.5
7.	Apron XL 35 ES	9.6	0.0	0.0	-	1.4	1.4
8.	Apron 35 WS	4.0	-	-	-	-	-

S. No.	Treatment	Dose g/kg	Yield (kg/plot)	Yield (kg/ha)		1000-gram weight (g)	
				PANT	MAND	DHAU	PANT
1.	Untreated	-	2.8	1033	30.1	184.0	206
2.	Apron XL 35 ES	1.2	3.4	3413	33.4	201.6	243
3.	Apron XL 35 ES	2.4	3.9	3420	34.2	201.0	261
4.	Apron XL 35 ES	3.5	3.8	3550	36.3	208.3	2451
5.	Apron 35 WSC	7.0	3.5	3370	35.8	208.3	245
6.	Apron XL 35 ES	4.8	-	3440	33.7	-	263
7.	Apron XL 35 ES	9.6	-	3490	28.2	-	-
8.	Apron 35 WS	4.0	-	-	-	-	-

Table 21-A : Control of downy mildew with metalaxyl M XL 35/ES (Apron XL35 ES 3 WS) through seed treatment at Udaipur during kharif 2003

S. No.	Treatment	Dose g/kg	Germination %	Downy Mildew (%)	Yield Kg/ha
1	Untreated	-	84.3	66.7	1388
2	Apron XL 35 ES	1.2	81.3	0.0	1688
3	Apron XL 35 ES	2.4	72.6	0.0	1880
4	Apron XL 35 ES	3.5	74.3	0.0	2350
5	Apron 35 WSC	7.0	76.6	0.0	2091
6	Apron XL 35 ES	4.8	77.6	0.0	2361
7	Apron XL 35 ES	9.6	71.0	0.0	1744

Table 21-B: Control of downy mildew with metalaxyl M XL 35/ES (Apron XL35 ES 3 WS) through seed treatment at Pantnagar during kharif 2003

S. No	Treatment	Dose g/kg	Germination (%)	BSDM (1-5)	Infected plants (%)	Yield		1000-grain weight (g)
						(kg/plot)	(kg/ha)	
1.	Untreated	-	77.7	3.3	79.3	2.8	1867	184.0
2.	Apron XL 35 ES	1.2	82.6	1.8	38.3	3.4	2267	201.8
3.	Apron XL 35 ES	2.4	93.3	2.0	41.8	3.9	2600	201.0
4.	Apron XL 35 ES	3.5	74.4	1.5	22.6	3.8	2533	208.3
5.	Apron 35 WSC	7.0	65.1	1.3	19.6	3.5	2333	208.3

Table 21 C: Control of downy mildew with metalaxyl M XL 35/ES (Apron XL35 ES 3 WS) through seed treatment at Dhaulakuan during kharif 2003

S. No.	Treatment	Dose g/kg	Germination (%)	BSDM (1-5)	Yield (kg/ha)
1	Untreated	-	71.5	2.9	3010
2	Apron XL 35 ES	1.2	73.9	2.5	3340
3	Apron XL 35 ES	2.4	76.9	2.1	3420
4	Apron XL 35 ES	3.5	80.6	2.0	3630
5	Apron 35 WSC	7.0	79.1	1.9	3580
6	Apron XL 35 ES	4.8	74.2	1.5	3370
7	Apron XL 35 ES	9.6	70.1	1.4	2820

Table 21-D: Control of downy mildew with metalaxyl M XL 35/ES (Apron XL35 ES 3 WS) through seed treatment at Mandya during kharif 2003

S. No.	Treatment	Dose g/kg	Germination (%)	SDM (%)	Yield (kg/ha)	1000-grain weight (g)
1.	Untreated	-	86.0	98.5	1033	206
2.	Apron XL 35 ES	1.2	88.0	15.0	3413	243
3.	Apron XL 35 ES	2.4	89.0	7.0	3420	261
4.	Apron XL 35 ES	3.5	89.0	2.6	3550	241
5.	Apron 35 WSC	7.0	91.0	9.5	3370	245
6.	Apron XL 35 ES	4.8	88.0	3.8	3440	266
7.	Apron XL 35 ES	9.6	88.0	0.0	3490	263

Table 22: Testing of fungicides for the control of Turcicum leaf blight of maize during 2003 kharif at Nagenahalli

S. No.	Treatments	TLB (%)
1.	Untreated check	58.6 (7.7)
2.	Score 25 EC (ST at 0.25 ml/kg of seed + 3 Sprays at 0.25 ml/litre of water)	23.7 (4.9)
3.	Score 25 EC (ST at 0.50 ml/kg of seed + 3 Sprays at 0.50 ml/litre of water)	14.3 (3.9)
4.	Score 25 EC (ST at 0.25 ml/kg of seed + 2 Sprays at 0.25 ml/litre of water)	28.2 (5.4)
5.	Score 25 EC (ST at 0.50 ml/kg of seed + 2 Sprays at 0.50 ml/litre of water)	21.2 (4.7)
6.	Score 25 EC (ST at 0.50 ml/kg of seed + 1 Sprays at 0.50 ml/litre of water)	32.3 (5.8)
7.	Score 25 EC (ST at 1.00 ml/kg of seed + 1 Sprays at 1.00 ml/litre of water)	25.2 (5.1)
8.	Tilt at 1 ml/kg of seed + 2 sprays at 1 ml/litre of water	31.6 (5.7)
9.	Manozeb at 2.5 gms/litre of water-3 sprays	33.3 (5.8)
10.	ST with dividend 3 WS at 1.5 gms/kg seed + Score at 0.5 ml/kg + 1 spray at 0.5 ml/L	40.1(6.1)
11.	ST with dividend 3 WS at 1.5 gms/kg seed + Score at 0.25 ml/kg + 2 sprays at 0.25 ml/L	35.6 (6.0)
12.	ST alone with dividend 3 WS at 1.5 gms/kg seeds	43.6 (6.7)
13.	ST alone with dividend 3 WS at 2.0 gms/kg seeds	40.5 (6.4)

SUMMARY OF THE WORK DONE DURING
KHARIF 2003 AT UDAIPUR

AICMIP – NEMATOLOGY

CO-ORDINATED TRIALS:

1. Varietal Screening: One hundred forty-five lines received from DMR alongwith three local checks were tested against maize cyst nematode, *H. zae*. Out of 148 lines tested, none showed resistance (0-4 cyst / plant). However, three lines namely DMR-1523, 1537 and 1630 showed moderate resistance (above 4-9 cyst/plant) and rest of the 145 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. The results showed that the population of cyst as well as its contents increases during kharif season with the age of maize crop and after harvest it declines continuously till sowing of maize.
3. Survey: Two hundred eighty samples were collected from un-surveyed maize fields of Ajmer (45), Bhillwara (40), Banswara (52), Chittorgarh (54) and Udaipur (89) districts. The results showed highest cyst population i.e. 13.1 and cyst range 8-21/100 cc soil with 64.0% occurrence from Udaipur.

STATION TRIALS:

4. Crop Loss: This trial was conducted in an infested field having 9 cyst/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 22.2 and 71.1% avoidable yield loss with 43.9 and 33.6% reduction in nematode population over check (21.4 cyst/plant) with the application of Carbofuran and neem cake, respectively.

5. Management

(A) Field trial: Field trial 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 were evaluated against *H. zaeae* in field having 9 cyst/100 cc.soil.

The results showed maximum increase in yield (38.7%) with the application of Carbosulfan 3% w/w + neem cake 5 q/ha followed by carbofuran 1 kg a.i./ha (34.5%) which were significantly higher over control (25.8 q/ha). Reduction in nematode population was significantly lower with Carbosulfan 3% w/w + neem cake 5 q/ha (41.7%) and Carbofuran 1 kg a.i./ha (36.5%) over check (28.75 cyst/plant).

(B) Pot Experiment: Four organic amendments (neem cake, karanj cake, neem seed kernel, 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 treatment in pots at a population of 9 cyst/100 cc soil.

Amongst organic amendments, neem seed kernel @ 10% w/w performed best giving 35.3% reduction in population over check followed by karanj seed kernel @ 10% w/w (31.4%). However, the treated check i.e. Carbosulfan was best among all treatments showing 41.2% reduction in population.

Table-1: Screening of maize entries/germplasms against maize cyst nematode, *Heterodera zea* during kharif, 2003

Cyst / plant	Name of entries / germplasms
O-4 (Resistant)	Nil
Above 4-9 (Moderately Resistant)	DMR-1523 & DMR-1537 (75 Early maturity) DMR-1630 (76 Medium maturity)
Above 9 (Susceptible)	75 Early maturity DMR-1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552. Ganga-2 (local check)
	76 Medium 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, 1626, 1627, 1628, 1629, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645 Ganga-2 (local check)
	77 Full season maturity DMR-1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748 Ganga-2 (local check)

No. of lines tested = 148

Initial population = 9 cyst/100 cc soil (110 E&L/cyst)

Date of sowing = 17-07-2003

Table-2: Population dynamics of maize cyst nematode, *H. zea*

Month	Soil population / 100 cc soil		E&L / cyst
	Cyst	Larvae	
January, 2003	12	490	110.00
February, 2003	13	510	112.50
March, 2003	15	535	115.25
April, 2003	18	610	118.00
May, 2003	14	560	103.75
June, 2003	11	480	096.50
July, 2003	14	540	116.00
August, 2003	17	645	118.25
September, 2003	21	820	120.50
October, 2003	26	990	125.75
November, 2003	20	870	122.00
December, 2003	16	780	119.50

Table-3: Occurrence of maize cyst nematode, *H. zae* on maize during kharif, 2003

S. No	Districts	Places	No. of samples	No. of samples containing <i>H. zae</i>	% Occurrence	Cyst range/100 cc soil	Average cyst population /100 cc soil
1.	Ajmer	Tabiji	12	5	41.67	7-11	8.8
		Dorai	08	3	37.50	4-7	5.3
		Dumada	15	6	40.00	5-9	6.0
		Hatundi	10	4	40.00	3-6	4.7
			45	18	40.00	3-11	6.2
2.	Bhilwara	Biliya	14	8	57.14	13-16	14.1
		Pur	12	6	50.00	11-15	12.8
		Rajiyavas	08	5	62.50	9-13	10.8
		Devli	06	3	50.00	8-11	9.7
			40	22	55.00	8-16	11.8
3.	Banswara	Thikria	10	2	20.00	2-5	3.5
		Borvat	13	3	23.07	1-3	1.7
		Bodla	07	1	14.28	2	2.0
		Tamtia	15	3	20.00	3-6	4.0
		Siyapur	07	0	00.00	-	-
			52	9	17.31	1-6	2.2
4.	Chittorgarh	Senti	16	9	56.25	12-16	14.0
		Bojunda	13	7	53.84	10-14	11.7
		Devri	09	4	44.44	8-11	9.5
		Jectawal	10	3	30.00	4-7	5.3
		Sukhwada	06	3	50.00	5-8	6.3
			54	26	48.15	5-16	9.4
5.	Udaipur	Bujhda	15	11	73.33	12-17	14.0
		Nai	14	9	64.28	8-18	11.3
		Sisarma	12	7	58.33	12-15	13.3
		Madar	18	13	72.22	10-16	11.3
		Iswal	12	8	66.67	14-21	16.0
		Lakhawali	08	4	50.00	9-13	10.5
		Balicha	10	5	50.00	13-17	15.4
			89	57	64.04	8-21	13.1

Total samples = 280

Table-4: Crop loss trial against *H. zea* on maize during kharif, 2003 (Field trial)

Treatments	Doses	Grain yield			Nematode population	
		Q/ha	% Increase over check	% Available loss	Cyst/plant	% Reduction over check
Carbofuran	1.5 kg a.i./ha	21.67	28.5	22.2	12.0	43.9
Neem cake	5 q/ha	20.34	20.6	17.1	14.2	33.6
Check	-	16.86	-	-	21.4	-

Initial population = 9 cyst/100 cc soil (100 E&L cyst)

Variety = Ganga-2

Plot size = 25.5 m x 4 m

Date of sowing = 16-07-2003

Table-5: Management of maize cyst nematode, *H. zae* during kharif 2003 (Field trial)

Treatments	Doses	Grain yield			Nematode population	
		Q/ha	% Increase over check	% Available loss	Cyst/plant	% Reduction over check
Neem cake	5 q/ha	3.95	32.92	27.4	20.75	27.8
Neem leaf	5 q/ha	3.30	27.50	06.5	24.25	15.6
Carbofuran	1 kg a.i./ha 10% w/w	4.17	34.75	34.5	18.25	36.5
Neem cake	3% w/w	3.20	26.67	03.2	26.50	07.8
Carbosulfan	3% w/w + 5 q/ha	3.43	28.58	10.6	19.00	33.9
Carbosulfan + Neem cake	1.5% w/w + 2.5 q/ha	4.30	35.83	38.7	16.75	41.7
Carbosulfan + Neem cake	-	3.57	29.75	15.2	20.50	28.7
Check		3.10	25.83	-	28.75	-
SEm ± CD at 5%		0.273 0.838			2.326 7.287	

Initial population = 9 cyst/100 cc soil
(110 E&L/cyst)

Variety = Ganga-2

Plot size = 4 m x 3 m

Date of sowing = 16-07-2003

Table-6: Management of maize cyst nematode through seed dressing treatment with plant products during kharif, 2003 (Pot trial)

S.No.	Treatment	Doses	Cyst/plant	% Reduction over check
1.	Neem cake	10% w/w	09.50	25.5
2.	Neem cake	5% w/w	11.25	11.8
3.	Karanj cake	10% w/w	10.00	21.6
4.	Karanj cake	5% w/w	11.75	07.8
5.	Neem seed kernel	10% w/w	08.25	35.3
6.	Neem seed kernel	5% w/w	10.50	17.6
7.	Karanj seed kernel	10% w/w	08.75	31.4
8.	Karanj seed kernel	5% w/w	10.75	15.7
9.	Carbosulfan	3% w/w	07.50	41.2
10	Check	-	12.75	-

Note: Data are the average value of four replications

Initial population = 9 cyst/100 cc soil
(110 E&L/cyst)

Variety = Ganga-2

Pot size = 9"

Date of sowing = 06-08-2003

**BIOCHEMISTRY
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ANNUAL REPORT OF BIOCHEMISTRY AND QUALITY**A. Performance of QPM selected inbred line (Hyd 2003 R)**

Among QPM cultivars, endosperm vitreousness is also main parameters apart from lysine and tryptophan content. The storage protein-zein which is extremely deficient in lysine and tryptophan, contribute major protein fraction and related with endosperm vitreousness and hardness. Therefore, in the present study 26 QPM cultivars were evaluated for the zein, non-zein and total protein content to find out their impact on endosperm vitreosity and lysine and tryptophan content to find their protein quality (Table 1). In all the QPM inbred line both lysine and tryptophan content were found higher and zein content was found lower compared with normal check (Navjot). The ratio of non-zein/zein which may be helpful for screening QPM cultivars were also found higher in all QPM cultivars than normal maize (Navjot).

B. Protein quality evaluation of maize grains at early dough stage

Green ears at milky or early dough stage are also consumed in either boiled or roasted form all over the country. During storage the sweetness and softness of grains change if it is consumed after a few days of harvest, thereby reducing consumers preference. Therefore, protein quality of early dough stage after 35 days of pollination was evaluated. *In vitro* protein digestibility (IVPD) of maize grain (Ganga-5) at early dough stage was considerably lower whereas protein and its lysine and tryptophan content were higher as compared to mature grain. It is due to the more zein at mature stage compared with early dough stage (Table 2).

C. Effect of gamma radiation on storage of early dough stage ears and their effect on chemical composition

The results on the inhibition of mold growth on grains, peduncles and stones of the green ears with 3 KGY gamma-radiation indicate, not only its usefulness for controlling the deterioration but provide sufficient time to reach individual consumers without changing the freshness and sweetness of grains at the cost of slight decrease in grains weight mainly due to reduction in starch content as it contributes major constituent to the extent of 68.3 and 70.0% respectively in grains and endosperms. This reduction in protein and total sugar content in both grains and endosperms was not observed (Table 3).

Table 1: Performance of QPM selected inbred lines (Hyd 2003 R)

S. No.	Pedigree	Total protein (%)	Non-zein (%)	Zein (%)	Ratio of non-zein/zein	Tryptophan (g/16 g N)	Lysine (g/16 g N)	Specific gravity (g/ml)	100 kernel weight (g)
1	28 full-sib families (MS) ⁶ HECC bulk ⊕-15-1-BB-DMR QPM-60-#	8.24	68.23	31.77	2.15	0.70	4.15	1.11	15.27
2	28 full-sib families (MS) ⁶ HECC bulk ⊕-1-4-BBBB-#-#	9.23	73.45	26.55	2.77	0.61	3.36	1.14	14.21
3	28 full-sib families (MS) ⁶ HECC bulk ⊕-1-4-BBBB-8-#-#	8.78	71.02	28.98	2.45	0.94	3.58	1.06	13.30
4	28 full-sib families (MS) ⁶ HECC bulk ⊕-1-4-BBBB-10-#-#	8.44	73.23	26.77	2.74	0.90	4.61	1.15	17.23
5	28 full-sib families (MS) ⁶ HECC bulk ⊕-6-3-B-1-⊕-BB-DMR-QPM-20-7-#-#	8.40	69.70	30.30	2.30	0.75	3.75	1.09	14.93
6	28 full-sib families (MS) ⁶ HECC bulk ⊕-6-3-B-1-⊕-BB-DMR-QPM-20-#-#	8.03	74.53	25.47	2.93	0.83	4.40	1.22	21.27
7	28 full-sib families (MS) ⁶ HECC bulk ⊕-6-3-B-1-⊕-BB-DMR-QPM-20-12-#-#	7.86	79.28	20.72	3.83	0.81	4.79	1.22	15.27
8	28 full-sib families (MS) ⁶ HECC bulk ⊕-6-3-B-1-⊕-BB-DMR-QPM-20-20-#-#	7.53	79.25	20.75	3.58	0.81	4.87	1.18	20.61
9	28 full-sib families (MS) ⁶ HECC bulk ⊕-6-3-B-1-⊕-BB-DMR-QPM-20-21-#-#	7.86	84.14	15.86	5.31	0.84	3.83	1.15	17.31
10	28 full-sib families (MS) ⁶ HECC bulk ⊕-6-3-B-1-⊕-BB-DMR-QPM-20-31-#-#	8.20	72.41	27.59	2.62	0.85	3.84	1.14	14.22
11	Shakti (SO) HE 25 # CC bulk 50%-f-# ⊕-1-3-4-⊕ BB-DMR-28-3-#-#	10.32	79.45	20.55	3.87	0.58	2.83	1.08	16.20
12	Shakti SO/SN-HE 25 # CC bulk 50%-F-#-#-10-3-B-1-B-#	10.77	70.37	29.63	2.37	0.62	3.40	1.09	16.32
13	DMR-QPM-71-⊕-bulk	9.65	81.30	18.70	4.35	0.77	3.41	1.17	16.10

14	DMR-QPM-28-⊕-⊕-bulk	10.61	75.24	24.76	3.04	0.59	2.79	1.26	15.76
15	DMR-QPM-41-⊕-⊕-bulk	8.86	79.92	20.08	3.98	0.76	3.40	1.26	18.92
16	DMR-QPM-45-⊕-⊕-bulk	10.23	75.28	24.72	3.05	0.69	3.07	1.06	13.24
17	DMR-QPM-53-⊕-⊕-bulk	9.32	73.93	26.07	2.84	0.79	3.68	1.05	18.03
18	DMR-QPM-20-10-⊕-⊕-3	8.57	76.89	23.11	3.33	0.75	4.11	1.04	18.40
19	DMR-QPM-20-10-⊕-⊕-5	7.65	76.96	23.04	3.34	0.93	3.75	1.34	13.35
20	DMR-QPM-28-5-⊕-⊕-bulk	6.57	77.97	22.03	3.54	0.97	4.83	1.07	10.71
21	28 full-sib families (MS) ⁶ HECC bulk ⊕-1-4- BBBB-⊕-3-#-⊕-11	8.32	79.40	20.60	3.85	0.93	4.70	1.01	16.23
22	Shakti (SO) HS 250 # CC.bulk-25-f-#-#-#- ⊕-23	9.19	76.85	23.15	3.32	0.82	3.64	1.12	12.04
23	White O ₂ P4 full-sib families bulk CC-f-#-#- #-#-⊕-9	8.78	79.17	20.83	3.80	0.91	3.33	1.18	11.78
24	Rattan 27 SN CC bulk-f-#-#-⊕-14	8.69	72.69	27.31	2.66	0.74	3.62	1.02	17.64
25	Rattan 27 SN CC bulk-f-#-#-⊕-18	7.82	76.38	23.62	3.23	0.86	3.21	1.07	19.00
26	Rattan 27 SN CC bulk-f-#-#-⊕-21	7.94	74.90	25.10	2.98	0.86	3.68	0.99	17.40
	Normal (Nayjot)	8.11	62.90	37.90	1.64	0.35	2.63	1.23	18.48
	Shakti-1 (QPM)	9.19	77.40	22.60	3.42	0.73	3.23	1.25	24.98
	Maximum	10.77	84.14	37.90	5.31	0.97	4.87	1.34	24.98
	Minimum	6.57	62.90	15.86	1.64	0.35	2.63	0.99	10.71

Table 2: Protein quality evaluation of early dough stage* and mature stage grains of normal maize**

Parameters	35 days stage	Mature stage
Protein (%)	12.60	11.75
Lysine (g/16 g N)	2.98	2.52
Tryptophan (g/16 g N)	0.40	0.33
IVPD (%)	79.5	88.8
Zein (% in protein)	42.84	43.80
Non-zein (% in protein)	57.16	56.20

*35 days after pollination

**Mean of duplicate analysis

Table 3: Mean value of early dough stage (35 days of pollination) radiated (R) and unirradiated grain at four stages of storage (% d.b.)*

Storage period	Treatment	Weight (g)	Starch (%)	Protein (%)	Total sugar (%)
0	UR	17.6 (13.6)	68.2 (70.8)	14.8 (14.2)	2.7 (2.1)
	R	15.7 (12.8)	62.7 (69.2)	14.6 (14.4)	2.6 (2.4)
15	UR	17.6 (13.1)	71.0 (72.7)	15.1 (14.4)	2.5 (1.7)
	R	17.1 (13.7)	62.0 (62.5)	15.3 (14.9)	2.9 (1.8)
30	UR	20.7 (15.1)	69.3 (69.6)	15.0 (14.6)	2.8 (1.9)
	R	16.0 (12.1)	61.6 (69.4)	14.6 (13.9)	2.8 (1.8)
45	UR	18.6 (14.5)	64.6 (66.8)	16.5 (14.9)	3.0 (1.8)
	R	14.6 (11.2)	59.2 (64.2)	15.5 (14.9)	2.6 (2.9)
SEm±		2.2 (1.5)	5.6 (5.9)	0.7 (0.4)	0.3 (0.4)
CD at 5%		7.3 (5.0)	18.3 (19.2)	2.2 (1.2)	0.9 (1.3)
Mean	UR	18.6 (14.1)	68.3 (70.0)	15.3 (14.5)	2.8 (2.0)
	R	15.8 (12.4)	61.4 (66.3)	15.0 (14.5)	2.8 (2.0)
Sem±		1.2 (0.8)	3.1 (3.3)	0.4 (0.2)	0.1 (0.2)
CD at 5%		3.9 (2.7)	10.3 (10.7)	1.2 (0.6)	0.5 (0.7)

Figures in parenthesis indicate endosperm basis

*Mean of three replications

UR = Unradiated R = Radiated

Quality description of quality protein maize (QPM) germplasm grown at different maize centres during 2003-04 Rabi & Kharif

QPM germplasm received from G.B.P.A.U&T, Pant Nagar, 2003 Kharif for quality test

Sixty QPM germplasm analysed for % protein, Percent Tryptophan in Protein, 100 kernel weight and specific gravity. Data presented in table no. 5. The % protein ranged from 6.10 to 12.50 in Shakti-1-2-2-4-2-1 x DQPMC-1 and Shakti(SO) HE25# cc bulk 50%f-#-20-2-B-11- B DMR QPM-50 x DQPMC-1 respectively. Percent Tryptophan in Protein ranged from 0.30 to 0.98 in Shakti(SO) HE25# cc bulk 50%f-#-20-2-B-11- B DMR QPM-50 x CIMMYT QPM Poop18C8 and SN Composite Bulk-2 SN⁵ cc bulk 12-1B-1 BDMR QPM-3 x DQPMC-1 respectively. 100 kernel weight ranged from 12.70 to 30.90 in Shakti(SO) HE25# cc bulk 50%f-#-1-3-B-1- B DMR QPM-26 and Shakti-1 respectively. Specific gravity ranged from 10.05 to 1.30 in Shakti(SO) HE25# cc bulk 50%f-#-1-3-B-1- B DMR QPM-26 and Shakti-1-2-1-2-5 x DQPMC-1 respectively.

Quality protein material received from Uchani, Karnal 2002 Rabi

One hundred and three maize germplasm received from Uchani for analysis of % protein, % Try. in protein, 100 karnal weight and specific gravity. Data presented in table no. 6,7 and 25 Nineteen germplasm selected for next growing season which have more than 9.5% protein and 0.6 Tryptophan (g/16gN).

Evaluation of QPM germplasm for % protein, quality index, 100 kernel weight and specific gravity material received from Banaras Hindu University 2002-03 Rabi.

Ten QPM germplasm received from Banaras Hindu University for quality test data presented in table no. 8, except three germplasm named Deccan-105, Navjot and BQPM-102. All the germplasm denotes QPM nature which have <0.6 quality index.

Under different breeding programme QPM germplasm grown at Hyderabad 2002 Rabi for Quality Test.

Eighteen indigenous and exotic lines, 51 inbred lines, 5 CIMMYT QPM (Yellow), 9 CML Lines, 13 SO/SN selected composit, 17 white conversion programme, 7 yellow conversion programme, 7 Top Cross, 5 Single cross and 8 QPM lines were analysed for % protein, quality index, 100 kernel weight and specific gravity, data presented in table no. 9,10,11,12,13,14,15,16,17,18 and 22.

Evaluation of ae waxy lines for carbohydrate profile grown at Hyderabad 2002 Rabi

Twelve ae lines and six waxy lines analysed for % Starch, % Amylose in Starch and % Amylopectin in Starch. Data presented in table no. 19 and 20. % Starch ranged from 60.19 to 69.20 in ae-46-4-4-B-15- bulk and Gluteneous (U cm)- bulk respectively. Gluteneous (U cm)- bulk germplasm have minimum 15.49 Amylose

in Starch and maximum 84.51 Amylose in Starch. Ae-47-7-5-B-13-#-5 germplasm have maximum 58.75 Amylose in Starch and 41.25 minimum Amylopectin in Starch.

Evaluation of high oil germplasm for estimation of % oil on dry basis material grown at Hyderabad 2002 Rabi.

Five high oil maize germplasm received from DMR for oil estimation, data presented in table no. 21. % oil on dry basis ranged from 5.28 to 6.02 in Temp X Trop high oil QPM C₁₄-#-4-#- and Shaktiman-1 X HUP-2 respectively.

OPM Trial No. 1 received from DMR grown at Delhi, Kharif 2003

Fourteen QPM germplasm had been analyzed for % protein ranged for 7.88 to 11.81 in CML-141 x CML-150 and Seedtac-2324 respectively. Tryptophan ranged 0.47 to 0.81 in B-QPM-024 and CML 142 x CML 150 respectively. 100 kernel weight ranged from 19.20 to 31.00 in JH-QPM-83 and PRO-311. Specific gravity ranged from 1.09 to 1.30 in B-QPM-024 and B-QPM-32 respectively. Data presented in table no. 26.

OPM Trial No: 2 received from DMR, Delhi, Kharif 2003

Twenty-six germplasm had been analyzed, data presented in table no. 27.

Evaluation of OPM trial no-11 and 12 grown at DMR, Delhi, kharif 2003 for quality analysis.

Twenty two germplasm analysed in trial no.11 and Twelve germplasm analysed in trial no.12. Data presented in table no. 28 and 29.

Evaluation of OPM trial no. 13 received from DMR, Delhi for carbohydrate profiles

Sixteen germplasm had been analysed data present in table no. 30. % starch ranged from 60.53 to 71.08 in ae-46-4-4-B-15-#- X ae-46-4-5-B-17-#- and DMR QPM-43. Amylose in starch 48.38. to 63.57 DMR QPM-43 and ae-40-1-1-B-29-#- X ae-46-4-5-B-7-#- respectively. Amylopectin in starch ranged from 36.43 to 51.62 in ae-40-1-1-B-29-#- X ae-46-4-5-B-7-#- and DMR QPM-43 respectively.

Table 4: QPM germplasm received from BAU, Ranchi for quality test

Seeds of B.V.M.

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	BVM-7 Composite	9.54	0.37	15.90	1.27

Table 5: Evaluation of QPM samples for quality parameter received from GBPUA & T, Pant Nagar

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	SO/SN comp. Category 'o' X 10-28-1B DMRQPM-54 X CIMMYT QPM Pool 17C8	8.84	0.34	20.00	1.19
2.	SO/SN comp. Category 'o' X 10-28-1B DMRQPM-54 X CIMMYT QPM Pool 18C8	9.46	0.38	20.00	1.14
3.	SO/SN comp. Category 'o' X 10-28-1B DMRQPM-54 X DQPMC-1	9.77	0.44	20.00	1.14
4.	SN Comp. Bulk-2 Bulk SN ⁵ Chain Cross bulk x 1b-1-1-13 ⊗ BDMR QPM-57 x CIMMYT QPM Pool 17C8	7.93	0.49	17.40	1.16
5.	SN Comp. Bulk-2 Bulk SN ⁵ Chain Cross bulk x 1b-1-1-13 ⊗ BDMR QPM-57 x CIMMYT QPM Pool 1818	6.97	0.69	27.20	1.08
6.	SN Comp. Bulk-2 Bulk SN ⁵ Chain Cross bulk x 1b-1-1-13 ⊗ BDMR QPM-57 x DQPMC-1	8.78	0.57	21.50	1.08
7.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-20-2-B-11-⊗ B DMR QPM-50 x CIMMYT QPM Poop17C8	7.93	0.76	17.60	1.17
8.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-20-2-B-11-⊗ B DMR QPM-50 x CIMMYT QPM Poop18C8	11.50	<u>0.30</u>	19.00	1.26
9.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-20-2-B-11-⊗ B DMR QPM-50 x DQPMC-1	<u>12.50</u>	0.44	25.00	1.25
10.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-12-1B-1⊗ BDMR QPM-3 x CIMMYT QPM Poop17 C8	10.87	0.46	19.00	1.26
11.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-12-1B-1⊗ BDMR QPM-3 x CIMMYT QPM Poop18 C8	6.13	0.78	16.80	1.12
12.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-12-1B-1⊗ BDMR QPM-3 x	8.17	<u>0.98</u>	24.50	1.22

	DQPMC-1				
13.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-16-4-BBBBDMR-74 x CIMMYT QPM Poop17 C8	7.24	0.72	22.30	1.11
14.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-16-4-BBBBDMR-74 x CIMMYT QPM Poop18 C8	7.26	0.72	19.80	1.13
15.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-16-4-BBBBDMR-74 x DQPMC-1	8.00	0.94	22.50	1.12
16.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-2⊗ BDMR QPM-35 x CIMMYT QPM Poop17 C8	7.70	0.62	18.30	1.22
17.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-2⊗ BDMR QPM-35 x CIMMYT QPM Poop18 C8	8.50	0.88	21.80	1.09
18.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-2⊗ B DMR QPM-35 x DQPMC-1	7.99	0.76	23.90	1.19
19.	SO/SN comp. Category 'o' X 10-2- B-BDMRQPM-66 X CIMMYT QPM Pool 17C8	7.97	0.72	21.70	1.08
20.	SO/SN comp. Category 'o' X 10-2- B-BDMRQPM-66 X DQPMC-1	9.01	0.50	21.10	1.17
21.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-1-3-B-1-⊗ B DMR QPM-26 x CIMMYT QPM Pool 17C8	8.86	0.49	26.00	1.18
22.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-1-3-B-1-⊗ B DMR QPM-26 x CIMMYT QPM Pool 18C8	9.25	0.49	26.40	1.20
23.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-1-3-B-1-⊗ B DMR QPM-26 x DQPMC-1	6.93	0.63	24.60	1.23
24.	Shakti-1⊗-2-2-4-2-1 x CIMMYT QPM Pool 17C8	10.98	0.61	24.60	1.23
25.	Shakti-1⊗-2-2-4-2-1 x CIMMYT QPM Pool 18C8	8.73	0.63	21.00	1.16
26.	Shakti-1⊗-2-2-4-2-1 x DQPMC-1	6.10	0.52	22.80	1.14
27.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-4⊗ B DMR QPM-36 x CIMMYT QPM Pool 17C8	6.37	0.64	20.60	1.14
28.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-4⊗ B DMR QPM-36 x CIMMYT QPM Pool 18C8	6.90	0.45	24.30	1.21
29.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-4⊗ B DMR QPM-36 x DQPMC-1	7.40	0.54	25.60	1.28
30.	Shakti-1⊗-1-2-1-2-5 x CIMMYT QPM Pool 17C8	9.17	0.95	24.40	1.22

31.	Shakti-1⊗-1-2-1-2-5 x CIMMYT QPM Pool 18C8	8.87	0.70	27.20	1.09
32.	Shakti-1⊗-1-2-1-2-5 x DQPMC-1	6.38	0.75	19.50	<u>1.30</u>
33.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-10-3-B-1⊗ B DMR QPM-43 x CIMMYT QPM Pool 17C8	7.00	0.64	22.60	1.13
34.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-10-3-B-1⊗ B DMR QPM-43 x CIMMYT QPM Pool 18C8	6.84	0.57	21.80	1.09
35.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-10-3-B-1⊗ B DMR QPM-43 x DQPMC-1	9.48	0.60	21.30	1.06
36.	SN Composite Bulk-2 SN ^b cc bulk ⊗-31-1-B-2 ⊗DMR QPM-15 x CIMMYT QPM Poop17 C8	8.68	0.71	28.60	1.14
37.	SN Composite Bulk-2 SN ^b cc bulk ⊗-31-1-B-2 ⊗DMR QPM-15 x CIMMYT QPM Poop18 C8	10.18	0.43	25.90	1.15
38.	SN Composite Bulk-2 SN ^b cc bulk ⊗-31-1-B-2 ⊗DMR QPM-15 x DQPMC-1	9.74	0.81	26.00	1.15
39.	SN Composite Bulk-2 SN ^b cc bulk ⊗-12-1-BBBBDMR QPM-7 x CIMMYT QPM Poop17 C8	7.64	0.82	21.20	1.06
40.	SN Composite Bulk-2 SN ^b cc bulk ⊗-12-1-BBBBDMR QPM-7 x CIMMYT QPM Poop18 C8	6.45	0.90	18.90	1.26
41.	SN Composite Bulk-2 SN ^b cc bulk ⊗-12-1-BBBBDMR QPM-7 x DQPMC-1	6.74	0.64	25.50	1.27
42.	SO/SN comp. Category 'o' X 10-2- B-1B DMRQPM-54	11.14	0.50	19.60	1.30
43.	SN Composite Bulk-2 SN ^b cc bulk X 16-1-1B ⊗ B-DMR QPM-57	7.81	0.61	20.50	1.17
44.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-20-2-B-11-⊗B DMR QPM-50	7.76	0.71	16.30	1.09
45.	SN Composite Bulk-2 SN ^b cc bulk X 12-1-B-1-⊗BDMR QPM-3	7.85	0.68	30.00	1.20
46.	SN Composite Bulk-2 SN ^b cc bulk ⊗-16-4-BBBBDMR-74	9.97	0.65	25.10	1.25
47.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-4-3-B-2⊗ BDMR QPM-35	9.82	0.63	27.00	1.22
48.	SO/SN comp. Category 'o' X 10-2- B-BDMRQPM-66	9.08	0.57	21.30	1.06
49.	Shakti(SO) HE25# cc bulk 50%f-#- ⊗-1-3-B-1-⊗ B DMR QPM-26	11.42	0.53	<u>12.70</u>	<u>1.05</u>
50.	Shakti-1⊗-2-2-4-2-1	8.05	0.84	15.60	1.20
51.	Shakti-1⊗-1-2-1-2-5	11.09	0.71	21.50	1.19

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52.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-10-3-B-1⊗ B DMR QPM-43	8.06	0.65	24.30	1.20
53.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-31-1-B-2 ⊗DMR QPM-15	9.00	0.44	24.20	1.21
54.	SN Composite Bulk-2 SN ⁵ cc bulk ⊗-12-1-BBBBDMR QPM-7	8.92	0.54	19.50	1.30
55.	CIMMYT QPM Poop17 C8	8.75	0.69	24.60	1.23
56.	CIMMYT QPM Poop18 C8	6.37	0.80	25.50	1.27
57.	DQPMC-1	9.26	0.46	26.70	1.21
58.	Shakti-1	9.43	0.63	30.90	1.23
59.	SO/SN comp. Category 'o' X 10-2- B-B DMRQPM-66 x CIMMYT QPM Poop18 C8	9.38	0.46	27.30	1.09
60.	Shakti(SO) HE25# cc bulk 50%f-# ⊗-4-3-B-4-⊗ BDMR QPM-36	10.01	0.38	27.00	1.22
	Maximum	12.50	0.98	30.90	1.30
	Minimum	6.10	0.30	12.70	1.05

Table 6: Regional Research Station, Uchani, Karnal for quality analysis 2002 Rabi

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	HQPM-1	8.11	0.39	32.30	1.08
2.	HQPM-2	9.08	0.36	25.40	1.27
3.	HQPM-3	9.16	0.51	28.60	1.14
4.	HQPM-4	10.26	0.41	26.20	1.14
5.	HQPM-5	10.14	0.57	27.60	1.10
6.	HQPM-6	9.67	0.36	27.20	1.09
7.	HQPM-7	9.02	0.45	35.50	1.18
8.	HQPM-8	8.35	0.46	30.40	1.21
9.	HQPM-9	9.80	0.37	28.80	1.15
10.	HQPM-10	8.88	0.54	27.80	1.11
11.	HQPM-11	9.62	0.56	32.60	1.30
12.	HQPM-12	9.85	0.48	31.00	1.24
13.	HQPM-13	9.61	0.48	25.50	1.27
14.	HQPM-14	7.68	0.52	27.30	1.09
15.	HQPM-15	6.91	0.80	30.00	1.20
16.	HQPM-16	8.62	0.75	31.70	1.26
17.	HQPM-17	10.86	0.37	31.30	1.25
18.	HQPM-18	7.56	0.90	23.70	1.18
19.	HQPM-19	8.10	0.47	26.90	1.22
20.	HQPM-20	8.62	0.73	28.20	1.13
21.	HQPM-21	9.96	0.69	30.00	1.20
22.	HQPM-22	9.13	0.37	26.70	1.21
23.	HQPM-23	10.28	0.46	33.70	1.12
24.	HQPM-24	9.13	0.34	35.60	1.18
25.	HQPM-25	10.70	0.61	32.30	1.28
26.	HQPM-26	8.80	0.51	24.70	1.23

27.	HQPM-27	9.50	0.48	20.30	1.16
28.	HQPM-28	10.27	0.53	25.80	1.29
29.	HQPM-29	10.40	0.57	28.00	1.12
30.	HQPM-30	10.99	0.62	27.70	1.15
31.	HQPM-31	10.88	0.30	28.60	1.14
32.	HQPM-32	9.21	0.37	36.10	1.20
33.	HQPM-33	10.93	0.31	25.60	1.28
34.	HQPM-34	8.85	0.50	27.30	1.09
35.	HQPM-35	9.79	0.49	23.20	1.16
36.	HQPM-36	9.78	0.43	26.60	1.21
37.	HQPM-37	9.95	0.40	30.10	1.20
38.	HQPM-38	10.57	0.59	23.40	1.17
	Maximum	10.99	0.90	36.10	1.30
	Minimum	6.91	0.30	20.30	1.08

Table 7: Regional Research Station, Uchani, Karnal for quality analysis, 2002 Rabi

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	HQPM-39	12.51	0.30	28.00	1.12
2.	HQPM-40	9.48	0.40	27.60	1.10
3.	HQPM-41	10.17	0.46	31.20	1.24
4.	HQPM-42	8.92	0.40	30.00	1.20
5.	HQPM-43	10.42	0.43	18.80	1.25
6.	HQPM-44	9.24	0.54	35.70	1.19
7.	HQPM-45	10.12	0.78	32.80	1.19
8.	HQPM-46	9.66	0.59	24.00	1.20
9.	HQPM-47	10.73	0.54	31.60	1.26
10.	HQPM-48	12.84	0.56	26.00	1.18
11.	HQPM-49	11.32	0.60	24.00	1.20
12.	HQPM-50	8.53	0.47	16.50	1.10
13.	HQPM-51	9.36	0.56	26.00	1.18
14.	HQPM-52	10.91	0.60	25.00	1.25
15.	HQPM-53	9.78	0.63	27.80	1.11
16.	HQPM-54	8.97	0.65	12.00	1.20
17.	HQPM-55	10.78	0.58	22.30	1.11
18.	HQPM-56	10.73	0.59	30.90	1.23
19.	HQPM-57	10.48	0.65	28.10	1.27
20.	HQPM-58	8.20	0.73	28.50	1.14
21.	HQPM-59	8.35	0.60	24.20	1.21
22.	HQPM-60	9.93	0.65	30.10	1.20
23.	HQPM-61	11.21	0.56	28.60	1.14
24.	HQPM-62	13.20	0.48	37.10	1.14
25.	HQPM-63	11.31	0.56	30.00	1.20
26.	HQPM-64	10.47	0.82	34.60	1.15
27.	HQPM-65	10.00	0.86	36.40	1.21
28.	HQPM-66	8.88	0.87	30.00	1.20

29.	HQPM-67	8.48	0.89	31.20	1.24
30.	HQPM-68	10.40	0.83	33.80	1.13
31.	HQPM-69	10.49	0.77	36.60	1.22
32.	HQPM-70	8.46	0.89	31.70	1.26
33.	HQPM-71	11.07	0.82	31.20	1.24
34.	HQPM-72	10.61	0.87	32.00	1.28
35.	HQPM-73	10.04	0.85	34.90	1.16
36.	HQPM-74	10.43	0.82	32.80	1.21
37.	HQPM-75	8.81	0.64	34.50	1.15
38.	HQPM-76	10.60	0.92	33.10	1.21
39.	HQPM-77	9.74	0.67	34.20	1.14
40.	HQPM-78	13.25	0.34	37.80	1.26
	Maximum	13.25	0.92	37.80	1.28
	Minimum	8.20	0.30	12.00	1.10

Table 8: QPM trials received from Banaras Hindu University, 2002-03 Rabi

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	SO/SN bulk-2 bulk SN ⁵ cc bulk2 XO-16-4-BBBB-# XO	8.66	0.60	30.00	1.20
2.	SO/SN bulk-2 bulk SN ⁵ cc bulk16-4-3-B-#-XO-XO	8.11	0.69	23.60	1.18
3.	Deccan-105	8.00	0.68	27.20	1.08
4.	NOVJOT	9.48	0.54	26.80	1.07
5.	BQPM H-101	10.07	0.59	33.80	1.13
6.	BQPM H-103	8.69	0.51	27.80	1.11
7.	Shaktiman-1	9.91	0.86	26.50	1.17
8.	BQPM H-104	8.85	0.72	28.00	1.12
9.	Shakti-1	9.94	0.66	24.00	1.20
10.	BQPM H-102	9.18	0.53	28.50	1.14
	Maximum	10.07	0.86	33.80	1.20
	Minimum	8.00	0.51	23.60	1.07

Table 9: Indigenous and exotic lines received from DMR grown at Hyderabad, 2002 R for quality analysis.

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	DMR QPM-28-5-⊗ X CML-171	11.89	0.63	8.00	0.80
2.	28 Full Sib Families (MS) ⁶ HE cc X CML 171	12.31	0.76	13.70	1.14
3.	DMR QPM-58-⊗ X CML 172	11.77	0.72	10.50	1.05
4.	DMR QPM-17-⊗ X CML 172	11.93	0.86	9.40	0.94

5.	CML 172 X DMR QPM-18-⊗	10.58	0.95	8.00	0.80
6.	DMR QPM-17-⊗ X CML 193	10.28	0.92	8.60	0.86
7.	DMR QPM-17-⊗ X DMR QPM-58-⊗	10.84	0.59	10.80	1.08
8.	DMR QPM-75-⊗ X DMR QPM-17-⊗	9.00	0.72	13.20	1.10
9.	DMR QPM-17-⊗ X DMR QPM-75-⊗	10.95	0.91	8.80	0.80
10.	DMR QPM-17-⊗ X DMR QPM-18-⊗	13.04	0.48	27.40	1.10
11.	DMR QPM-18-⊗ X DMR QPM-17-⊗	11.76	0.66	23.20	1.16
12.	28 Full Sib Families (MS) ⁶ HE cc X DMR QPM-17-⊗	10.02	0.89	15.00	1.20
13.	DMR QPM-17-⊗ X Shakti (SO) HE 25 # chain cross	10.90	0.79	13.20	1.15
14.	DMR QPM-18-⊗ X 28 Full Sib Families (MS) ⁶ HE cc	10.86	0.75	13.10	1.12
15.	DMR QPM-18-⊗ X Shakti (SO) HE 25 # chain cross	11.23	0.62	16.00	1.21
16.	28 Full Sib Families (MS) ⁶ HE cc X DMR QPM-28-5-⊗	11.61	0.59	10.60	1.06
17.	DMR QPM-28-5-⊗ X 28 Full Sib Families (MS) ⁶ HE cc	11.24	0.62	13.40	1.07
18.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB-⊗-10-#-⊗ X DMR QPM-28-5-⊗	11.91	0.66	17.40	1.16
	Maximum	13.04	0.95	27.40	1.21
	Minimum	9.00	0.48	8.00	0.80

Table 10: Inbreed lines for evaluation received from DMR grown at Hyd. 2002 R for quality tests.

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB-⊗-10-#-⊗ X 28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB-⊗-8-#-⊗	11.46	0.72	11.10	1.11
2.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB-⊗-10-#-⊗ X Shakti (SO) HE 25 # chain cross Bulk 50%-f-#-⊗-10-3-B-2-B-#-⊗	12.21	0.62	11.20	1.12

3.	CML-164-#-⊗-14	11.41	0.80	10.00	1.00
4.	CML-170	11.28	0.84	22.00	1.10
5.	28 Full Sib Families (MS) ⁶ HEcc.bulk ⊗-15-1-BB- DMRQPM-60-#	10.03	0.70	17.80	1.18
6.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBBB-##	10.58	0.70	14.00	1.16
7.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB-8- #-#-#	9.89	0.80	15.00	1.20
8.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBBB- 10-#-#-#	9.49	0.77	18.30	1.22
9.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-6-3-B-1-⊗-BB DMR QPM-20-11-#-#	10.50	0.92	15.60	1.24
10.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-6-3-B-1-⊗-BB DMR QPM-20-20-#-#	10.61	0.87	20.00	1.25
11.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-6-3-B-1-⊗-BB DMR QPM-20-21-#-#	7.74	0.70	16.30	1.08
12.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-6-3-B-1-⊗-BB DMR QPM-20-31-#-#	8.37	0.76	12.90	1.29
13.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBBB- 17-#-#-⊗-9	9.17	0.57	15.50	1.24
14.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-6-3-B-1-⊗-BB DMR QPM-20-7-#-#	9.94	0.45	18.00	1.20
15.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBBB- 17-#-#-⊗-20	10.03	0.42	12.80	1.28
16.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-6-3-B-1-⊗-BB DMR QPM-20-7-#-#	10.14	0.45	17.80	1.18
17.	Shakti(SO) HE25# cc bulk 50%#-#-⊗-1-3-4 BBDMR- 28-3-#-#	10.61	0.36	13.70	1.14
18.	Shakti SO/SN HE 25 # CC bulk50%-F-#-#-10-3-B-1-B- #	12.35	0.48	16.30	1.08
19.	SO/SN Comp bulk2 bulkSN5 cc bulk2⊗-16-4- BBBB-⊗	10.86	0.58	15.00	1.25
20.	DMR QPM-74-⊗-⊗ bulk	9.66	0.67	16.60	1.10
21.	DMR QPM-28-⊗-⊗ bulk	11.03	0.51	15.40	1.28

22.	DMR QPM-17-1-⊗-⊗ bulk	10.03	0.56	17.80	1.18
23.	DMR QPM-41-⊗-⊗ bulk	11.06	0.45	20.00	1.25
24.	DMR QPM-45-⊗-⊗ bulk	11.07	0.51	14.70	1.17
25.	DMR QPM-53-⊗-⊗ bulk	10.41	0.44	16.00	1.06
26.	DMR QPM-20-1-⊗-⊗-3	8.86	0.64	12.40	1.24
27.	DMR QPM-20-10-⊗-⊗-3	9.29	0.59	16.20	1.08
28.	DMR QPM-20-10-⊗-⊗-5	8.95	0.79	13.00	1.30
29.	DMR QPM-28-5-⊗-⊗-bulk	10.85	0.56	10.40	1.04
30.	Tuxpeno Carib HE/02-f-##- ⊗-4-⊗-⊗-bulk	8.36	0.66	16.40	1.09
31.	Tuxpeno Carib HE/02-f-##- ⊗-30-⊗-⊗- bulk	9.31	0.73	10.30	1.03
32.	28 full Sib families (MS) 6 HECC. bulk-⊗-1-4-BBBB- ⊗-3-#-⊗-⊗-11	10.01	0.75	16.00	1.06
33.	SN Comp Bulk-2-Bulk SN5cc. bulk-⊗-16-4-BBBB- 1-#-⊗-⊗-5	9.52	0.68	13.00	1.30
34.	Shakti(SO) HE25#Chain Cross Bulk 50%-f-⊗-10-3- B-1-B-#-⊗-⊗-5	9.45	0.50	16.50	1.10
35.	Shakti(SO) HE25# Chain CrossBulk50%-f-#-⊗-10-3- B-2-B-#-⊗-⊗-11	10.67	0.66	13.80	1.15
36.	Shakti(SO) HE25# cc bulk50%-f-#-⊗-6-2-B-4-#-⊗- ⊗-15	12.22	0.48	12.40	1.24
37.	Shakti(SO) HE25# cc bulk 50%- f-f-#-⊗-10-3-B-1-B-#- ⊗-⊗-2	10.41	0.47	18.60	1.24
	Maximum	12.35	0.92	22.00	1.30
	Minimum	7.74	0.36	10.00	1.00

Table 11: CIMMYT QPM (Yellow) received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	CML-150	8.49	0.75	15.80	1.14
2.	CML-175	9.06	0.58	20.40	1.16
3.	CML-186	9.92	0.40	28.50	1.14
4.	CML-149	9.45	0.60	17.10	1.14
5.	CML-140	9.80	0.64	19.10	1.23
	Maximum	9.92	0.75	28.50	1.23
	Minimum	8.49	0.40	15.80	1.14

Table 12: CML Lines, received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	CML-162-1-#	10.21	0.78	12.20	1.22
2.	CML-162-1-#	10.26	0.77	9.00	0.90
3.	CML-171-1-#	8.93	0.71	18.50	1.23
4.	CML-172-1-#	9.15	0.61	15.30	1.22
5.	CML-193-1-#	8.23	0.67	9.40	0.94
6.	CML-193-1-# (Opaque)	8.53	1.11	15.00	1.25
7.	CML-170-1-#	9.42	0.94	12.60	1.26
8.	CML-167-1-#	11.14	1.15	8.90	0.89
9.	CML-169-1-#	11.49	0.80	14.00	1.20
	Maximum	11.49	1.15	18.50	1.26
	Minimum	8.23	0.61	8.90	0.89

Table 13: SO/SN selected composite, received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	Mod.OPXShakti SO#SO# SN# SN# SO#SN#9SN cc bulk 75%-f-#####	9.80	0.63	14.10	1.17
2.	Mod.OP (SO) cc bulk 75%-f-#####	11.07	0.55	18.60	1.24
3.	Mod.OP X Shakti 50%-# SN-f-#####	10.53	0.40	20.80	1.18
4.	Rattan SO(HS)47#SO#SN chain cross25%-f-f-#	11.17	0.36	20.50	1.17
5.	Shakti bulk(Cross) 25%-f-#####	10.32	0.64	21.80	1.24
6.	Across 7441 # SN(2)Chain Cross bulk 25%-f-#####	10.68	0.56	20.50	1.17
7.	SO/SN Comp.(P) SN ⁶ cc.75%-f-#####	10.96	0.48	22.30	1.11
8.	SO/SN Comp.(P) SN ⁶ cc . 50%-f-#####	11.42	0.74	15.80	1.17
9.	SO/SN Comp.(ABP) SN ² cc.Bulk-f-#####	10.76	0.51	17.40	1.16
10.	SO/SN Comp.(P)(ABP) 25%-f-#####	10.94	0.57	17.60	1.17
11.	SO/SN Comp.(P)(ABP) 50 %-f-#####	13.29	0.51	18.70	1.24

12.	SO/SN Comp. Bulk# SN ³ cc Bulk-75%-f-####	<u>9.63</u>	0.54	17.60	1.17
13.	Ferke(1)7940 bulk-f-f-f-#	11.16	0.56	<u>23.40</u>	1.17
	Maximum	13.29	0.74	23.40	1.24
	Minimum	9.63	0.36	14.10	1.11

Table 14: Inbred line, received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	Comp. (ESN) cc. bulk-50%-f-#####	<u>11.88</u>	0.47	23.00	1.15
2.	Shakti	8.61	0.79	<u>24.70</u>	1.23
3.	Shakti(SO) HS250# cc bulk -25-f-#####-⊗-11	11.24	0.65	14.00	1.16
4.	Shakti(SO) HS250# cc bulk -25-f-#####-⊗-20	10.81	0.65	18.10	1.20
5.	Shakti(SO) HS250# cc bulk -25-f-#####-⊗-23	10.75	0.58	<u>10.10</u>	<u>1.01</u>
6.	Shakti(SO) HS250# cc bulk -25-f-#####-⊗-30	10.99	0.62	12.10	1.21
7.	White O ₂ P ₄ Full Sib Families bulk Bulk cc-f-#####-⊗-1	9.96	0.70	18.70	1.24
8.	White O ₂ P ₄ Full Sib Families bulk Bulk cc-f-#####-⊗-4	10.23	0.61	10.90	1.09
9.	White O ₂ P ₄ Full Sib Families bulk bulk cc-f-#####-⊗-9	10.33	0.64	12.60	1.25
10.	Rattan 27 SN cc. bulk-f-## #-⊗-14	10.20	<u>0.41</u>	17.40	1.16
11.	Rattan 27 SN cc. bulk-f-## #-⊗-18	9.04	0.59	19.30	<u>1.28</u>
12.	Rattan 27 SN cc. bulk-f-## #-⊗-21	8.72	<u>0.81</u>	16.70	1.11
13.	Rattan 27 SN cc. bulk-f-## #-⊗-22	<u>7.89</u>	0.70	19.00	1.26
14.	SN Comp. P. SN ^b chain cross. bulk-50%-f-#-⊗-##	10.37	0.49	16.80	1.20
	Maximum	11.88	0.81	24.70	1.28
	Minimum	7.89	0.41	10.10	1.01

Table 15: White Conversion Program (White), received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	P509C ₄ -F-153-B-2-1-1-B-#-BB BB X CML-150 ³	10.51	0.63	18.10	1.20
2.	P435R-CHMEROON 4-1-1-2-1- BB-1-BB-B-B X CML 142 ³	10.68	0.58	20.00	1.18
3.	P 502C ₁ -#-315-3-1-1-B-2-6 -BB X CML-142 ³	9.81	0.57	16.50	1.10
4.	(P25-F-118-25B)-1-BBB-1-B-###-BBB-B-B X CML-150 ³	9.21	0.78	23.00	1.15
5.	PKMS1-49-B X CML-150 ³	13.02	0.31	17.60	1.16
6.	P43RCAMEROON4 X CML 150 ³	9.70	0.66	17.00	1.13
7.	CML-78 X CML 142 ³	12.81	0.50	16.30	1.09
8.	CML 322 X CML 150 ³	8.95	0.45	15.60	1.11
9.	CML 216 X CML 142 ³	11.29	0.62	16.00	1.10
10.	CM 400 X CML-150 ³	10.91	0.37	14.80	1.13
11.	CML 342 La Posta Sequa C ₃ H1-2-2-3-2-1-#-#-BBBBXCML-150 ³	11.03	0.34	15.10	1.16
12.	P 501 C ₁ #-303-1-1-2-2-1-1 -BB X CML 150 ³	9.76	0.49	21.00	1.20
13.	Mg-S ₄ -11-1-B X CML-150 ³	10.74	0.29	23.20	1.16
14.	CP 502 C ₁ -#-342-3-3-3-2-5 -1- B-B-B X CML 142 ³	9.71	0.48	23.60	1.18
15.	CML 8-P 21 HC 218 X CML56 G 24 TSR-29 BBB BBXCML-142 ³	10.89	0.32	25.00	1.25
16.	SLW-HG 888-CDHC-3-2-2-BB-B-B-B X CML 142 ³	10.14	0.63	17.50	1.16
17.	P 501 C ₁ #-500-2-1-2-2-2-2-BB X CML 142 ³	10.69	0.44	21.40	1.07
	Maximum	13.02	0.78	25.00	1.25
	Minimum	8.95	0.29	14.80	1.07

Table 16: Yellow Conversion Program, received from DMR grown at Hyd. 2002 rabi for quality tests

S.No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	CM 111XSO/SN ⁶ Comp.P. SN ⁶ Cc B-50%-f-#-⊗ ³ -#	10.41	0.58	16.00	1.14

2.	CM 111XSO/SN Comp. Category ^o ####-bulk-1-1- ## ³ -#	10.86	0.55	19.00	<u>1.26</u>
3.	CM-118 X SO/SN Comp(P) SN ⁶ cc.B-50%-f-# ³ -#	<u>12.29</u>	0.44	17.20	1.14
4.	CM-121 X SO/SN Comp(P) SN ⁶ cc.B-50%-f-# ³ -#	12.17	0.40	17.00	1.13
5.	CM-129 X SO/SN Comp(P) SN ⁶ cc.B-50%-f-# ³ -#	11.26	0.43	20.00	1.17
6.	CM-133 X SO/SN Comp(P) SN ⁶ cc.B-50%-f-# ³ -#	12.23	<u>0.36</u>	<u>21.30</u>	<u>1.06</u>
7.	CM-209 X SO/SN Comp(P) SN ⁶ cc.B-50%-f-# ³ -#	11.50	0.57	<u>15.40</u>	1.10
	Maximum	12.29	0.58	21.30	1.26
	Minimum	10.41	0.36	15.40	1.06

Table 17: Top-Cross, received from DMR grown at Hyd. 2002 rabi for quality tests

S.No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	28 Full Sib Families(MS) ⁶ HE cc Bulk- ³ -1-4-BBBB -8-#	<u>9.82</u>	0.50	13.40	<u>1.10</u>
2.	28 Full Sib Families(MS) ⁶ HE cc Bulk- ³ -1-4-BBBB -10-#	10.46	0.53	16.60	1.11
3.	28 Full Sib Families(MS) ⁶ HE cc Bulk- ³ -6-3-B-1	10.92	0.48	13.40	1.11
4.	Zhong Dan 9409 (QPM)- ##-4-#	10.09	<u>0.67</u>	19.40	<u>1.29</u>
5.	Zhong Dan 9409 (QPM)-# #-7-#	11.05	0.53	<u>12.00</u>	1.20
6.	SN Comp. Bulk SN ⁶ CC. Bulk - ³ -12-1-BB DMR QPM-56	<u>12.32</u>	<u>0.35</u>	<u>20.40</u>	1.16
7.	CML-170	10.68	0.49	16.80	1.12
	Maximum	12.32	0.67	20.40	1.29
	Minimum	9.82	0.35	12.00	1.10

Table 18: Single Crosses, received from DMR grown at Hyd. 2002 rabi for quality tests

S.No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	SO/SN Bulk-2 SN ⁶ cc bulk16-4-B-7-B-# ³ - ³ -Bulk	10.73	0.69	14.70	1.13

2.	Shakti SO/SN HE 25# cc Bulk 50%-f-⊗-10-3-B-B-2- B-#-⊗-⊗	11.29	<u>0.44</u>	<u>13.00</u>	<u>1.00</u>
3.	SO/SN Comp. bulk 2bulk SN ⁵ cc bulk 2-⊗-16-4-BBB B-#-⊗-⊗	10.89	0.47	15.20	1.16
4.	Shakti SO/SN HE 25# cc Bulk 50%-f-⊗-10-3-B-1-B- #-⊗-⊗	<u>12.53</u>	<u>0.57</u>	14.60	1.21
5.	Shakti SO/SN HE 25# cc Bulk 50%-f-⊗-10-3-B-B-2- B-#-⊗-⊗	<u>10.39</u>	0.49	<u>18.90</u>	<u>1.26</u>
	Maximum	12.53	0.57	18.90	1.26
	Minimum	10.39	0.44	13.00	1.00

Table 19: ae line, received from DMR grown at Hyd. 2002 rabi for quality tests

S.No	Pedigree	% Starch	% Amylose	% Amylose in Starch	Amylopectin in Starch
1.	ae-40-1-1-B-⊗-29-#-⊗-⊗ Bulk	63.95	35.87	56.09	43.91
2.	ae-46-4-1-B-⊗-22-#-⊗-⊗ Bulk	64.70	30.90	47.76	52.24
3.	ae-46-4-4-B-⊗-15-#-⊗ Bulk	<u>60.19</u>	31.44	52.23	47.77
4.	ae-46-4-5-B-⊗-7-#-⊗ Bulk	61.69	<u>30.48</u>	49.41	50.59
5.	ae-46-4-5-B-⊗-17-#-⊗ Bulk	62.00	30.96	49.94	50.06
6.	ae-46-4-5-B-⊗-20-#-⊗-⊗ Bulk	64.03	30.56	<u>47.73</u>	<u>52.27</u>
7.	ae-47-7-5-B-⊗-12-#-⊗-⊗ Bulk	63.20	33.65	53.24	46.76
8.	ae-47-7-5-B- ⊗-13-#-⊗-⊗-2	66.23	<u>38.16</u>	57.62	42.38
9.	ae-47-7-5-B- ⊗-13-#-⊗-⊗-5	63.20	37.13	<u>58.75</u>	<u>41.25</u>
10.	ae-47-7-5-B- ⊗-13-#-⊗-⊗-6	65.46	33.58	51.30	48.70
11.	ae-47-7-5-B- ⊗-13-#-⊗-⊗-8	<u>67.71</u>	35.56	52.52	47.48
12.	Shaktiman-1 x HUP-2 for starch	67.71	38.08	56.24	43.76
	Maximum	67.71	38.16	58.75	52.27
	Minimum	60.19	30.48	47.73	41.25

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Table 20: Waxy line, received from DMR grown at Hyd. 2002 rabi for quality tests

S.No	Pedigree	% Starch	% Amylose	% Amylose in Starch	Amylopectin in Starch
1.	Kisan Waxy Wx 2-1-6-B-B-⊗-16-#-⊗-bulk	<u>63.20</u>	17.54	27.75	72.25
2.	Dr Pek Waxy Corn-⊗-⊗-⊗-bulk	68.94	10.95	15.88	84.12
3.	Gluteneous (u cm)- ⊗-⊗-⊗-bulk	<u>69.20</u>	<u>10.72</u>	<u>15.49</u>	<u>84.51</u>
4.	Kisan Waxy Wx 2-1-6-B-B-⊗-17-#-⊗-⊗	65.36	20.03	30.65	69.35
5.	Waxy Corn Composite #-3-⊗-⊗	65.68	22.86	34.81	65.19
6.	R 802 A-##-5-#-⊗-⊗-bulk	64.70	<u>36.90</u>	<u>57.03</u>	<u>42.97</u>
	Maximum	69.20	36.90	57.03	84.51
	Minimum	63.20	10.72	15.49	42.97

Table 21: High Oil, received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Oil
1.	Temp x Trop High Oil QPMC 14-#-⊗-3-#-⊗-⊗	6.00
2.	Temp x Trop High Oil QPMC 14-#-⊗-4-#-⊗-⊗	<u>5.28</u>
3.	Temp x Trop High Oil QPMC 14-#-⊗-#-⊗-Bulk	5.70
4.	Temp ⊗ HOC ₁₅ -#-#-⊗-⊗	5.78
5.	Shaktiman-1 x HUP-2	<u>6.02</u>
	Maximum	6.02
	Minimum	5.28

Table 22: QPM Lines, received from DMR grown at Hyd. 2002 rabi for quality tests

S.No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	28 Full Sib Families (MS) ⁶ HE cc.bulk ⊗-1-4-BBBB-⊗-10-⊗ Bulk	9.26	0.67	16.50	1.10
2.	SO/SN Comp.bulk-2 SN ⁵ cc bulk-⊗-16-4-B-7-B-⊗ Bulk	<u>6.60</u>	<u>10.56</u>	<u>13.60</u>	1.13
3.	Shakti (SO) HE 25# cc bulk 50%-f-#-⊗-6-2-B-4-B-⊗ Bulk	9.74	0.45	20.00	1.25
4.	Shakti (SO) HE 25# cc bulk 50%-f-#-10-3-B-2-B-⊗ Bulk	8.53	0.40	14.80	1.18
5.	Waxy Corn Composite # 3-⊗	11.06	0.36	<u>26.70</u>	1.21

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6.	Dr. Pek Waxy Corn-⊗	13.04	0.44	18.20	1.21
7.	Glutinous (USM)-⊗	13.47	0.45	21.70	1.08
8.	Waxy corn-⊗	11.24	0.30	25.40	1.27
	Maximum	13.47	10.56	26.70	1.27
	Minimum	6.60	0.30	13.60	1.08

Table 23: Waxy Sweet Corn, received from DMR grown at Hyd. 2002 rabi for quality tests

S. No	Pedigree	% Total Sugar
1.	Sukhothai-1 Waxy-⊗	6.29
2.	Bt-gene C7(bt1 bt1)-⊗	7.69
3.	Musmadu(sh2 sh2)-⊗	6.44
4.	manis madu(sh2 sh2)-⊗	7.72
5.	Phil.Supersweet(sh2 sh2)-⊗	8.34
6.	NSSW 8904 F4(sh2 sh2)-⊗	8.25
7.	HSSW(HS)CIF3(sh2 sh2)-⊗	7.84
8.	Dulce Amanillo(su su)-⊗	7.90
9.	Dulce Blanco(su su)-⊗	19.03
10.	Bulk Maize de PAK.1A(su su)-⊗	21.92
11.	Synthetic Sweet Corn (su su)-⊗	21.20
12.	Nam Pung (su su) -⊗	24.11
13.	Pop.A.(S) CO (sh2 sh2) -⊗	8.27
14.	Sweet Corn-⊗	9.76
15.	Hybrix-5-⊗	8.26
16.	Insec 1 (KU)-⊗	9.33
	Maximum	24.11
	Minimum	6.29

Table 24: Evaluation of Trial No.7 Zone-2 receive from PAU, Ludhiana AET 2nd Year Full season 2002-03 Rabi

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	J.H.7233	10.87	0.35	30.00	1.09
2.	72A	10.42	0.36	26.00	1.23
3.	Bio-92118 (W)	10.34	0.37	29.40	1.17
4.	Deccan-105	10.87	0.44	25.00	1.25
5.	Bio 9681	10.12	0.35	27.00	1.08
6.	Ganga-11	10.34	0.39	26.00	1.28
	Maximum	10.87	0.44	30.00	1.28
	Minimum	10.12	0.35	25.00	1.08

Table 25: QPM germplasm received from Uchani (Kernal) for quality test *Rabi* 2002

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	QPM-1	12.90	0.36	21.80	1.09
2.	QPM-2	12.23	0.39	22.20	1.11
3.	QPM-3	8.52	0.68	18.30	1.22
4.	QPM-4	9.93	0.40	18.10	1.20
5.	QPM-5	10.26	0.41	25.80	1.29
6.	QPM-6	11.16	0.53	21.70	1.09
7.	QPM-7	11.15	0.38	21.00	1.05
8.	QPM-8	9.96	0.55	20.70	1.12
9.	QPM-9	10.80	0.39	19.00	1.26
10.	QPM-10	10.36	0.42	18.70	1.25
11.	QPM-11	8.96	0.49	16.20	1.20
12.	QPM-12	8.23	0.45	32.30	1.07
13.	QPM-13	9.83	0.58	14.80	1.15
14.	QPM-14	9.80	0.43	24.80	1.24
15.	QPM-15	12.17	0.42	23.50	1.17
16.	QPM-16	8.40	0.74	27.30	1.09
17.	QPM-17	8.78	0.59	20.40	1.16
18.	QPM-18	8.01	0.80	16.70	1.19
19.	QPM-19	11.17	0.56	18.40	1.22
20.	QPM-20	11.04	0.55	22.80	1.14
21.	QPM-21	10.60	0.50	19.90	1.24
22.	QPM-22	9.88	0.62	30.20	1.20
23.	QPM-23	9.73	0.42	20.00	1.25
24.	QPM-24	11.55	0.56	15.70	1.12
25.	QPM-25	11.27	0.48	24.60	1.23
	Maximum	12.90	0.80	32.30	1.29
	Minimum	8.01	0.36	14.80	1.05

Table: 26 QPM Trial No-1 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.	HQPM-1	8.31	0.73	30.50	1.22
2.	HQPM-2	7.97	0.80	25.70	1.25
3.	HQPM-3	8.69	0.79	23.60	1.18
4.	B-QPM-12	10.95	0.65	24.80	1.24
5.	B-QPM-024	11.50	0.47	21.80	1.09
6.	B-QPM-31	9.49	0.59	22.40	1.12
7.	B-QPM-32	9.43	0.68	19.50	1.30
8.	B-QPM-33	9.81	0.55	25.30	1.26
9.	CML-142 X CML-150	7.88	0.81	24.80	1.24
10.	JH-QPM-83	9.17	0.77	19.20	1.28
11.	SEEDTEC-2324	11.81	0.52	29.90	1.20
12.	SHAKTIMAN-1	9.26	0.69	25.80	1.29

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13.	PRO-311	8.30	0.52	31.00	1.20
14.	KH-510	8.85	0.54	28.80	1.15
	Maximum	11.81	0.81	31.00	1.30
	Minimum	7.88	0.47	19.20	1.09

Table: 27 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.	J H QPM-35	12.28	0.59	19.90	1.24
2.	J H QPM-155	12.13	0.36	31.90	1.22
3.	J H QPM-41	10.03	0.49	31.50	1.21
4.	J H QPM-144	9.57	0.71	21.00	1.23
5.	XP-0103	8.70	0.93	30.50	1.22
6.	B H QPM-47	8.53	0.56	27.60	1.25
7.	B H QPM-48	10.98	0.46	26.80	1.08
8.	B H QPM-46	8.73	0.60	24.30	1.21
9.	B H QPM-44	9.33	0.49	31.40	1.25
10.	B H QPM-41	8.80	0.77	24.70	1.23
11.	B H QPM-50	9.26	0.86	25.50	1.27
12.	B H QPM-40	9.60	0.66	24.50	1.22
13.	B H QPM-43	8.88	0.77	28.40	1.13
14.	B H QPM-45	11.35	0.46	29.00	1.16
15.	B H QPM-42	12.81	0.41	29.90	1.19
16.	X P 0105	9.56	0.67	33.70	1.34
17.	BAJ QPM-1	8.29	0.86	20.30	1.26
18.	BAJ QPM-2	10.36	0.60	27.10	1.08
19.	BVM-7	8.29	0.78	20.80	1.22
20.	S99TLWQ-HG-AB	7.72	0.85	27.80	1.11
21.	S99TLWQ-HG-B	7.62	0.85	29.30	1.17
22.	SHAKTIMAN-1	9.38	0.74	31.20	1.20
23.	PRO-311	8.70	0.55	35.70	1.19
24.	KH-510	8.73	0.55	34.50	1.15
25.	X-3342	10.52	0.38	26.00	1.18
26.	BIO 9681	7.86	0.53	28.60	1.14
	Maximum	12.81	0.93	35.70	1.34
	Minimum	7.62	0.36	19.90	1.08

Table: 28 Evaluation of QPM Trial No-11 received from DMR, Delhi for Kharif 2003 for quality analysis.

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB- ⊗-B-#-⊗-CML-171	9.85	0.76	10.40	1.04

2.	DMR QPM-17-⊗-X CML-193	8.54	0.73	19.80	1.23
3.	DMR QPM-17-⊗-X DMR QPM-175-⊗	<u>7.55</u>	<u>1.09</u>	22.40	1.12
4.	DMR QPM-17-⊗-X DMR QPM-18-⊗	10.18	0.73	28.10	1.27
5.	28 Full Sib Families (MS) ⁶ HE cc. bulk ⊗-1-4-BBBB-⊗-B-#-⊗ X DMR QPM-12-⊗	9.58	0.81	17.40	1.16
6.	DMR QPM-17-⊗-X 28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗-1-4-BBBB-⊗-10-#-⊗	9.39	0.83	21.10	1.06
7.	DMR QPM-17-⊗-X Shakti (SO) HE 25% # chain cross Bulk 50% f-#-⊗-10-3-B-2-B-#-⊗	8.42	0.62	<u>36.70</u>	1.22
8.	DMR QPM-18-⊗-X 28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗-1-4-BBBB-⊗-10-#-⊗	9.71	0.75	23.40	1.17
9.	DMR QPM-18-⊗-X Shakti (SO) HE 25% # chain cross Bulk 50% f-#-⊗-10-3-B-2-B-#-⊗	10.02	0.48	25.80	1.29
10.	28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗-1-4-BBBB-⊗-B-#-⊗ X DMR QPM-2B-5-⊗	9.53	0.64	21.60	1.08
11.	28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗-1-4-BBBB-⊗-10-#-⊗ X DMR QPM-2B-5-⊗	9.46	0.78	19.20	1.28
12.	28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗-1-4-BBBB-⊗-10-#-⊗ X 28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗	9.63	0.76	19.20	1.28
13.	28 Full Sib Families (MS) ⁶ HE cc. Bulk-⊗-1-4-BBBB-⊗-10-#-⊗ X Shakti (SO) HE 25% # chin cross Bulk-1-4-BBBB-⊗-B-#-⊗	9.74	0.43	31.60	1.15
14.	SO/SN Comp bulk2 bulk SN5 cc bulk2 ⊗-1-6-4-BBBB-⊗ X CML-171-⊗-50%-f-#-⊗-B-3-	9.19	0.65	29.00	1.16

	B-2-B-#-⊗				
15.	28 Full Sib Families (MS) ⁶ HE cc. Bulk-2-⊗-1-4-BBBB- ⊗ X CML-193-⊗	8.78	0.73	25.80	1.29
16.	CML-172-⊗ X DMR QPM 75-⊗-⊗	11.35	0.60	36.20	1.20
17.	28 Full Sib Families (MS) ⁶ HE cc. Bulk-2-⊗-1-4-BBBB- ⊗-B-#-⊗-⊗ X (SN) Comp. (SN) ⁶	8.63	0.79	21.10	1.24
18.	SN Comp. (SN) ⁶ cc bulk- 50%-f-#-⊗-#-# X CML-171	10.17	0.74	22.20	1.11
19.	Shaktiman-1	9.93	0.70	26.00	1.30
20.	Shakti-1	8.32	0.82	21.20	1.24
21.	Pro-311	11.37	0.41	33.10	1.10
22.	Bio-9681	10.06	0.50	31.50	1.16
	Maximum	11.37	1.09	36.7	1.30
	Minimum	7.55	0.41	10.4	1.04

Table: 29 Evaluation of QPM Trial No. 12 received from DMR, Delhi for quality analysis 2003 K.

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	CM 400 X CL 02131	10.89	0.40	14.90	1.24
2.	CM 142 X CML 150	9.00	0.54	20.10	1.25
3.	Pro 311	9.31	0.44	37.10	1.16
4.	TOO 14902 X CA 00104	8.94	0.49	36.75	1.13
5.	CA 14514 X CL 91836	8.74	0.51	29.30	1.13
6.	TOO 3502 X CA 34503	9.56	0.75	24.20	1.21
7.	TOO 35202 X CML-429	10.75	0.53	29.30	1.17
8.	Shaktiman-1	9.90	0.69	21.10	1.24
9.	TOO 35202 X CML-446	11.03	0.53	34.60	1.15
10.	X-3342 (Early)	9.06	0.57	23.40	1.17
11.	KH-510 (Medium)	10.47	0.46	31.50	1.12
12.	Bio-9681 (Full)	9.49	0.45	32.90	1.09
	Maximum	11.03	0.75	37.10	1.25
	Minimum	8.74	0.40	14.90	1.09

Table: 30 Evaluation of QPM Trial No. 13 received from DMR, Delhi for carbohydrate profile 2003 K.

S. No	Pedigree	% Starch	% Amylose	% Amylose in Starch	Amylopectin in Starch
1.	DMR QPM-42	71.88	41.62	58.55	41.45
2.	DMR QPM-43	71.08	34.39	48.38	51.60

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3.	Ae-40-1-1-B-⊗-29-#-⊗- ⊗ X ae-46-4-4-B-⊗-23-#- ⊗	68.09	35.86	52.67	47.33
4.	ae-46-4-1-B-⊗-22-#-⊗- ⊗ X ae-46-4-5-B-⊗-7-#-⊗	68.09	37.32	54.81	45.19
5.	ae-46-4-4-B-⊗-15-#-⊗ X ae-46-4-5-B-⊗-17-#-⊗	<u>60.53</u>	37.02	61.16	38.84
6.	Temp x Trop High oil QPMC 14-#-⊗-3-#-⊗-⊗ X Temp x Trop High oil QPMC 14-#-⊗-10-#-⊗-⊗	66.58	36.77	55.23	44.77
7.	CM 213 x Gluteneous (Ucm) ⊗-⊗	66.58	38.16	57.31	42.69
8.	ae-46-4-4-B-⊗-15-#-⊗-⊗ X ae-40-1-1-B-⊗-29-#- ⊗-⊗	68.09	<u>42.60</u>	62.56	37.44
9.	ae-40-1-1-B-⊗-29-#-⊗-⊗ X ae-46-4-5-B-⊗-7-#-⊗	61.35	39.00	<u>63.57</u>	<u>36.43</u>
10.	ae-40-1-1-B-⊗-29-#-⊗-⊗ X ae-46-4-5-B-⊗-17-#-⊗	63.20	39.18	61.99	38.01
11.	ae-40-1-1-B-⊗-29-#-⊗-⊗ X ae-46-4-5-B-⊗-20-#-⊗- ⊗	64.70	37.47	57.91	42.09
12.	ae-40-1-1-B-⊗-29-#-⊗-⊗ X ae-47-7-5-B-⊗-12-#-⊗	61.54	35.64	57.91	42.09
13.	ae-46-4-4-B-⊗-15-#-⊗ X ae-46-4-5-B-⊗-7-#-⊗	65.07	37.66	57.88	42.12
14.	ae-46-4-5-B-⊗-17-#-⊗ X ae-46-4-4-B-⊗-23-#-⊗	66.58	35.70	57.62	42.38
15.	ae-46-4-5-B-⊗-17-#-⊗ X ae-46-4-5-B-⊗-7-#-⊗	64.31	35.70	55.51	44.49
16.	Hop-1	67.41	36.24	53.76	46.24
17.	Shaktiman-1	60.87	35.95	59.06	40.94
18.	KH-510	65.07	37.08	56.98	43.02
19.	Maximum	71.88	42.6	63.57	51.6
20.	Minimum	60.53	34.39	48.38	36.43