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ALL INDIA COORDINATED RESEARCH PROJECT

DIRECTORATE OF MAIZE RESEARCH

PUSA CAMPUS, NEW DELHI -110012

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AN OVERVIEW OF MAIZE

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

In India as per the latest report maize area production and productivity is 8.17 mha, 19.73 mt and >2.4 t/ha, respectively. The maize production has increased >12 times from a mere 1.73mt (1950-51) to 19.73 mt (2008-09). The demand for maize will touch 42 mt by 2025, of which 20-21% will be used for human consumption, >60% as poultry and livestock feed and the remaining 12-13% for industrial raw material. These figures would remain constant for another 10-15 years

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

Maize is an important food and feed crop of Jammu and Kashmir. It is grown in an area of 3.16 lakh hectares with productivity of 2.0 t/ha which is lower than national average. Seeing the importance of the crop in this state ICAR decided to organise 53rd Annual Maize Workshop at Srinagar, the beautiful city of India. The maize scientists across the country, ICAR authorities, planners and administrators of Universities and the states, representatives from seed and allied industries will be meeting here nearly after three decades in SKAUST, Srinagar. All the participants will interact and develop strategy to increase the productivity and profitability of farmers not only of this state but of the whole nation.

RESEARCH HIGHLIGHTS

Release of new cultivars

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

Protection under PPV&FRA

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

Evaluation of hybrid and composite yield trials

255 hybrids/composites of Normal, QPM, sweet corn, popcorn of different maturity (Late, Medium, Early, and Extra Early) were evaluated in 32 trials across different locations of the country. The entries in IET and AET I in different maturity group across/zone have been promoted to next stage of testing based on superior performance over best check. The superior entries are in Annexure. The superior entries in AET II will be identified for release based three years data having superiority over the best check. The proposal will be discussed in the variety identification meeting.

Registration of Germplasm

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

Development of inbreds

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

Inbred lines supplied to different centers

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

Winter Nursery, Hyderabad, DMR

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

Quality analysis

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

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

Breeder Seed Production

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

Agronomy

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

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

Plant Pathology

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

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

Identification of sources of resistance against major diseases

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

Nematology

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

Entomology

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

Habitat Manipulation

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

Inbred evaluation:

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

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

Re-orientation on Inbred-hybrid Technology

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

Public Private Partnership (PPP) for public bred single cross hybrid seed production

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

Transfer of Technology

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

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

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

| State /UT | Season | Area (000 hectares) | | | Production (000 tonnes) | | | Productivity (Kg/Hectare) | | |
|-------------------------------|--------|---------------------|---------|--------|-------------------------|---------|---------|---------------------------|---------|--------|
| | | 2006-07 | 2007-08 | 2008-9 | 2006-07 | 2007-08 | 2008-9 | 2006-07 | 2007-08 | 2008-9 |
| Andhra Pradesh | Kharif | 535.0 | 519.0 | 498.0 | 1285.0 | 2141.0 | 1567.0 | 2402 | 4125 | 3147 |
| | Rabi | 190.0 | 267.0 | 354.0 | 1177.0 | 1480.0 | 2585.0 | 6195 | 5543 | 7302 |
| | Total | 725.0 | 786.0 | 852.0 | 2462.0 | 3621.0 | 4152.0 | 3396 | 4607 | 4873 |
| Arunachal Pradesh | Kharif | 42.1 | 38.8 | 36.4 | 57.4 | 51.9 | 49.7 | 1363 | 1338 | 1365 |
| | Rabi | 4.2 | 3.9 | 6.5 | 6.1 | 5.5 | 9.1 | 1452 | 1410 | 1400 |
| | Total | 46.3 | 42.7 | 42.9 | 63.5 | 57.4 | 58.8 | 1372 | 1344 | 1371 |
| Assam | | 18.0 | 18.0 | 17.4 | 14.0 | 13.0 | 12.6 | 778 | 722 | 724 |
| Bihar | Autumn | 259.5 | - | - | 397.6 | - | - | 1532 | - | - |
| | Kharif | - | 263.0 | 245.0 | - | 252.0 | 371.8 | - | 958 | 1518 |
| | Rabi | 214.7 | 376.2 | 395.5 | 772.3 | 1203.0 | 1342.2 | 3597 | 3198 | 3394 |
| | Gama | 167.7 | - | - | 544.9 | - | - | 3249 | - | - |
| | Total | 641.9 | 639.8 | 640.5 | 1714.8 | 1455.0 | 1714.0 | 2671 | 2274 | 2676 |
| Chhatisgarh | Kharif | 97.3 | 105.8 | 100.1 | 119.2 | 165.8 | 140.3 | 1225 | 1567 | 1402 |
| Goa | Kharif | 0.1 | 0.1 | 0.1 | 0.5 | 0.5 | 0.6 | 5000 | 5000 | 6000 |
| Gujrat | Kharif | 520.0 | 424.0 | 419.0 | 363.0 | 583.0 | 603.0 | 698 | 1375 | 1439 |
| | Rabi | - | - | 80.0 | - | - | 136.0 | - | - | 1700 |
| | Total | 520.0 | 424.0 | 499.0 | 363.0 | 583.0 | 739.0 | - | 1375 | 1481 |
| Haryana | Kharif | 14.0 | 14.0 | 11.3 | 32.0 | 37.0 | 24.4 | 2286 | 2643 | 2159 |
| Himachal Pradesh | Kharif | 299.0 | 300.2 | 297.7 | 695.4 | 862.6 | 676.6 | 2326 | 2873 | 2273 |
| J&K | Kharif | 323.6 | 302.4 | 315.8 | 486.9 | 474.5 | 633.2 | 1505 | 1569 | 2005 |
| Jharkhand | Autumn | 230.1 | - | - | 276.9 | - | - | 1203 | - | - |
| | Kharif | - | 227.7 | 198.9 | - | 341.5 | 267.7 | - | 1500 | 1346 |
| | Rabi | 10.8 | 9.7 | 17.1 | 19.5 | 16.7 | 36.3 | 1806 | 1722 | 2123 |
| | Total | 240.9 | 237.4 | 216.0 | 296.4 | 358.2 | 304.0 | 1230 | 1509 | 1407 |
| Karnataka | Kharif | 866.0 | 1015.0 | 933.0 | 2459.0 | 2936.0 | 2632.0 | 2840 | 2893 | 2821 |
| | Rabi | 79.0 | 98.0 | 136.0 | 210.0 | 318.0 | 397.0 | 2658 | 3245 | 2919 |
| | Summer | 16.0 | - | - | 50.0 | - | - | 3125 | - | - |
| | Total | 961.0 | 1113.0 | 1069.0 | 2719.0 | 3254.0 | 3029.0 | 2829 | 2924 | 2833 |
| Madhya Pradesh maharashtra | Kharif | 861.1 | 879.8 | 841.1 | 840.2 | 1133.1 | 1144.4 | 976 | 1288 | 1361 |
| | Kharif | 475.0 | 571.0 | 550.0 | 948.0 | 1545.0 | 1323.0 | 1996 | 2706 | 2405 |
| | Rabi | 105.0 | 101.0 | 105.0 | 202.0 | 245.0 | 237.0 | 1924 | 2426 | 2257 |
| | Total | 580.0 | 672.0 | 655.0 | 1150.0 | 1790.0 | 1560.0 | 1983 | 2664 | 2382 |
| Manipur | Kharif | 2.9 | 3.0 | 4.3 | 7.9 | 8.4 | 11.5 | 2724 | 2800 | 2674 |
| Meghalaya | Kharif | 17.0 | 17.1 | 17.1 | 25.0 | 25.1 | 25.7 | 1471 | 1468 | 1503 |
| Mizoram | Kharif | 10.4 | 7.2 | 9.2 | 20.2 | 0.5 | 8.9 | 1942 | 69 | 967 |
| | Rabi | 0.3 | 0.2 | 0.4 | 0.8 | 0.2 | 0.4 | 2667 | 1000 | 1000 |
| | Total | 10.7 | 7.4 | 9.6 | 21.0 | 0.7 | 9.3 | 1963 | 95 | 969 |
| Nagaland | Kharif | 64.4 | 67.0 | 64.4 | 108.3 | 119.8 | 115.9 | 1674 | 1788 | 1800 |
| Orissa | Kharif | 59.4 | 71.2 | 64.8 | 98.3 | 140.7 | 128.7 | 1655 | 1976 | 1986 |
| | Rabi | 1.9 | 2.9 | 2.3 | 4.5 | 6.5 | 6.0 | 2368 | 2241 | 2609 |
| | Total | 61.3 | 74.1 | 67.1 | 102.8 | 147.2 | 134.7 | 1677 | 1987 | 2007 |
| Punjab | Kharif | 154.0 | 153.0 | 151.0 | 481.0 | 521.0 | 514.0 | 3123 | 3405 | 3404 |
| Rajasthan | Kharif | 1027.7 | 1050.7 | 1052.2 | 1115.4 | 1954.4 | 1827.2 | 1085 | 1860 | 1737 |
| | Rabi | 0.7 | 0.6 | 0.7 | 1.0 | 1.0 | 1.0 | 1429 | 1667 | 1429 |
| | Total | 1028.4 | 1051.3 | 1052.9 | 1116.4 | 1955.4 | 1828.2 | 1086 | 1860 | 1736 |
| Sikkim | Kharif | 37.9 | 39.1 | 37.7 | 56.5 | 62.6 | 58.2 | 1491 | 1601 | 1544 |
| Tamilnadu | Kharif | 131.2 | 153.0 | 188.0 | 423.0 | 451.7 | 689.6 | 3224 | 2952 | 3668 |
| | Rabi | 66.6 | 70.5 | 98.6 | 336.1 | 358.9 | 568.2 | 5047 | 5091 | 5763 |
| | Total | 197.8 | 223.5 | 286.6 | 759.1 | 810.6 | 1257.8 | 3838 | 3627 | 4389 |
| Tripura | Kharif | 2.5 | 2.1 | 2.1 | 2.4 | 2.1 | 2.0 | 960 | 1000 | 952 |
| UP | Kharif | 842.0 | 812.0 | 770.0 | 1116.9 | 1167.0 | 1151.0 | 1327 | 1437 | 1495 |
| | Rabi | 30.0 | 26.0 | 29.0 | 47.0 | 42.0 | 47.0 | 1567 | 1615 | 1621 |
| | Total | 872.0 | 838.0 | 799.0 | 1163.9 | 1209.0 | 1198.0 | 1335 | 1443 | 1499 |
| Uttarachal | Kharif | 30.0 | 29.0 | 33.0 | 40.0 | 43.0 | 43.0 | 1333 | 1483 | 1303 |
| | Rabi | 1.0 | - | - | 2.0 | - | - | - | - | - |
| | Total | 31.0 | 29.0 | 33.0 | 42.0 | 43.0 | 43.0 | 1355 | 1483 | 1303 |
| WB | Kharif | 39.7 | 34.6 | 36.8 | 86.0 | 72.5 | 97.8 | 2166 | 2095 | 2658 |
| | Rabi | 17.0 | 42.6 | 54.0 | 72.5 | 171.9 | 245.7 | 4265 | 4035 | 4550 |
| | Summer | 28.7 | - | - | 95.0 | - | - | - | - | - |
| | Total | 85.4 | 77.2 | 90.8 | 253.5 | 244.4 | 343.5 | 2968 | 3166 | 3783 |
| A&N Island | Kharif | 0.1 | 0.2 | 0.2 | 0.2 | 0.9 | 0.6 | 2000 | 4500 | 3000 |
| Delhi | Kharif | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1000 | 1000 | 1000 |
| Others | | - | 178.8 | - | - | 277.6 | - | - | - | - |
| All India | Kharif | 6960.4 | 7118.7 | 6894.7 | 11556.3 | 15106.7 | 14120.5 | 1660 | 2122 | 2048 |
| | Rabi | 933.6 | 998.6 | 1279.1 | 3540.7 | 3848.7 | 5610.9 | 3793 | 3854 | 4387 |
| | Total | 7894.0 | 8117.3 | 8173.8 | 15097.0 | 18955.4 | 19731.4 | 1912 | 2335 | 2414 |

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

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

WEATHER DATA

Mean maximum and minimum temperature during 2009 at various research centers of AICRP(Maize)

| Centre | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Almora | Max | 21.1 | 22.7 | 25.3 | 29.8 | 30.0 | 33.3 | 30.1 | 30.4 | 28.4 | 26.8 | 23.2 | - |
| | Min | 0.1 | 1.7 | 5.4 | 8.8 | 13.7 | 16.3 | 20.9 | 20.7 | 18.3 | 9.7 | 4.3 | - |
| Ambikapur | Max | 25.7 | 29.3 | 33.2 | 37.4 | 39.6 | 39.3 | 30.1 | 30.5 | 31.3 | 29.8 | 26.5 | 24.8 |
| | Min | 10.3 | 10.6 | 15.1 | 19.8 | 24.0 | 25.6 | 22.7 | 22.3 | 21.3 | 15.1 | 11.9 | 8.1 |
| Arbhavi | Max | 31.3 | 34.6 | 37.1 | 39.5 | 38.4 | 33.3 | 29.0 | 31.0 | 31.3 | 31.6 | 29.7 | - |
| | Min | 11.8 | 14.4 | 18.5 | 21.6 | 22.0 | 21.7 | 22.0 | 22.5 | 22.1 | 21.1 | 17.6 | - |
| Hyderabad | Max | 30.2 | 33.9 | 36.0 | 38.9 | 40.3 | 36.3 | 32.0 | 31.2 | 31.4 | 31.0 | 29.6 | 28.5 |
| | Min | 13.7 | 16.8 | 19.0 | 23.7 | 26.4 | 24.8 | 23.4 | 23.3 | 22.2 | 19.5 | 18.1 | 14.1 |
| Jorhat | Max | 24.0 | 26.4 | 28.8 | 28.5 | 30.5 | 32.8 | 32.9 | 31.8 | 33.0 | 31.0 | 27.1 | - |
| | Min | 11.3 | 13.2 | 15.9 | 20.5 | 23.1 | 25.4 | 26.0 | 25.7 | 25.8 | 21.9 | 16.4 | - |
| Kangra | Max | 20.6 | 22.4 | 26.4 | 29.3 | 34.6 | 36.4 | 32.4 | 30.3 | 30.0 | 28.2 | 24.1 | 20.3 |
| | Min | 8.0 | 7.0 | 8.8 | 12.4 | 18.4 | 17.8 | 21.9 | 21.9 | 17.8 | 11.6 | 7.0 | 8.2 |
| Kolhapur | Max | 31.0 | 27.8 | 36.0 | 37.7 | 35.9 | 31.8 | 28.9 | 28.6 | 29.5 | 31.1 | 29.7 | 30.4 |
| | Min | 15.4 | 14.0 | 20.0 | 22.4 | 22.5 | 22.5 | 21.7 | 21.6 | 21.0 | 19.4 | 18.7 | 14.5 |
| Mandya | Max | 31.4 | 34.0 | 34.1 | 35.4 | 33.6 | 31.5 | 29.2 | 30.4 | 30.0 | 31.0 | 30.9 | - |
| | Min | 13.6 | 15.4 | 18.7 | 21.2 | 21.5 | 20.4 | 20.4 | 20.4 | 20.5 | 18.8 | 19.2 | - |
| Ranchi | Max | 24.5 | 28.2 | 31.9 | 35.5 | 35.6 | 36.2 | 30.0 | 29.9 | 29.8 | 28.0 | 25.8 | 24.3 |
| | Min | 8.1 | 8.9 | 13.5 | 17.9 | 21.4 | 23.0 | 22.6 | 22.7 | 19.4 | 15.4 | 12.1 | 7.2 |

Total Rainfall (mm)

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

LOCATIONS AND SOIL CHARACTERISTICS OF RESEARCH CENTERS

| S. No. | CENTRE | LATITUDE | LONGITUDE | ALTITUDE (M) | SOIL TYPE | PH |
|--------|-------------|----------|--------------------|--------------|---|------------------------------------|
| 1 | Srinagar | 34.06 N | 74.51'E | 1652 | Silty clay loam | - |
| 2 | Almora | 29.36 N | 79.40'E | 1250 | Clay loam | 5.8 |
| 3 | Auli | 30.31 N | 79.34' - 10 E | 2680 | Sandy loam | 6.7-7.1 |
| 4 | Bajaura | 32.2 N | 77.0'E | 1090 | Sandy loam | 6.5 |
| 5 | Salooni | - | - | 1768 | Silty loam | 6.5 |
| 6 | Dhaura Kuan | 30.5 N | 77.5'E | 456 | Sandy loam | 6.7 |
| 7 | Jorhat | 26.46 N | 94.16'E | 91 | Sandy loam | 5.7 |
| 8 | Kalimpong | 27 N | 88'E | 1070 | Sandy loam | - |
| 9 | Kalyani | 23.5 N | 89'E | 9.75 | Sandy loam | - |
| 10 | Delhi | 28.38 N | 77.12'E | 228.1 | Loam to sandy loam | 7.5-8.5 |
| 11 | Ludhiana | 30.45 N | 75.40'E | 247 | Sandy loam | 7.8 |
| 12 | Udaipur | 24.55 N | 73.41'E | 572 | Loam to sandy loam | 8.2-8.4 |
| 13 | Banswara | 23.5 N | 73.58'E | 218 | Pleustertt | - |
| 14 | Kanpur | 26.28 N | 80.40'E | 125.9 | Sandy loam | - |
| 15 | Karnal | 29.43 N | 76.58'E | 245 | Clay loam | - |
| 16 | Jaipur | 26.51N | 75.47'E | 122 | Clay loam | - |
| 17 | Pantnagar | 29.0 N | 79.3'E | 243.8 | Clay loam | 7.4 |
| 18 | Dholi | 25.59 N | 85.75'E | 51.8 | Sandy loam | - |
| 19 | Hyderabad | 17.2N | 78.3'E | 530 | Black clay loam | 8.3 |
| 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 |
| 28 | Bahraich | 27.34 N | 81.36 E | 130 | Sandy loam | 8.4 |
| 29 | Sabour | 25.15 N | 87.02'E | 37.04 | Sandy loam | - |
| 30 | Jalna | 19.51N | 75.53'E | 550 | Medium black | 7.5-8.0 |
| 31 | Dharwad | | | | Medium black Red laterite -Sandy loam | 7.5 Acidic |
| 32 | Jashipur | 21.57N | 86.00 E | 400 | loam | Acidic |
| 33 | Ambikapur | 23.18N | 83.15 E | 592.62 | Sandy loam | 5.7 |
| 34 | Barapani | 25.4N | 91.63 E | 1010 | Sandy loam | 4.5-5 |
| 35 | Kangra | 32.5N | 76.18E | 700 | Clay loam | 6.4 |
| 36 | Karimnagar | 18.28N | 79.06E | 264 | Red sandy | 6.8 |
| 37 | Ranchi | 23.23N | 85.23E | 625 | Red acidic | 5-6 |

TRIAL NO. 61 FULL SEASON MATURITY (IET)

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

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

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

| ENT. NO. | PEDIGREE | ZONE CODE | | ORIGIN | REPLICATION | | |
|----------|-------------------|-----------|----------|---------------------|-------------|------|------|
| | | | | | R1 | R2 | R3 |
| 37 | JKMH - 7005 | ALL | DMR-1337 | JK AGRI | 7156 | 7210 | 7236 |
| 38 | PRO - 377 | ALL | DMR-1338 | BAYER BIOSCIENCE | 7129 | 7169 | 7222 |
| 39 | PRO - 378 | ALL | DMR-1339 | BAYER BIOSCIENCE | 7113 | 7209 | 7243 |
| 40 | NK - 6246 | ALL | DMR-1340 | SYNGENTA | 7135 | 7166 | 7213 |
| 41 | NK - 6267 | ALL | DMR-1341 | SYNGENTA | 7119 | 7208 | 7251 |
| 42 | NK - 6607 | ALL | DMR-1342 | SYNGENTA | 7117 | 7157 | 7253 |
| 43 | NK - 6617 | ALL | DMR-1343 | SYNGENTA | 7131 | 7204 | 7214 |
| 44 | KMH - 3670 | ALL | DMR-1344 | KAVERI SEED | 7142 | 7165 | 7245 |
| 45 | KMH - 548 | ALL | DMR-1345 | KAVERI SEED | 7112 | 7180 | 7230 |
| 46 | X7A303 | ALL | DMR-1346 | POC | 7149 | 7178 | 7255 |
| 47 | X8B562 | ALL | DMR-1347 | POC | 7137 | 7171 | 7259 |
| 48 | K H - 404 | ALL | DMR-1348 | KANCHAN GANGA | 7155 | 7206 | 7225 |
| 49 | MAIZE POLO | ALL | DMR-1349 | KANCHAN GANGA | 7132 | 7174 | 7235 |
| 50 | C. - 1950 | ALL | DMR-1350 | ZUARI SEEDS | 7133 | 7190 | 7246 |
| 51 | C. - 1945 | ALL | DMR-1351 | ZUARI SEEDS | 7139 | 7202 | 7248 |
| 52 | K F - 105 | ALL | DMR-1352 | BHARTIYA BEEJ NIGAM | 7114 | 7183 | 7247 |
| CHECKS: | | | | | | | |
| 53 | BIO - 9681 (C) | ALL | DMR-1353 | BIOSEED | 7115 | 7158 | 7219 |
| 54 | SEEDTEC - 2324(C) | ALL | DMR-1354 | BISCO BIOSCIENCE | 7103 | 7205 | 7218 |
| 55 | HQPM - 1 (C) | ALL | DMR-1355 | KARNAL | 7125 | 7188 | 7249 |
| 56 | HQPM - 7 (C) | ALL | DMR-1356 | KARNAL | 7150 | 7173 | 7220 |

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

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: 1 - 07 - 2009

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

| ENT. PEDIGREE NO. | ZONE CODE | ORIGIN | REPLICATION | | | |
|-------------------|----------------------|--------------|------------------|------|------|------|
| | | | R1 | R2 | R3 | |
| 1 | P L M - 21 | ALL DMR-1251 | KANGRA | 6913 | 6953 | 7023 |
| 2 | L - 183 | ALL DMR-1252 | BAJAURA | 6903 | 6956 | 7007 |
| 3 | EHL - 162308 | ALL DMR-1253 | BAJAURA | 6918 | 6963 | 6993 |
| 4 | PMSY - 3 | ALL DMR-1254 | POONCH | 6933 | 6949 | 7029 |
| 5 | PMSW - 4 | ALL DMR-1255 | POONCH | 6911 | 6966 | 7016 |
| 6 | PMSQ - 5 | ALL DMR-1256 | POONCH | 6917 | 6962 | 7027 |
| 7 | H K H - 308 | ALL DMR-1257 | KARNAL | 6942 | 6987 | 7025 |
| 8 | H K H - 309 | ALL DMR-1258 | KARNAL | 6922 | 6961 | 7001 |
| 9 | H K H - 310 | ALL DMR-1259 | KARNAL | 6940 | 6977 | 7022 |
| 10 | MALVIYA MAKKA - 2 | ALL DMR-1260 | VARANASI | 6932 | 6985 | 6997 |
| 11 | H K H - 311 | ALL DMR-1261 | KARNAL | 6914 | 6975 | 7018 |
| 12 | H K H - 312 | ALL DMR-1262 | KARNAL | 6909 | 6983 | 7009 |
| 13 | H K H - 313 | ALL DMR-1263 | KARNAL | 6915 | 6957 | 7011 |
| 14 | E H - 1974 | ALL DMR-1264 | UDAIPUR | 6901 | 6981 | 7002 |
| 15 | E H - 1986 | ALL DMR-1265 | UDAIPUR | 6927 | 6951 | 7032 |
| 16 | E H - 2025 | ALL DMR-1266 | UDAIPUR | 6920 | 6968 | 7012 |
| 17 | VEH - 09 - 1 | ALL DMR-1267 | VARANASI | 6929 | 6980 | 7004 |
| 18 | VEH - 09 - 2 | ALL DMR-1268 | VARANASI | 6902 | 6976 | 7008 |
| 19 | REH - 2101 | ALL DMR-1269 | KANPUR | 6912 | 6972 | 6998 |
| 20 | REH - 2102 | ALL DMR-1270 | KANPUR | 6931 | 6947 | 7031 |
| 21 | REH - 2103 | ALL DMR-1271 | KANPUR | 6908 | 6965 | 6999 |
| 22 | J H - 31314 | ALL DMR-1272 | LUDHIANA | 6924 | 6971 | 6994 |
| 23 | J H - 31285 | ALL DMR-1273 | LUDHIANA | 6935 | 6969 | 6996 |
| 24 | J H - 31336 | ALL DMR-1274 | LUDHIANA | 6906 | 6959 | 7021 |
| 25 | J H - 31292 | ALL DMR-1275 | LUDHIANA | 6939 | 6954 | 7000 |
| 26 | J H - 31288 | ALL DMR-1276 | LUDHIANA | 6905 | 6970 | 7017 |
| 27 | A H - 97001 | ALL DMR-1277 | DELHI | 6943 | 6960 | 7020 |
| 28 | HKI 1105 x HKI 163-1 | ALL DMR-1278 | DMR | 6934 | 6973 | 6995 |
| 29 | BML 7 x HKI 163-1 | ALL DMR-1279 | DMR | 6937 | 6967 | 6989 |
| 30 | HKI 1128 x HKI 163-1 | ALL DMR-1280 | DMR | 6925 | 6974 | 6992 |
| 31 | KMH - 218 | ALL DMR-1281 | KAVERI SEED | 6926 | 6984 | 7030 |
| 32 | KMH - 3426 | ALL DMR-1282 | KAVERI SEED | 6916 | 6964 | 7019 |
| 33 | LAXMI 306 | ALL DMR-1283 | YAAGANTI SEEDS | 6904 | 6955 | 7028 |
| 34 | MUKHYA - 108 | ALL DMR-1284 | SRICHAKRA | 6941 | 6958 | 7010 |
| 35 | SARPUNCH - 171 | ALL DMR-1285 | SRICHAKRA | 6938 | 6948 | 7026 |
| 36 | KDMH - 017 | ALL DMR-1286 | KRISHIDHAN SEEDS | 6923 | 6978 | 6991 |
| 37 | N M H - 803 | ALL DMR-1287 | NUZIVEEDU SEEDS | 6930 | 6952 | 7006 |
| 38 | X8B557 | ALL DMR-1288 | POC | 6907 | 6979 | 7003 |
| 39 | X8B691 | ALL DMR-1289 | POC | 6919 | 6945 | 7005 |
| 40 | M C H - 41 | ALL DMR-1290 | MONSANTO | 6936 | 6950 | 7014 |
| 41 | M C H - 42 | ALL DMR-1291 | MONSANTO | 6928 | 6988 | 6990 |
| 42 | CHECKS: NAVJOT | ALL DMR-1291 | LUDHIANA | 6910 | 6946 | 7015 |
| 43 | B I O - 9637 | ALL DMR-1292 | BIO SEED | 6921 | 6986 | 7013 |
| 44 | H M - 9 | ALL DMR-1293 | KARNAL | 6944 | 6982 | 7024 |

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

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

TRIAL NO. 63 EARLY MATURITY (IET)

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

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

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

ARBHAVI

COIMBATORE, MANDYA, NAGENAHALI, UDAIPUR, BARAPANI
 UDAIPUR

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

* SEED FOR PATHOLOGY IS FOUR ROW AND TWO REPLICATION

TRIAL NO. 64 EXTRA EARLY MATURITY (IET)

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

LOCATION: SRINAGAR, UDHAMPUR, BAJAURA, KANGRA, ALMORA, BARAPANI
 JORHAT, DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR,
 VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI, AMBIKAPUR
 HYDERABAD, KARIMNAGAR, KOLHAPUR, ARHAVI, MANDYA,
 COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

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

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

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: 26 - 06 - 2009

DATE OF DISPATCH: 01 - 07 - 2009

* SEED FOR PATHOLOGY IS FOUR ROW AND TWO REPLICATION

TRIAL NO. 65 Z -2 FULL SEASON MATURITY (AET 1st YEAR)

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

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR

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

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 65 Z - 3 FULL SEASON MATURITY (AET 1st YEAR)

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

LOCATION VARANASI, BAHAICH, DHOLI, JASHIPUR, RANCHI
 AMBIKAPUR

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

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 65 Z - 4 FULL SEASON MATURITY (AET 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENTH 4 m
 LOCATION: HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA
 ARBHAVI, COIMBATORE, POC, GANGA KAVERI
 ADVANTA, J K AGRI, BISCO BIOSCIENCE,
 MONSANTO, HYTECH SEED, VIBHA SEED

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

DATE OF DISPATCH: 19 - 06 - 2009

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

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

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

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

DATE OF DISPATCH: 19 - 06 - 2009

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

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

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

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

DATE OF DISPATCH: 19 - 06 - 2009

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

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR,
 VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI
 AMBIKAPUR, HYDERABAD, KARIMNAGAR, KOLHAPUR,
 MANDYA, COIMBATORE, ARBHAVI, KANCHAN GANGA
 VIBHA SEED, KAVERI SEED, MONSANTO, C< POKPOANAD

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

DATE OF DISPATCH: 19 - 06 - 2009

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

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

DATE OF DISPATCH: 19 - 06 - 2009

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

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

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

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

DATE OF DISPATCH: 19 - 06 - 2009

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

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

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR

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

DATE OF DISPATCH: 19 - 06 - 2009

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

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

LOCATION: VARANASI, BAHRAICH, DHOLI, JASHIPUR, RANCHI
 AMBIKAPUR, HYDERABAD, KARIMNAGAR, KOLHAPUR
 ARBHAVI, MANDYA, COIMBATORE

| ENT. NO. | PEDIGREE | ZONE CODE | ORIGIN | REPLICATION | | | | |
|----------|----------------|-----------|----------|-------------|------|------|------|------|
| | | | | R1 | R2 | R3 | R4 | |
| 1 | COMP. R-2006-1 | 3,4 | DMR-1081 | KANPUR | 6355 | 6365 | 6367 | 6382 |
| 2 | COMP. R-2007-1 | 3,4 | DMR-1082 | KANPUR | 6354 | 6364 | 6368 | 6381 |
| 3 | U M C- 10 | 3,4 | DMR-1083 | BAHRAICH | 6351 | 6360 | 6373 | 6376 |
| 4 | U M C- 11 | 3,4 | DMR-1084 | BAHRAICH | 6353 | 6366 | 6370 | 6380 |
| 5 | KML - 9 | 3,4 | DMR-1085 | KANGRA | 6357 | 6362 | 6372 | 6377 |
| | CHECKS: | | | | | | | |
| 6 | PARKASH | 3,4 | DMR-1086 | LUDHIANA | 6356 | 6361 | 6371 | 6378 |
| 7 | PRATAP MAKKA-4 | 3,4 | DMR-1087 | UDAIPUR | 6358 | 6359 | 6369 | 6379 |
| 8 | PRATAP MAKKA-5 | 3,4 | DMR-1088 | UDAIPUR | 6352 | 6363 | 6374 | 6375 |

DATE OF DISPATCH: 19 - 06 - 2009

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

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

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

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

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 68 Z 4 EXTRA EARLY MATURITY (AET 2nd YEAR)

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

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

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 69 Z4 FULL SEASON MATURITIES (AET 2nd YEAR)

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

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

DATE OF DISPATCH: - - 2009

TRIAL NO. 69 Z5 FULL SEASON MATURITIES (AET 2nd YEAR)
 YEAR 2008 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENTH 4 m

LOCATION: UDAIPUR, BANSWARA, GODHRA, CHHINDWARA,

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

DATE OF DISPATCH: - - 2009

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

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

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

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

DATE OF DISPATCH: - - 2009

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

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

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

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

DATE OF DISPATCH: - - 2009

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

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

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

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

DATE OF DISPATCH: - - 2009

TRIAL NO. 70 Z-4 MEDIUM MATURITIES (AET 2nd YEAR)

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

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

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

TRIAL NO. 70 Z-5 MEDIUM MATURITIES (AET 2nd YEAR)

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

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

TRIAL NO. 71 Z5 EARLY MATURITY (AET 2nd YEAR)

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

LOCATION: UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

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

TRIAL NO. 72 Z1 EXTRA EARLY MATURITY (AET 2nd YEAR)

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

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

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

DATE OF DISPATCH: - - 2009

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

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

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

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

DATE OF DISPATCH: - - 2009

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

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

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

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

DATE OF DISPATCH: - - 2009

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

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

PATHOLOGY: ALMORA, BAJAURA, DELHI, LUDHIANA, DHOLI, NAGENAHALLI
UDAIPUR, RANCHI, DHAULAKUAN

DATE OF DISPATCH: 19 - 06 - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

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

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

PATHOLOGY: ALMORA, BAJAURA, DELHI, LUDHIANA, DHOLI, NAGENAHALLI
UDAIPUR, RANCHI, DHAULAKUAN

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

DATE OF DISPATCH: 19 - 06 - 2009

DATE OF DISPATCH: PATHOLOGY & ENTOMOLOGY009

DATE OF DISPATCH: 20 - 06 - 2009

TRIAL NO. SWEET CORN TRIAL

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

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

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

DATE OF DISPATCH: 2 - 07 - 2009

TRIAL NO. POP CORN TRIAL

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

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

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

DATE OF DISPATCH: 2 - 07 - 2009

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

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

DATE OF DISPATCH: 2 - 07 - 2009

TRIAL NO. 75 FULL SEASON MATURITY

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

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

LOCATION:

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

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

NEMATOTOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

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

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

LOCATION:

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

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

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

TRIAL NO. 77 EARLY MATURITY

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

| ENT. NO. | PEDIGREE | ZONE | CODE | ORIGIN | REPLICATION | |
|----------|------------------|---------|----------|----------|-------------|------|
| | | | | | R1 | R2 |
| ----- | | | | | | |
| | AET 1st YEAR | | | | | |
| 1 | COMP. R-2006-1 | 1,2,3,4 | DMR-1513 | KANPUR | 9034 | 9052 |
| 2 | COMP. R-2007-1 | 2,3 | DMR-1514 | KANPUR | 9033 | 9048 |
| 3 | U M C- 10 | 1,2,3,4 | DMR-1515 | BAHRAICH | 9038 | 9050 |
| 4 | U M C- 11 | 2,4 | DMR-1516 | BAHRAICH | 9039 | 9051 |
| 5 | U M C- 12 | 2 | DMR-1517 | BAHRAICH | 9031 | 9044 |
| 6 | KML - 9 | 1,2,3 | DMR-1518 | KANGRA | 9035 | 9045 |
| 7 | KML - 15 | 1 | DMR-1519 | KANGRA | 9032 | 9047 |
| | CHECKS: | | | | | |
| 8 | PARKASH | | DMR-1520 | LUDHIANA | 9037 | 9046 |
| 9 | PRATAP MAKKA - 4 | | DMR-1521 | UDAIPUR | 9041 | 9049 |
| 10 | PRATAP MAKKA - 5 | | DMR-1522 | UDAIPUR | 9040 | 9043 |
| | AET 2nd YEAR | | | | | |
| 11 | J H - 31110 | 5 | DMR-1523 | LUDHIANA | 9036 | 9042 |

LOCATION:

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

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

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

TRIAL NO. 78 EXTRA EARLY MATURITY

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

| ENT. NO. | PEDIGREE | ZONE | CODE | ORIGIN | REPLICATION | |
|--------------|----------------------|-------|----------|----------|-------------|------|
| | | | | | R1 | R2 |
| AET 1st YEAR | | | | | | |
| 1 | F H - 3463 | 4,5 | DMR-1501 | ALMORA | 9004 | 9023 |
| 2 | F H - 3464 | 4 | DMR-1502 | ALMORA | 9009 | 9015 |
| 3 | F H - 3473 | 4 | DMR-1503 | ALMORA | 9010 | 9013 |
| 4 | FQH - 55 | 3,4,5 | DMR-1504 | ALMORA | 9006 | 9020 |
| AET 2nd YEAR | | | | | | |
| 5 | FH-3356 (RETESTING.) | 1 | DMR-1505 | ALMORA | 9011 | 9024 |
| 6 | FH-3358 (RETESTING.) | 3,5 | DMR-1506 | ALMORA | 9007 | 9017 |
| 7 | F Q H - 38 | 1,2,4 | DMR-1507 | ALMORA | 9002 | 9018 |
| CHECKS: | | | | | | |
| 8 | VIVEK HYBRID - 21 | 1,2,4 | DMR-1508 | ALMORA | 9005 | 9022 |
| 9 | VIVEK HYBRID - 17 | 1 | DMR-1509 | ALMORA | 9008 | 9016 |
| 10 | VIVEK QPM - 9 | 1,2,4 | DMR-1510 | ALMORA | 9001 | 9014 |
| 11 | VIVEK HYBRID - 9 | 1,2,5 | DMR-1511 | ALMORA | 9003 | 9021 |
| 12 | PARKASH | | DMR-1512 | LUDHIANA | 9012 | 9019 |

LOCATION:

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

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

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

AGRONOMIC TRIAL: - N x G YEAR 2009

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

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

ZONE -4

HYDERABAD, KARIMNAGAR, KOLHAPUR, ARBHAVI

DATE OF DISPATCH: 05 - 06 - 2009

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

ZONE - 5

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

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

EXTRA EARLY MATURITY

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

ZONE - 1

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

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

ZONE - 2, 4

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

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

ZONE - 3, 5

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

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

M E D I U M M A T U R I T Y

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

ZONE - 1

LOCATION: BAJAURA, KANGRA, JORHAT, ALMORA
DATE OF DISPATCH: 11 - 6 - 2008

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

ZONE - 2

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

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

ZONE - 3

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

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

ZONE - 4

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

| ENT. NO. | PEDIGREE | ZONE | CODE | ORIGIN |
|----------|-------------|------|------------|------------------|
| 1 | BISCO - 555 | 5 | DMR - 1071 | BISCO BIOSCIENCE |
| 2 | BISCO - 855 | 5 | DMR - 1072 | BISCO BIOSCIENCE |
| CHECKS: | | | | |
| 3 | H M - 8 | 5 | DMR - 1073 | KARNAL |
| 4 | H M - 9 | 5 | DMR - 1074 | KARNAL |
| 5 | H M - 10 | 5 | DMR - 1075 | KARNAL |

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

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

EARLY MATURITY

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

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

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

SWEET CORN TRIAL

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

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

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

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

Breeder Seed Production Report for 2009

Name of Crop: Maize

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

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

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

BREEDING-2009

| TABLE NO. | C O N T E N T S | PAGE NO. |
|---------------------------------------|---|-------------|
| IET TRIALS | | |
| 1. | PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI MEGHALAYA, KANGRA, DMRD DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHARAICH, VARANASI, DHOLI, JASHIPUR, AMBIKAPUR, ARBHAVI, HYDERABAD, GANGA KAVERI HYDERABAD, POC BANGALORE, JK AGRI BANGALORE, BAYER BIOSCIENCE BANGALORE, BIOSEED HYDERABAD, KARIMNAGAR, MANDYA, COIMBATORE, UDAIPUR, GODHRA(RAINFED), BANSWARA, CHHINDIWARA IN IET, TRIAL No. TR61 DURING KHARIF (2009). | 1-68 |
| 2. | PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BAJAURA, KANGRA, UDHAMPUR(RAINFED), DMR DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHARAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, MANDYA, KOLHAPUR, COIMBATORE, POC BANGALORE, UDAIPUR, BANSWARA, GODHRA(RAINFED), CHHINDIWARA IN IET, TRIAL No. TR62 DURING KHARIF (2009). | 69-120 |
| 3. | PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA, UDHAMPUR(RAINFED), DMR DELHI, LUDHIANA(R), KARNAL, PANTNAGAR, KANPUR, BAHARAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KARIMNAGAR, ARBHAVI, MANDYA, HYDERABAD, COIMBATORE, BIOSEED HYDERABAD, KOLHAPUR, UDAIPUR, BANSWARA, GODHRA(RAINFED), CHHINDIWARA IN TRIAL No. TR63 DURING KHARIF (2009). | 121-151 |
| 4. | PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA, UDHAMPUR(RAINFED), DMR DELHI, LUDHIANA(R), KARNAL, PANTNAGAR, KANPUR, BAHARAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, BANSWARA, GODHRA(RAINFED), CHHINDIWARA IN IET, TRIAL No. TR64 DURING KHARIF (2009). | 152-164 |
| AET 1st YEAR TRIALS | | |
| 5. | PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DMR DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR IN AET 1st YEAR TRIAL No. TR65Z2 DURING KHARIF (2009). | 165-168 |
| 6. | PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BAHARAICH, VARANASI, DHOLI, JASHIPUR, AMBIKAPUR IN AET 1st YEAR, TRIAL No. TR65Z3 DURING RABI/KHARIF (2009). | 169-172 |
| 7. | PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR POC BANGALORE, JK AGRI BANGALORE, ADVANTA BANGALORE, GANGA KAVERI HYDERABAD, IN AET 1 st YEAR, TRIAL No. TR65Z4 DURING KHARIF (2009). | 173-183 |
| 8. | PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT UDAIPUR, GODHRA (RAINFED), BANSWARA, CHHINDIWARA IN AET 1st YEAR, TRIAL No. TR65Z5 DURING KHARIF (2009). | 184-187 |
| 9. | PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI MEGHALAYA, KANGRA IN AET 1st YEAR, TRIAL No. TR66Z1 DURING KHARIF (2009). | 188-191 |

C O N T E N T S

- 10 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DMR 192-208
DELHI LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHARAICH, DHOLI,
JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD,
KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 1st YEAR,
TRIAL No. TR66Z-2, 3, 4 DURING KHARIF (2009).
11. PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT 209-211
UDAIPUR, BANSWARA, GODHRA(R), CHHINDIWARA IN AET 1st YEAR,
TRIAL No. TR66Z5 DURING KHARIF (2009).
12. PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT 212-214
ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA IN AET 1st
YEAR, TRIAL No. TR67Z1 DURING KHARIF (2009).
13. PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DMR 215-217
DELHI LUDHIANA(R), KARNAL, PANTNAGAR, KANPUR IN AET 1st
YEAR, TRIAL No. TR67Z2 DURING KHARIF (2009).
- 14 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT 218-225
BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR,
ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE
IN AET 1st YEAR, TRIAL No. TR67Z-3, 4 DURING KHARIF (2009).
- 15 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT BAHARAICH, 226-231
DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, UDAIPUR,
GODHRA(R), BANSWARA, CHHINDIWARA IN TRIAL No. TR68Z-3, 5
DURING KHARIF (2009).
- 16 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT 232-235
ARBHAVI (1), ARBHAVI (2), ARBHAVI, HYDERABAD, KARIMNAGAR,
KOLHAPUR, MANDYA, COIMBATORE IN TRIAL No. TR68Z-4 DURING
KHARIF (2009).

AET 2nd YEAR TRIALS

- 17 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT 236-239
HYDERABAD, KARIMNAGAR, ARBHAVI(1), ARBHAVI(2), MANDYA,
COIMBATORE, KOLHAPUR IN AET 2nd YEAR, TRIAL No. TR69Z4
DURING KHARIF (2009).
18. PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRID AT UDAIPUR, 240-243
GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No.
TR69Z5 DURING KHARIF (2009)

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| 19 | PERFORMANCE OF MEDIUM MATURING COMPOSITES AT BAJAURA, BARAPANI MEGHALAYA, UDHAMPUR(R), KANGRA IN AET 2nd YEAR, TRIAL No. TR70Z1 DURING KHARIF (2009). | 244-246 |
| 20. | PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT DMR DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR IN AET 2nd YEAR, TRIAL No. TR70Z2 DURING KHARIF (2009) | 247-250 |
| 21. | PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR IN AET 2nd YEAR, TRIAL No. TR70Z3 DURING KHARIF (2009). | 251-254 |
| 22. | PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT HYDERABAD, KARIMNAGAR, ARBHAVI(1), ARBHAVI(2), MANDYA, COIMBATORE, KOLHAPUR, KAVERI SEEDS HYDERABAD IN AET 2nd YEAR, TRIAL No. TR70Z4 DURING KHARIF (2009). | 255-260 |
| 23. | PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR70Z5 DURING KHARIF (2009). | 261-264 |
| 24. | PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR71Z5 DURING KHARIF (2009). | 265-266 |
| 25. | PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, UDHAMPUR(R), KANGRA IN AET 2nd YEAR, TRIAL No. TR72Z1 DURING KHARIF (2009). | 267-270 |
| 26. | PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT DMR DELHI, LUDHIANA(R), KARNAL, PANTNAGAR, KANPUR, HYDERABAD, KARIMNAGAR, ARBHAVI(1), ARBHAVI(2), MANDYA, COIMBATORE, KOLHAPUR IN AET 2nd YEAR, TRIAL No. TR72Z-2, 4 DURING KHARIF (2009). | 271-277 |
| 27. | PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR72Z-3, 5 DURING KHARIF (2009). | 278-284 |

QPM TRIAL

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| 28. | PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, DMR DELHI, LUDHIANA, PANTNAGAR, KANPUR, KARNAL, BAHARAICH, VARANASI, DHOLI, JASHIPUR, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, MANDYA, KOLHAPUR, UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN IET & AET 1 st YEAR, TRIAL No. TRQPM1 DURING KHARIF (2009). | 285-298 |
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- 29 PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, DMR DELHI , KARNAL, VARANASI, DHOLI, JASHIPUR, AMBIKAPUR, ARBHAVI, HYDERABAD, KOLHAPUR, UDAIPUR, CHHINDIWARA IN IET & AET 1st YEAR, TRIAL No. TRQPM 2, 3 DURING KHARIF (2009). 299-311

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- 30 PERFORMANCE OF SWEET CORN EXPERIMENTAL HYBRID & COMPOSITE AT ALMORA, BAJAURA, DMR DELHI, KARNAL, DHOLI, JASHIPUR, ARBHAVI, HYDERABAD , UDAIPUR, CHHINDIWARA IN TRIAL No. TRSWEET DURING KHARIF (2009). 312-318
- 31 PERFORMANCE OF POP CORN EXPERIMENTAL HYBRID & COMPOSITE AT ALMORA, BAJAURA, DMR DELHI, KARNAL, DHOLI, JASHIPUR, ARBHAVI, HYDERABAD , UDAIPUR, CHHINDIWARA IN POP CORN, TRIAL No. TRPOP DURING KHARIF (2009). 319-324
- 32 PERFORMANCE OF IISCH EXPERIMENTAL HYBRID & COMPOSITE AT BAJAURA, DMR DELHI, KARNAL, DHOLI, JASHIPUR, ARBHAVI, UDAIPUR IN IISCH, TRIAL No. TRIISCH DURING KHARIF (2009). 325-336

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- 33 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR IN TRIAL No. TR6108 DURING KHARIF (2009). 337-340
- 34 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6208 DURING KHARIF (2009). 341-346
- 35 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6308 DURING KHARIF (2009). 347-351
- 36 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6408 DURING KHARIF (2009). 352-354
- 37 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6508 DURING KHARIF (2009). 355-356
- 38 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6608 DURING KHARIF (2009). 357-358
- 39 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6808 DURING KHARIF (2009). 359-360

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- 40 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, IN TRIAL No. TR7008 DURING KHARIF (2009). 361-362
- 41 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR71-7208 DURING KHARIF (2009). 363-364

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- 42 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS COMPOSITES AT ALMORA, BAJAURA, KANGRA, POONCH, SRINAGAR IN ZONAL TRIAL No. TR102 DURING KHARIF (2009). 365-370
- 43 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS COMPOSITES AT ALMORA, BAJAURA, BARAPANI, JORHAT, KANGRA, POONCH, SRINAGAR IN ZONAL TRIAL No. TR103 DURING KHARIF (2009). 371-379
- 44 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, IN ZONAL TRIAL No. TR201 DURING KHARIF (2009). 380-384
- 45 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR IN ZONAL TRIAL No. TR202 DURING KHARIF (2008). 385-387
- 46 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR IN ZONAL TRIAL No. TR203 DURING KHARIF (2009). 388-393
- 47 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR IN ZONAL TRIAL No. TR204 DURING KHARIF (2009). 394-396
- 48 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT VARANASI, DHOLI, RANCHI, IN ZONAL TRIAL No. TR301 DURING KHARIF (2009). 397-400
- 49 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DHOLI, RANCHI IN ZONAL TRIAL No. TR302 DURING KHARIF (2009). 401-403
- 50 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS DHOLI, RANCHI DURING KHARIF (2009). 403-406
- 51 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT MANDYA, COIMBATORE IN ZONAL TRIAL No. TR401B DURING KHARIF (2009). 407-409
- 52 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA IN ZONAL TRIAL No. TR502 DURING KHARIF (2009). 410-415
- 53 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA IN ZONAL TRIAL No. TR503 DURING KHARIF (2008). 416-419

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- 54 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, 420-425
GODHRA, IN ZONAL TRIAL No. TR511 DURING KHARIF (2009).
- 55 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, 426-428
BANSWARA, GODHRA IN ZONAL TRIAL No. TRZTQPM1 DURING KHARIF
(2009).
- 56 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, 429-432
GODHRA, IN ZONAL TRIAL No. TRZTQPM2 DURING KHARIF (2009).

TABLE No.1

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

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | |
|----------|------------------|-------------------------------------|----|------|----|-------|----|------|----|------|----|------|----|-------|----|-------|----|-------|----|------|----|
| | | | | | | | | | | | | | | | | | | ZN 1 | | ZN 2 | |
| | | BAJA | R | BARA | R | KANG | R | MEAN | R | DELH | R | KARN | R | LUDH | R | PANT | R | KANP | R | MEAN | R |
| 1 | KNMH-40901 | 6905 | 52 | 841 | 56 | 9683 | 41 | 5809 | 54 | 4768 | 30 | 7193 | 44 | 7455 | 43 | 10311 | 32 | 9885 | 15 | 7922 | 38 |
| 2 | KNMH-40902 | 7817 | 35 | 1444 | 42 | 6940 | 56 | 5400 | 56 | 3269 | 53 | 8238 | 7 | 5337 | 56 | 8601 | 51 | 10400 | 3 | 7169 | 52 |
| 3 | KNMH-40903 | 7562 | 44 | 1975 | 12 | 9560 | 45 | 6366 | 45 | 4863 | 27 | 7819 | 20 | 5545 | 55 | 8383 | 52 | 9757 | 19 | 7273 | 49 |
| 4 | KNMH-40904 | 6377 | 55 | 1479 | 38 | 9584 | 43 | 5813 | 53 | 5194 | 17 | 8338 | 4 | 6957 | 47 | 10401 | 31 | 9651 | 20 | 8108 | 30 |
| 5 | CMH08-154 | 7879 | 34 | 2440 | 2 | 10527 | 29 | 6949 | 28 | 7173 | 2 | 6967 | 47 | 9624 | 15 | 10861 | 25 | 9645 | 21 | 8854 | 11 |
| 6 | CMH08-156 | 7272 | 51 | 1619 | 28 | 11716 | 13 | 6869 | 32 | 5017 | 23 | 8419 | 3 | 8264 | 35 | 11283 | 17 | 9434 | 29 | 8483 | 21 |
| 7 | CMH08-282 | 9337 | 11 | 1494 | 37 | 11757 | 12 | 7529 | 9 | 7634 | 1 | 7804 | 21 | 10593 | 5 | 12579 | 5 | 8319 | 55 | 9386 | 2 |
| 8 | HKH-406 | 7595 | 43 | 2012 | 11 | 10922 | 27 | 6843 | 33 | 3086 | 56 | 7962 | 15 | 7520 | 42 | 9047 | 48 | 9972 | 10 | 7517 | 45 |
| 9 | HKH-407 | 7307 | 50 | 2318 | 4 | 8534 | 54 | 6053 | 51 | 3113 | 55 | 7417 | 37 | 5967 | 53 | 10016 | 40 | 8771 | 47 | 7057 | 55 |
| 10 | JH-12108 | 9227 | 14 | 2232 | 7 | 8664 | 53 | 6708 | 39 | 4811 | 29 | 6647 | 53 | 11186 | 3 | 12563 | 6 | 9515 | 25 | 8944 | 8 |
| 11 | JH-12114 | 7810 | 36 | 2456 | 1 | 9630 | 42 | 6632 | 41 | 5173 | 18 | 7554 | 30 | 8734 | 29 | 9343 | 44 | 9088 | 39 | 7979 | 36 |
| 12 | IDX-2901 | 8644 | 23 | 1340 | 49 | 12586 | 6 | 7523 | 10 | 4462 | 36 | 6780 | 49 | 8431 | 33 | 10105 | 37 | 8579 | 49 | 7671 | 42 |
| 13 | BMH-107 | 8267 | 27 | 1345 | 48 | 13971 | 1 | 7861 | 2 | 5945 | 6 | 7296 | 41 | 8434 | 32 | 10204 | 35 | 9255 | 37 | 8227 | 26 |
| 14 | BMH-109 | 8307 | 26 | 1712 | 22 | 13001 | 2 | 7673 | 5 | 4119 | 42 | 7529 | 31 | 8171 | 38 | 10024 | 39 | 9939 | 12 | 7956 | 37 |
| 15 | VMH-2000 | 7511 | 46 | 1759 | 19 | 11660 | 15 | 6977 | 26 | 3587 | 49 | 8540 | 1 | 7205 | 44 | 7646 | 55 | 8524 | 51 | 7101 | 54 |
| 16 | JCY2-7xHKI163-1 | 8025 | 32 | 1759 | 18 | 11153 | 19 | 6979 | 25 | 5501 | 9 | 7312 | 39 | 7966 | 40 | 10241 | 34 | 9017 | 41 | 8007 | 34 |
| 17 | HKI1126xHKI163-1 | 6695 | 54 | 890 | 55 | 10965 | 26 | 6183 | 50 | 4204 | 41 | 7651 | 27 | 6251 | 52 | 9210 | 46 | 9442 | 27 | 7352 | 47 |
| 18 | MCH-39 | 9072 | 17 | 1637 | 27 | 10277 | 34 | 6995 | 24 | 5327 | 12 | 8191 | 9 | 10856 | 4 | 12556 | 7 | 9362 | 32 | 9258 | 4 |
| 19 | MCH-40 | 11553 | 1 | 1678 | 25 | 10174 | 36 | 7802 | 3 | 4902 | 26 | 7898 | 17 | 10319 | 7 | 12381 | 9 | 9929 | 14 | 9086 | 6 |
| 20 | APSA-91 | 7753 | 38 | 1579 | 29 | 12131 | 8 | 7154 | 19 | 3721 | 47 | 8326 | 5 | 8868 | 23 | 9053 | 47 | 9995 | 9 | 7993 | 35 |
| 21 | GK-3060 | 8799 | 20 | 1672 | 26 | 11664 | 14 | 7378 | 13 | 4539 | 35 | 7755 | 24 | 8354 | 34 | 11047 | 20 | 8944 | 43 | 8128 | 29 |
| 22 | GK-3074 | 7599 | 42 | 1715 | 21 | 7555 | 55 | 5623 | 55 | 5240 | 14 | 5174 | 56 | 5926 | 54 | 10510 | 30 | 9375 | 31 | 7245 | 50 |
| 23 | GK-3076 | 7674 | 41 | 2195 | 8 | 11134 | 20 | 7001 | 23 | 5317 | 13 | 7990 | 14 | 8976 | 21 | 11191 | 19 | 9110 | 38 | 8517 | 19 |
| 24 | LAXMIGOLD | 7465 | 48 | 1530 | 34 | 10363 | 32 | 6453 | 43 | 4018 | 45 | 7429 | 36 | 9135 | 18 | 12454 | 8 | 9519 | 24 | 8511 | 20 |
| 25 | LAXMI405 | 8249 | 28 | 2058 | 9 | 12242 | 7 | 7516 | 11 | 4049 | 44 | 7876 | 18 | 6996 | 45 | 9040 | 49 | 9451 | 26 | 7482 | 46 |
| 26 | LAXMI288 | 8011 | 33 | 1090 | 54 | 10169 | 37 | 6423 | 44 | 4205 | 40 | 7445 | 35 | 6913 | 48 | 8670 | 50 | 8386 | 54 | 7124 | 53 |
| 27 | BISCO-74 | 9413 | 9 | 1698 | 23 | 9150 | 47 | 6754 | 36 | 5203 | 16 | 8025 | 12 | 8768 | 27 | 10533 | 29 | 10213 | 5 | 8548 | 18 |
| 28 | BISCO-574 | 9269 | 13 | 1372 | 45 | 10984 | 25 | 7208 | 16 | 3932 | 46 | 7487 | 33 | 6781 | 49 | 7954 | 54 | 9782 | 18 | 7187 | 51 |
| 29 | PAC-799 | 7469 | 47 | 1286 | 52 | 11515 | 17 | 6757 | 35 | 3615 | 48 | 8056 | 11 | 9175 | 17 | 10127 | 36 | 8093 | 56 | 7813 | 39 |
| 30 | BIO-265 | 8672 | 22 | 1524 | 35 | 11051 | 23 | 7082 | 20 | 5392 | 10 | 8428 | 2 | 8883 | 22 | 11416 | 15 | 8911 | 44 | 8606 | 16 |
| 31 | NMH-731 | 9592 | 7 | 1467 | 40 | 11399 | 18 | 7486 | 12 | 5110 | 21 | 8169 | 10 | 9480 | 16 | 9819 | 43 | 8807 | 46 | 8277 | 25 |
| 32 | NMH-920 | 10394 | 3 | 1847 | 17 | 12797 | 3 | 8346 | 1 | 3124 | 54 | 7609 | 28 | 9787 | 13 | 11223 | 18 | 8476 | 53 | 8044 | 32 |
| 33 | NMH-958 | 9881 | 5 | 2286 | 5 | 10525 | 30 | 7564 | 6 | 4927 | 25 | 7740 | 25 | 9855 | 11 | 12190 | 10 | 9406 | 30 | 8823 | 12 |
| 34 | AMAR6669 | 7718 | 40 | 1354 | 47 | 11792 | 11 | 6955 | 27 | 5783 | 7 | 7726 | 26 | 8834 | 25 | 12725 | 3 | 10083 | 8 | 9030 | 7 |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | |
|----------|----------------------|-------------------------------------|----|-------|----|-------|----|--------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|--------------|----|
| | | BAJA | | BARA | | KANG | | ZN 1 MEAN | | DELH | | KARN | | LUDH | | PANT | | KANP | | ZN 2 MEAN | |
| | | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | | |
| 35 | OM7878 | 8889 | 19 | 1937 | 14 | 10380 | 31 | 7069 | 21 | 4951 | 24 | 7309 | 40 | 8005 | 39 | 11572 | 13 | 9257 | 36 | 8219 | 27 |
| 36 | JKMH-8033 | 6228 | 56 | 2267 | 6 | 10294 | 33 | 6263 | 49 | 6887 | 3 | 8288 | 6 | 9103 | 19 | 11587 | 12 | 8849 | 45 | 8943 | 9 |
| 37 | JKMH-7005 | 7368 | 49 | 1532 | 33 | 12735 | 4 | 7212 | 15 | 4767 | 31 | 7493 | 32 | 10515 | 6 | 11517 | 14 | 10257 | 4 | 8910 | 10 |
| 38 | PRO-377 | 9504 | 8 | 1444 | 41 | 9566 | 44 | 6838 | 34 | 4853 | 28 | 8005 | 13 | 11318 | 1 | 12690 | 4 | 9823 | 16 | 9338 | 3 |
| 39 | PRO-378 | 9108 | 16 | 1560 | 31 | 11990 | 9 | 7553 | 8 | 5142 | 19 | 7157 | 45 | 9734 | 14 | 11345 | 16 | 9545 | 23 | 8585 | 17 |
| 40 | NK-6246 | 7753 | 37 | 1695 | 24 | 9418 | 46 | 6289 | 48 | 6155 | 5 | 7595 | 29 | 8811 | 26 | 9847 | 42 | 9638 | 22 | 8409 | 22 |
| 41 | NK-6267 | 9703 | 6 | 1524 | 36 | 9032 | 50 | 6753 | 37 | 5108 | 22 | 8216 | 8 | 10226 | 8 | 10665 | 28 | 9300 | 34 | 8703 | 14 |
| 42 | NK-6607 | 9062 | 18 | 2014 | 10 | 8875 | 52 | 6650 | 40 | 5386 | 11 | 7759 | 23 | 10069 | 9 | 10880 | 24 | 9948 | 11 | 8809 | 13 |
| 43 | NK-6617 | 9341 | 10 | 1572 | 30 | 9723 | 40 | 6879 | 31 | 5204 | 15 | 7100 | 46 | 8228 | 37 | 10815 | 26 | 10184 | 6 | 8306 | 24 |
| 44 | KMH-3670 | 7529 | 45 | 2394 | 3 | 9062 | 49 | 6328 | 46 | 3563 | 50 | 7466 | 34 | 8621 | 31 | 8188 | 53 | 8711 | 48 | 7310 | 48 |
| 45 | KMH-548 | 9318 | 12 | 1433 | 43 | 10001 | 39 | 6917 | 29 | 4552 | 34 | 7765 | 22 | 9991 | 10 | 11772 | 11 | 9021 | 40 | 8620 | 15 |
| 46 | X7A303 | 10100 | 4 | 1556 | 32 | 11021 | 24 | 7559 | 7 | 6246 | 4 | 7287 | 42 | 9815 | 12 | 13619 | 2 | 8533 | 50 | 9100 | 5 |
| 47 | X8B562 | 10498 | 2 | 1727 | 20 | 8969 | 51 | 7065 | 22 | 5760 | 8 | 7226 | 43 | 11255 | 2 | 13996 | 1 | 9935 | 13 | 9634 | 1 |
| 48 | KH-404 | 7719 | 39 | 1290 | 51 | 9075 | 48 | 6028 | 52 | 4442 | 37 | 5813 | 55 | 8749 | 28 | 9911 | 41 | 8971 | 42 | 7577 | 44 |
| 49 | MAIZEPOLO | 9116 | 15 | 1470 | 39 | 12722 | 5 | 7769 | 4 | 4070 | 43 | 7844 | 19 | 8649 | 30 | 10069 | 38 | 9438 | 28 | 8014 | 33 |
| 50 | C.-1950 | 8328 | 25 | 1272 | 53 | 10629 | 28 | 6743 | 38 | 3385 | 52 | 6677 | 52 | 6326 | 51 | 7372 | 56 | 9296 | 35 | 6611 | 56 |
| 51 | C.-1945 | 8032 | 31 | 1936 | 15 | 11932 | 10 | 7300 | 14 | 4564 | 33 | 6749 | 51 | 8248 | 36 | 10709 | 27 | 10167 | 7 | 8088 | 31 |
| 52 | KF-105 | 6765 | 53 | 1966 | 13 | 10201 | 35 | 6311 | 47 | 4617 | 32 | 7330 | 38 | 8847 | 24 | 11023 | 21 | 9799 | 17 | 8323 | 23 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 8515 | 24 | 1908 | 16 | 11086 | 22 | 7170 | 18 | 3540 | 51 | 7914 | 16 | 7611 | 41 | 10953 | 23 | 8517 | 52 | 7707 | 41 |
| 54 | SEEDTEC-2324 | 8707 | 21 | 1365 | 46 | 11520 | 16 | 7197 | 17 | 5126 | 20 | 6773 | 50 | 9069 | 20 | 9232 | 45 | 10478 | 2 | 8136 | 28 |
| 55 | HQPM-1 | 8221 | 29 | 1320 | 50 | 11102 | 21 | 6881 | 30 | 4287 | 38 | 6831 | 48 | 6755 | 50 | 10269 | 33 | 10484 | 1 | 7725 | 40 |
| 56 | HQPM-7 | 8145 | 30 | 1402 | 44 | 10140 | 38 | 6562 | 42 | 4254 | 39 | 6480 | 54 | 6971 | 46 | 11021 | 22 | 9347 | 33 | 7615 | 43 |
| | Location Mean | 8376 | | 1673 | | 10629 | | 6893 | | 4771 | | 7533 | | 8544 | | 10585 | | 9402 | | 8167 | |
| | Mean Stand | 29 | | 24 | | 32 | | 29 | | 36 | | 31 | | 39 | | 36 | | 36 | | 35 | |
| | C.D. (5%) | 1183 | | 1015 | | 1782 | | 1327 | | 941 | | 898 | | 1226 | | 2156 | | 1328 | | 1310 | |
| | C.V. (%) | 8.73 | | 37.49 | | 10.36 | | - | | 12.18 | | 7.36 | | 8.87 | | 12.59 | | 8.73 | | - | |
| | F (Prob) | 0 | | 0.367 | | 0 | | - | | 0 | | 0 | | 0 | | 0 | | 0.017 | | - | |
| | Plot Size | 3.6 | | 6 | | 4.8 | | - | | 5.6 | | 6 | | 5.2 | | 6 | | 4.8 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-07 | | 17-07 | | 7-07 | | - | | 7-06 | | 2-07 | | 8-07 | | 2-08 | | 14-07 | | - | |
| | Harvest Date | 12-11 | | - | | 5-10 | | - | | 10-12 | | 10-10 | | 20-10 | | 19-11 | | 5-11 | | - | |
| | Irrigation Nos | 3 | | - | | - | | - | | 4 | | 5 | | 7 | | - | | 2 | | - | |
| | Fertilizer Applied N | 120 | | - | | 120 | | - | | 150 | | 150 | | - | | 120 | | 80 | | - | |
| | Fertilizer Applied P | 60 | | - | | 60 | | - | | 75 | | 60 | | - | | 60 | | 40 | | - | |
| | Fertilizer Applied K | 40 | | - | | 40 | | - | | 75 | | 60 | | - | | 40 | | 40 | | - | |

TABLE NO. 1 (CONTD.)

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------------------|-------------------------------------|----|------|----|------|----|-------|----|------|----|------|----|------|----|------|----|------|----|-------|----|------|---|------|---|------|---|------|---|------|---|
| Sl | | BAHR | | | | DHOL | | | | JASH | | | | VARA | | | | AMBI | | | | ZN 3 | | ARBH | | HYDE | | KARI | | MAND | |
| No | PEDIGREE | | R | | R | | R | | R | | R | | R | | R | | R | | R | MEAN | R | | R | | R | | R | | R | | R |
| 1 | KNMH-40901 | 5383 | 18 | 5006 | 4 | 3585 | 52 | 8557 | 36 | 5693 | 48 | 5645 | 37 | 4620 | 51 | 3935 | 55 | 5629 | 22 | 6260 | 56 | | | | | | | | | | |
| 2 | KNMH-40902 | 4936 | 28 | 3287 | 55 | 3662 | 49 | 5011 | 55 | 4703 | 55 | 4320 | 55 | 4949 | 46 | 4511 | 47 | 4479 | 41 | 7750 | 48 | | | | | | | | | | |
| 3 | KNMH-40903 | 4664 | 32 | 3857 | 39 | 3288 | 54 | 4581 | 56 | 5103 | 54 | 4299 | 56 | 5170 | 44 | 6044 | 12 | 3712 | 52 | 6643 | 55 | | | | | | | | | | |
| 4 | KNMH-40904 | 4904 | 29 | 3206 | 56 | 3595 | 51 | 7314 | 49 | 4261 | 56 | 4656 | 54 | 4067 | 56 | 7809 | 2 | 4475 | 42 | 10428 | 13 | | | | | | | | | | |
| 5 | CMH08-154 | 6456 | 4 | 4314 | 18 | 6598 | 1 | 9097 | 33 | 7333 | 26 | 6760 | 10 | 7309 | 5 | 7299 | 3 | 4797 | 38 | 9766 | 20 | | | | | | | | | | |
| 6 | CMH08-156 | 5670 | 10 | 4434 | 16 | 5309 | 11 | 8108 | 44 | 6988 | 31 | 6102 | 24 | 5892 | 23 | 5851 | 20 | 5218 | 32 | 8941 | 34 | | | | | | | | | | |
| 7 | CMH08-282 | 5724 | 9 | 4869 | 7 | 6517 | 2 | 10878 | 9 | 7771 | 14 | 7152 | 3 | 6820 | 11 | 6132 | 11 | 7923 | 5 | 9296 | 29 | | | | | | | | | | |
| 8 | HKH-406 | 4482 | 36 | 3915 | 37 | 3651 | 50 | 8656 | 34 | 5224 | 53 | 5186 | 50 | 5605 | 32 | 3854 | 56 | 4866 | 36 | 9373 | 27 | | | | | | | | | | |
| 9 | HKH-407 | 4017 | 43 | 4111 | 33 | 4137 | 42 | 8455 | 37 | 5304 | 51 | 5205 | 48 | 5495 | 38 | 4240 | 53 | 4443 | 44 | 8380 | 40 | | | | | | | | | | |
| 10 | JH-12108 | 6402 | 5 | 4299 | 19 | 5787 | 5 | 12034 | 3 | 7479 | 21 | 7200 | 2 | 7549 | 2 | 5183 | 33 | 7927 | 4 | 9418 | 26 | | | | | | | | | | |
| 11 | JH-12114 | 5497 | 14 | 3958 | 35 | 4240 | 36 | 9903 | 23 | 7375 | 24 | 6194 | 23 | 5193 | 43 | 5577 | 24 | 5527 | 23 | 9472 | 25 | | | | | | | | | | |
| 12 | IDX-2901 | 6076 | 6 | 4137 | 29 | 5118 | 17 | 10113 | 19 | 7965 | 8 | 6682 | 11 | 5296 | 40 | 4876 | 41 | 5706 | 19 | 8593 | 37 | | | | | | | | | | |
| 13 | BMH-107 | 3982 | 45 | 4271 | 21 | 4161 | 40 | 9447 | 29 | 7071 | 28 | 5786 | 34 | 5526 | 36 | 6565 | 6 | 5674 | 21 | 10180 | 16 | | | | | | | | | | |
| 14 | BMH-109 | 6962 | 1 | 3691 | 44 | 4906 | 20 | 10664 | 11 | 8288 | 4 | 6902 | 7 | 4569 | 54 | 4353 | 50 | 5252 | 31 | 8390 | 39 | | | | | | | | | | |
| 15 | VMH-2000 | 4145 | 39 | 4688 | 12 | 3459 | 53 | 8229 | 41 | 5979 | 45 | 5300 | 46 | 5682 | 30 | 4600 | 45 | 6167 | 14 | 7894 | 46 | | | | | | | | | | |
| 16 | JCY2-7xHKI163-1 | 4092 | 40 | 4113 | 32 | 4623 | 27 | 8135 | 43 | 5904 | 46 | 5373 | 44 | 6130 | 17 | 4888 | 40 | 5375 | 27 | 7192 | 51 | | | | | | | | | | |
| 17 | HKI1126xHKI163-1 | 5083 | 23 | 4833 | 9 | 4133 | 43 | 6946 | 53 | 7425 | 22 | 5684 | 36 | 5564 | 34 | 4727 | 43 | 5167 | 33 | 6817 | 54 | | | | | | | | | | |
| 18 | MCH-39 | 5069 | 24 | 5749 | 1 | 5510 | 7 | 11557 | 5 | 7755 | 15 | 7128 | 4 | 6767 | 13 | 5012 | 36 | 7620 | 8 | 12373 | 2 | | | | | | | | | | |
| 19 | MCH-40 | 5190 | 21 | 4229 | 26 | 5310 | 10 | 10277 | 15 | 8286 | 5 | 6658 | 12 | 5338 | 39 | 4913 | 39 | 7732 | 6 | 12580 | 1 | | | | | | | | | | |
| 20 | APSA-91 | 4620 | 33 | 4268 | 22 | 3221 | 55 | 7767 | 48 | 6835 | 35 | 5342 | 45 | 5917 | 22 | 5883 | 19 | 4083 | 47 | 10876 | 7 | | | | | | | | | | |
| 21 | GK-3060 | 4462 | 37 | 3525 | 51 | 3734 | 48 | 9437 | 30 | 6555 | 39 | 5543 | 40 | 5822 | 25 | 5008 | 37 | 4767 | 39 | 10683 | 11 | | | | | | | | | | |
| 22 | GK-3074 | 3531 | 49 | 3661 | 48 | 2864 | 56 | 10680 | 10 | 6377 | 41 | 5423 | 41 | 6098 | 18 | 6371 | 7 | 4181 | 46 | 7961 | 44 | | | | | | | | | | |
| 23 | GK-3076 | 3370 | 52 | 4263 | 23 | 4644 | 25 | 9582 | 25 | 5224 | 52 | 5417 | 42 | 5255 | 42 | 4530 | 46 | 5113 | 34 | 7179 | 52 | | | | | | | | | | |
| 24 | LAXMIGOLD | 3621 | 48 | 4280 | 20 | 4856 | 21 | 9104 | 32 | 7170 | 27 | 5806 | 33 | 6999 | 10 | 5202 | 32 | 4728 | 40 | 12106 | 3 | | | | | | | | | | |
| 25 | LAXMI405 | 3445 | 51 | 4823 | 10 | 4126 | 44 | 8106 | 45 | 5456 | 50 | 5191 | 49 | 4850 | 48 | 4034 | 54 | 3530 | 54 | 10685 | 9 | | | | | | | | | | |
| 26 | LAXMI288 | 3866 | 46 | 4204 | 28 | 4237 | 37 | 8435 | 38 | 5626 | 49 | 5274 | 47 | 5584 | 33 | 4278 | 52 | 5267 | 30 | 9719 | 21 | | | | | | | | | | |
| 27 | BISCO-74 | 5048 | 27 | 3880 | 38 | 4448 | 32 | 11584 | 4 | 7917 | 9 | 6575 | 14 | 6789 | 12 | 5991 | 14 | 6021 | 16 | 8103 | 43 | | | | | | | | | | |
| 28 | BISCO-574 | 3059 | 53 | 3709 | 42 | 4094 | 45 | 8595 | 35 | 5989 | 44 | 5089 | 51 | 5795 | 26 | 4447 | 48 | 5368 | 28 | 10169 | 17 | | | | | | | | | | |
| 29 | PAC-799 | 2794 | 55 | 3552 | 50 | 5133 | 16 | 10132 | 18 | 6592 | 38 | 5640 | 38 | 6014 | 19 | 5396 | 28 | 3693 | 53 | 9254 | 31 | | | | | | | | | | |
| 30 | BIO-265 | 4029 | 41 | 4127 | 30 | 4649 | 24 | 8199 | 42 | 7700 | 16 | 5741 | 35 | 6185 | 15 | 7040 | 5 | 8206 | 1 | 11685 | 4 | | | | | | | | | | |
| 31 | NMH-731 | 5321 | 19 | 3679 | 46 | 4331 | 35 | 10920 | 7 | 7660 | 18 | 6382 | 15 | 6720 | 14 | 6247 | 9 | 5496 | 24 | 10350 | 15 | | | | | | | | | | |
| 32 | NMH-920 | 6736 | 2 | 4249 | 25 | 5167 | 14 | 10254 | 16 | 8431 | 2 | 6967 | 6 | 7842 | 1 | 5233 | 31 | 3903 | 48 | 9942 | 19 | | | | | | | | | | |
| 33 | NMH-958 | 5407 | 17 | 4252 | 24 | 4637 | 26 | 12661 | 1 | 7354 | 25 | 6862 | 8 | 7318 | 4 | 6021 | 13 | 7290 | 9 | 11634 | 5 | | | | | | | | | | |
| 34 | AMAR6669 | 3454 | 50 | 3356 | 53 | 4803 | 23 | 10491 | 13 | 7002 | 30 | 5821 | 30 | 7220 | 8 | 5720 | 21 | 4470 | 43 | 9645 | 22 | | | | | | | | | | |

TABLE NO. 1 (CONTD.)

| GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------------------|-------|----|-------|----|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|-------|----|-------|----|
| S1 | ZN 3 | | | | | | | | | | | | | | | | | | | | |
| No | PEDIGREE | BAHR | R | DHOL | R | JASH | R | VARA | R | AMBI | R | MEAN | R | ARBH | R | HYDE | R | KARI | R | MAND | R |
| 35 | OM7878 | 4503 | 35 | 5002 | 5 | 5142 | 15 | 9505 | 28 | 6960 | 32 | 6223 | 20 | 6185 | 16 | 4298 | 51 | 5427 | 26 | 8698 | 35 |
| 36 | JKMH-8033 | 4008 | 44 | 3667 | 47 | 4233 | 38 | 8257 | 40 | 7563 | 20 | 5546 | 39 | 4368 | 55 | 5564 | 25 | 6424 | 13 | 7751 | 47 |
| 37 | JKMH-7005 | 5524 | 13 | 4355 | 17 | 6088 | 3 | 10033 | 22 | 7848 | 11 | 6770 | 9 | 5161 | 45 | 5126 | 34 | 7216 | 10 | 10740 | 8 |
| 38 | PRO-377 | 3727 | 47 | 3815 | 40 | 5104 | 18 | 10206 | 17 | 6230 | 42 | 5816 | 31 | 5886 | 24 | 5598 | 23 | 7643 | 7 | 10370 | 14 |
| 39 | PRO-378 | 4399 | 38 | 5397 | 2 | 4835 | 22 | 10561 | 12 | 6712 | 36 | 6381 | 16 | 7261 | 7 | 5924 | 18 | 8043 | 2 | 11239 | 6 |
| 40 | NK-6246 | 5058 | 25 | 3566 | 49 | 4424 | 33 | 10414 | 14 | 8039 | 7 | 6300 | 18 | 5626 | 31 | 5983 | 15 | 6917 | 12 | 8401 | 38 |
| 41 | NK-6267 | 4877 | 30 | 4844 | 8 | 5911 | 4 | 9521 | 27 | 7831 | 12 | 6597 | 13 | 5695 | 29 | 8192 | 1 | 7933 | 3 | 8656 | 36 |
| 42 | NK-6607 | 5565 | 12 | 3997 | 34 | 4137 | 41 | 8059 | 46 | 8428 | 3 | 6037 | 27 | 5772 | 27 | 6192 | 10 | 4254 | 45 | 8211 | 41 |
| 43 | NK-6617 | 5420 | 16 | 4915 | 6 | 4549 | 30 | 7879 | 47 | 7564 | 19 | 6065 | 26 | 7145 | 9 | 7232 | 4 | 6138 | 15 | 9487 | 24 |
| 44 | KMH-3670 | 5098 | 22 | 3937 | 36 | 4078 | 46 | 9888 | 24 | 7416 | 23 | 6083 | 25 | 7277 | 6 | 5690 | 22 | 3768 | 50 | 10433 | 12 |
| 45 | KMH-548 | 5053 | 26 | 3810 | 41 | 4565 | 29 | 10894 | 8 | 6845 | 34 | 6234 | 19 | 5263 | 41 | 6285 | 8 | 5792 | 18 | 9015 | 33 |
| 46 | X7A303 | 6603 | 3 | 4658 | 13 | 5337 | 9 | 12225 | 2 | 8540 | 1 | 7472 | 1 | 5925 | 21 | 5033 | 35 | 4847 | 37 | 9600 | 23 |
| 47 | X8B562 | 5780 | 8 | 5044 | 3 | 5495 | 8 | 10920 | 6 | 8075 | 6 | 7063 | 5 | 7440 | 3 | 5335 | 29 | 7184 | 11 | 10684 | 10 |
| 48 | KH-404 | 5605 | 11 | 4605 | 14 | 4367 | 34 | 9364 | 31 | 7899 | 10 | 6368 | 17 | 4708 | 50 | 5450 | 27 | 5705 | 20 | 9249 | 32 |
| 49 | MAIZEPOLO | 5242 | 20 | 4773 | 11 | 3888 | 47 | 10065 | 21 | 7065 | 29 | 6207 | 22 | 5990 | 20 | 4646 | 44 | 4877 | 35 | 9304 | 28 |
| 50 | C.-1950 | 2395 | 56 | 3704 | 43 | 5240 | 12 | 6992 | 52 | 5807 | 47 | 4827 | 53 | 4869 | 47 | 4979 | 38 | 3745 | 51 | 7029 | 53 |
| 51 | C.-1945 | 4851 | 31 | 3460 | 52 | 5575 | 6 | 8285 | 39 | 6943 | 33 | 5823 | 29 | 4584 | 53 | 5963 | 16 | 3444 | 55 | 7641 | 49 |
| 52 | KF-105 | 5467 | 15 | 4115 | 31 | 4206 | 39 | 9575 | 26 | 7691 | 17 | 6211 | 21 | 4787 | 49 | 5936 | 17 | 3349 | 56 | 7938 | 45 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 4520 | 34 | 3307 | 54 | 4537 | 31 | 10096 | 20 | 6617 | 37 | 5815 | 32 | 4600 | 52 | 5307 | 30 | 3838 | 49 | 8177 | 42 |
| 54 | SEEDTEC-2324 | 5814 | 7 | 3691 | 45 | 4614 | 28 | 7178 | 50 | 7824 | 13 | 5824 | 28 | 5743 | 28 | 4426 | 49 | 5450 | 25 | 10034 | 18 |
| 55 | HQPM-1 | 3044 | 54 | 4213 | 27 | 5174 | 13 | 6617 | 54 | 6135 | 43 | 5036 | 52 | 5521 | 37 | 4733 | 42 | 5362 | 29 | 7453 | 50 |
| 56 | HQPM-7 | 4027 | 42 | 4551 | 15 | 4929 | 19 | 7107 | 51 | 6440 | 40 | 5411 | 43 | 5533 | 35 | 5564 | 26 | 5970 | 17 | 9271 | 30 |
| | Location Mean | 4787 | | 4183 | | 4624 | | 9242 | | 6933 | | 5954 | | 5844 | | 5451 | | 5485 | | 9270 | |
| | Mean Stand | 31 | | 30 | | 26 | | 37 | | 37 | | 32 | | 32 | | 32 | | 35 | | 34 | |
| | C.D. (5%) | 758 | | 1729 | | 407 | | 881 | | 1432 | | 1042 | | 1242 | | 1021 | | 512 | | 927 | |
| | C.V. (%) | 9.79 | | 25.55 | | 5.44 | | 5.89 | | 12.77 | | - | | 13.13 | | 11.58 | | 5.77 | | 6.18 | |
| | F (Prob) | 0 | | 0.72 | | 0 | | 0 | | 0 | | - | | 0 | | 0 | | 0 | | 0 | |
| | Plot Size | 4.8 | | 6 | | 4.8 | | 4.8 | | 6 | | - | | 6 | | 6 | | 6 | | 5.6 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-09 | | 10-07 | | 25-07 | | 19-07 | | 9-07 | | - | | 6-08 | | 8-07 | | 12-07 | | 24-07 | |
| | Harvest Date | 16-10 | | - | | 13-11 | | 25-10 | | - | | - | | 19-12 | | 22-11 | | 18-10 | | 12-10 | |
| | Irrigation Nos | - | | - | | - | | 2 | | - | | - | | 5 | | 2 | | - | | 6 | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 120 | | 120 | | - | | 150 | | 180 | | 200 | | 150 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | 60 | | - | | 75 | | 60 | | 80 | | 75 | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | 40 | | - | | 37.5 | | 50 | | 60 | | 40 | |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | |
|----------|------------------|-------------------------------------|----|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|
| | | COIM | | BANG POCB | | BANG JKAG | | BANG BAYE | | BANG GANG | | HYDE BIOS | | ZN 4 MEAN | |
| | | R | R | R | R | R | R | R | R | R | R | R | R | R | |
| 1 | KNMH-40901 | 9213 | 55 | 7693 | 54 | 8667 | 49 | 8186 | 50 | 9811 | 42 | 8513 | 9 | 7253 | 52 |
| 2 | KNMH-40902 | 8542 | 56 | 9082 | 43 | 6981 | 52 | 8171 | 51 | 7135 | 56 | 6084 | 53 | 6768 | 55 |
| 3 | KNMH-40903 | 9418 | 53 | 7287 | 55 | 6801 | 54 | 6880 | 55 | 7771 | 52 | 7286 | 37 | 6701 | 56 |
| 4 | KNMH-40904 | 9316 | 54 | 8471 | 49 | 6586 | 55 | 8197 | 49 | 7293 | 55 | 7114 | 42 | 7376 | 51 |
| 5 | CMH08-154 | 10370 | 46 | 9397 | 39 | 11747 | 29 | 11574 | 9 | 9562 | 44 | 9344 | 2 | 9116 | 25 |
| 6 | CMH08-156 | 11359 | 34 | 9870 | 33 | 11242 | 33 | 11748 | 6 | 9896 | 40 | 7533 | 26 | 8755 | 32 |
| 7 | CMH08-282 | 12300 | 25 | 11336 | 19 | 13273 | 19 | 12914 | 2 | 10223 | 34 | 7591 | 24 | 9781 | 12 |
| 8 | HKH-406 | 11160 | 39 | 10568 | 28 | 13702 | 17 | 7471 | 53 | 10408 | 30 | 7108 | 43 | 8412 | 36 |
| 9 | HKH-407 | 10663 | 43 | 8843 | 46 | 9429 | 46 | 6236 | 56 | 10928 | 19 | 7438 | 31 | 7609 | 50 |
| 10 | JH-12108 | 11789 | 29 | 7901 | 52 | 13822 | 16 | 11030 | 17 | 10044 | 37 | 7021 | 44 | 9168 | 23 |
| 11 | JH-12114 | 10068 | 50 | 7794 | 53 | 8262 | 50 | 8034 | 52 | 10031 | 38 | 7980 | 16 | 7794 | 48 |
| 12 | IDX-2901 | 9516 | 52 | 9298 | 41 | 11156 | 34 | 8482 | 47 | 10509 | 27 | 6681 | 47 | 8011 | 42 |
| 13 | BMH-107 | 12182 | 26 | 11683 | 14 | 11618 | 31 | 10961 | 19 | 10682 | 24 | 7195 | 40 | 9227 | 21 |
| 14 | BMH-109 | 13139 | 13 | 9665 | 36 | 10755 | 41 | 7336 | 54 | 10583 | 25 | 8456 | 10 | 8250 | 38 |
| 15 | VMH-2000 | 10845 | 42 | 8696 | 47 | 10954 | 37 | 9383 | 40 | 9454 | 45 | 6411 | 52 | 8009 | 43 |
| 16 | JCY2-7xHKI163-1 | 9521 | 51 | 9408 | 38 | 10828 | 39 | 10493 | 27 | 9790 | 43 | 6847 | 46 | 8047 | 41 |
| 17 | HKI1126xHKI163-1 | 10195 | 49 | 9992 | 32 | 10952 | 38 | 8795 | 43 | 10259 | 32 | 6479 | 51 | 7895 | 45 |
| 18 | MCH-39 | 15460 | 2 | 12912 | 7 | 12578 | 26 | 9892 | 33 | 10092 | 36 | 7356 | 32 | 10006 | 8 |
| 19 | MCH-40 | 13560 | 10 | 13898 | 2 | 13175 | 21 | 11741 | 7 | 11293 | 12 | 8746 | 5 | 10298 | 3 |
| 20 | APSA-91 | 11859 | 27 | 9493 | 37 | 14324 | 10 | 10885 | 21 | 10252 | 33 | 7356 | 33 | 9093 | 27 |
| 21 | GK-3060 | 13804 | 6 | 9842 | 34 | 13186 | 20 | 11159 | 16 | 10507 | 28 | 8938 | 4 | 9372 | 18 |
| 22 | GK-3074 | 11491 | 33 | 10072 | 31 | 9994 | 45 | 8347 | 48 | 7419 | 54 | 6545 | 49 | 7848 | 47 |
| 23 | GK-3076 | 11492 | 32 | 11813 | 11 | 10670 | 42 | 8715 | 45 | 10580 | 26 | 5844 | 55 | 8119 | 40 |
| 24 | LAXMIGOLD | 12341 | 22 | 9396 | 40 | 15548 | 4 | 11477 | 12 | 11356 | 10 | 7490 | 28 | 9664 | 13 |
| 25 | LAXMI405 | 12336 | 23 | 9765 | 35 | 10054 | 43 | 8510 | 46 | 8437 | 51 | 6561 | 48 | 7876 | 46 |
| 26 | LAXMI288 | 10332 | 47 | 10280 | 30 | 10780 | 40 | 9474 | 38 | 11412 | 7 | 7648 | 21 | 8477 | 35 |
| 27 | BISCO-74 | 13784 | 8 | 8867 | 45 | 15326 | 6 | 11673 | 8 | 9318 | 46 | 7703 | 20 | 9357 | 19 |
| 28 | BISCO-574 | 11225 | 36 | 8907 | 44 | 8972 | 48 | 10519 | 26 | 8814 | 48 | 8049 | 15 | 8227 | 39 |
| 29 | PAC-799 | 11679 | 31 | 11262 | 20 | 14047 | 14 | 10702 | 24 | 11068 | 15 | 7637 | 23 | 9075 | 28 |
| 30 | BIO-265 | 13794 | 7 | 11612 | 15 | 11433 | 32 | 9739 | 34 | 11308 | 11 | 10166 | 1 | 10117 | 7 |
| 31 | NMH-731 | 11175 | 38 | 12263 | 8 | 13663 | 18 | 9510 | 37 | 11173 | 14 | 9074 | 3 | 9567 | 14 |
| 32 | NMH-920 | 10877 | 41 | 11351 | 18 | 14476 | 9 | 10253 | 30 | 9812 | 41 | 8392 | 11 | 9208 | 22 |
| 33 | NMH-958 | 14798 | 3 | 13863 | 3 | 15146 | 8 | 11433 | 14 | 10829 | 22 | 8389 | 12 | 10672 | 1 |
| 34 | AMAR6669 | 13517 | 11 | 13393 | 5 | 14094 | 12 | 11797 | 5 | 11467 | 5 | 7492 | 27 | 9881 | 11 |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | |
|----------|---------------------|-------------------------------------|----|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|
| | | COIM | | BANG POCB | | BANG JKAG | | BANG BAYE | | BANG GANG | | HYDE BIOS | | ZN 4 MEAN | |
| | | R | R | R | R | R | R | R | R | R | R | R | R | R | |
| 35 | OM7878 | 12752 | 19 | 8581 | 48 | 12375 | 28 | 10778 | 23 | 10993 | 18 | 7706 | 19 | 8780 | 31 |
| 36 | JKMH-8033 | 11731 | 30 | 10666 | 26 | 4686 | 56 | 9693 | 35 | 11505 | 4 | 7482 | 29 | 7987 | 44 |
| 37 | JKMH-7005 | 12327 | 24 | 10454 | 29 | 12707 | 24 | 10342 | 29 | 10819 | 23 | 7475 | 30 | 9237 | 20 |
| 38 | PRO-377 | 12799 | 18 | 11234 | 21 | 15189 | 7 | 10959 | 20 | 11576 | 2 | 8623 | 6 | 9988 | 9 |
| 39 | PRO-378 | 12437 | 21 | 11808 | 12 | 15412 | 5 | 11509 | 11 | 10900 | 21 | 7252 | 38 | 10179 | 5 |
| 40 | NK-6246 | 13160 | 12 | 11150 | 22 | 16034 | 2 | 9512 | 36 | 11055 | 16 | 7731 | 18 | 9557 | 15 |
| 41 | NK-6267 | 12668 | 20 | 14360 | 1 | 12623 | 25 | 12493 | 4 | 11439 | 6 | 7185 | 41 | 10124 | 6 |
| 42 | NK-6607 | 12910 | 16 | 10592 | 27 | 12760 | 23 | 11549 | 10 | 11399 | 9 | 7348 | 35 | 9099 | 26 |
| 43 | NK-6617 | 10584 | 44 | 11000 | 24 | 14203 | 11 | 11444 | 13 | 9908 | 39 | 7356 | 34 | 9450 | 17 |
| 44 | KMH-3670 | 15864 | 1 | 13477 | 4 | 16580 | 1 | 11364 | 15 | 11266 | 13 | 8118 | 14 | 10384 | 2 |
| 45 | KMH-548 | 14563 | 5 | 12054 | 9 | 12556 | 27 | 10083 | 31 | 11516 | 3 | 8377 | 13 | 9550 | 16 |
| 46 | X7A303 | 13753 | 9 | 13244 | 6 | 13901 | 15 | 12767 | 3 | 11652 | 1 | 8542 | 8 | 9926 | 10 |
| 47 | X8B562 | 14794 | 4 | 11717 | 13 | 15711 | 3 | 14146 | 1 | 7615 | 53 | 7640 | 22 | 10227 | 4 |
| 48 | KH-404 | 11790 | 28 | 11438 | 17 | 12910 | 22 | 10072 | 32 | 10316 | 31 | 7575 | 25 | 8921 | 29 |
| 49 | MAIZEPOLO | 12813 | 17 | 10986 | 25 | 11734 | 30 | 10697 | 25 | 10916 | 20 | 7227 | 39 | 8919 | 30 |
| 50 | C.-1950 | 10515 | 45 | 7962 | 51 | 8035 | 51 | 9437 | 39 | 8777 | 49 | 6515 | 50 | 7186 | 53 |
| 51 | C.-1945 | 12916 | 14 | 11028 | 23 | 11088 | 35 | 10828 | 22 | 11412 | 8 | 5940 | 54 | 8484 | 34 |
| 52 | KF-105 | 12914 | 15 | 11912 | 10 | 10031 | 44 | 8716 | 44 | 10480 | 29 | 6925 | 45 | 8299 | 37 |
| | CHECKS | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 10203 | 48 | 8146 | 50 | 6838 | 53 | 9320 | 42 | 10154 | 35 | 5008 | 56 | 7159 | 54 |
| 54 | SEEDTEC-2324 | 11136 | 40 | 11502 | 16 | 14052 | 13 | 10992 | 18 | 11008 | 17 | 7329 | 36 | 9167 | 24 |
| 55 | HQPM-1 | 11185 | 37 | 6873 | 56 | 9343 | 47 | 9379 | 41 | 8772 | 50 | 8590 | 7 | 7721 | 49 |
| 56 | HQPM-7 | 11288 | 35 | 9187 | 42 | 10966 | 36 | 10479 | 28 | 8912 | 47 | 7945 | 17 | 8511 | 33 |
| | Location Mean | 11932 | | 10453 | | 11857 | | 10148 | | 10213 | | 7542 | | 8819 | |
| | Mean Stand | 32 | | 35 | | 33 | | 33 | | 32 | | 33 | | 33 | |
| | C.D. (5%) | 879 | | 2704 | | 2411 | | 1778 | | 381 | | 877 | | 1273 | |
| | C.V. (%) | 4.55 | | 15.99 | | 12.57 | | 10.83 | | 2.3 | | 7.18 | | - | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | - | |
| | Plot Size | 4.8 | | 4.8 | | 5.2 | | 5.1 | | 4 | | 4.8 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 16-07 | | 14-07 | | 22-07 | | 15-07 | | 7-07 | | 1-07 | | - | |
| | Harvest Date | 12-11 | | - | | 27-11 | | 3-11 | | 25-10 | | 30-10 | | - | |
| | Irrigation Nos | 10 | | 5 | | 4 | | - | | 4 | | 4 | | - | |
| | Ferilizer Applied N | 150 | | 120 | | 120 | | 160 | | 120 | | 150 | | - | |
| | Ferilizer Applied P | 75 | | 60 | | 60 | | 60 | | 60 | | 80 | | - | |
| | Ferilizer Applied K | 75 | | 40 | | 60 | | 40 | | 40 | | 60 | | - | |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|----|----------------------|-------------------------------------|----|-------|----|-------|----|------|----|------|----|-------|----|------|---|------|---|------|--|
| S1 | | UDAI | | | | BANS | | | | CHHI | | | | ZN 5 | | OV'L | | ZN 5 | |
| No | PEDIGREE | | R | | R | | R | | R | | R | MEAN | R | MEAN | R | GODH | R | | |
| 35 | OM7878 | 3530 | 48 | 4987 | 32 | 4573 | 42 | 4363 | 43 | 7473 | 31 | 5444 | 34 | | | | | | |
| 36 | JKMH-8033 | 5808 | 1 | 5614 | 25 | 4567 | 43 | 5329 | 17 | 7196 | 37 | 5719 | 22 | | | | | | |
| 37 | JKMH-7005 | 4241 | 31 | 4183 | 47 | 5014 | 35 | 4480 | 38 | 7917 | 16 | 4991 | 45 | | | | | | |
| 38 | PRO-377 | 4790 | 18 | 4796 | 39 | 5651 | 12 | 5079 | 25 | 8131 | 9 | 8163 | 1 | | | | | | |
| 39 | PRO-378 | 5482 | 5 | 6089 | 17 | 5547 | 16 | 5706 | 10 | 8323 | 8 | 5653 | 26 | | | | | | |
| 40 | NK-6246 | 3101 | 54 | 5110 | 29 | 8590 | 1 | 5600 | 13 | 7876 | 20 | 4536 | 52 | | | | | | |
| 41 | NK-6267 | 4983 | 14 | 5818 | 20 | 8556 | 2 | 6452 | 1 | 8360 | 5 | 7599 | 2 | | | | | | |
| 42 | NK-6607 | 5531 | 3 | 7577 | 3 | 5337 | 20 | 6148 | 3 | 7831 | 21 | 4559 | 51 | | | | | | |
| 43 | NK-6617 | 4548 | 22 | 3893 | 51 | 5316 | 21 | 4586 | 35 | 7721 | 24 | 5507 | 29 | | | | | | |
| 44 | KMH-3670 | 4760 | 19 | 5131 | 27 | 5254 | 24 | 5048 | 26 | 7882 | 19 | 6145 | 17 | | | | | | |
| 45 | KMH-548 | 3564 | 47 | 6379 | 11 | 5812 | 9 | 5252 | 19 | 7934 | 15 | 6746 | 11 | | | | | | |
| 46 | X7A303 | 3699 | 42 | 3422 | 54 | 5078 | 33 | 4067 | 52 | 8346 | 6 | 5272 | 38 | | | | | | |
| 47 | X8B562 | 4262 | 28 | 4021 | 49 | 5582 | 15 | 4622 | 34 | 8493 | 3 | 6721 | 13 | | | | | | |
| 48 | KH-404 | 4929 | 15 | 7337 | 5 | 5126 | 32 | 5797 | 8 | 7478 | 30 | 6870 | 8 | | | | | | |
| 49 | MAIZEPOLO | 5245 | 9 | 7183 | 7 | 5139 | 30 | 5855 | 7 | 7737 | 23 | 4969 | 46 | | | | | | |
| 50 | C.-1950 | 4048 | 35 | 4061 | 48 | 4489 | 44 | 4200 | 48 | 6226 | 54 | 5059 | 42 | | | | | | |
| 51 | C.-1945 | 4257 | 29 | 7812 | 2 | 5242 | 26 | 5770 | 9 | 7446 | 32 | 6881 | 6 | | | | | | |
| 52 | KF-105 | 4456 | 25 | 7942 | 1 | 4628 | 41 | 5675 | 11 | 7370 | 35 | 4088 | 55 | | | | | | |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 4484 | 24 | 4689 | 40 | 4075 | 46 | 4416 | 40 | 6691 | 49 | 5366 | 35 | | | | | | |
| 54 | SEEDTEC-2324 | 3236 | 53 | 6540 | 9 | 4887 | 38 | 4888 | 30 | 7605 | 26 | 5304 | 37 | | | | | | |
| 55 | HQPM-1 | 4867 | 17 | 4615 | 43 | 5300 | 22 | 4928 | 29 | 6786 | 46 | 6202 | 16 | | | | | | |
| 56 | HQPM-7 | 5126 | 12 | 6418 | 10 | 4999 | 36 | 5514 | 14 | 7172 | 38 | 5444 | 33 | | | | | | |
| | Location Mean | 4315 | | 5403 | | 5120 | | 4946 | | 7474 | | 5723 | | | | | | | |
| | Mean Stand | 28 | | 29 | | 39 | | 32 | | 33 | | 30 | | | | | | | |
| | C.D. (5%) | 557 | | 580 | | 711 | | 616 | | 1166 | | 1795 | | | | | | | |
| | C.V. (%) | 7.98 | | 6.64 | | 8.58 | | - | | - | | 19.38 | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | - | | - | | 0 | | | | | | | |
| | Plot Size | 4.8 | | 4.8 | | 6 | | - | | - | | 4.8 | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 11-07 | | 16-07 | | 14-07 | | - | | - | | 8-01 | | | | | | | |
| | Harvest Date | 9-10 | | 5-11 | | 20-11 | | - | | - | | 21-11 | | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | - | | - | | | | | | | |
| | Fertilizer Applied N | 90 | | 120 | | 120 | | - | | - | | 100 | | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 60 | | - | | - | | 50 | | | | | | | |
| | Fertilizer Applied K | - | | - | | 40 | | - | | - | | 50 | | | | | | | |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | | | | | | | |
|-------|------------------|---|------|------|--------------|-------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA |
| 1 | KNMH-40901 | - | - | - | - | 34.7 | - | - | - | 16.1 | 2.8 | 19.1 | 51.4 | - | - |
| 2 | KNMH-40902 | - | - | - | - | - | 4.1 | - | - | 22.1 | - | 9.2 | - | - | - |
| 3 | KNMH-40903 | - | 3.5 | - | - | 37.4 | - | - | - | 14.5 | - | 3.2 | 16.7 | - | - |
| 4 | KNMH-40904 | - | - | - | - | 46.7 | 5.4 | - | - | 13.3 | 5.2 | 8.5 | - | - | - |
| 5 | CMH08-154 | - | 27.9 | - | - | 102.6 | - | 26.5 | - | 13.2 | 14.9 | 42.8 | 30.5 | 45.4 | - |
| 6 | CMH08-156 | - | - | 5.7 | - | 41.7 | 6.4 | 8.6 | 3 | 10.8 | 10.1 | 25.4 | 34.1 | 17 | - |
| 7 | CMH08-282 | 9.7 | - | 6.1 | 5 | 115.7 | - | 39.2 | 14.8 | - | 21.8 | 26.6 | 47.2 | 43.6 | 7.7 |
| 8 | HKH-406 | - | 5.4 | - | - | - | 0.6 | - | - | 17.1 | - | - | 18.4 | - | - |
| 9 | HKH-407 | - | 21.5 | - | - | - | - | - | - | 3 | - | - | 24.3 | - | - |
| 10 | JH-12108 | 8.4 | 17 | - | - | 35.9 | - | 47 | 14.7 | 11.7 | 16.1 | 41.6 | 30 | 27.5 | 19.2 |
| 11 | JH-12114 | - | 28.7 | - | - | 46.2 | - | 14.8 | - | 6.7 | 3.5 | 21.6 | 19.7 | - | - |
| 12 | IDX-2901 | 1.5 | - | 13.5 | 4.9 | 26.1 | - | 10.8 | - | 0.7 | - | 34.4 | 25.1 | 12.8 | 0.2 |
| 13 | BMH-107 | - | - | 26 | 9.6 | 68 | - | 10.8 | - | 8.7 | 6.7 | - | 29.2 | - | - |
| 14 | BMH-109 | - | - | 17.3 | 7 | 16.4 | - | 7.4 | - | 16.7 | 3.2 | 54 | 11.6 | 8.1 | 5.6 |
| 15 | VMH-2000 | - | - | 5.2 | - | 1.3 | 7.9 | - | - | 0.1 | - | - | 41.8 | - | - |
| 16 | JCY2-7xHKI163-1 | - | - | 0.6 | - | 55.4 | - | 4.7 | - | 5.9 | 3.9 | - | 24.4 | 1.9 | - |
| 17 | HKI1126xHKI163-1 | - | - | - | - | 18.8 | - | - | - | 10.9 | - | 12.5 | 46.1 | - | - |
| 18 | MCH-39 | 6.5 | - | - | - | 50.5 | 3.5 | 42.6 | 14.6 | 9.9 | 20.1 | 12.1 | 73.9 | 21.4 | 14.5 |
| 19 | MCH-40 | 35.7 | - | - | 8.8 | 38.5 | - | 35.6 | 13 | 16.6 | 17.9 | 14.8 | 27.9 | 17 | 1.8 |
| 20 | APSA-91 | - | - | 9.4 | - | 5.1 | 5.2 | 16.5 | - | 17.3 | 3.7 | 2.2 | 29.1 | - | - |
| 21 | GK-3060 | 3.3 | - | 5.2 | 2.9 | 28.2 | - | 9.8 | 0.9 | 5 | 5.5 | - | 6.6 | - | - |
| 22 | GK-3074 | - | - | - | - | 48 | - | - | - | 10.1 | - | - | 10.7 | - | 5.8 |
| 23 | GK-3076 | - | 15 | 0.4 | - | 50.2 | 1 | 17.9 | 2.2 | 7 | 10.5 | - | 28.9 | 2.4 | - |
| 24 | LAXMIGOLD | - | - | - | - | 13.5 | - | 20 | 13.7 | 11.8 | 10.4 | - | 29.4 | 7 | - |
| 25 | LAXMI405 | - | 7.8 | 10.4 | 4.8 | 14.4 | - | - | - | 11 | - | - | 45.9 | - | - |
| 26 | LAXMI288 | - | - | - | - | 18.8 | - | - | - | - | - | - | 27.2 | - | - |
| 27 | BISCO-74 | 10.5 | - | - | - | 47 | 1.4 | 15.2 | - | 19.9 | 10.9 | 11.7 | 17.3 | - | 14.7 |
| 28 | BISCO-574 | 8.9 | - | - | 0.5 | 11.1 | - | - | - | 14.9 | - | - | 12.2 | - | - |
| 29 | PAC-799 | - | - | 3.9 | - | 2.1 | 1.8 | 20.5 | - | - | 1.4 | - | 7.4 | 13.1 | 0.4 |
| 30 | BIO-265 | 1.8 | - | - | - | 52.3 | 6.5 | 16.7 | 4.2 | 4.6 | 11.7 | - | 24.8 | 2.5 | - |

TABLE NO. 1 (CONTD.)

GRAIN YIELD % SUPERIORITY OVER THE BIO-9681

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

TABLE NO. 1 (CONTD.)

GRAIN YIELD % SUPERIORITY OVER THE BIO-9681

| S1 No | PEDIGREE | AMBI | ZN 3 MEAN | ARBH | HYDE | KARI | MAND | COIM | BANG POCB | BANG JKAG | BANG BAYE | BANG GANG | HYDE BIOS | ZN 4 MEAN |
|-------|------------------|------|-----------|------|------|-------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | KNMH-40901 | - | - | 0.4 | - | 46.7 | - | - | - | 26.8 | - | - | 70 | 1.3 |
| 2 | KNMH-40902 | - | - | 7.6 | - | 16.7 | - | - | 11.5 | 2.1 | - | - | 21.5 | - |
| 3 | KNMH-40903 | - | - | 12.4 | 13.9 | - | - | - | - | - | - | - | 45.5 | - |
| 4 | KNMH-40904 | - | - | - | 47.2 | 16.6 | 27.5 | - | 4 | - | - | - | 42 | 3 |
| 5 | CMH08-154 | 10.8 | 16.2 | 58.9 | 37.5 | 25 | 19.4 | 1.6 | 15.4 | 71.8 | 24.2 | - | 86.6 | 27.3 |
| 6 | CMH08-156 | 5.6 | 4.9 | 28.1 | 10.3 | 36 | 9.3 | 11.3 | 21.2 | 64.4 | 26 | - | 50.4 | 22.3 |
| 7 | CMH08-282 | 17.4 | 23 | 48.2 | 15.5 | 106.5 | 13.7 | 20.6 | 39.2 | 94.1 | 38.6 | 0.7 | 51.6 | 36.6 |
| 8 | HKH-406 | - | - | 21.8 | - | 26.8 | 14.6 | 9.4 | 29.7 | 100.4 | - | 2.5 | 41.9 | 17.5 |
| 9 | HKH-407 | - | - | 19.4 | - | 15.8 | 2.5 | 4.5 | 8.6 | 37.9 | - | 7.6 | 48.5 | 6.3 |
| 10 | JH-12108 | 13 | 23.8 | 64.1 | - | 106.6 | 15.2 | 15.6 | - | 102.2 | 18.3 | - | 40.2 | 28.1 |
| 11 | JH-12114 | 11.4 | 6.5 | 12.9 | 5.1 | 44 | 15.8 | - | - | 20.8 | - | - | 59.3 | 8.9 |
| 12 | IDX-2901 | 20.4 | 14.9 | 15.1 | - | 48.7 | 5.1 | - | 14.2 | 63.2 | - | 3.5 | 33.4 | 11.9 |
| 13 | BMH-107 | 6.9 | - | 20.1 | 23.7 | 47.9 | 24.5 | 19.4 | 43.4 | 69.9 | 17.6 | 5.2 | 43.7 | 28.9 |
| 14 | BMH-109 | 25.2 | 18.7 | - | - | 36.8 | 2.6 | 28.8 | 18.7 | 57.3 | - | 4.2 | 68.8 | 15.2 |
| 15 | VMH-2000 | - | - | 23.5 | - | 60.7 | - | 6.3 | 6.8 | 60.2 | 0.7 | - | 28 | 11.9 |
| 16 | JCY2-7xHKI163-1 | - | - | 33.2 | - | 40 | - | - | 15.5 | 58.4 | 12.6 | - | 36.7 | 12.4 |
| 17 | HKI1126xHKI163-1 | 12.2 | - | 20.9 | - | 34.6 | - | - | 22.7 | 60.2 | - | 1 | 29.4 | 10.3 |
| 18 | MCH-39 | 17.2 | 22.6 | 47.1 | - | 98.6 | 51.3 | 51.5 | 58.5 | 84 | 6.1 | - | 46.9 | 39.8 |
| 19 | MCH-40 | 25.2 | 14.5 | 16 | - | 101.5 | 53.8 | 32.9 | 70.6 | 92.7 | 26 | 11.2 | 74.6 | 43.8 |
| 20 | APSA-91 | 3.3 | - | 28.6 | 10.9 | 6.4 | 33 | 16.2 | 16.5 | 109.5 | 16.8 | 1 | 46.9 | 27 |
| 21 | GK-3060 | - | - | 26.6 | - | 24.2 | 30.6 | 35.3 | 20.8 | 92.9 | 19.7 | 3.5 | 78.5 | 30.9 |
| 22 | GK-3074 | - | - | 32.5 | 20.1 | 8.9 | - | 12.6 | 23.6 | 46.2 | - | - | 30.7 | 9.6 |
| 23 | GK-3076 | - | - | 14.2 | - | 33.2 | - | 12.6 | 45 | 56 | - | 4.2 | 16.7 | 13.4 |
| 24 | LAXMIGOLD | 8.4 | - | 52.2 | - | 23.2 | 48 | 21 | 15.3 | 127.4 | 23.1 | 11.8 | 49.5 | 35 |
| 25 | LAXMI405 | - | - | 5.4 | - | - | 30.7 | 20.9 | 19.9 | 47 | - | - | 31 | 10 |
| 26 | LAXMI288 | - | - | 21.4 | - | 37.2 | 18.8 | 1.3 | 26.2 | 57.7 | 1.6 | 12.4 | 52.7 | 18.4 |
| 27 | BISCO-74 | 19.6 | 13.1 | 47.6 | 12.9 | 56.9 | - | 35.1 | 8.9 | 124.1 | 25.2 | - | 53.8 | 30.7 |
| 28 | BISCO-574 | - | - | 26 | - | 39.9 | 24.4 | 10 | 9.3 | 31.2 | 12.9 | - | 60.7 | 14.9 |
| 29 | PAC-799 | - | - | 30.7 | 1.7 | - | 13.2 | 14.5 | 38.3 | 105.4 | 14.8 | 9 | 52.5 | 26.8 |
| 30 | BIO-265 | 16.4 | - | 34.4 | 32.7 | 113.8 | 42.9 | 35.2 | 42.6 | 67.2 | 4.5 | 11.4 | 103 | 41.3 |

TABLE NO. 1 (CONTD.)

| GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | | | | | | | | |
|---|--------------|------|------|------|------|-------|------|------|------|-------|------|------|------|------|
| S1 | | ZN 3 | | | | | | | BANG | BANG | BANG | BANG | HYDE | ZN 4 |
| No | PEDIGREE | AMBI | MEAN | ARBH | HYDE | KARI | MAND | COIM | POCB | JKAG | BAYE | GANG | BIOS | MEAN |
| 31 | NMH-731 | 15.8 | 9.7 | 46.1 | 17.7 | 43.2 | 26.6 | 9.5 | 50.6 | 99.8 | 2 | 10 | 81.2 | 33.6 |
| 32 | NMH-920 | 27.4 | 19.8 | 70.5 | - | 1.7 | 21.6 | 6.6 | 39.4 | 111.7 | 10 | - | 67.5 | 28.6 |
| 33 | NMH-958 | 11.1 | 18 | 59.1 | 13.5 | 90 | 42.3 | 45 | 70.2 | 121.5 | 22.7 | 6.6 | 67.5 | 49.1 |
| 34 | AMAR6669 | 5.8 | 0.1 | 56.9 | 7.8 | 16.5 | 17.9 | 32.5 | 64.4 | 106.1 | 26.6 | 12.9 | 49.6 | 38 |
| 35 | OM7878 | 5.2 | 7 | 34.4 | - | 41.4 | 6.4 | 25 | 5.4 | 81 | 15.6 | 8.3 | 53.9 | 22.6 |
| 36 | JKMH-8033 | 14.3 | - | - | 4.9 | 67.4 | - | 15 | 30.9 | - | 4 | 13.3 | 49.4 | 11.6 |
| 37 | JKMH-7005 | 18.6 | 16.4 | 12.2 | - | 88 | 31.3 | 20.8 | 28.3 | 85.8 | 11 | 6.5 | 49.3 | 29 |
| 38 | PRO-377 | - | 0 | 27.9 | 5.5 | 99.1 | 26.8 | 25.4 | 37.9 | 122.1 | 17.6 | 14 | 72.2 | 39.5 |
| 39 | PRO-378 | 1.4 | 9.7 | 57.8 | 11.6 | 109.6 | 37.4 | 21.9 | 45 | 125.4 | 23.5 | 7.3 | 44.8 | 42.2 |
| 40 | NK-6246 | 21.5 | 8.3 | 22.3 | 12.7 | 80.2 | 2.7 | 29 | 36.9 | 134.5 | 2.1 | 8.9 | 54.4 | 33.5 |
| 41 | NK-6267 | 18.3 | 13.4 | 23.8 | 54.4 | 106.7 | 5.9 | 24.2 | 76.3 | 84.6 | 34 | 12.6 | 43.5 | 41.4 |
| 42 | NK-6607 | 27.4 | 3.8 | 25.5 | 16.7 | 10.8 | 0.4 | 26.5 | 30 | 86.6 | 23.9 | 12.3 | 46.7 | 27.1 |
| 43 | NK-6617 | 14.3 | 4.3 | 55.3 | 36.3 | 59.9 | 16 | 3.7 | 35 | 107.7 | 22.8 | - | 46.9 | 32 |
| 44 | KMH-3670 | 12.1 | 4.6 | 58.2 | 7.2 | - | 27.6 | 55.5 | 65.5 | 142.5 | 21.9 | 10.9 | 62.1 | 45 |
| 45 | KMH-548 | 3.4 | 7.2 | 14.4 | 18.4 | 50.9 | 10.2 | 42.7 | 48 | 83.6 | 8.2 | 13.4 | 67.3 | 33.4 |
| 46 | X7A303 | 29 | 28.5 | 28.8 | - | 26.3 | 17.4 | 34.8 | 62.6 | 103.3 | 37 | 14.8 | 70.5 | 38.7 |
| 47 | X8B562 | 22 | 21.4 | 61.7 | 0.5 | 87.2 | 30.7 | 45 | 43.8 | 129.8 | 51.8 | - | 52.5 | 42.8 |
| 48 | KH-404 | 19.4 | 9.5 | 2.4 | 2.7 | 48.7 | 13.1 | 15.6 | 40.4 | 88.8 | 8.1 | 1.6 | 51.3 | 24.6 |
| 49 | MAIZEPOLO | 6.8 | 6.7 | 30.2 | - | 27.1 | 13.8 | 25.6 | 34.9 | 71.6 | 14.8 | 7.5 | 44.3 | 24.6 |
| 50 | C.-1950 | - | - | 5.8 | - | - | - | 3.1 | - | 17.5 | 1.2 | - | 30.1 | 0.4 |
| 51 | C.-1945 | 4.9 | 0.1 | - | 12.4 | - | - | 26.6 | 35.4 | 62.2 | 16.2 | 12.4 | 18.6 | 18.5 |
| 52 | KF-105 | 16.2 | 6.8 | 4.1 | 11.9 | - | - | 26.6 | 46.2 | 46.7 | - | 3.2 | 38.3 | 15.9 |
| | CHECKS | | | | | | | | | | | | | |
| 53 | BIO-9681 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 54 | SEEDTEC-2324 | 18.2 | 0.2 | 24.8 | - | 42 | 22.7 | 9.1 | 41.2 | 105.5 | 17.9 | 8.4 | 46.3 | 28.1 |
| 55 | HQPM-1 | - | - | 20 | - | 39.7 | - | 9.6 | - | 36.6 | 0.6 | - | 71.5 | 7.8 |
| 56 | HQPM-7 | - | - | 20.3 | 4.9 | 55.6 | 13.4 | 10.6 | 12.8 | 60.4 | 12.4 | - | 58.6 | 18.9 |

TABLE NO. 1 (CONTD.)

| GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | |
|---|------------------|------|------|------|--------------|--------------|--------------|
| S1 No | PEDIGREE | UDAI | BANS | CHHI | ZN 5 MEAN | OV'L MEAN | ZN 5 GODH |
| 1 | KNMH-40901 | - | 30.8 | - | - | - | 21.6 |
| 2 | KNMH-40902 | - | - | - | - | - | - |
| 3 | KNMH-40903 | - | 6.1 | - | - | - | 5.5 |
| 4 | KNMH-40904 | - | - | - | - | - | - |
| 5 | CMH08-154 | - | 30.9 | 23.7 | 16.3 | 18.1 | - |
| 6 | CMH08-156 | 24.3 | - | 40.8 | 12.1 | 12.6 | 9.6 |
| 7 | CMH08-282 | - | 2.7 | 27.5 | 2 | 24.5 | - |
| 8 | HKH-406 | - | 18.1 | - | - | 3 | 12 |
| 9 | HKH-407 | - | 24 | 20.3 | - | - | 4.1 |
| 10 | JH-12108 | 13.2 | 33.1 | 68.3 | 37.2 | 21.1 | 27.7 |
| 11 | JH-12114 | 19.3 | - | - | - | 4.1 | 25.3 |
| 12 | IDX-2901 | - | 9.2 | 38 | 8.7 | 8.6 | - |
| 13 | BMH-107 | 14.9 | 56.4 | 26 | 33 | 17 | 6 |
| 14 | BMH-109 | - | 23.6 | 5.1 | - | 10.8 | 9.3 |
| 15 | VMH-2000 | - | - | 35.3 | - | 0.9 | 28.2 |
| 16 | JCY2-7xHKI163-1 | 21.8 | 4.6 | 28.9 | 17.9 | 5.7 | 34.1 |
| 17 | HKI1126xHKI163-1 | - | - | 37.3 | 3.2 | 1.4 | - |
| 18 | MCH-39 | - | 49.2 | 84.9 | 38.8 | 27.3 | - |
| 19 | MCH-40 | - | 8.9 | 69.7 | 17.9 | 26.9 | 8.7 |
| 20 | APSA-91 | - | - | 42.6 | 8.9 | 11.2 | 2.3 |
| 21 | GK-3060 | 0.4 | - | 17.5 | - | 13.5 | - |
| 22 | GK-3074 | 21.9 | 26.5 | - | 13.2 | - | - |
| 23 | GK-3076 | - | 6.9 | 27.2 | 5.5 | 6.8 | 4.9 |
| 24 | LAXMIGOLD | - | 22.3 | - | - | 15.3 | 40.1 |
| 25 | LAXMI405 | 2.3 | 6 | - | 1.3 | 2.4 | - |
| 26 | LAXMI288 | - | - | 28.3 | - | 2.5 | 1.9 |
| 27 | BISCO-74 | - | 22.1 | 48.2 | 19.6 | 18 | 2.3 |
| 28 | BISCO-574 | - | 4.5 | - | - | 2.3 | 32.9 |
| 29 | PAC-799 | 3.3 | 58.5 | 18.2 | 27.4 | 12.2 | - |
| 30 | BIO-265 | - | 29.5 | 62.5 | 23.5 | 21 | 6.4 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | | | | | |
|----------|------------------|---|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA |
| 1 | KNMH-40901 | - | - | - | - | - | 6.2 | - | 11.7 | - | - | - | 35.6 | - | 19.2 |
| 2 | KNMH-40902 | - | 5.8 | - | - | - | 21.6 | - | - | - | - | - | - | - | - |
| 3 | KNMH-40903 | - | 44.7 | - | - | - | 15.4 | - | - | - | - | 4.5 | - | - | |
| 4 | KNMH-40904 | - | 8.4 | - | - | 1.3 | 23.1 | - | 12.7 | - | - | - | - | 1.9 | |
| 5 | CMH08-154 | - | 78.8 | - | - | 39.9 | 2.9 | 6.1 | 17.6 | - | 8.8 | 11 | 16.9 | 43 | 26.7 |
| 6 | CMH08-156 | - | 18.7 | 1.7 | - | - | 24.3 | - | 22.2 | - | 4.3 | - | 20.1 | 15.1 | 13 |
| 7 | CMH08-282 | 7.2 | 9.5 | 2.1 | 4.6 | 48.9 | 15.2 | 16.8 | 36.3 | - | 15.4 | - | 31.9 | 41.2 | 51.5 |
| 8 | HKH-406 | - | 47.4 | - | - | - | 17.5 | - | - | - | - | - | 6.1 | - | 20.6 |
| 9 | HKH-407 | - | 69.8 | - | - | - | 9.5 | - | 8.5 | - | - | - | 11.4 | - | 17.8 |
| 10 | JH-12108 | 6 | 63.6 | - | - | - | - | 23.3 | 36.1 | - | 9.9 | 10.1 | 16.5 | 25.4 | 67.6 |
| 11 | JH-12114 | - | 80 | - | - | 0.9 | 11.5 | - | 1.2 | - | - | - | 7.2 | - | 38 |
| 12 | IDX-2901 | - | - | 9.3 | 4.5 | - | 0.1 | - | 9.5 | - | - | 4.5 | 12.1 | 10.9 | 40.9 |
| 13 | BMH-107 | - | - | 21.3 | 9.2 | 16 | 7.7 | - | 10.5 | - | 1.1 | - | 15.7 | - | 31.6 |
| 14 | BMH-109 | - | 25.4 | 12.9 | 6.6 | - | 11.2 | - | 8.6 | - | - | 19.7 | 0 | 6.3 | 48.6 |
| 15 | VMH-2000 | - | 28.9 | 1.2 | - | - | 26.1 | - | - | - | - | - | 27 | - | 14.6 |
| 16 | JCY2-7xHKI163-1 | - | 28.9 | - | - | 7.3 | 8 | - | 10.9 | - | - | - | 11.4 | 0.2 | 13.3 |
| 17 | HKI1126xHKI163-1 | - | - | - | - | - | 13 | - | - | - | - | - | 30.9 | - | - |
| 18 | MCH-39 | 4.2 | 20 | - | - | 3.9 | 20.9 | 19.7 | 36 | - | 13.8 | - | 55.8 | 19.4 | 61 |
| 19 | MCH-40 | 32.7 | 23 | - | 8.4 | - | 16.6 | 13.8 | 34.1 | - | 11.7 | - | 14.6 | 15.1 | 43.2 |
| 20 | APSA-91 | - | 15.7 | 5.3 | - | - | 22.9 | - | - | - | - | - | 15.6 | - | 8.2 |
| 21 | GK-3060 | 1.1 | 22.5 | 1.2 | 2.5 | - | 14.5 | - | 19.7 | - | - | - | - | - | 31.5 |
| 22 | GK-3074 | - | 25.7 | - | - | 2.2 | - | - | 13.8 | - | - | - | - | - | 48.8 |
| 23 | GK-3076 | - | 60.8 | - | - | 3.7 | 18 | - | 21.2 | - | 4.7 | - | 15.5 | 0.6 | 33.5 |
| 24 | LAXMIGOLD | - | 12.1 | - | - | - | 9.7 | 0.7 | 34.9 | - | 4.6 | - | 16 | 5.2 | 26.8 |
| 25 | LAXMI405 | - | 50.8 | 6.3 | 4.4 | - | 16.3 | - | - | - | - | - | 30.7 | - | 12.9 |
| 26 | LAXMI288 | - | - | - | - | - | 9.9 | - | - | - | - | - | 13.9 | - | 17.5 |
| 27 | BISCO-74 | 8.1 | 24.4 | - | - | 1.5 | 18.5 | - | 14.1 | - | 5.1 | - | 5.1 | - | 61.4 |
| 28 | BISCO-574 | 6.5 | 0.5 | - | 0.2 | - | 10.5 | - | - | - | - | - | 0.5 | - | 19.7 |
| 29 | PAC-799 | - | - | - | - | - | 18.9 | 1.2 | 9.7 | - | - | - | - | 11.2 | 41.1 |
| 30 | BIO-265 | - | 11.7 | - | - | 5.2 | 24.4 | - | 23.7 | - | 5.8 | - | 11.8 | 0.7 | 14.2 |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | | | | | |
|-------|--------------|---|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA |
| 31 | NMH-731 | 10.2 | 7.5 | - | 4 | - | 20.6 | 4.5 | 6.4 | - | 1.7 | - | - | - | 52.1 |
| 32 | NMH-920 | 19.4 | 35.4 | 11.1 | 16 | - | 12.3 | 7.9 | 21.6 | - | - | 15.9 | 15.1 | 12 | 42.8 |
| 33 | NMH-958 | 13.5 | 67.5 | - | 5.1 | - | 14.3 | 8.7 | 32 | - | 8.5 | - | 15.2 | 0.5 | 76.4 |
| 34 | AMAR6669 | - | - | 2.4 | - | 12.8 | 14.1 | - | 37.8 | - | 11 | - | - | 4.1 | 46.2 |
| 35 | OM7878 | 2.1 | 41.9 | - | - | - | 7.9 | - | 25.4 | - | 1 | - | 35.5 | 11.4 | 32.4 |
| 36 | JKMH-8033 | - | 66.1 | - | - | 34.3 | 22.4 | 0.4 | 25.5 | - | 9.9 | - | - | - | 15 |
| 37 | JKMH-7005 | - | 12.3 | 10.5 | 0.2 | - | 10.6 | 16 | 24.8 | - | 9.5 | - | 18 | 31.9 | 39.8 |
| 38 | PRO-377 | 9.1 | 5.8 | - | - | - | 18.2 | 24.8 | 37.5 | - | 14.8 | - | 3.4 | 10.6 | 42.2 |
| 39 | PRO-378 | 4.6 | 14.3 | 4.1 | 4.9 | 0.3 | 5.7 | 7.3 | 22.9 | - | 5.5 | - | 46.2 | 4.8 | 47.1 |
| 40 | NK-6246 | - | 24.2 | - | - | 20.1 | 12.1 | - | 6.7 | - | 3.4 | - | - | - | 45.1 |
| 41 | NK-6267 | 11.4 | 11.7 | - | - | - | 21.3 | 12.8 | 15.5 | - | 7 | - | 31.2 | 28.1 | 32.6 |
| 42 | NK-6607 | 4.1 | 47.6 | - | - | 5.1 | 14.6 | 11 | 17.9 | - | 8.3 | - | 8.3 | - | 12.3 |
| 43 | NK-6617 | 7.3 | 15.2 | - | - | 1.5 | 4.8 | - | 17.1 | - | 2.1 | - | 33.2 | - | 9.8 |
| 44 | KMH-3670 | - | 75.4 | - | - | - | 10.2 | - | - | - | - | - | 6.7 | - | 37.7 |
| 45 | KMH-548 | 7 | 5 | - | - | - | 14.6 | 10.2 | 27.5 | - | 6 | - | 3.2 | - | 51.8 |
| 46 | X7A303 | 16 | 14 | - | 5 | 21.8 | 7.6 | 8.2 | 47.5 | - | 11.8 | 13.6 | 26.2 | 15.7 | 70.3 |
| 47 | X8B562 | 20.6 | 26.6 | - | - | 12.4 | 6.7 | 24.1 | 51.6 | - | 18.4 | - | 36.7 | 19.1 | 52.1 |
| 48 | KH-404 | - | - | - | - | - | - | - | 7.4 | - | - | - | 24.8 | - | 30.4 |
| 49 | MAIZEPOLO | 4.7 | 7.7 | 10.4 | 7.9 | - | 15.8 | - | 9.1 | - | - | - | 29.3 | - | 40.2 |
| 50 | C.-1950 | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 13.6 | - |
| 51 | C.-1945 | - | 41.9 | 3.6 | 1.4 | - | - | - | 16 | - | - | - | - | 20.8 | 15.4 |
| 52 | KF-105 | - | 44 | - | - | - | 8.2 | - | 19.4 | - | 2.3 | - | 11.5 | - | 33.4 |
| | CHECKS | | | | | | | | | | | | | | |
| 53 | BIO-9681 | - | 39.8 | - | - | - | 16.8 | - | 18.6 | - | - | - | - | - | 40.6 |
| 54 | SEEDTEC-2324 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 55 | HQPM-1 | - | - | - | - | - | 0.9 | - | 11.2 | 0.1 | - | - | 14.1 | 12.1 | - |
| 56 | HQPM-7 | - | 2.7 | - | - | - | - | - | 19.4 | - | - | - | 23.3 | 6.8 | - |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | | |
|----------|------------------|---|--------------|------|------|------|------|------|--------------|--------------|--------------|--------------|
| | | AMBI | ZN 3 MEAN | ARBH | HYDE | KARI | MAND | COIM | BANG POCB | BANG JKAG | BANG BAYE | BANG GANG |
| 1 | KNMH-40901 | - | - | - | - | 3.3 | - | - | - | - | - | - |
| 2 | KNMH-40902 | - | - | - | 1.9 | - | - | - | - | - | - | - |
| 3 | KNMH-40903 | - | - | - | 36.6 | - | - | - | - | - | - | - |
| 4 | KNMH-40904 | - | - | - | 76.4 | - | 3.9 | - | - | - | - | - |
| 5 | CMH08-154 | - | 16.1 | 27.3 | 64.9 | - | - | - | - | - | 5.3 | - |
| 6 | CMH08-156 | - | 4.8 | 2.6 | 32.2 | - | - | 2 | - | - | 6.9 | - |
| 7 | CMH08-282 | - | 22.8 | 18.7 | 38.5 | 45.4 | - | 10.5 | - | - | 17.5 | - |
| 8 | HKH-406 | - | - | - | - | - | - | 0.2 | - | - | - | - |
| 9 | HKH-407 | - | - | - | - | - | - | - | - | - | - | - |
| 10 | JH-12108 | - | 23.6 | 31.4 | 17.1 | 45.5 | - | 5.9 | - | - | 0.3 | - |
| 11 | JH-12114 | - | 6.4 | - | 26 | 1.4 | - | - | - | - | - | - |
| 12 | IDX-2901 | 1.8 | 14.7 | - | 10.2 | 4.7 | - | - | - | - | - | - |
| 13 | BMH-107 | - | - | - | 48.3 | 4.1 | 1.5 | 9.4 | 1.6 | - | - | - |
| 14 | BMH-109 | 5.9 | 18.5 | - | - | - | - | 18 | - | - | - | - |
| 15 | VMH-2000 | - | - | - | 3.9 | 13.2 | - | - | - | - | - | - |
| 16 | JCY2-7xHKI163-1 | - | - | 6.7 | 10.4 | - | - | - | - | - | - | - |
| 17 | HKI1126xHKI163-1 | - | - | - | 6.8 | - | - | - | - | - | - | - |
| 18 | MCH-39 | - | 22.4 | 17.8 | 13.2 | 39.8 | 23.3 | 38.8 | 12.3 | - | - | - |
| 19 | MCH-40 | 5.9 | 14.3 | - | 11 | 41.9 | 25.4 | 21.8 | 20.8 | - | 6.8 | 2.6 |
| 20 | APSA-91 | - | - | 3 | 32.9 | - | 8.4 | 6.5 | - | 1.9 | - | - |
| 21 | GK-3060 | - | - | 1.4 | 13.2 | - | 6.5 | 24 | - | - | 1.5 | - |
| 22 | GK-3074 | - | - | 6.2 | 44 | - | - | 3.2 | - | - | - | - |
| 23 | GK-3076 | - | - | - | 2.4 | - | - | 3.2 | 2.7 | - | - | - |
| 24 | LAXMIGOLD | - | - | 21.9 | 17.5 | - | 20.6 | 10.8 | - | 10.6 | 4.4 | 3.2 |
| 25 | LAXMI405 | - | - | - | - | - | 6.5 | 10.8 | - | - | - | - |
| 26 | LAXMI288 | - | - | - | - | - | - | - | - | - | - | 3.7 |
| 27 | BISCO-74 | 1.2 | 12.9 | 18.2 | 35.4 | 10.5 | - | 23.8 | - | 9.1 | 6.2 | - |
| 28 | BISCO-574 | - | - | 0.9 | 0.5 | - | 1.3 | 0.8 | - | - | - | - |
| 29 | PAC-799 | - | - | 4.7 | 21.9 | - | - | 4.9 | - | - | - | 0.5 |
| 30 | BIO-265 | - | - | 7.7 | 59.1 | 50.6 | 16.4 | 23.9 | 1 | - | - | 2.7 |

TABLE NO. 1 (CONTD.)

| GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | | | | |
|---|--------------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | ZN 3 | | | | | | BANG | BANG | BANG | BANG | |
| No | PEDIGREE | AMBI | MEAN | ARBH | HYDE | KARI | MAND | COIM | POCB | JKAG | BAYE | GANG |
| 31 | NMH-731 | - | 9.6 | 17 | 41.1 | 0.9 | 3.2 | 0.4 | 6.6 | - | - | 1.5 |
| 32 | NMH-920 | 7.8 | 19.6 | 36.5 | 18.2 | - | - | - | - | 3 | - | - |
| 33 | NMH-958 | - | 17.8 | 27.4 | 36 | 33.8 | 15.9 | 32.9 | 20.5 | 7.8 | 4 | - |
| 34 | AMAR6669 | - | - | 25.7 | 29.2 | - | - | 21.4 | 16.4 | 0.3 | 7.3 | 4.2 |
| 35 | OM7878 | - | 6.8 | 7.7 | - | - | - | 14.5 | - | - | - | - |
| 36 | JKMH-8033 | - | - | - | 25.7 | 17.9 | - | 5.3 | - | - | - | 4.5 |
| 37 | JKMH-7005 | 0.3 | 16.2 | - | 15.8 | 32.4 | 7 | 10.7 | - | - | - | - |
| 38 | PRO-377 | - | - | 2.5 | 26.5 | 40.2 | 3.3 | 14.9 | - | 8.1 | - | 5.2 |
| 39 | PRO-378 | - | 9.6 | 26.4 | 33.8 | 47.6 | 12 | 11.7 | 2.7 | 9.7 | 4.7 | - |
| 40 | NK-6246 | 2.7 | 8.2 | - | 35.2 | 26.9 | - | 18.2 | - | 14.1 | - | 0.4 |
| 41 | NK-6267 | 0.1 | 13.3 | - | 85.1 | 45.6 | - | 13.8 | 24.8 | - | 13.7 | 3.9 |
| 42 | NK-6607 | 7.7 | 3.7 | 0.5 | 39.9 | - | - | 15.9 | - | - | 5.1 | 3.6 |
| 43 | NK-6617 | - | 4.1 | 24.4 | 63.4 | 12.6 | - | - | - | 1.1 | 4.1 | - |
| 44 | KMH-3670 | - | 4.5 | 26.7 | 28.6 | - | 4 | 42.5 | 17.2 | 18 | 3.4 | 2.3 |
| 45 | KMH-548 | - | 7 | - | 42 | 6.3 | - | 30.8 | 4.8 | - | - | 4.6 |
| 46 | X7A303 | 9.1 | 28.3 | 3.2 | 13.7 | - | - | 23.5 | 15.1 | - | 16.2 | 5.9 |
| 47 | X8B562 | 3.2 | 21.3 | 29.5 | 20.6 | 31.8 | 6.5 | 32.8 | 1.9 | 11.8 | 28.7 | - |
| 48 | KH-404 | 1 | 9.3 | - | 23.1 | 4.7 | - | 5.9 | - | - | - | - |
| 49 | MAIZEPOLO | - | 6.6 | 4.3 | 5 | - | - | 15.1 | - | - | - | - |
| 50 | C.-1950 | - | - | - | 12.5 | - | - | - | - | - | - | - |
| 51 | C.-1945 | - | - | - | 34.7 | - | - | 16 | - | - | - | 3.7 |
| 52 | KF-105 | - | 6.6 | - | 34.1 | - | - | 16 | 3.6 | - | - | - |
| | CHECKS | | | | | | | | | | | |
| 53 | BIO-9681 | - | - | - | 19.9 | - | - | - | - | - | - | - |
| 54 | SEEDTEC-2324 | - | - | - | - | - | - | - | - | - | - | - |
| 55 | HQPM-1 | - | - | - | 6.9 | - | - | 0.4 | - | - | - | - |
| 56 | HQPM-7 | - | - | - | 25.7 | 9.6 | - | 1.4 | - | - | - | - |

TABLE NO. 1 (CONTD.)

| GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | |
|---|------------------|--------------|--------------|------|------|------|--------------|--------------|--------------|
| S1 No | PEDIGREE | HYDE BIOS | ZN 4 MEAN | UDAI | BANS | CHHI | ZN 5 MEAN | OV'L MEAN | ZN 5 GODH |
| 1 | KNMH-40901 | 16.2 | - | 4.4 | - | - | - | - | 23 |
| 2 | KNMH-40902 | - | - | 27.9 | - | - | - | - | - |
| 3 | KNMH-40903 | - | - | 35 | - | - | - | - | 6.7 |
| 4 | KNMH-40904 | - | - | 21.5 | - | - | - | - | - |
| 5 | CMH08-154 | 27.5 | - | 30.7 | - | 3.2 | 5.1 | 3.9 | - |
| 6 | CMH08-156 | 2.8 | - | 72.3 | - | 17.4 | 1.2 | - | 10.9 |
| 7 | CMH08-282 | 3.6 | 6.7 | 8.3 | - | 6.3 | - | 9.5 | - |
| 8 | HKH-406 | - | - | 6.9 | - | - | - | - | 13.3 |
| 9 | HKH-407 | 1.5 | - | - | - | 0.3 | - | - | 5.3 |
| 10 | JH-12108 | - | 0 | 56.9 | - | 40.3 | 23.9 | 6.6 | 29.2 |
| 11 | JH-12114 | 8.9 | - | 65.4 | - | - | - | - | 26.8 |
| 12 | IDX-2901 | - | - | 13.2 | - | 15 | - | - | - |
| 13 | BMH-107 | - | 0.6 | 59.2 | 12.1 | 5 | 20.1 | 2.9 | 7.3 |
| 14 | BMH-109 | 15.4 | - | - | - | - | - | - | 10.5 |
| 15 | VMH-2000 | - | - | 13.9 | - | 12.8 | - | - | 29.7 |
| 16 | JCY2-7xHKI163-1 | - | - | 68.8 | - | 7.5 | 6.5 | - | 35.7 |
| 17 | HKI1126xHKI163-1 | - | - | 31.2 | - | 14.4 | - | - | - |
| 18 | MCH-39 | 0.4 | 9.2 | 19.2 | 6.9 | 54.2 | 25.4 | 12 | - |
| 19 | MCH-40 | 19.3 | 12.3 | 11.3 | - | 41.5 | 6.5 | 11.6 | 10 |
| 20 | APSA-91 | 0.4 | - | 21.8 | - | 18.9 | - | - | 3.5 |
| 21 | GK-3060 | 22 | 2.2 | 39.1 | - | - | - | - | 0.2 |
| 22 | GK-3074 | - | - | 69 | - | - | 2.3 | - | - |
| 23 | GK-3076 | - | - | 16.9 | - | 6.1 | - | - | 6.1 |
| 24 | LAXMIGOLD | 2.2 | 5.4 | 2 | - | - | - | 1.4 | 41.7 |
| 25 | LAXMI405 | - | - | 41.7 | - | - | - | - | - |
| 26 | LAXMI288 | 4.3 | - | 23.4 | - | 7 | - | - | 3.1 |
| 27 | BISCO-74 | 5.1 | 2.1 | 26.3 | - | 23.6 | 8.1 | 3.8 | 3.5 |
| 28 | BISCO-574 | 9.8 | - | 19 | - | - | - | - | 34.5 |
| 29 | PAC-799 | 4.2 | - | 43.2 | 13.6 | - | 15.1 | - | - |
| 30 | BIO-265 | 38.7 | 10.4 | 13.5 | - | 35.5 | 11.6 | 6.5 | 7.6 |

TABLE NO. 1 (CONTD.)

| GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | |
|---|--------------|------|------|------|------|------|------|------|------|
| S1 | | HYDE | ZN 4 | | | | ZN 5 | OV'L | ZN 5 |
| No | PEDIGREE | BIOS | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | GODH |
| 31 | NMH-731 | 23.8 | 4.4 | 61.2 | - | 9.8 | 5.5 | 4.6 | - |
| 32 | NMH-920 | 14.5 | 0.4 | 51.3 | - | 48.2 | 25.9 | 6.5 | 23.7 |
| 33 | NMH-958 | 14.5 | 16.4 | 32.6 | - | 9.9 | 9.1 | 13.2 | 29 |
| 34 | AMAR6669 | 2.2 | 7.8 | 70.3 | - | 7.9 | 4.6 | 5.8 | - |
| 35 | OM7878 | 5.2 | - | 9.1 | - | - | - | - | 2.6 |
| 36 | JKMH-8033 | 2.1 | - | 79.5 | - | - | 9 | - | 7.8 |
| 37 | JKMH-7005 | 2 | 0.8 | 31.1 | - | 2.6 | - | 4.1 | - |
| 38 | PRO-377 | 17.7 | 8.9 | 48 | - | 15.6 | 3.9 | 6.9 | 53.9 |
| 39 | PRO-378 | - | 11 | 69.4 | - | 13.5 | 16.7 | 9.4 | 6.6 |
| 40 | NK-6246 | 5.5 | 4.3 | - | - | 75.8 | 14.6 | 3.6 | - |
| 41 | NK-6267 | - | 10.4 | 54 | - | 75.1 | 32 | 9.9 | 43.3 |
| 42 | NK-6607 | 0.3 | - | 70.9 | 15.9 | 9.2 | 25.8 | 3 | - |
| 43 | NK-6617 | 0.4 | 3.1 | 40.6 | - | 8.8 | - | 1.5 | 3.8 |
| 44 | KMH-3670 | 10.8 | 13.3 | 47.1 | - | 7.5 | 3.3 | 3.6 | 15.9 |
| 45 | KMH-548 | 14.3 | 4.2 | 10.1 | - | 18.9 | 7.4 | 4.3 | 27.2 |
| 46 | X7A303 | 16.5 | 8.3 | 14.3 | - | 3.9 | - | 9.7 | - |
| 47 | X8B562 | 4.2 | 11.6 | 31.7 | - | 14.2 | - | 11.7 | 26.7 |
| 48 | KH-404 | 3.4 | - | 52.3 | 12.2 | 4.9 | 18.6 | - | 29.5 |
| 49 | MAIZEPOLO | - | - | 62.1 | 9.8 | 5.2 | 19.8 | 1.7 | - |
| 50 | C.-1950 | - | - | 25.1 | - | - | - | - | - |
| 51 | C.-1945 | - | - | 31.6 | 19.4 | 7.3 | 18.1 | - | 29.7 |
| 52 | KF-105 | - | - | 37.7 | 21.4 | - | 16.1 | - | - |
| | CHECKS | | | | | | | | |
| 53 | BIO-9681 | - | - | 38.6 | - | - | - | - | 1.2 |
| 54 | SEEDTEC-2324 | - | - | - | - | - | - | - | - |
| 55 | HQPM-1 | 17.2 | - | 50.4 | - | 8.5 | 0.8 | - | 16.9 |
| 56 | HQPM-7 | 8.4 | - | 58.4 | - | 2.3 | 12.8 | - | 2.6 |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | | | | | | | |
|----------|------------------|---|------|------|--------------|------|------|------|------|------|--------------|-------|------|------|------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA |
| 1 | KNMH-40901 | - | - | - | - | 11.2 | 5.3 | 10.4 | 0.4 | - | 2.6 | 76.8 | 18.8 | - | 29.3 |
| 2 | KNMH-40902 | - | 9.4 | - | - | - | 20.6 | - | - | - | - | 62.1 | - | - | - |
| 3 | KNMH-40903 | - | 49.7 | - | - | 13.4 | 14.5 | - | - | - | - | 53.2 | - | - | - |
| 4 | KNMH-40904 | - | 12.1 | - | - | 21.2 | 22.1 | 3 | 1.3 | - | 5 | 61.1 | - | - | 10.5 |
| 5 | CMH08-154 | - | 84.9 | - | 1 | 67.3 | 2 | 42.5 | 5.8 | - | 14.6 | 112.1 | 2.4 | 27.5 | 37.5 |
| 6 | CMH08-156 | - | 22.7 | 5.5 | - | 17 | 23.2 | 22.3 | 9.9 | - | 9.8 | 86.2 | 5.3 | 2.6 | 22.5 |
| 7 | CMH08-282 | 13.6 | 13.2 | 5.9 | 9.4 | 78.1 | 14.2 | 56.8 | 22.5 | - | 21.5 | 88 | 15.6 | 26 | 64.4 |
| 8 | HKH-406 | - | 52.4 | - | - | - | 16.6 | 11.3 | - | - | - | 47.2 | - | - | 30.8 |
| 9 | HKH-407 | - | 75.6 | - | - | - | 8.6 | - | - | - | - | 32 | - | - | 27.8 |
| 10 | JH-12108 | 12.2 | 69.2 | - | - | 12.2 | - | 65.6 | 22.3 | - | 15.8 | 110.3 | 2 | 11.9 | 81.9 |
| 11 | JH-12114 | - | 86.2 | - | - | 20.7 | 10.6 | 29.3 | - | - | 3.3 | 80.6 | - | - | 49.7 |
| 12 | IDX-2901 | 5.1 | 1.6 | 13.4 | 9.3 | 4.1 | - | 24.8 | - | - | - | 99.6 | - | - | 52.8 |
| 13 | BMH-107 | 0.6 | 1.9 | 25.8 | 14.2 | 38.7 | 6.8 | 24.9 | - | - | 6.5 | 30.8 | 1.4 | - | 42.8 |
| 14 | BMH-109 | 1 | 29.7 | 17.1 | 11.5 | - | 10.2 | 21 | - | - | 3 | 128.7 | - | - | 61.2 |
| 15 | VMH-2000 | - | 33.3 | 5 | 1.4 | - | 25 | 6.7 | - | - | - | 36.2 | 11.3 | - | 24.4 |
| 16 | JCY2-7xHKI163-1 | - | 33.3 | 0.5 | 1.4 | 28.3 | 7 | 17.9 | - | - | 3.7 | 34.4 | - | - | 22.9 |
| 17 | HKI1126xHKI163-1 | - | - | - | - | - | 12 | - | - | - | - | 67 | 14.7 | - | 5 |
| 18 | MCH-39 | 10.3 | 24.1 | - | 1.7 | 24.3 | 19.9 | 60.7 | 22.3 | - | 19.8 | 66.5 | 36.5 | 6.5 | 74.7 |
| 19 | MCH-40 | 40.5 | 27.2 | - | 13.4 | 14.4 | 15.6 | 52.8 | 20.6 | - | 17.6 | 70.5 | 0.4 | 2.6 | 55.3 |
| 20 | APSA-91 | - | 19.7 | 9.3 | 4 | - | 21.9 | 31.3 | - | - | 3.5 | 51.8 | 1.3 | - | 17.4 |
| 21 | GK-3060 | 7 | 26.7 | 5.1 | 7.2 | 5.9 | 13.5 | 23.7 | 7.6 | - | 5.2 | 46.6 | - | - | 42.6 |
| 22 | GK-3074 | - | 30 | - | - | 22.2 | - | - | 2.3 | - | - | 16 | - | - | 61.4 |
| 23 | GK-3076 | - | 66.3 | 0.3 | 1.7 | 24 | 17 | 32.9 | 9 | - | 10.2 | 10.7 | 1.2 | - | 44.8 |
| 24 | LAXMIGOLD | - | 16 | - | - | - | 8.8 | 35.2 | 21.3 | - | 10.2 | 18.9 | 1.6 | - | 37.6 |
| 25 | LAXMI405 | 0.3 | 55.9 | 10.3 | 9.2 | - | 15.3 | 3.6 | - | - | - | 13.2 | 14.5 | - | 22.5 |
| 26 | LAXMI288 | - | - | - | - | - | 9 | 2.3 | - | - | - | 27 | - | - | 27.5 |
| 27 | BISCO-74 | 14.5 | 28.7 | - | - | 21.4 | 17.5 | 29.8 | 2.6 | - | 10.7 | 65.8 | - | - | 75.1 |
| 28 | BISCO-574 | 12.7 | 4 | - | 4.8 | - | 9.6 | 0.4 | - | - | - | 0.5 | - | - | 29.9 |
| 29 | PAC-799 | - | - | 3.7 | - | - | 17.9 | 35.8 | - | - | 1.1 | - | - | - | 53.1 |
| 30 | BIO-265 | 5.5 | 15.5 | - | 2.9 | 25.8 | 23.4 | 31.5 | 11.2 | - | 11.4 | 32.3 | - | - | 23.9 |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | | | | | | | |
|-------|--------------|---|------|------|--------------|------|------|------|------|------|--------------|-------|------|------|------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA |
| 31 | NMH-731 | 16.7 | 11.2 | 2.7 | 8.8 | 19.2 | 19.6 | 40.3 | - | - | 7.1 | 74.8 | - | - | 65 |
| 32 | NMH-920 | 26.4 | 40 | 15.3 | 21.3 | - | 11.4 | 44.9 | 9.3 | - | 4.1 | 121.3 | 0.9 | - | 55 |
| 33 | NMH-958 | 20.2 | 73.2 | - | 9.9 | 14.9 | 13.3 | 45.9 | 18.7 | - | 14.2 | 77.6 | 0.9 | - | 91.3 |
| 34 | AMAR6669 | - | 2.6 | 6.2 | 1.1 | 34.9 | 13.1 | 30.8 | 23.9 | - | 16.9 | 13.4 | - | - | 58.6 |
| 35 | OM7878 | 8.1 | 46.8 | - | 2.7 | 15.5 | 7 | 18.5 | 12.7 | - | 6.4 | 47.9 | 18.7 | - | 43.7 |
| 36 | JKMH-8033 | - | 71.8 | - | - | 60.7 | 21.3 | 34.8 | 12.8 | - | 15.8 | 31.7 | - | - | 24.8 |
| 37 | JKMH-7005 | - | 16.1 | 14.7 | 4.8 | 11.2 | 9.7 | 55.7 | 12.2 | - | 15.3 | 81.5 | 3.4 | 17.7 | 51.6 |
| 38 | PRO-377 | 15.6 | 9.4 | - | - | 13.2 | 17.2 | 67.6 | 23.6 | - | 20.9 | 22.4 | - | - | 54.2 |
| 39 | PRO-378 | 10.8 | 18.2 | 8 | 9.8 | 19.9 | 4.8 | 44.1 | 10.5 | - | 11.1 | 44.5 | 28.1 | - | 59.6 |
| 40 | NK-6246 | - | 28.5 | - | - | 43.6 | 11.2 | 30.4 | - | - | 8.9 | 66.1 | - | - | 57.4 |
| 41 | NK-6267 | 18 | 15.5 | - | - | 19.2 | 20.3 | 51.4 | 3.9 | - | 12.7 | 60.2 | 15 | 14.3 | 43.9 |
| 42 | NK-6607 | 10.2 | 52.6 | - | - | 25.6 | 13.6 | 49.1 | 6 | - | 14 | 82.8 | - | - | 21.8 |
| 43 | NK-6617 | 13.6 | 19.2 | - | - | 21.4 | 3.9 | 21.8 | 5.3 | - | 7.5 | 78 | 16.7 | - | 19.1 |
| 44 | KMH-3670 | - | 81.4 | - | - | - | 9.3 | 27.6 | - | - | - | 67.5 | - | - | 49.4 |
| 45 | KMH-548 | 13.3 | 8.6 | - | 0.5 | 6.2 | 13.7 | 47.9 | 14.6 | - | 11.6 | 66 | - | - | 64.6 |
| 46 | X7A303 | 22.8 | 17.9 | - | 9.9 | 45.7 | 6.7 | 45.3 | 32.6 | - | 17.8 | 116.9 | 10.6 | 3.2 | 84.8 |
| 47 | X8B562 | 27.7 | 30.9 | - | 2.7 | 34.4 | 5.8 | 66.6 | 36.3 | - | 24.7 | 89.9 | 19.7 | 6.2 | 65 |
| 48 | KH-404 | - | - | - | - | 3.6 | - | 29.5 | - | - | - | 84.1 | 9.3 | - | 41.5 |
| 49 | MAIZEPOLO | 10.9 | 11.4 | 14.6 | 12.9 | - | 14.8 | 28.1 | - | - | 3.7 | 72.2 | 13.3 | - | 52.1 |
| 50 | C.-1950 | 1.3 | - | - | - | - | - | - | - | - | - | - | - | 1.3 | 5.7 |
| 51 | C.-1945 | - | 46.7 | 7.5 | 6.1 | 6.5 | - | 22.1 | 4.3 | - | 4.7 | 59.4 | - | 7.8 | 25.2 |
| 52 | KF-105 | - | 49 | - | - | 7.7 | 7.3 | 31 | 7.3 | - | 7.7 | 79.6 | - | - | 44.7 |
| | CHECKS | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 3.6 | 44.6 | - | 4.2 | - | 15.9 | 12.7 | 6.7 | - | - | 48.5 | - | - | 52.6 |
| 54 | SEEDTEC-2324 | 5.9 | 3.4 | 3.8 | 4.6 | 19.6 | - | 34.3 | - | - | 5.3 | 91 | - | - | 8.5 |
| 55 | HQPM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 56 | HQPM-7 | - | 6.3 | - | - | - | - | 3.2 | 7.3 | - | - | 32.3 | 8 | - | 7.4 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | | | | |
|-------|------------------|---|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA |
| 1 | KNMH-40901 | - | - | - | - | 12.1 | 11 | 6.9 | - | 5.8 | 4 | 33.7 | 10 | - | 20.4 |
| 2 | KNMH-40902 | - | 3 | - | - | - | 27.1 | - | - | 11.3 | - | 22.6 | - | - | - |
| 3 | KNMH-40903 | - | 40.9 | - | - | 14.3 | 20.7 | - | - | 4.4 | - | 15.8 | - | - | - |
| 4 | KNMH-40904 | - | 5.5 | - | - | 22.1 | 28.7 | - | - | 3.3 | 6.5 | 21.8 | - | - | 2.9 |
| 5 | CMH08-154 | - | 74 | 3.8 | 5.9 | 68.6 | 7.5 | 38.1 | - | 3.2 | 16.3 | 60.3 | - | 33.9 | 28 |
| 6 | CMH08-156 | - | 15.5 | 15.5 | 4.7 | 17.9 | 29.9 | 18.5 | 2.4 | 0.9 | 11.4 | 40.8 | - | 7.7 | 14.1 |
| 7 | CMH08-282 | 14.6 | 6.6 | 15.9 | 14.7 | 79.5 | 20.4 | 51.9 | 14.1 | - | 23.3 | 42.1 | 7 | 32.2 | 53.1 |
| 8 | HKH-406 | - | 43.5 | 7.7 | 4.3 | - | 22.9 | 7.9 | - | 6.7 | - | 11.3 | - | - | 21.8 |
| 9 | HKH-407 | - | 65.3 | - | - | - | 14.5 | - | - | - | - | - | - | - | 19 |
| 10 | JH-12108 | 13.3 | 59.2 | - | 2.2 | 13.1 | 2.6 | 60.4 | 14 | 1.8 | 17.5 | 59 | - | 17.4 | 69.3 |
| 11 | JH-12114 | - | 75.2 | - | 1.1 | 21.6 | 16.6 | 25.3 | - | - | 4.8 | 36.5 | - | - | 39.3 |
| 12 | IDX-2901 | 6.1 | - | 24.1 | 14.6 | 4.9 | 4.6 | 20.9 | - | - | 0.7 | 50.9 | - | 3.8 | 42.3 |
| 13 | BMH-107 | 1.5 | - | 37.8 | 19.8 | 39.8 | 12.6 | 21 | - | - | 8 | - | - | - | 32.9 |
| 14 | BMH-109 | 2 | 22.1 | 28.2 | 16.9 | - | 16.2 | 17.2 | - | 6.3 | 4.5 | 72.9 | - | - | 50.1 |
| 15 | VMH-2000 | - | 25.4 | 15 | 6.3 | - | 31.8 | 3.4 | - | - | - | 2.9 | 3 | - | 15.8 |
| 16 | JCY2-7xHKI163-1 | - | 25.5 | 10 | 6.3 | 29.3 | 12.8 | 14.3 | - | - | 5.2 | 1.6 | - | - | 14.5 |
| 17 | HKI1126xHKI163-1 | - | - | 8.1 | - | - | 18.1 | - | - | 1 | - | 26.2 | 6.2 | - | - |
| 18 | MCH-39 | 11.4 | 16.8 | 1.3 | 6.6 | 25.2 | 26.4 | 55.7 | 13.9 | 0.2 | 21.6 | 25.9 | 26.3 | 11.8 | 62.6 |
| 19 | MCH-40 | 41.8 | 19.7 | 0.3 | 18.9 | 15.2 | 21.9 | 48 | 12.3 | 6.2 | 19.3 | 28.9 | - | 7.7 | 44.6 |
| 20 | APSA-91 | - | 12.6 | 19.6 | 9 | - | 28.5 | 27.2 | - | 6.9 | 5 | 14.7 | - | - | 9.3 |
| 21 | GK-3060 | 8 | 19.2 | 15 | 12.4 | 6.7 | 19.7 | 19.8 | 0.2 | - | 6.7 | 10.8 | - | - | 32.8 |
| 22 | GK-3074 | - | 22.3 | - | - | 23.2 | - | - | - | 0.3 | - | - | - | - | 50.3 |
| 23 | GK-3076 | - | 56.5 | 9.8 | 6.7 | 25 | 23.3 | 28.8 | 1.5 | - | 11.8 | - | - | - | 34.8 |
| 24 | LAXMIGOLD | - | 9.1 | 2.2 | - | - | 14.7 | 31 | 13 | 1.8 | 11.8 | - | - | - | 28.1 |
| 25 | LAXMI405 | 1.3 | 46.7 | 20.7 | 14.5 | - | 21.5 | 0.4 | - | 1.1 | - | - | 6 | - | 14.1 |
| 26 | LAXMI288 | - | - | 0.3 | - | - | 14.9 | - | - | - | - | - | - | - | 18.7 |
| 27 | BISCO-74 | 15.6 | 21.1 | - | 2.9 | 22.3 | 23.8 | 25.8 | - | 9.3 | 12.3 | 25.4 | - | - | 63 |
| 28 | BISCO-574 | 13.8 | - | 8.3 | 9.8 | - | 15.5 | - | - | 4.7 | - | - | - | - | 20.9 |
| 29 | PAC-799 | - | - | 13.6 | 3 | - | 24.3 | 31.6 | - | - | 2.6 | - | - | 4.1 | 42.6 |
| 30 | BIO-265 | 6.5 | 8.7 | 9 | 7.9 | 26.7 | 30.1 | 27.4 | 3.6 | - | 13 | 0.1 | - | - | 15.4 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | |
|----------|------------------|---|--------------|------|------|------|------|------|--------------|--------------|--------------|--------------|
| | | AMBI | ZN 3 MEAN | ARBH | HYDE | KARI | MAND | COIM | BANG POCB | BANG JKAG | BANG BAYE | BANG GANG |
| 1 | KNMH-40901 | - | 4.3 | - | - | - | - | - | - | - | - | 10.1 |
| 2 | KNMH-40902 | - | - | - | - | - | - | - | - | - | - | - |
| 3 | KNMH-40903 | - | - | - | 8.6 | - | - | - | - | - | - | - |
| 4 | KNMH-40904 | - | - | - | 40.3 | - | 12.5 | - | - | - | - | - |
| 5 | CMH08-154 | 13.9 | 24.9 | 32.1 | 31.2 | - | 5.3 | - | 2.3 | 7.1 | 10.4 | 7.3 |
| 6 | CMH08-156 | 8.5 | 12.8 | 6.5 | 5.2 | - | - | 0.6 | 7.4 | 2.5 | 12.1 | 11.1 |
| 7 | CMH08-282 | 20.7 | 32.2 | 23.3 | 10.2 | 32.7 | 0.3 | 9 | 23.4 | 21 | 23.2 | 14.7 |
| 8 | HKH-406 | - | - | 1.3 | - | - | 1.1 | - | 15 | 24.9 | - | 16.8 |
| 9 | HKH-407 | - | - | - | - | - | - | - | - | - | - | 22.6 |
| 10 | JH-12108 | 16.1 | 33.1 | 36.4 | - | 32.8 | 1.6 | 4.4 | - | 26 | 5.3 | 12.7 |
| 11 | JH-12114 | 14.5 | 14.5 | - | 0.2 | - | 2.2 | - | - | - | - | 12.6 |
| 12 | IDX-2901 | 23.7 | 23.5 | - | - | - | - | - | 1.2 | 1.7 | - | 17.9 |
| 13 | BMH-107 | 9.8 | 6.9 | - | 18 | - | 9.8 | 7.9 | 27.2 | 5.9 | 4.6 | 19.9 |
| 14 | BMH-109 | 28.7 | 27.6 | - | - | - | - | 16.4 | 5.2 | - | - | 18.8 |
| 15 | VMH-2000 | - | - | 2.7 | - | 3.3 | - | - | - | - | - | 6.1 |
| 16 | JCY2-7xHKI163-1 | - | - | 10.8 | - | - | - | - | 2.4 | - | 0.1 | 9.9 |
| 17 | HKI1126xHKI163-1 | 15.3 | 5 | 0.6 | - | - | - | - | 8.8 | - | - | 15.1 |
| 18 | MCH-39 | 20.4 | 31.7 | 22.3 | - | 27.6 | 33.5 | 37 | 40.6 | 14.7 | - | 13.3 |
| 19 | MCH-40 | 28.7 | 23.1 | - | - | 29.5 | 35.7 | 20.1 | 51.3 | 20.1 | 12 | 26.7 |
| 20 | APSA-91 | 6.1 | - | 6.9 | 5.7 | - | 17.3 | 5.1 | 3.3 | 30.6 | 3.9 | 15 |
| 21 | GK-3060 | 1.8 | 2.4 | 5.2 | - | - | 15.2 | 22.3 | 7.1 | 20.2 | 6.5 | 17.9 |
| 22 | GK-3074 | - | 0.2 | 10.2 | 14.5 | - | - | 1.8 | 9.6 | - | - | - |
| 23 | GK-3076 | - | 0.1 | - | - | - | - | 1.8 | 28.6 | - | - | 18.7 |
| 24 | LAXMIGOLD | 11.3 | 7.3 | 26.5 | - | - | 30.6 | 9.3 | 2.3 | 41.8 | 9.5 | 27.4 |
| 25 | LAXMI405 | - | - | - | - | - | 15.3 | 9.3 | 6.3 | - | - | - |
| 26 | LAXMI288 | - | - | 0.9 | - | - | 4.8 | - | 11.9 | - | - | 28.1 |
| 27 | BISCO-74 | 22.9 | 21.5 | 22.7 | 7.7 | 0.8 | - | 22.1 | - | 39.8 | 11.4 | 4.6 |
| 28 | BISCO-574 | - | - | 4.7 | - | - | 9.7 | - | - | - | 0.4 | - |
| 29 | PAC-799 | 2.3 | 4.2 | 8.7 | - | - | - | 3.5 | 22.6 | 28.1 | 2.1 | 24.2 |
| 30 | BIO-265 | 19.6 | 6.1 | 11.8 | 26.5 | 37.4 | 26 | 22.2 | 26.4 | 4.3 | - | 26.9 |

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | |
|----------|--------------|---|--------------|------|------|------|------|------|--------------|--------------|--------------|--------------|
| | | AMBI | ZN 3 MEAN | ARBH | HYDE | KARI | MAND | COIM | BANG POCB | BANG JKAG | BANG BAYE | BANG GANG |
| 31 | NMH-731 | 18.9 | 17.9 | 21.4 | 12.3 | - | 11.6 | - | 33.5 | 24.6 | - | 25.4 |
| 32 | NMH-920 | 30.9 | 28.8 | 41.7 | - | - | 7.2 | - | 23.6 | 32 | - | 10.1 |
| 33 | NMH-958 | 14.2 | 26.8 | 32.3 | 8.2 | 22.1 | 25.5 | 31.1 | 50.9 | 38.1 | 9.1 | 21.5 |
| 34 | AMAR6669 | 8.7 | 7.6 | 30.5 | 2.8 | - | 4 | 19.7 | 45.8 | 28.5 | 12.6 | 28.7 |
| 35 | OM7878 | 8.1 | 15 | 11.8 | - | - | - | 13 | - | 12.8 | 2.9 | 23.4 |
| 36 | JKMH-8033 | 17.4 | 2.5 | - | 0 | 7.6 | - | 3.9 | 16.1 | - | - | 29.1 |
| 37 | JKMH-7005 | 21.9 | 25.1 | - | - | 20.9 | 15.9 | 9.2 | 13.8 | 15.9 | - | 21.4 |
| 38 | PRO-377 | - | 7.5 | 6.4 | 0.6 | 28 | 11.9 | 13.4 | 22.3 | 38.5 | 4.6 | 29.9 |
| 39 | PRO-378 | 4.2 | 17.9 | 31.2 | 6.5 | 34.7 | 21.2 | 10.2 | 28.5 | 40.5 | 9.8 | 22.3 |
| 40 | NK-6246 | 24.8 | 16.4 | 1.7 | 7.5 | 15.9 | - | 16.6 | 21.4 | 46.2 | - | 24.1 |
| 41 | NK-6267 | 21.6 | 21.9 | 2.9 | 47.2 | 32.9 | - | 12.2 | 56.3 | 15.1 | 19.2 | 28.4 |
| 42 | NK-6607 | 30.9 | 11.6 | 4.3 | 11.3 | - | - | 14.4 | 15.3 | 16.4 | 10.2 | 27.9 |
| 43 | NK-6617 | 17.4 | 12.1 | 29.1 | 30 | 2.8 | 2.3 | - | 19.7 | 29.5 | 9.2 | 11.2 |
| 44 | KMH-3670 | 15.2 | 12.4 | 31.5 | 2.3 | - | 12.5 | 40.5 | 46.7 | 51.2 | 8.5 | 26.4 |
| 45 | KMH-548 | 6.3 | 15.2 | - | 13 | - | - | 29 | 31.2 | 14.5 | - | 29.2 |
| 46 | X7A303 | 32.6 | 38.1 | 7.1 | - | - | 3.6 | 21.8 | 44.2 | 26.8 | 21.8 | 30.8 |
| 47 | X8B562 | 25.4 | 30.5 | 34.5 | - | 20.3 | 15.2 | 31.1 | 27.5 | 43.3 | 35 | - |
| 48 | KH-404 | 22.7 | 17.7 | - | - | - | - | 4.4 | 24.5 | 17.7 | - | 15.8 |
| 49 | MAIZEPOLO | 9.7 | 14.7 | 8.3 | - | - | 0.4 | 13.5 | 19.6 | 7 | 2.1 | 22.5 |
| 50 | C.-1950 | - | - | - | - | - | - | - | - | - | - | - |
| 51 | C.-1945 | 7.8 | 7.6 | - | 7.2 | - | - | 14.4 | 20 | 1.1 | 3.3 | 28.1 |
| 52 | KF-105 | 19.4 | 14.8 | - | 6.7 | - | - | 14.4 | 29.7 | - | - | 17.6 |
| | CHECKS | | | | | | | | | | | |
| 53 | BIO-9681 | 2.7 | 7.5 | - | - | - | - | - | - | - | - | 13.9 |
| 54 | SEEDTEC-2324 | 21.5 | 7.6 | 3.8 | - | - | 8.2 | - | 25.2 | 28.1 | 4.9 | 23.5 |
| 55 | HQPM-1 | - | - | - | - | - | - | - | - | - | - | - |
| 56 | HQPM-7 | - | - | - | - | - | - | - | - | - | - | - |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE | | | HQPM-7 | | OV'L MEAN | ZN 5 GODH | |
|----------|--------------|------------------------------------|--------------|------|--------|------|--------------|--------------|--------------|
| | | HYDE BIOS | ZN 4 MEAN | UDAI | BANS | CHHI | | | ZN 5 MEAN |
| 31 | NMH-731 | 14.2 | 12.4 | 1.7 | - | 7.3 | - | 11 | - |
| 32 | NMH-920 | 5.6 | 8.2 | - | - | 44.8 | 11.6 | 13 | 20.5 |
| 33 | NMH-958 | 5.6 | 25.4 | - | - | 7.4 | - | 20 | 25.7 |
| 34 | AMAR6669 | - | 16.1 | 7.5 | - | 5.5 | - | 12.2 | - |
| 35 | OM7878 | - | 3.2 | - | - | - | - | 4.2 | - |
| 36 | JKMH-8033 | - | - | 13.3 | - | - | - | 0.3 | 5.1 |
| 37 | JKMH-7005 | - | 8.5 | - | - | 0.3 | - | 10.4 | - |
| 38 | PRO-377 | 8.5 | 17.3 | - | - | 13 | - | 13.4 | 49.9 |
| 39 | PRO-378 | - | 19.6 | 7 | - | 11 | 3.5 | 16 | 3.8 |
| 40 | NK-6246 | - | 12.3 | - | - | 71.8 | 1.6 | 9.8 | - |
| 41 | NK-6267 | - | 19 | - | - | 71.2 | 17 | 16.6 | 39.6 |
| 42 | NK-6607 | - | 6.9 | 7.9 | 18.1 | 6.8 | 11.5 | 9.2 | - |
| 43 | NK-6617 | - | 11 | - | - | 6.3 | - | 7.7 | 1.2 |
| 44 | KMH-3670 | 2.2 | 22 | - | - | 5.1 | - | 9.9 | 12.9 |
| 45 | KMH-548 | 5.4 | 12.2 | - | - | 16.3 | - | 10.6 | 23.9 |
| 46 | X7A303 | 7.5 | 16.6 | - | - | 1.6 | - | 16.4 | - |
| 47 | X8B562 | - | 20.2 | - | - | 11.7 | - | 18.4 | 23.4 |
| 48 | KH-404 | - | 4.8 | - | 14.3 | 2.5 | 5.1 | 4.3 | 26.2 |
| 49 | MAIZEPOLO | - | 4.8 | 2.3 | 11.9 | 2.8 | 6.2 | 7.9 | - |
| 50 | C.-1950 | - | - | - | - | - | - | - | - |
| 51 | C.-1945 | - | - | - | 21.7 | 4.9 | 4.6 | 3.8 | 26.4 |
| 52 | KF-105 | - | - | - | 23.7 | - | 2.9 | 2.8 | - |
| | CHECKS | | | | | | | | |
| 53 | BIO-9681 | - | - | - | - | - | - | - | - |
| 54 | SEEDTEC-2324 | - | 7.7 | - | 1.9 | - | - | 6 | - |
| 55 | HQPM-1 | 8.1 | - | - | - | 6 | - | - | 13.9 |
| 56 | HQPM-7 | - | - | - | - | - | - | - | - |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | |
|----------|------------------|-------------------------|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA |
| 1 | KNMH-40901 | 63.3 | 65.0 | 48.7 | 59.0 | 54.0 | 53.7 | 53.7 | 51.7 | 65.0 | 55.6 | 52.7 | 53.7 | 51.0 | 45.7 |
| 2 | KNMH-40902 | 62.3 | 63.3 | 49.7 | 58.4 | 54.7 | 51.3 | 52.0 | 52.0 | 61.0 | 54.2 | 51.7 | 52.7 | 49.0 | 47.7 |
| 3 | KNMH-40903 | 65.7 | 64.0 | 51.7 | 60.4 | 54.0 | 54.3 | 54.7 | 51.3 | 64.0 | 55.7 | 52.3 | 56.0 | 52.7 | 44.7 |
| 4 | KNMH-40904 | 67.7 | 63.7 | 52.7 | 61.3 | 53.3 | 53.7 | 54.7 | 51.7 | 63.0 | 55.3 | 52.3 | 56.7 | 52.7 | 49.0 |
| 5 | CMH08-154 | 62.3 | 62.7 | 50.7 | 58.6 | 53.7 | 49.3 | 51.0 | 49.0 | 58.0 | 52.2 | 51.0 | 50.0 | 49.7 | 46.7 |
| 6 | CMH08-156 | 61.7 | 63.0 | 50.0 | 58.2 | 52.7 | 50.3 | 52.3 | 49.0 | 62.0 | 53.3 | 51.7 | 52.0 | 49.7 | 44.7 |
| 7 | CMH08-282 | 60.7 | 62.7 | 50.0 | 57.8 | 55.0 | 53.0 | 54.0 | 51.3 | 60.0 | 54.7 | 51.7 | 52.7 | 54.0 | 50.0 |
| 8 | HKH-406 | 64.3 | 63.0 | 51.3 | 59.6 | 55.0 | 53.7 | 53.3 | 50.3 | 61.3 | 54.7 | 52.7 | 54.3 | 51.3 | 48.7 |
| 9 | HKH-407 | 62.3 | 63.0 | 51.0 | 58.8 | 54.7 | 49.0 | 52.0 | 51.7 | 64.0 | 54.3 | 54.3 | 52.0 | 50.7 | 47.0 |
| 10 | JH-12108 | 63.0 | 62.0 | 50.7 | 58.6 | 56.7 | 55.7 | 55.3 | 51.3 | 64.0 | 56.6 | 53.7 | 54.0 | 50.3 | 50.7 |
| 11 | JH-12114 | 60.3 | 62.3 | 49.0 | 57.2 | 55.0 | 53.7 | 53.7 | 50.7 | 64.0 | 55.4 | 53.3 | 53.7 | 49.0 | 47.0 |
| 12 | IDX-2901 | 61.3 | 62.0 | 51.0 | 58.1 | 55.7 | 51.3 | 53.0 | 51.7 | 58.0 | 53.9 | 52.3 | 53.0 | 51.7 | 50.3 |
| 13 | BMH-107 | 60.7 | 62.7 | 48.7 | 57.3 | 53.0 | 54.0 | 50.7 | 51.0 | 63.0 | 54.3 | 52.3 | 54.7 | 50.3 | 50.7 |
| 14 | BMH-109 | 64.3 | 64.0 | 50.7 | 59.7 | 55.0 | 52.0 | 53.7 | 52.3 | 57.0 | 54.0 | 53.7 | 59.0 | 52.3 | 48.7 |
| 15 | VMH-2000 | 68.7 | 64.7 | 51.7 | 61.7 | 58.3 | 54.3 | 54.0 | 52.0 | 59.0 | 55.5 | 54.3 | 54.0 | 52.0 | 51.0 |
| 16 | JCY2-7xHKI163-1 | 60.0 | 62.7 | 50.0 | 57.6 | 55.5 | 54.3 | 51.0 | 52.3 | 60.0 | 54.6 | 52.7 | 52.7 | 51.0 | 51.0 |
| 17 | HKI1126xHKI163-1 | 62.7 | 64.3 | 50.3 | 59.1 | 58.3 | 53.0 | 55.3 | 53.3 | 61.0 | 56.2 | 53.3 | 52.3 | 52.0 | 51.7 |
| 18 | MCH-39 | 59.7 | 63.3 | 50.7 | 57.9 | 55.7 | 51.7 | 54.7 | 54.7 | 58.0 | 54.9 | 55.0 | 56.7 | 54.7 | 52.7 |
| 19 | MCH-40 | 63.3 | 62.0 | 51.7 | 59.0 | 55.0 | 51.7 | 52.3 | 53.3 | 59.0 | 54.3 | 54.7 | 55.0 | 53.0 | 51.3 |
| 20 | APSA-91 | 67.0 | 62.3 | 52.0 | 60.4 | 57.3 | 50.7 | 54.0 | 52.7 | 60.0 | 54.9 | 54.3 | 55.0 | 53.7 | 51.7 |
| 21 | GK-3060 | 65.7 | 63.0 | 51.7 | 60.1 | 57.0 | 54.3 | 54.3 | 54.7 | 63.7 | 56.8 | 54.3 | 55.3 | 54.7 | 50.7 |
| 22 | GK-3074 | 58.3 | 65.0 | 48.7 | 57.3 | 51.3 | 51.3 | 50.3 | 50.0 | 62.0 | 53.0 | 52.0 | 51.3 | 49.7 | 44.7 |
| 23 | GK-3076 | 59.3 | 62.0 | 49.7 | 57.0 | 52.3 | 55.0 | 52.0 | 52.3 | 62.0 | 54.7 | 52.0 | 54.3 | 50.7 | 49.7 |
| 24 | LAXMIGOLD | 66.3 | 62.0 | 51.3 | 59.9 | 57.3 | 53.7 | 54.0 | 55.3 | 64.0 | 56.9 | 53.3 | 55.0 | 53.3 | 52.7 |
| 25 | LAXMI405 | 67.0 | 62.3 | 51.3 | 60.2 | 57.3 | 49.3 | 54.7 | 55.0 | 62.0 | 55.7 | 54.7 | 54.3 | 52.3 | 52.7 |
| 26 | LAXMI288 | 62.7 | 63.3 | 51.7 | 59.2 | 55.0 | 54.3 | 54.0 | 51.3 | 64.0 | 55.7 | 52.3 | 53.0 | 52.7 | 49.3 |
| 27 | BISCO-74 | 67.3 | 63.7 | 51.0 | 60.7 | 57.3 | 55.0 | 54.3 | 53.0 | 61.0 | 56.1 | 54.3 | 55.3 | 53.7 | 50.0 |
| 28 | BISCO-574 | 60.0 | 63.0 | 50.0 | 57.7 | 53.0 | 55.3 | 50.7 | 52.3 | 62.0 | 54.7 | 52.0 | 52.7 | 50.3 | 48.3 |
| 29 | PAC-799 | 66.0 | 65.0 | 50.7 | 60.6 | 54.3 | 53.3 | 54.0 | 54.0 | 63.0 | 55.7 | 52.7 | 55.3 | 52.7 | 49.0 |
| 30 | BIO-265 | 69.0 | 59.3 | 52.0 | 60.1 | 57.3 | 56.0 | 57.0 | 53.3 | 61.3 | 57.0 | 55.3 | 55.7 | 53.0 | 52.3 |
| 31 | NMH-731 | 66.0 | 64.3 | 51.3 | 60.6 | 55.0 | 53.7 | 53.7 | 53.7 | 61.0 | 55.4 | 53.7 | 54.0 | 53.3 | 50.0 |
| 32 | NMH-920 | 65.3 | 62.7 | 51.0 | 59.7 | 54.3 | 51.3 | 52.7 | 54.0 | 58.0 | 54.1 | 51.7 | 53.0 | 53.0 | 50.3 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | Zone Mean | |
|----------|------------------|-------------------------|--------------|------|------|------|------|------|--------------|--------------|--------------|--------------|
| | | AMBI | Zone Mean | ARBH | HYDE | KARI | MAND | COIM | BANG JKAG | BANG BAYE | | BANG GANG |
| 1 | KNMH-40901 | 47.3 | 50.1 | 51.7 | 56.7 | 49.7 | 53.7 | 50.3 | 57.0 | 56.3 | 48.7 | 53.0 |
| 2 | KNMH-40902 | 48.0 | 49.8 | 53.0 | 56.3 | 49.7 | 53.7 | 53.0 | 57.0 | 57.0 | 48.3 | 53.5 |
| 3 | KNMH-40903 | 49.3 | 51.0 | 51.7 | 59.7 | 50.3 | 54.0 | 52.7 | 58.3 | 57.3 | 49.0 | 54.1 |
| 4 | KNMH-40904 | 51.3 | 52.4 | 52.0 | 56.7 | 49.3 | 54.3 | 55.0 | 58.0 | 58.3 | 50.0 | 54.2 |
| 5 | CMH08-154 | 51.3 | 49.7 | 52.0 | 56.0 | 51.0 | 57.3 | 52.0 | 57.7 | 57.0 | 49.3 | 54.0 |
| 6 | CMH08-156 | 50.0 | 49.6 | 52.0 | 56.0 | 50.7 | 54.0 | 52.0 | 58.0 | 56.0 | 50.0 | 53.6 |
| 7 | CMH08-282 | 52.7 | 52.2 | 53.7 | 57.0 | 50.7 | 54.7 | 54.3 | 57.0 | 55.0 | 49.3 | 54.0 |
| 8 | HKH-406 | 51.0 | 51.6 | 52.7 | 57.0 | 50.0 | 56.0 | 55.7 | 59.3 | 58.3 | 51.3 | 55.0 |
| 9 | HKH-407 | 50.0 | 50.8 | 52.7 | 55.7 | 49.7 | 55.0 | 57.7 | 58.7 | 57.3 | 53.0 | 55.0 |
| 10 | JH-12108 | 50.7 | 51.9 | 51.3 | 56.7 | 50.7 | 55.7 | 52.3 | 57.7 | 56.7 | 50.3 | 53.9 |
| 11 | JH-12114 | 47.0 | 50.0 | 52.0 | 55.7 | 50.7 | 53.0 | 51.7 | 57.0 | 54.0 | 49.3 | 52.9 |
| 12 | IDX-2901 | 50.3 | 51.5 | 52.0 | 56.3 | 51.3 | 55.7 | 55.7 | 59.0 | 58.3 | 50.0 | 54.8 |
| 13 | BMH-107 | 49.7 | 51.5 | 52.0 | 57.7 | 50.0 | 52.3 | 50.0 | 57.0 | 56.3 | 49.3 | 53.1 |
| 14 | BMH-109 | 51.0 | 52.9 | 52.3 | 57.7 | 52.3 | 55.0 | 54.0 | 59.3 | 58.0 | 49.7 | 54.8 |
| 15 | VMH-2000 | 50.0 | 52.3 | 51.7 | 56.7 | 51.0 | 55.3 | 55.0 | 59.7 | 59.0 | 49.7 | 54.8 |
| 16 | JCY2-7xHKI163-1 | 49.7 | 51.4 | 52.3 | 56.0 | 50.3 | 54.3 | 53.0 | 57.3 | 55.7 | 48.7 | 53.5 |
| 17 | HKI1126xHKI163-1 | 50.7 | 52.0 | 52.3 | 56.0 | 53.0 | 55.7 | 56.3 | 60.0 | 58.7 | 51.3 | 55.4 |
| 18 | MCH-39 | 53.0 | 54.4 | 52.0 | 58.3 | 52.3 | 57.3 | 56.7 | 60.3 | 60.0 | 51.3 | 56.0 |
| 19 | MCH-40 | 51.0 | 53.0 | 53.0 | 58.7 | 51.7 | 56.0 | 55.3 | 60.0 | 58.7 | 52.3 | 55.7 |
| 20 | APSA-91 | 52.0 | 53.3 | 51.3 | 57.3 | 53.7 | 56.0 | 54.7 | 60.0 | 60.0 | 51.0 | 55.5 |
| 21 | GK-3060 | 51.7 | 53.3 | 52.0 | 57.7 | 53.7 | 55.3 | 55.0 | 59.7 | 58.7 | 53.3 | 55.7 |
| 22 | GK-3074 | 50.3 | 49.6 | 50.7 | 54.3 | 49.3 | 53.0 | 50.7 | 56.3 | 54.0 | 48.0 | 52.0 |
| 23 | GK-3076 | 50.7 | 51.5 | 51.3 | 55.3 | 49.0 | 53.0 | 50.7 | 57.0 | 56.0 | 48.3 | 52.6 |
| 24 | LAXMIGOLD | 54.3 | 53.7 | 53.3 | 57.3 | 53.7 | 56.7 | 56.7 | 60.3 | 58.3 | 51.3 | 56.0 |
| 25 | LAXMI405 | 52.0 | 53.2 | 52.3 | 57.0 | 53.7 | 56.7 | 54.3 | 59.3 | 57.7 | 50.7 | 55.2 |
| 26 | LAXMI288 | 50.3 | 51.5 | 53.3 | 58.3 | 50.7 | 54.3 | 54.3 | 59.3 | 58.0 | 50.7 | 54.9 |
| 27 | BISCO-74 | 50.0 | 52.7 | 51.0 | 56.3 | 53.3 | 57.0 | 53.0 | 60.3 | 59.0 | 52.7 | 55.3 |
| 28 | BISCO-574 | 51.3 | 50.9 | 52.0 | 55.7 | 50.0 | 54.0 | 50.3 | 58.7 | 56.3 | 49.0 | 53.3 |
| 29 | PAC-799 | 51.0 | 52.1 | 52.0 | 58.7 | 53.0 | 56.7 | 57.7 | 60.3 | 58.0 | 51.3 | 56.0 |
| 30 | BIO-265 | 51.7 | 53.6 | 52.0 | 57.7 | 54.0 | 57.3 | 57.3 | 61.0 | 60.3 | 53.7 | 56.7 |
| 31 | NMH-731 | 52.0 | 52.6 | 53.0 | 57.0 | 52.0 | 54.0 | 57.3 | 58.3 | 58.7 | 50.3 | 55.1 |
| 32 | NMH-920 | 50.7 | 51.7 | 51.7 | 56.3 | 51.0 | 56.3 | 57.7 | 60.3 | 59.3 | 50.7 | 55.4 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | BANG JKAG | BANG BAYE | BANG GANG | Zone Mean |
|----------|--------------|-------------------------|--------------|-------|-------|-------|-------|-------|--------------|--------------|--------------|--------------|
| | | AMBI | Zone Mean | ARBH | HYDE | KARI | MAND | COIM | | | | |
| 33 | NMH-958 | 51.0 | 51.9 | 52.7 | 59.3 | 52.0 | 55.0 | 53.3 | 58.3 | 58.3 | 51.0 | 55.0 |
| 34 | AMAR6669 | 51.3 | 52.0 | 52.7 | 56.3 | 51.3 | 56.0 | 55.7 | 58.3 | 57.7 | 50.7 | 54.8 |
| 35 | OM7878 | 52.0 | 52.5 | 52.3 | 58.3 | 51.3 | 54.7 | 57.3 | 58.7 | 57.7 | 50.7 | 55.1 |
| 36 | JKMH-8033 | 48.3 | 51.8 | 52.7 | 56.0 | 49.7 | 54.0 | 53.3 | 57.7 | 57.0 | 49.3 | 53.7 |
| 37 | JKMH-7005 | 52.7 | 53.2 | 51.7 | 56.7 | 52.3 | 55.3 | 52.3 | 59.3 | 57.3 | 51.3 | 54.5 |
| 38 | PRO-377 | 50.3 | 51.7 | 51.3 | 56.3 | 50.7 | 54.0 | 55.0 | 57.7 | 55.3 | 49.3 | 53.7 |
| 39 | PRO-378 | 48.3 | 50.3 | 53.3 | 55.3 | 51.3 | 53.0 | 53.7 | 57.0 | 55.7 | 49.0 | 53.5 |
| 40 | NK-6246 | 51.0 | 52.1 | 52.0 | 60.3 | 51.7 | 57.0 | 53.0 | 60.3 | 58.0 | 50.7 | 55.4 |
| 41 | NK-6267 | 53.0 | 55.0 | 50.7 | 58.3 | 54.3 | 59.0 | 57.3 | 61.0 | 61.7 | 53.7 | 57.0 |
| 42 | NK-6607 | 47.3 | 50.2 | 52.3 | 55.3 | 50.0 | 55.3 | 52.7 | 58.3 | 56.7 | 50.3 | 53.9 |
| 43 | NK-6617 | 48.0 | 50.1 | 53.0 | 55.7 | 50.0 | 54.0 | 52.0 | 57.3 | 56.3 | 49.3 | 53.5 |
| 44 | KMH-3670 | 49.0 | 52.1 | 50.7 | 58.7 | 51.3 | 55.7 | 57.7 | 59.0 | 59.0 | 49.7 | 55.2 |
| 45 | KMH-548 | 50.7 | 53.2 | 51.3 | 55.7 | 54.7 | 56.0 | 54.3 | 60.0 | 59.3 | 52.3 | 55.5 |
| 46 | X7A303 | 51.0 | 52.0 | 52.7 | 57.3 | 52.3 | 55.3 | 54.0 | 59.7 | 57.7 | 51.3 | 55.0 |
| 47 | X8B562 | 53.0 | 52.1 | 51.7 | 56.3 | 52.3 | 55.7 | 53.3 | 59.7 | 57.3 | 53.3 | 55.0 |
| 48 | KH-404 | 51.0 | 52.2 | 52.0 | 57.3 | 51.7 | 54.7 | 53.7 | 57.7 | 58.0 | 50.3 | 54.4 |
| 49 | MAIZEPOLO | 52.7 | 53.1 | 52.7 | 57.7 | 52.7 | 55.0 | 52.0 | 59.0 | 57.3 | 50.7 | 54.6 |
| 50 | C.-1950 | 52.0 | 53.8 | 53.7 | 57.3 | 55.7 | 57.3 | 57.7 | 61.0 | 60.7 | 54.0 | 57.2 |
| 51 | C.-1945 | 53.0 | 52.9 | 52.0 | 56.0 | 51.7 | 56.0 | 57.3 | 59.0 | 60.0 | 51.3 | 55.4 |
| 52 | KF-105 | 48.0 | 51.9 | 51.7 | 56.3 | 52.7 | 55.7 | 54.7 | 59.0 | 59.3 | 50.3 | 55.0 |
| CHECKS | | | | | | | | | | | | |
| 53 | BIO-9681 | 47.7 | 49.9 | 52.0 | 55.7 | 49.3 | 53.0 | 52.7 | 57.0 | 54.7 | 48.0 | 52.8 |
| 54 | SEEDTEC-2324 | 50.0 | 52.6 | 53.0 | 55.7 | 52.3 | 54.3 | 53.0 | 58.7 | 59.3 | 50.3 | 54.6 |
| 55 | HQPM-1 | 50.3 | 51.6 | 52.3 | 56.7 | 51.3 | 56.0 | 55.7 | 58.7 | 59.3 | 50.7 | 55.1 |
| 56 | HQPM-7 | 51.7 | 50.9 | 52.3 | 58.0 | 50.7 | 55.7 | 57.3 | 59.3 | 57.3 | 50.0 | 55.1 |
| | Loc. Mean | 50.60 | 51.90 | 52.20 | 56.90 | 51.50 | 55.20 | 54.30 | 58.80 | 57.70 | 50.50 | 54.60 |
| | C.D. (5%) | 1.00 | 1.60 | 2.30 | 1.30 | 1.60 | 1.80 | 1.00 | 1.00 | 2.50 | 1.10 | 1.10 |
| | C.D. (1%) | 1.30 | 2.10 | 3.10 | 1.70 | 2.10 | 2.40 | 1.30 | 1.30 | 3.40 | 1.40 | 1.40 |
| | C.V. (%) | 1.23 | 2.40 | 2.74 | 1.37 | 1.91 | 2.02 | 1.09 | 1.03 | 2.72 | 1.32 | 1.96 |
| | F (Prob.) | 0.00 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | | |
|----------|--------------|---------------------|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|------|--------------|
| | | BAJA | BARA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | AMBI | Zone Mean |
| 33 | NMH-958 | 68.7 | 66.3 | 56.3 | 63.8 | 59.3 | 57.3 | 55.7 | 56.0 | 66.0 | 58.9 | 56.3 | 54.3 | 54.3 | 54.7 | 54.0 | 54.7 |
| 34 | AMAR6669 | 66.7 | 67.7 | 56.3 | 63.6 | 54.7 | 57.3 | 54.7 | 54.7 | 65.0 | 57.3 | 53.7 | 57.7 | 54.3 | 53.3 | 54.3 | 54.7 |
| 35 | OM7878 | 64.3 | 65.0 | 54.3 | 61.2 | 56.7 | 57.0 | 53.0 | 55.0 | 59.0 | 56.1 | 54.3 | 57.0 | 54.3 | 55.7 | 55.0 | 55.3 |
| 36 | JKMH-8033 | 64.3 | 65.3 | 54.7 | 61.4 | 54.7 | 55.3 | 53.3 | 54.3 | 61.0 | 55.7 | 53.7 | 56.7 | 53.7 | 55.7 | 51.3 | 54.2 |
| 37 | JKMH-7005 | 63.7 | 67.0 | 56.0 | 62.2 | 59.3 | 55.7 | 57.3 | 56.3 | 69.0 | 59.5 | 55.7 | 56.3 | 55.7 | 54.3 | 56.0 | 55.6 |
| 38 | PRO-377 | 64.3 | 65.3 | 54.0 | 61.2 | 57.0 | 58.7 | 54.7 | 54.7 | 68.0 | 58.6 | 54.3 | 57.0 | 53.3 | 52.0 | 53.0 | 53.9 |
| 39 | PRO-378 | 65.0 | 62.3 | 53.7 | 60.3 | 57.7 | 58.3 | 54.7 | 54.3 | 67.0 | 58.4 | 52.7 | 54.7 | 52.3 | 53.3 | 51.3 | 52.9 |
| 40 | NK-6246 | 67.0 | 65.0 | 54.3 | 62.1 | 57.7 | 58.0 | 57.3 | 56.7 | 67.7 | 59.5 | 54.7 | 56.3 | 57.3 | 53.7 | 53.7 | 55.1 |
| 41 | NK-6267 | 72.3 | 64.3 | 55.7 | 64.1 | 60.0 | 56.3 | 56.3 | 58.7 | 68.0 | 59.9 | 57.7 | 58.3 | 58.7 | 58.3 | 56.0 | 57.8 |
| 42 | NK-6607 | 64.0 | 65.3 | 53.3 | 60.9 | 54.7 | 55.3 | 52.0 | 55.0 | 65.0 | 56.4 | 53.7 | 54.0 | 53.0 | 53.7 | 50.3 | 52.9 |
| 43 | NK-6617 | 63.0 | 64.0 | 54.3 | 60.4 | 55.3 | 58.3 | 52.3 | 54.7 | 68.0 | 57.7 | 53.7 | 55.0 | 55.3 | 50.3 | 52.3 | 53.3 |
| 44 | KMH-3670 | 67.7 | 63.3 | 56.3 | 62.4 | 58.3 | 57.3 | 56.0 | 56.0 | 61.0 | 57.7 | 56.7 | 57.3 | 53.7 | 56.7 | 52.0 | 55.3 |
| 45 | KMH-548 | 69.3 | 65.7 | 56.3 | 63.8 | 60.7 | 57.7 | 55.3 | 55.7 | 64.3 | 58.7 | 56.3 | 58.0 | 56.0 | 54.7 | 53.0 | 55.6 |
| 46 | X7A303 | 64.3 | 62.0 | 54.7 | 60.3 | 58.0 | 56.7 | 55.3 | 55.0 | 68.0 | 58.6 | 55.0 | 54.3 | 55.0 | 54.7 | 53.7 | 54.5 |
| 47 | X8B562 | 64.7 | 65.0 | 56.3 | 62.0 | 59.7 | 57.3 | 55.0 | 55.0 | 64.7 | 58.3 | 55.3 | 56.3 | 53.0 | 52.3 | 56.0 | 54.6 |
| 48 | KH-404 | 62.0 | 65.0 | 55.0 | 60.7 | 56.3 | 55.7 | 54.0 | 55.3 | 62.7 | 56.8 | 55.3 | 55.7 | 53.3 | 55.3 | 54.0 | 54.7 |
| 49 | MAIZEPOLO | 66.0 | 67.0 | 56.3 | 63.1 | 59.3 | 57.0 | 54.7 | 57.7 | 62.3 | 58.2 | 56.7 | 55.3 | 57.0 | 55.3 | 55.7 | 56.0 |
| 50 | C.-1950 | 67.7 | 64.0 | 57.3 | 63.0 | 62.0 | 58.3 | 56.3 | 58.3 | 66.0 | 60.2 | 57.0 | 57.7 | 58.3 | 55.3 | 55.0 | 56.7 |
| 51 | C.-1945 | 69.0 | 63.3 | 54.0 | 62.1 | 58.7 | 52.7 | 56.0 | 56.7 | 65.0 | 57.8 | 54.7 | 57.3 | 54.0 | 53.7 | 56.0 | 55.1 |
| 52 | KF-105 | 69.0 | 65.0 | 55.7 | 63.2 | 56.7 | 54.3 | 54.0 | 55.3 | 67.0 | 57.5 | 54.7 | 57.0 | 55.3 | 54.3 | 50.7 | 54.4 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 63.3 | 63.7 | 54.3 | 60.4 | 56.3 | 55.3 | 51.7 | 54.3 | 69.0 | 57.3 | 54.0 | 53.3 | 53.3 | 53.0 | 50.7 | 52.9 |
| 54 | SEEDTEC-2324 | 67.0 | 65.7 | 54.7 | 62.4 | 60.3 | 54.7 | 54.7 | 56.0 | 66.0 | 58.3 | 56.3 | 55.0 | 56.7 | 54.3 | 53.0 | 55.1 |
| 55 | HQPM-1 | 61.3 | 66.3 | 55.7 | 61.1 | 58.3 | 55.3 | 53.3 | 55.3 | 68.3 | 58.1 | 54.0 | 55.3 | 55.7 | 54.0 | 53.3 | 54.5 |
| 56 | HQPM-7 | 62.0 | 66.0 | 54.7 | 60.9 | 54.3 | 57.0 | 53.7 | 54.0 | 60.0 | 55.8 | 55.0 | 52.7 | 53.0 | 52.7 | 54.0 | 53.5 |
| | Loc. Mean | 65.9 | 64.8 | 55.1 | 61.9 | 57.6 | 56.0 | 54.5 | 55.4 | 65.6 | 57.8 | 55.1 | 55.5 | 54.6 | 54.3 | 53.5 | 54.6 |
| | C.D. (5%) | 3.60 | 2.70 | 1.40 | 2.80 | 1.90 | 3.40 | 1.60 | 1.80 | 0.90 | 2.10 | 1.30 | 3.10 | 2.30 | 1.40 | 1.30 | 1.60 |
| | C.D. (1%) | 4.70 | 3.50 | 1.80 | 3.70 | 2.50 | 4.40 | 2.20 | 2.40 | 1.20 | 2.80 | 1.70 | 4.10 | 3.10 | 1.80 | 1.80 | 2.10 |
| | C.V. (%) | 3.35 | 2.55 | 1.52 | 2.79 | 2.01 | 3.71 | 1.87 | 2.03 | 0.87 | 2.92 | 1.45 | 3.44 | 2.63 | 1.54 | 1.54 | 2.30 |
| | F (Prob.) | 0.00 | 0.01 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 50% SILKING | | | | | BANG | BANG | BANG | HYDE | Zone | UDAI | BANS | CHHI | Zone | OV'L | GODH |
|-------|------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | MAND | COIM | JKAG | BAYE | GANG | BIOS | Mean | | | | Mean | Mean | |
| 1 | KNMH-40901 | 52.7 | 57.7 | 51.7 | 55.0 | 52.3 | 58.3 | 58.0 | 50.7 | 56.3 | 54.7 | 52.7 | 51.7 | 56.0 | 53.4 | 55.8 | 57.3 |
| 2 | KNMH-40902 | 52.0 | 59.0 | 51.0 | 55.0 | 55.3 | 57.3 | 58.3 | 49.3 | 56.3 | 54.9 | 53.0 | 53.7 | 54.7 | 53.8 | 55.6 | 54.3 |
| 3 | KNMH-40903 | 52.3 | 61.3 | 54.0 | 56.0 | 54.7 | 60.3 | 59.0 | 50.0 | 57.3 | 56.1 | 53.0 | 52.3 | 56.3 | 53.9 | 57.0 | 55.0 |
| 4 | KNMH-40904 | 53.0 | 59.0 | 52.3 | 56.3 | 57.3 | 59.7 | 60.0 | 51.7 | 57.7 | 56.3 | 54.7 | 51.7 | 58.3 | 54.9 | 57.4 | 55.0 |
| 5 | CMH08-154 | 53.0 | 58.0 | 53.3 | 58.7 | 54.0 | 57.7 | 57.7 | 51.3 | 55.3 | 55.4 | 52.7 | 52.3 | 54.7 | 53.2 | 55.2 | 54.7 |
| 6 | CMH08-156 | 53.0 | 58.0 | 52.7 | 55.3 | 53.7 | 58.0 | 57.0 | 52.0 | 55.7 | 55.0 | 54.0 | 54.0 | 53.3 | 53.8 | 55.2 | 53.0 |
| 7 | CMH08-282 | 44.7 | 59.0 | 52.7 | 55.7 | 56.3 | 57.7 | 56.0 | 50.7 | 56.7 | 54.4 | 53.0 | 55.0 | 53.0 | 53.7 | 55.7 | 59.0 |
| 8 | HKH-406 | 53.7 | 59.3 | 52.3 | 57.0 | 57.7 | 61.0 | 59.3 | 53.3 | 56.7 | 56.7 | 54.0 | 54.0 | 58.7 | 55.6 | 56.8 | 52.3 |
| 9 | HKH-407 | 53.7 | 57.3 | 51.7 | 56.0 | 59.7 | 59.7 | 58.3 | 54.3 | 56.3 | 56.3 | 54.7 | 52.7 | 56.0 | 54.4 | 56.3 | 53.7 |
| 10 | JH-12108 | 52.3 | 59.0 | 52.7 | 56.7 | 54.0 | 57.0 | 57.3 | 52.3 | 56.7 | 55.3 | 54.0 | 52.3 | 54.3 | 53.6 | 56.4 | 53.7 |
| 11 | JH-12114 | 53.0 | 58.3 | 53.3 | 54.0 | 53.7 | 57.3 | 55.0 | 51.3 | 55.7 | 54.6 | 52.7 | 53.7 | 54.0 | 53.4 | 55.6 | 53.0 |
| 12 | IDX-2901 | 52.7 | 58.3 | 53.3 | 56.7 | 57.7 | 59.3 | 59.3 | 51.7 | 56.0 | 56.1 | 53.3 | 52.0 | 54.7 | 53.3 | 55.9 | 54.3 |
| 13 | BMH-107 | 53.0 | 58.7 | 52.0 | 54.3 | 51.3 | 57.3 | 57.3 | 50.0 | 56.0 | 54.4 | 51.3 | 52.7 | 55.3 | 53.1 | 55.5 | 52.0 |
| 14 | BMH-109 | 53.0 | 58.7 | 54.3 | 56.7 | 56.0 | 60.0 | 59.0 | 51.7 | 59.0 | 56.5 | 55.3 | 55.0 | 56.7 | 55.7 | 57.1 | 54.0 |
| 15 | VMH-2000 | 52.3 | 58.7 | 53.3 | 56.0 | 57.0 | 60.7 | 60.3 | 51.7 | 57.3 | 56.4 | 54.7 | 53.0 | 56.0 | 54.6 | 57.1 | 57.7 |
| 16 | JCY2-7xHKI163-1 | 53.3 | 58.7 | 52.3 | 55.7 | 54.7 | 58.3 | 57.0 | 49.7 | 57.3 | 55.2 | 53.0 | 51.7 | 55.3 | 53.3 | 55.8 | 53.3 |
| 17 | HKI1126xHKI163-1 | 53.3 | 58.7 | 56.0 | 57.0 | 58.3 | 60.3 | 60.3 | 53.3 | 58.7 | 57.3 | 56.0 | 54.0 | 56.3 | 55.4 | 57.4 | 53.3 |
| 18 | MCH-39 | 52.7 | 60.7 | 54.7 | 58.7 | 59.0 | 61.3 | 61.0 | 53.3 | 58.7 | 57.8 | 54.7 | 53.7 | 57.3 | 55.2 | 57.5 | 54.7 |
| 19 | MCH-40 | 53.7 | 59.3 | 53.7 | 57.7 | 57.0 | 60.0 | 59.7 | 54.3 | 57.7 | 57.0 | 55.7 | 54.0 | 57.7 | 55.8 | 57.1 | 53.3 |
| 20 | APSA-91 | 51.7 | 59.7 | 55.7 | 57.3 | 56.0 | 60.3 | 61.0 | 53.0 | 58.0 | 57.0 | 56.3 | 53.7 | 56.3 | 55.4 | 57.6 | 52.7 |
| 21 | GK-3060 | 53.0 | 60.3 | 56.7 | 56.3 | 57.0 | 61.3 | 60.0 | 54.7 | 58.0 | 57.5 | 56.7 | 53.3 | 57.7 | 55.9 | 58.1 | 54.3 |
| 22 | GK-3074 | 52.3 | 57.7 | 51.0 | 54.3 | 52.7 | 56.7 | 55.0 | 49.0 | 55.3 | 53.8 | 52.0 | 54.7 | 51.3 | 52.7 | 54.5 | 52.7 |
| 23 | GK-3076 | 51.3 | 57.3 | 51.0 | 55.7 | 52.7 | 57.3 | 57.0 | 50.0 | 57.3 | 54.4 | 52.3 | 54.7 | 54.3 | 53.8 | 55.5 | 57.0 |
| 24 | LAXMIGOLD | 44.3 | 60.0 | 55.7 | 57.7 | 58.7 | 61.0 | 59.7 | 53.0 | 59.0 | 56.6 | 56.3 | 56.0 | 58.7 | 57.0 | 57.8 | 52.0 |
| 25 | LAXMI405 | 53.3 | 59.3 | 55.7 | 58.0 | 56.3 | 59.3 | 59.0 | 52.7 | 59.0 | 57.0 | 54.0 | 57.0 | 57.7 | 56.2 | 57.6 | 55.3 |
| 26 | LAXMI288 | 54.0 | 59.7 | 53.3 | 55.7 | 56.3 | 59.7 | 59.0 | 52.7 | 58.3 | 56.5 | 55.7 | 54.7 | 55.7 | 55.3 | 57.0 | 53.7 |
| 27 | BISCO-74 | 52.3 | 58.0 | 55.3 | 58.0 | 55.0 | 61.7 | 60.0 | 54.0 | 58.7 | 57.0 | 56.7 | 54.3 | 56.3 | 55.8 | 57.6 | 54.3 |
| 28 | BISCO-574 | 53.0 | 57.7 | 51.7 | 55.7 | 52.3 | 60.0 | 57.3 | 50.3 | 55.3 | 54.8 | 53.3 | 54.0 | 55.3 | 54.2 | 55.6 | 54.0 |
| 29 | PAC-799 | 53.0 | 60.0 | 54.3 | 57.7 | 59.7 | 60.0 | 59.0 | 53.3 | 59.0 | 57.3 | 55.0 | 52.7 | 56.7 | 54.8 | 57.4 | 54.3 |
| 30 | BIO-265 | 49.7 | 60.0 | 55.7 | 59.7 | 59.3 | 62.7 | 61.7 | 55.0 | 59.7 | 58.1 | 57.7 | 54.7 | 58.0 | 56.8 | 58.5 | 53.0 |
| 31 | NMH-731 | 54.0 | 59.3 | 54.3 | 55.3 | 59.0 | 58.7 | 60.3 | 52.3 | 57.7 | 56.8 | 55.3 | 55.0 | 56.7 | 55.7 | 57.3 | 54.7 |
| 32 | NMH-920 | 52.3 | 58.7 | 53.3 | 57.7 | 59.7 | 59.7 | 60.7 | 52.7 | 56.7 | 56.8 | 56.0 | 56.7 | 57.0 | 56.6 | 56.9 | 54.0 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | GODH |
|--------|--------------|---------------------|------|------|------|------|-----------|-----------|-----------|-----------|------|-----------|------|------|------|-----------|-----------|------|
| | | ARBH | HYDE | KARI | MAND | COIM | BANG JKAG | BANG BAYE | BANG GANG | HYDE BIOS | | | | | | | | |
| 33 | NMH-958 | 53.7 | 61.0 | 55.0 | 56.7 | 55.3 | 59.7 | 59.3 | 53.0 | 58.3 | 56.9 | 55.0 | 55.3 | 56.3 | 55.6 | 57.5 | 55.3 | |
| 34 | AMAR6669 | 53.7 | 59.0 | 53.3 | 57.0 | 57.7 | 58.7 | 59.0 | 53.0 | 58.0 | 56.6 | 55.3 | 53.7 | 56.7 | 55.2 | 57.0 | 53.7 | |
| 35 | OM7878 | 53.3 | 59.3 | 54.0 | 56.3 | 59.3 | 59.0 | 58.7 | 52.7 | 57.7 | 56.7 | 54.7 | 54.7 | 57.3 | 55.6 | 56.7 | 53.0 | |
| 36 | JKMH-8033 | 53.7 | 58.0 | 51.7 | 55.0 | 55.7 | 57.3 | 58.0 | 52.7 | 55.7 | 55.3 | 52.3 | 53.3 | 54.7 | 53.4 | 55.7 | 53.3 | |
| 37 | JKMH-7005 | 52.7 | 58.7 | 54.3 | 56.3 | 53.3 | 58.7 | 58.3 | 50.3 | 59.0 | 55.7 | 55.0 | 57.3 | 57.0 | 56.4 | 57.3 | 54.0 | |
| 38 | PRO-377 | 52.3 | 58.3 | 52.7 | 56.0 | 57.0 | 57.7 | 56.3 | 53.3 | 57.7 | 55.7 | 54.7 | 55.3 | 56.7 | 55.6 | 56.6 | 49.3 | |
| 39 | PRO-378 | 53.0 | 57.7 | 53.3 | 54.3 | 55.3 | 58.0 | 56.7 | 51.0 | 56.7 | 55.1 | 52.3 | 54.0 | 53.7 | 53.3 | 55.7 | 54.7 | |
| 40 | NK-6246 | 52.7 | 62.3 | 55.0 | 58.7 | 55.0 | 62.0 | 59.0 | 50.0 | 59.3 | 57.1 | 55.0 | 54.0 | 56.3 | 55.1 | 57.5 | 53.0 | |
| 41 | NK-6267 | 51.7 | 60.0 | 56.3 | 60.7 | 59.7 | 62.7 | 63.0 | 55.7 | 60.3 | 58.9 | 58.7 | 55.0 | 59.0 | 57.6 | 59.3 | 56.0 | |
| 42 | NK-6607 | 53.0 | 59.0 | 52.3 | 56.7 | 54.7 | 59.0 | 57.7 | 52.0 | 57.0 | 55.7 | 53.3 | 53.0 | 55.0 | 53.8 | 55.7 | 54.3 | |
| 43 | NK-6617 | 44.0 | 57.7 | 51.7 | 56.0 | 54.0 | 57.3 | 57.3 | 50.3 | 56.3 | 53.9 | 53.3 | 53.7 | 54.7 | 53.9 | 55.3 | 54.3 | |
| 44 | KMH-3670 | 52.0 | 61.0 | 54.0 | 57.3 | 59.7 | 60.3 | 60.0 | 51.7 | 58.7 | 57.2 | 55.0 | 54.7 | 55.7 | 55.1 | 57.3 | 54.7 | |
| 45 | KMH-548 | 52.0 | 58.0 | 56.7 | 57.0 | 55.7 | 60.3 | 60.3 | 53.3 | 58.3 | 56.9 | 56.0 | 54.3 | 57.0 | 55.8 | 57.7 | 52.3 | |
| 46 | X7A303 | 43.3 | 59.7 | 54.7 | 56.0 | 56.0 | 60.0 | 58.7 | 53.3 | 58.3 | 55.6 | 55.3 | 53.3 | 55.7 | 54.8 | 56.4 | 55.7 | |
| 47 | X8B562 | 52.3 | 59.3 | 54.0 | 57.3 | 55.3 | 60.3 | 59.0 | 55.7 | 57.7 | 56.8 | 54.7 | 53.7 | 56.0 | 54.8 | 57.0 | 53.7 | |
| 48 | KH-404 | 53.0 | 59.3 | 54.0 | 56.0 | 55.7 | 57.7 | 59.0 | 52.3 | 57.7 | 56.1 | 53.0 | 53.7 | 56.3 | 54.3 | 56.3 | 52.7 | |
| 49 | MAIZEPOLO | 53.3 | 60.0 | 55.0 | 56.3 | 53.3 | 59.3 | 58.3 | 52.7 | 58.0 | 56.3 | 56.7 | 55.7 | 57.3 | 56.6 | 57.5 | 54.3 | |
| 50 | C.-1950 | 54.3 | 58.7 | 59.3 | 58.3 | 60.0 | 62.3 | 62.3 | 54.7 | 60.3 | 58.9 | 57.0 | 55.7 | 59.7 | 57.4 | 59.0 | 55.0 | |
| 51 | C.-1945 | 52.7 | 57.7 | 54.0 | 58.0 | 59.3 | 59.0 | 61.0 | 53.3 | 58.3 | 57.0 | 56.3 | 54.0 | 55.7 | 55.3 | 57.2 | 56.0 | |
| 52 | KF-105 | 52.3 | 58.3 | 54.7 | 57.0 | 56.7 | 59.0 | 60.3 | 52.3 | 60.0 | 56.7 | 55.3 | 53.7 | 55.3 | 54.8 | 57.0 | 54.7 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 52.7 | 60.3 | 52.0 | 54.7 | 54.0 | 58.0 | 55.7 | 49.3 | 55.3 | 54.7 | 52.7 | 53.0 | 54.7 | 53.4 | 55.4 | 53.7 | |
| 54 | SEEDTEC-2324 | 43.7 | 59.7 | 54.7 | 55.3 | 55.0 | 59.0 | 60.7 | 52.3 | 57.7 | 55.3 | 54.7 | 53.0 | 56.7 | 54.8 | 56.7 | 56.3 | |
| 55 | HQPM-1 | 53.3 | 58.7 | 53.3 | 57.3 | 57.7 | 59.3 | 60.7 | 52.7 | 58.0 | 56.8 | 55.0 | 53.7 | 56.7 | 55.1 | 56.9 | 53.7 | |
| 56 | HQPM-7 | 53.0 | 59.7 | 52.7 | 56.3 | 59.3 | 60.3 | 58.3 | 52.0 | 57.3 | 56.6 | 54.0 | 55.3 | 56.0 | 55.1 | 56.1 | 54.3 | |
| | Loc. Mean | 52.0 | 59.0 | 53.7 | 56.6 | 56.2 | 59.4 | 58.9 | 52.2 | 57.6 | 56.2 | 54.6 | 54.0 | 56.1 | 54.9 | 56.7 | 54.2 | |
| | C.D. (5%) | 8.10 | 1.70 | 1.70 | 2.10 | 1.10 | 1.30 | 2.60 | 1.30 | 1.10 | 1.30 | 1.00 | 1.70 | 1.60 | 1.70 | 0.80 | 4.37 | |
| | C.D. (1%) | 10.60 | 2.30 | 2.20 | 2.80 | 1.50 | 1.70 | 3.40 | 1.70 | 1.50 | 1.70 | 1.30 | 2.30 | 2.20 | 2.30 | 1.10 | | |
| | C.V. (%) | 9.56 | 1.82 | 1.95 | 2.29 | 1.21 | 1.33 | 2.73 | 1.51 | 1.21 | 2.50 | 1.14 | 1.97 | 1.79 | 1.95 | 2.59 | 4.98 | |
| | F (Prob.) | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| | | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | |
|--------|--------------|----------------------|-------|------|-------|------|------|------|-------|-------|------|------|------|-------|------|
| SI | | Zone | | | | | | | | | Zone | | | | |
| No | PEDIGREE | BAJA | BARA | KANG | Mean | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA |
| 33 | NMH-958 | 121.0 | 108.0 | 94.3 | 107.8 | 88.3 | 89.7 | 97.3 | 102.0 | 101.3 | 95.7 | 89.0 | 92.3 | 97.3 | 90.0 |
| 34 | AMAR6669 | 116.3 | 109.3 | 91.3 | 105.7 | 88.0 | 87.0 | 96.7 | 101.7 | 98.7 | 94.4 | 83.7 | 92.3 | 96.0 | 89.7 |
| 35 | OM7878 | 118.3 | 107.3 | 91.7 | 105.8 | 89.7 | 88.0 | 94.3 | 101.0 | 99.0 | 94.4 | 86.3 | 95.7 | 95.7 | 90.7 |
| 36 | JKMH-8033 | 111.0 | 106.0 | 88.7 | 101.9 | 83.7 | 87.7 | 85.3 | 99.0 | 96.0 | 90.3 | 82.3 | 93.7 | 94.0 | 91.7 |
| 37 | JKMH-7005 | 111.7 | 108.3 | 94.0 | 104.7 | 87.7 | 91.0 | 96.3 | 98.7 | 95.3 | 93.8 | 85.7 | 94.0 | 96.3 | 88.7 |
| 38 | PRO-377 | 114.7 | 106.3 | 92.7 | 104.6 | 88.0 | 90.0 | 92.0 | 99.3 | 93.0 | 92.5 | 87.7 | 90.7 | 94.7 | 85.7 |
| 39 | PRO-378 | 119.3 | 104.7 | 92.3 | 105.4 | 88.7 | 90.7 | 95.0 | 99.7 | 99.0 | 94.6 | 84.0 | 91.3 | 94.7 | 88.3 |
| 40 | NK-6246 | 120.3 | 106.3 | 97.7 | 108.1 | 85.0 | 90.7 | 97.7 | 100.3 | 95.0 | 93.7 | 86.3 | 93.7 | 97.7 | 88.0 |
| 41 | NK-6267 | 121.7 | 106.0 | 91.3 | 106.3 | 90.7 | 90.7 | 93.3 | 99.3 | 93.0 | 93.4 | 89.3 | 93.7 | 97.7 | 92.7 |
| 42 | NK-6607 | 115.0 | 108.3 | 88.0 | 103.8 | 82.0 | 89.3 | 85.3 | 101.0 | 100.0 | 91.5 | 83.0 | 89.0 | 94.7 | 86.7 |
| 43 | NK-6617 | 114.3 | 106.0 | 90.3 | 103.6 | 83.7 | 88.0 | 85.7 | 100.7 | 101.3 | 91.9 | 85.0 | 90.0 | 96.3 | 85.3 |
| 44 | KMH-3670 | 122.7 | 104.7 | 95.7 | 107.7 | 92.0 | 87.7 | 96.7 | 101.7 | 98.3 | 95.3 | 86.3 | 94.7 | 94.3 | 91.0 |
| 45 | KMH-548 | 120.7 | 108.3 | 94.7 | 107.9 | 85.3 | 90.0 | 96.0 | 101.0 | 93.3 | 93.1 | 83.7 | 91.3 | 95.3 | 89.0 |
| 46 | X7A303 | 117.7 | 104.7 | 95.0 | 105.8 | 86.7 | 89.7 | 94.7 | 100.0 | 98.0 | 93.8 | 85.3 | 91.3 | 97.0 | 89.7 |
| 47 | X8B562 | 118.0 | 106.7 | 94.0 | 106.2 | 92.0 | 87.7 | 96.3 | 99.0 | 101.0 | 95.2 | 85.7 | 93.3 | 94.3 | 88.0 |
| 48 | KH-404 | 119.7 | 108.0 | 93.7 | 107.1 | 89.0 | 89.7 | 91.7 | 100.7 | 98.0 | 93.8 | 84.7 | 91.7 | 94.3 | 89.7 |
| 49 | MAIZEPOLO | 120.3 | 106.3 | 92.7 | 106.4 | 89.0 | 90.0 | 94.3 | 101.0 | 97.0 | 94.3 | 88.0 | 89.7 | 96.0 | 89.7 |
| 50 | C.-1950 | 120.3 | 105.0 | 94.3 | 106.6 | 91.3 | 91.7 | 97.7 | 102.7 | 99.0 | 96.5 | 88.7 | 94.0 | 100.7 | 90.0 |
| 51 | C.-1945 | 115.3 | 105.7 | 92.0 | 104.3 | 89.7 | 88.7 | 94.0 | 100.7 | 102.0 | 95.0 | 84.7 | 91.0 | 95.0 | 87.7 |
| 52 | KF-105 | 119.0 | 104.3 | 89.3 | 104.2 | 88.7 | 88.3 | 91.7 | 102.3 | 96.7 | 93.5 | 85.0 | 92.7 | 95.0 | 88.3 |
| CHECKS | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 117.7 | 106.7 | 91.0 | 105.1 | 82.7 | 89.3 | 87.3 | 99.0 | 99.0 | 91.5 | 84.3 | 87.0 | 95.0 | 87.7 |
| 54 | SEEDTEC-2324 | 119.7 | 106.7 | 94.3 | 106.9 | 87.7 | 89.7 | 90.3 | 98.0 | 96.7 | 92.5 | 89.3 | 93.3 | 96.7 | 87.3 |
| 55 | HQPM-1 | 120.0 | 109.3 | 92.7 | 107.3 | 94.3 | 85.3 | 97.7 | 103.0 | 99.3 | 95.9 | 86.3 | 94.3 | 98.3 | 88.3 |
| 56 | HQPM-7 | 115.7 | 107.3 | 94.7 | 105.9 | 86.0 | 88.0 | 98.0 | 100.0 | 100.0 | 94.4 | 86.3 | 94.0 | 94.3 | 89.7 |
| | Loc. Mean | 118.2 | 106.6 | 92.8 | 105.9 | 87.6 | 88.8 | 92.8 | 100.0 | 98.0 | 93.5 | 85.7 | 91.3 | 95.5 | 89.1 |
| | C.D. (5%) | 4.4 | 3.3 | 4.1 | 4.0 | 6.0 | 2.3 | 3.3 | 3.2 | 2.3 | 3.1 | 1.1 | 3.0 | 1.9 | 1.9 |
| | C.D. (1%) | 5.8 | 4.4 | 5.5 | 5.3 | 7.9 | 3.0 | 4.4 | 4.3 | 3.1 | 4.0 | 1.5 | 4.0 | 2.5 | 2.5 |
| | C.V. (%) | 2.3 | 1.9 | 2.7 | 2.3 | 4.2 | 1.6 | 2.2 | 2.0 | 1.5 | 2.6 | 0.8 | 2.1 | 1.2 | 1.3 |
| | F (Prob.) | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | OV'L Mean | GODH | | |
|----------|------------------|----------------------|--------------|-------|------|-------|-------|--------------|--------------|--------------|------|------|--------------|------|------|--------------|
| | | AMBI | Zone Mean | HYDE | KARI | MAND | COIM | BANG JKAG | BANG BAYE | Zone Mean | UDAI | BANS | | | CHHI | Zone Mean |
| 1 | KNMH-40901 | 78.3 | 85.2 | 100.0 | 84.3 | 94.0 | 103.0 | 103.3 | 91.3 | 96.0 | 85.3 | 87.3 | 87.0 | 86.6 | 92.3 | 86.3 |
| 2 | KNMH-40902 | 84.3 | 88.2 | 102.0 | 84.0 | 100.0 | 110.0 | 108.7 | 97.0 | 100.3 | 84.7 | 88.0 | 89.0 | 87.2 | 95.2 | 84.3 |
| 3 | KNMH-40903 | 83.7 | 88.5 | 104.3 | 83.0 | 96.0 | 108.0 | 104.0 | 92.0 | 97.9 | 84.3 | 88.0 | 89.0 | 87.1 | 93.3 | 84.7 |
| 4 | KNMH-40904 | 89.3 | 90.4 | 102.7 | 83.3 | 98.7 | 108.3 | 105.3 | 93.0 | 98.6 | 85.0 | 87.7 | 91.7 | 88.1 | 95.1 | 85.0 |
| 5 | CMH08-154 | 82.3 | 86.2 | 102.3 | 82.7 | 92.0 | 108.0 | 108.0 | 91.0 | 97.3 | 85.0 | 93.3 | 88.7 | 89.0 | 93.4 | 84.0 |
| 6 | CMH08-156 | 78.7 | 85.2 | 102.0 | 82.0 | 93.7 | 105.0 | 110.0 | 92.3 | 97.5 | 85.7 | 89.7 | 89.0 | 88.1 | 92.8 | 83.0 |
| 7 | CMH08-282 | 85.0 | 87.6 | 104.0 | 85.0 | 94.0 | 110.0 | 109.3 | 92.3 | 99.1 | 85.0 | 92.0 | 88.7 | 88.6 | 94.2 | 87.3 |
| 8 | HKH-406 | 89.3 | 89.9 | 102.3 | 83.3 | 98.7 | 111.3 | 112.7 | 93.0 | 100.2 | 85.7 | 95.7 | 89.3 | 90.2 | 95.7 | 82.3 |
| 9 | HKH-407 | 86.0 | 88.9 | 100.3 | 82.0 | 105.3 | 115.0 | 114.7 | 92.0 | 101.6 | 86.0 | 87.7 | 90.0 | 87.9 | 95.5 | 83.3 |
| 10 | JH-12108 | 82.7 | 88.0 | 104.0 | 84.0 | 93.3 | 105.0 | 108.0 | 92.3 | 97.8 | 85.7 | 87.3 | 91.0 | 88.0 | 94.5 | 82.3 |
| 11 | JH-12114 | 80.0 | 86.6 | 103.3 | 83.7 | 94.3 | 105.0 | 103.7 | 91.0 | 96.8 | 83.7 | 91.3 | 87.0 | 87.3 | 93.4 | 84.3 |
| 12 | IDX-2901 | 87.7 | 89.1 | 102.3 | 84.3 | 97.7 | 110.0 | 113.3 | 98.3 | 101.0 | 85.0 | 93.3 | 89.0 | 89.1 | 95.6 | 84.0 |
| 13 | BMH-107 | 86.7 | 89.4 | 103.7 | 83.0 | 98.3 | 102.0 | 105.7 | 95.7 | 98.1 | 83.3 | 91.7 | 90.3 | 88.4 | 94.4 | 81.7 |
| 14 | BMH-109 | 89.0 | 91.7 | 104.3 | 82.0 | 101.7 | 110.0 | 111.3 | 93.3 | 100.4 | 86.7 | 91.3 | 90.7 | 89.6 | 96.0 | 83.7 |
| 15 | VMH-2000 | 90.0 | 91.0 | 105.0 | 84.0 | 100.0 | 110.0 | 113.3 | 98.0 | 101.7 | 86.7 | 91.0 | 90.0 | 89.2 | 96.8 | 87.0 |
| 16 | JCY2-7xHKI163-1 | 86.0 | 90.4 | 104.3 | 84.3 | 96.3 | 105.0 | 110.7 | 95.7 | 99.4 | 85.0 | 92.0 | 90.0 | 89.0 | 95.6 | 83.7 |
| 17 | HKI1126xHKI163-1 | 92.0 | 91.9 | 103.7 | 85.0 | 105.0 | 112.0 | 114.0 | 98.7 | 103.1 | 87.0 | 92.3 | 93.0 | 90.8 | 97.8 | 83.3 |
| 18 | MCH-39 | 89.0 | 91.8 | 105.3 | 83.7 | 102.3 | 112.0 | 113.7 | 98.0 | 102.5 | 87.0 | 90.3 | 95.3 | 90.9 | 97.5 | 85.0 |
| 19 | MCH-40 | 89.0 | 92.1 | 104.0 | 84.7 | 101.3 | 110.0 | 113.0 | 96.7 | 101.6 | 86.0 | 91.7 | 94.7 | 90.8 | 96.6 | 83.3 |
| 20 | APSA-91 | 91.0 | 91.7 | 103.3 | 84.3 | 95.0 | 109.3 | 112.0 | 97.0 | 100.2 | 87.3 | 89.0 | 91.0 | 89.1 | 96.5 | 83.0 |
| 21 | GK-3060 | 90.0 | 91.7 | 105.0 | 84.0 | 101.3 | 110.0 | 112.0 | 96.0 | 101.4 | 87.7 | 92.0 | 93.0 | 90.9 | 96.8 | 85.0 |
| 22 | GK-3074 | 83.3 | 85.2 | 102.7 | 81.3 | 94.7 | 105.0 | 104.0 | 89.7 | 96.2 | 83.7 | 92.3 | 84.7 | 86.9 | 92.3 | 82.7 |
| 23 | GK-3076 | 85.7 | 89.6 | 100.0 | 82.7 | 96.7 | 105.0 | 108.0 | 94.3 | 97.8 | 84.3 | 91.3 | 90.7 | 88.8 | 94.8 | 88.0 |
| 24 | LAXMIGOLD | 90.0 | 90.8 | 104.3 | 83.7 | 101.0 | 115.0 | 111.7 | 95.3 | 101.8 | 87.3 | 91.3 | 92.0 | 90.2 | 96.3 | 82.0 |
| 25 | LAXMI405 | 85.3 | 89.4 | 105.7 | 84.0 | 96.3 | 110.0 | 108.0 | 95.0 | 99.8 | 85.3 | 95.3 | 93.3 | 91.3 | 96.0 | 85.3 |
| 26 | LAXMI288 | 82.3 | 89.5 | 103.7 | 83.0 | 96.3 | 110.0 | 109.3 | 96.7 | 99.8 | 86.7 | 92.0 | 91.7 | 90.1 | 95.8 | 83.7 |
| 27 | BISCO-74 | 86.0 | 90.7 | 101.3 | 84.0 | 99.0 | 108.0 | 116.7 | 97.7 | 101.1 | 86.7 | 90.7 | 92.3 | 89.9 | 96.5 | 84.7 |
| 28 | BISCO-574 | 86.3 | 87.8 | 101.7 | 83.3 | 97.0 | 105.0 | 107.3 | 95.3 | 98.3 | 85.0 | 90.7 | 89.7 | 88.4 | 93.8 | 85.0 |
| 29 | PAC-799 | 90.0 | 90.5 | 104.0 | 83.7 | 99.7 | 115.0 | 116.0 | 96.3 | 102.4 | 86.0 | 88.0 | 89.0 | 87.7 | 96.3 | 84.0 |
| 30 | BIO-265 | 89.3 | 91.5 | 104.3 | 85.3 | 102.3 | 115.0 | 112.0 | 96.7 | 102.6 | 89.3 | 92.7 | 96.3 | 92.8 | 97.5 | 83.0 |
| 31 | NMH-731 | 91.3 | 91.5 | 104.3 | 83.0 | 101.0 | 110.0 | 117.3 | 97.3 | 102.2 | 86.7 | 91.3 | 96.7 | 91.6 | 97.2 | 84.7 |
| 32 | NMH-920 | 86.3 | 89.7 | 103.0 | 85.0 | 101.0 | 115.0 | 112.7 | 95.7 | 102.1 | 87.3 | 94.0 | 91.3 | 90.9 | 96.0 | 84.0 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | OV'L Mean | GODH | | |
|--------|--------------|----------------------|-----------|-------|------|-------|-------|-----------|-----------|-----------|------|------|-----------|------|------|-----------|
| | | AMBI | Zone Mean | HYDE | KARI | MAND | COIM | BANG JKAG | BANG BAYE | Zone Mean | UDAI | BANS | | | CHHI | Zone Mean |
| 33 | NMH-958 | 89.7 | 91.7 | 104.7 | 84.3 | 103.0 | 108.0 | 113.0 | 98.0 | 101.8 | 85.7 | 92.0 | 91.3 | 89.7 | 97.3 | 85.3 |
| 34 | AMAR6669 | 89.0 | 90.1 | 102.7 | 83.7 | 101.3 | 110.0 | 113.3 | 95.7 | 101.1 | 86.7 | 91.0 | 93.7 | 90.4 | 96.3 | 83.7 |
| 35 | OM7878 | 90.0 | 91.7 | 104.3 | 83.0 | 101.7 | 115.0 | 112.0 | 95.7 | 101.9 | 86.3 | 91.0 | 92.0 | 89.8 | 96.8 | 83.0 |
| 36 | JKMH-8033 | 85.7 | 89.5 | 103.0 | 83.0 | 96.7 | 106.0 | 100.0 | 94.0 | 97.1 | 85.0 | 91.0 | 89.7 | 88.6 | 93.3 | 83.0 |
| 37 | JKMH-7005 | 85.0 | 89.9 | 100.7 | 85.0 | 97.0 | 105.0 | 107.3 | 94.0 | 98.2 | 86.3 | 94.3 | 95.0 | 91.9 | 95.3 | 83.3 |
| 38 | PRO-377 | 82.3 | 88.2 | 100.3 | 83.0 | 95.0 | 110.0 | 109.3 | 94.3 | 98.7 | 86.0 | 91.0 | 92.0 | 89.7 | 94.5 | 79.3 |
| 39 | PRO-378 | 82.0 | 88.1 | 100.3 | 84.3 | 94.3 | 105.0 | 106.0 | 94.3 | 97.4 | 86.0 | 96.7 | 90.3 | 91.0 | 94.9 | 82.7 |
| 40 | NK-6246 | 86.0 | 90.3 | 106.3 | 84.0 | 101.0 | 108.0 | 117.0 | 97.3 | 102.3 | 86.7 | 92.0 | 97.3 | 92.0 | 97.0 | 83.0 |
| 41 | NK-6267 | 85.7 | 91.8 | 104.3 | 85.0 | 100.3 | 115.0 | 115.0 | 100.0 | 103.3 | 89.7 | 91.7 | 97.7 | 93.0 | 97.4 | 86.0 |
| 42 | NK-6607 | 83.3 | 87.3 | 102.7 | 84.7 | 101.7 | 105.0 | 109.3 | 95.0 | 99.7 | 84.7 | 93.7 | 88.3 | 88.9 | 94.1 | 84.3 |
| 43 | NK-6617 | 82.3 | 87.8 | 101.3 | 83.3 | 99.0 | 105.0 | 108.7 | 95.7 | 98.8 | 85.0 | 93.3 | 89.7 | 89.3 | 94.1 | 84.7 |
| 44 | KMH-3670 | 82.7 | 89.8 | 105.7 | 84.0 | 101.0 | 115.0 | 116.7 | 99.3 | 103.6 | 86.3 | 93.0 | 92.0 | 90.4 | 97.3 | 84.0 |
| 45 | KMH-548 | 89.0 | 89.7 | 102.0 | 85.0 | 102.3 | 105.7 | 112.7 | 96.0 | 100.6 | 87.3 | 94.0 | 93.7 | 91.7 | 96.2 | 83.0 |
| 46 | X7A303 | 84.3 | 89.5 | 101.3 | 83.0 | 98.3 | 110.0 | 108.7 | 95.3 | 99.4 | 87.0 | 88.0 | 88.3 | 87.8 | 95.2 | 86.0 |
| 47 | X8B562 | 84.0 | 89.1 | 102.7 | 84.3 | 97.0 | 110.0 | 112.7 | 95.7 | 100.4 | 85.3 | 90.3 | 91.0 | 88.9 | 95.9 | 83.7 |
| 48 | KH-404 | 89.7 | 90.0 | 104.0 | 84.3 | 99.0 | 110.0 | 113.3 | 96.7 | 101.2 | 86.7 | 89.0 | 93.0 | 89.6 | 96.2 | 82.7 |
| 49 | MAIZEPOLO | 88.3 | 90.3 | 104.0 | 83.7 | 95.7 | 105.0 | 108.7 | 95.7 | 98.8 | 88.3 | 92.3 | 93.7 | 91.4 | 95.9 | 84.7 |
| 50 | C.-1950 | 90.0 | 92.7 | 100.3 | 84.0 | 104.3 | 115.0 | 116.0 | 100.0 | 103.3 | 88.0 | 92.0 | 98.0 | 92.7 | 98.3 | 85.0 |
| 51 | C.-1945 | 84.7 | 88.6 | 100.7 | 83.7 | 96.7 | 115.0 | 111.0 | 98.3 | 100.9 | 86.3 | 87.7 | 90.7 | 88.2 | 95.5 | 86.0 |
| 52 | KF-105 | 88.3 | 89.9 | 102.3 | 83.3 | 102.7 | 107.3 | 112.0 | 97.7 | 100.9 | 86.7 | 92.7 | 93.0 | 90.8 | 95.8 | 84.3 |
| CHECKS | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 83.3 | 87.5 | 103.7 | 83.7 | 96.0 | 104.7 | 106.7 | 94.0 | 98.1 | 84.0 | 91.0 | 88.0 | 87.7 | 93.7 | 83.7 |
| 54 | SEEDTEC-2324 | 86.0 | 90.5 | 101.3 | 84.7 | 96.0 | 108.0 | 110.0 | 99.0 | 99.8 | 85.3 | 91.0 | 92.0 | 89.4 | 95.6 | 86.3 |
| 55 | HQPM-1 | 90.0 | 91.5 | 102.3 | 83.3 | 103.3 | 110.0 | 114.0 | 101.0 | 102.3 | 86.3 | 90.3 | 95.0 | 90.6 | 97.5 | 83.7 |
| 56 | HQPM-7 | 86.0 | 90.1 | 104.3 | 84.7 | 101.3 | 115.0 | 116.0 | 97.0 | 103.1 | 86.0 | 90.7 | 93.0 | 89.9 | 96.7 | 84.7 |
| | Loc. Mean | 86.3 | 89.6 | 103.0 | 83.8 | 98.7 | 109.2 | 110.7 | 95.6 | 100.2 | 86.0 | 91.3 | 91.5 | 89.6 | 95.6 | 84.1 |
| | C.D. (5%) | 1.2 | 2.2 | 1.6 | 1.6 | 4.0 | 1.0 | 4.2 | 3.7 | 2.6 | 1.6 | 2.0 | 3.0 | 3.0 | 1.3 | 4.13 |
| | C.D. (1%) | 1.6 | 2.9 | 2.1 | 2.2 | 5.3 | 1.3 | 5.5 | 4.9 | 3.4 | 2.1 | 2.7 | 4.0 | 4.0 | 1.7 | |
| | C.V. (%) | 0.9 | 2.0 | 0.9 | 1.2 | 2.5 | 0.5 | 2.3 | 2.4 | 2.2 | 1.1 | 1.4 | 2.1 | 2.1 | 2.3 | 3.04 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.46 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | | | | | | | |
|----------|--------------|-----------------------|------|------|--------------|------|------|------|------|------|--------------|------|------|------|--------------|-------|
| | | BAJA | BARA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | VARA | Zone Mean | ARBH |
| 33 | NMH-958 | 26.9 | 23.3 | 18.4 | 22.9 | 27.1 | 31.7 | 24.1 | 32.1 | 15.0 | 26.0 | 24.4 | 25.2 | 29.8 | 26.5 | 21.2 |
| 34 | AMAR6669 | 29.2 | 22.7 | 18.1 | 23.3 | 31.9 | 32.4 | 22.8 | 31.4 | 15.0 | 26.7 | 24.8 | 20.5 | 31.5 | 25.6 | 18.9 |
| 35 | OM7878 | 28.8 | 22.7 | 20.0 | 23.8 | 21.4 | 34.3 | 22.1 | 28.4 | 15.0 | 24.2 | 23.7 | 24.3 | 29.7 | 25.9 | 23.4 |
| 36 | JKMH-8033 | 26.6 | 23.3 | 17.7 | 22.6 | 22.6 | 34.0 | 18.9 | 29.1 | 15.0 | 23.9 | 27.5 | 19.9 | 29.9 | 25.8 | 14.5 |
| 37 | JKMH-7005 | 26.2 | 24.3 | 19.7 | 23.4 | 28.2 | 32.5 | 26.3 | 37.9 | 15.0 | 28.0 | 24.3 | 29.2 | 31.6 | 28.4 | 18.0 |
| 38 | PRO-377 | 29.2 | 23.7 | 18.9 | 23.9 | 30.5 | 32.0 | 24.5 | 26.2 | 15.0 | 25.6 | 25.8 | 28.2 | 28.5 | 27.5 | 25.4 |
| 39 | PRO-378 | 27.9 | 23.0 | 18.1 | 23.0 | 29.2 | 31.7 | 22.3 | 37.5 | 15.0 | 27.1 | 27.2 | 26.6 | 30.6 | 28.1 | 22.0 |
| 40 | NK-6246 | 27.3 | 23.7 | 22.1 | 24.4 | 29.2 | 30.4 | 22.8 | 31.1 | 15.0 | 25.7 | 24.6 | 26.8 | 31.8 | 27.7 | 26.4 |
| 41 | NK-6267 | 28.7 | 22.3 | 18.0 | 23.0 | 28.4 | 32.4 | 24.0 | 31.5 | 15.0 | 26.2 | 27.1 | 26.5 | 32.1 | 28.6 | 24.2 |
| 42 | NK-6607 | 27.3 | 23.3 | 17.0 | 22.5 | 24.4 | 34.0 | 18.7 | 29.4 | 15.0 | 24.3 | 24.4 | 22.4 | 23.0 | 23.3 | 21.6 |
| 43 | NK-6617 | 29.2 | 24.3 | 17.3 | 23.6 | 33.2 | 31.9 | 20.2 | 34.3 | 15.0 | 26.9 | 23.3 | 23.2 | 27.5 | 24.7 | 20.9 |
| 44 | KMH-3670 | 29.3 | 21.3 | 19.8 | 23.5 | 31.8 | 30.4 | 23.2 | 36.1 | 15.0 | 27.3 | 24.1 | 23.8 | 28.2 | 25.4 | 27.4 |
| 45 | KMH-548 | 29.7 | 23.0 | 21.1 | 24.6 | 36.2 | 32.5 | 24.2 | 30.8 | 15.0 | 27.7 | 26.8 | 29.0 | 32.6 | 29.5 | 20.5 |
| 46 | X7A303 | 28.3 | 22.3 | 21.1 | 23.9 | 28.9 | 34.2 | 22.5 | 26.6 | 15.0 | 25.4 | 25.0 | 22.7 | 28.6 | 25.4 | 22.5 |
| 47 | X8B562 | 27.5 | 21.3 | 19.6 | 22.8 | 29.1 | 31.2 | 22.5 | 33.8 | 15.0 | 26.3 | 23.1 | 29.3 | 32.0 | 28.1 | 22.1 |
| 48 | KH-404 | 28.2 | 24.7 | 20.7 | 24.5 | 33.0 | 31.7 | 21.7 | 36.2 | 15.0 | 27.5 | 25.0 | 23.8 | 28.0 | 25.6 | 23.7 |
| 49 | MAIZEPOLO | 26.0 | 21.7 | 19.3 | 22.3 | 39.1 | 34.4 | 22.9 | 33.6 | 15.0 | 29.0 | 23.6 | 21.5 | 31.1 | 25.4 | 24.4 |
| 50 | C.-1950 | 28.3 | 21.0 | 20.4 | 23.2 | 36.3 | 32.4 | 24.6 | 34.2 | 15.0 | 28.5 | 23.9 | 26.8 | 31.5 | 27.4 | 22.8 |
| 51 | C.-1945 | 29.7 | 22.3 | 18.9 | 23.6 | 31.5 | 30.9 | 21.9 | 32.9 | 15.0 | 26.4 | 24.5 | 23.0 | 32.4 | 26.6 | 17.1 |
| 52 | KF-105 | 29.6 | 23.7 | 17.7 | 23.6 | 31.0 | 32.4 | 22.5 | 35.4 | 15.0 | 27.3 | 25.8 | 22.4 | 35.6 | 27.9 | 14.9 |
| | CHECKS | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 28.1 | 23.3 | 17.1 | 22.9 | 30.6 | 33.0 | 18.0 | 32.2 | 15.0 | 25.8 | 24.1 | 19.5 | 26.7 | 23.4 | 20.9 |
| 54 | SEEDTEC-2324 | 28.4 | 24.0 | 18.8 | 23.7 | 30.8 | 33.4 | 22.2 | 32.0 | 15.0 | 26.7 | 24.4 | 26.1 | 32.4 | 27.6 | 21.4 |
| 55 | HQPM-1 | 29.5 | 23.7 | 17.4 | 23.5 | 32.1 | 34.4 | 19.8 | 30.5 | 15.0 | 26.3 | 24.8 | 21.3 | 29.8 | 25.3 | 19.4 |
| 56 | HQPM-7 | 28.4 | 22.3 | 19.5 | 23.4 | 22.2 | 30.9 | 21.2 | 32.6 | 15.0 | 24.4 | 24.1 | 19.1 | 28.5 | 23.9 | 24.3 |
| | Loc. Mean | 28.3 | 22.9 | 19.3 | 23.5 | 30.5 | 32.3 | 21.8 | 31.2 | 15.0 | 26.1 | 24.8 | 24.3 | 30.0 | 26.4 | 21.5 |
| | C.D. (5%) | 3.00 | 2.60 | 2.40 | 2.20 | 2.70 | - | 2.20 | 4.30 | - | 3.10 | 0.90 | 0.00 | 0.00 | 3.70 | 3.70 |
| | C.D. (1%) | 3.90 | 3.40 | 3.20 | 2.90 | 3.60 | - | 2.90 | 5.60 | - | 4.00 | 1.20 | 0.00 | 0.00 | 4.90 | 4.90 |
| | C.V. (%) | 6.49 | 7.02 | 7.84 | 5.85 | 5.47 | - | 6.28 | 8.45 | - | 9.37 | 2.31 | 0.00 | 0.00 | 8.63 | 10.66 |
| | F (Prob.) | 0.00 | 0.72 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.11 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | MOISTURE % AT HARVEST | | | | BANG POCB | BANG JKAG | BANG BAYE | BANG GANG | HYDE BIOS | Zone | | | | Zone Mean | OV'L Mean | GODH |
|----------|------------------|-----------------------|------|------|------|--------------|--------------|--------------|--------------|--------------|------|------|------|------|--------------|--------------|------|
| | | HYDE | KARI | MAND | COIM | | | | | | UDAI | BANS | CHHI | Mean | | | |
| 1 | KNMH-40901 | 30.5 | 15.3 | 15.6 | 16.7 | 23.2 | 20.3 | 25.8 | 15.2 | 14.0 | 19.7 | 21.5 | 16.9 | 12.8 | 17.0 | 21.0 | 24.2 |
| 2 | KNMH-40902 | 29.3 | 15.0 | 15.9 | 18.8 | 24.3 | 23.1 | 30.6 | 15.1 | 14.0 | 20.7 | 22.9 | 17.0 | 13.2 | 17.7 | 22.3 | 24.8 |
| 3 | KNMH-40903 | 28.5 | 13.3 | 17.1 | 17.1 | 23.9 | 20.4 | 25.5 | 15.1 | 14.0 | 19.6 | 22.9 | 17.0 | 12.0 | 17.3 | 21.1 | 19.4 |
| 4 | KNMH-40904 | 26.5 | 14.3 | 16.5 | 18.1 | 23.9 | 22.0 | 26.7 | 15.2 | 14.0 | 19.7 | 23.2 | 16.8 | 14.4 | 18.1 | 21.9 | 24.3 |
| 5 | CMH08-154 | 31.2 | 13.7 | 16.7 | 19.3 | 23.9 | 25.8 | 29.4 | 16.1 | 14.0 | 21.1 | 23.3 | 17.3 | 12.1 | 17.6 | 22.8 | 26.0 |
| 6 | CMH08-156 | 31.5 | 13.7 | 16.6 | 19.6 | 24.6 | 25.8 | 29.0 | 15.2 | 14.0 | 21.1 | 23.0 | 16.9 | 15.6 | 18.5 | 22.4 | 28.3 |
| 7 | CMH08-282 | 26.6 | 16.0 | 17.1 | 20.1 | 25.3 | 25.8 | 28.0 | 16.3 | 14.0 | 21.1 | 22.5 | 17.5 | 16.4 | 18.8 | 22.5 | 28.5 |
| 8 | HKH-406 | 28.0 | 14.0 | 17.4 | 20.6 | 26.6 | 26.0 | 28.9 | 15.0 | 14.0 | 21.0 | 23.4 | 17.6 | 14.0 | 18.3 | 23.0 | 26.5 |
| 9 | HKH-407 | 26.7 | 13.0 | 18.2 | 21.3 | 27.1 | 24.8 | 29.1 | 15.0 | 14.0 | 20.9 | 23.3 | 17.3 | 14.1 | 18.2 | 22.6 | 27.9 |
| 10 | JH-12108 | 31.6 | 15.0 | 17.5 | 19.8 | 23.1 | 24.3 | 28.8 | 15.0 | 14.0 | 21.5 | 23.4 | 17.0 | 16.2 | 18.8 | 22.9 | 27.5 |
| 11 | JH-12114 | 30.5 | 15.3 | 16.2 | 18.8 | 25.4 | 23.3 | 30.1 | 15.2 | 14.0 | 20.8 | 23.1 | 17.3 | 16.8 | 19.0 | 23.5 | 27.7 |
| 12 | IDX-2901 | 28.4 | 15.3 | 17.5 | 17.9 | 24.3 | 21.7 | 27.3 | 15.7 | 14.0 | 20.4 | 22.8 | 17.7 | 15.5 | 18.6 | 22.4 | 28.7 |
| 13 | BMH-107 | 30.1 | 14.0 | 16.5 | 16.9 | 24.4 | 20.9 | 26.4 | 15.5 | 14.0 | 20.3 | 23.4 | 17.3 | 14.2 | 18.3 | 22.2 | 20.2 |
| 14 | BMH-109 | 30.1 | 13.0 | 16.6 | 19.8 | 25.2 | 21.4 | 27.5 | 15.4 | 14.0 | 19.8 | 23.1 | 18.1 | 12.3 | 17.8 | 22.3 | 28.3 |
| 15 | VMH-2000 | 30.4 | 15.0 | 17.8 | 20.8 | 25.3 | 23.6 | 31.2 | 15.0 | 14.0 | 21.2 | 23.3 | 17.3 | 15.4 | 18.7 | 23.1 | 24.2 |
| 16 | JCY2-7xHKI163-1 | 30.1 | 14.7 | 16.7 | 20.8 | 24.5 | 24.9 | 29.4 | 15.2 | 14.0 | 21.0 | 23.6 | 16.3 | 14.5 | 18.1 | 22.4 | 18.4 |
| 17 | HKI1126xHKI163-1 | 28.3 | 16.0 | 17.5 | 21.7 | 25.2 | 25.8 | 28.8 | 15.4 | 14.0 | 21.7 | 23.1 | 17.1 | 15.3 | 18.5 | 23.3 | 28.6 |
| 18 | MCH-39 | 32.1 | 15.0 | 17.6 | 20.6 | 25.2 | 23.1 | 29.5 | 16.0 | 14.0 | 21.1 | 22.7 | 16.4 | 14.2 | 17.7 | 23.0 | 28.5 |
| 19 | MCH-40 | 29.3 | 15.3 | 16.9 | 21.1 | 24.6 | 23.1 | 26.4 | 16.3 | 14.0 | 20.7 | 23.1 | 17.1 | 16.0 | 18.7 | 23.1 | 28.5 |
| 20 | APSA-91 | 30.9 | 15.3 | 17.6 | 20.3 | 24.5 | 24.6 | 31.6 | 15.3 | 14.0 | 21.8 | 22.9 | 16.9 | 16.6 | 18.8 | 23.4 | 28.1 |
| 21 | GK-3060 | 30.4 | 15.0 | 18.0 | 21.3 | 24.2 | 24.0 | 30.8 | 15.8 | 14.0 | 21.6 | 23.4 | 17.3 | 18.3 | 19.6 | 23.3 | 24.4 |
| 22 | GK-3074 | 27.9 | 12.3 | 15.0 | 18.6 | 23.6 | 21.4 | 24.7 | 15.8 | 14.0 | 19.0 | 22.0 | 16.9 | 11.6 | 16.8 | 20.9 | 28.3 |
| 23 | GK-3076 | 29.2 | 13.7 | 17.1 | 19.4 | 23.9 | 21.5 | 26.7 | 15.7 | 14.0 | 20.1 | 22.0 | 17.4 | 13.1 | 17.5 | 22.2 | 24.4 |
| 24 | LAXMIGOLD | 27.6 | 14.7 | 17.8 | 20.9 | 26.0 | 25.4 | 28.7 | 16.6 | 14.0 | 21.4 | 22.1 | 17.1 | 16.7 | 18.6 | 23.0 | 24.5 |
| 25 | LAXMI405 | 29.7 | 15.0 | 17.2 | 21.0 | 24.5 | 24.4 | 30.6 | 15.8 | 14.0 | 21.8 | 23.7 | 17.2 | 19.4 | 20.1 | 23.2 | 24.1 |
| 26 | LAXMI288 | 23.2 | 13.3 | 16.2 | 22.1 | 24.4 | 25.0 | 33.0 | 16.3 | 14.0 | 21.0 | 22.3 | 16.4 | 16.5 | 18.4 | 22.4 | 18.3 |
| 27 | BISCO-74 | 26.2 | 15.0 | 17.1 | 22.3 | 24.5 | 25.0 | 31.4 | 15.8 | 14.0 | 21.7 | 23.2 | 17.4 | 18.2 | 19.6 | 23.7 | 22.0 |
| 28 | BISCO-574 | 30.2 | 14.3 | 16.8 | 21.5 | 24.9 | 25.0 | 30.3 | 15.2 | 14.0 | 21.6 | 23.0 | 17.4 | 18.5 | 19.6 | 22.9 | 18.3 |
| 29 | PAC-799 | 23.2 | 14.7 | 17.3 | 20.8 | 25.0 | 24.5 | 29.5 | 16.0 | 14.0 | 20.7 | 22.6 | 17.2 | 13.5 | 17.8 | 22.4 | 28.2 |
| 30 | BIO-265 | 28.6 | 15.7 | 16.4 | 20.6 | 25.2 | 23.1 | 27.8 | 16.8 | 14.0 | 20.7 | 22.9 | 17.1 | 18.1 | 19.3 | 22.9 | 28.6 |
| 31 | NMH-731 | 29.6 | 14.0 | 17.8 | 21.4 | 24.3 | 22.2 | 30.6 | 16.0 | 14.0 | 21.1 | 22.5 | 17.4 | 18.8 | 19.5 | 23.4 | 26.5 |
| 32 | NMH-920 | 31.5 | 16.0 | 17.6 | 20.8 | 24.4 | 26.3 | 28.5 | 15.5 | 14.0 | 21.8 | 22.7 | 17.7 | 15.0 | 18.4 | 23.5 | 24.7 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | MOISTURE % AT HARVEST | | | | BANG | BANG | BANG | BANG | HYDE | Zone | UDAI | BANS | CHHI | Zone | OV'L | GODH |
|----------|--------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | HYDE | KARI | MAND | COIM | POCB | JKAG | BAYE | GANG | BIOS | Mean | | | | Mean | Mean | |
| 33 | NMH-958 | 29.5 | 15.3 | 17.5 | 20.9 | 24.6 | 22.3 | 28.3 | 15.2 | 14.0 | 20.9 | 23.0 | 17.0 | 15.7 | 18.6 | 22.6 | 20.0 |
| 34 | AMAR6669 | 25.8 | 14.7 | 15.9 | 18.7 | 23.7 | 22.6 | 25.6 | 17.0 | 14.0 | 19.7 | 23.2 | 17.0 | 14.6 | 18.2 | 22.1 | 27.3 |
| 35 | OM7878 | 27.7 | 14.0 | 17.5 | 21.8 | 25.2 | 23.7 | 31.1 | 15.7 | 14.0 | 21.4 | 22.6 | 16.6 | 14.8 | 18.0 | 22.4 | 26.8 |
| 36 | JKMH-8033 | 26.5 | 13.3 | 15.7 | 17.7 | 23.6 | 19.7 | 26.6 | 17.1 | 14.0 | 18.9 | 22.6 | 17.7 | 12.6 | 17.6 | 21.1 | 26.4 |
| 37 | JKMH-7005 | 29.2 | 16.3 | 16.4 | 18.7 | 27.3 | 22.3 | 29.5 | 15.1 | 14.0 | 20.7 | 23.3 | 17.2 | 15.8 | 18.7 | 23.2 | 27.5 |
| 38 | PRO-377 | 30.6 | 14.3 | 18.7 | 20.7 | 25.2 | 23.4 | 29.2 | 17.0 | 14.0 | 21.8 | 23.2 | 17.1 | 14.7 | 18.3 | 23.2 | 21.3 |
| 39 | PRO-378 | 30.7 | 15.3 | 18.3 | 20.6 | 25.5 | 24.3 | 29.3 | 15.3 | 14.0 | 21.5 | 22.5 | 16.6 | 16.3 | 18.4 | 23.3 | 27.1 |
| 40 | NK-6246 | 31.8 | 14.7 | 15.5 | 22.3 | 24.1 | 26.3 | 26.8 | 15.8 | 14.0 | 21.8 | 23.9 | 17.2 | 17.4 | 19.5 | 23.4 | 28.5 |
| 41 | NK-6267 | 26.9 | 15.3 | 17.6 | 21.6 | 25.1 | 23.8 | 32.7 | 17.2 | 14.0 | 21.8 | 23.4 | 17.5 | 19.1 | 20.0 | 23.5 | 20.0 |
| 42 | NK-6607 | 28.4 | 15.7 | 16.6 | 18.7 | 24.5 | 21.6 | 26.7 | 16.7 | 14.0 | 20.4 | 23.2 | 16.5 | 12.9 | 17.5 | 21.5 | 30.0 |
| 43 | NK-6617 | 28.2 | 14.3 | 16.4 | 20.1 | 24.5 | 22.3 | 27.8 | 16.4 | 14.0 | 20.5 | 23.5 | 17.7 | 15.5 | 18.9 | 22.5 | 18.4 |
| 44 | KMH-3670 | 31.5 | 15.0 | 18.4 | 21.6 | 25.7 | 23.6 | 34.4 | 15.8 | 14.0 | 22.7 | 24.0 | 17.0 | 15.7 | 18.9 | 23.6 | 23.5 |
| 45 | KMH-548 | 31.2 | 16.0 | 18.4 | 21.2 | 25.0 | 24.5 | 28.2 | 15.8 | 14.0 | 21.5 | 22.8 | 17.4 | 16.7 | 18.9 | 23.8 | 28.2 |
| 46 | X7A303 | 28.2 | 15.0 | 17.4 | 18.3 | 25.9 | 23.0 | 29.6 | 16.7 | 14.0 | 21.1 | 23.9 | 17.4 | 15.7 | 19.0 | 22.6 | 27.4 |
| 47 | X8B562 | 31.0 | 14.3 | 17.5 | 18.0 | 23.7 | 23.9 | 29.1 | 15.5 | 14.0 | 20.9 | 24.0 | 17.7 | 18.9 | 20.2 | 23.1 | 24.3 |
| 48 | KH-404 | 32.0 | 15.3 | 17.4 | 21.4 | 26.6 | 23.4 | 30.5 | 16.4 | 14.0 | 22.1 | 23.0 | 17.0 | 17.0 | 19.0 | 23.6 | 16.8 |
| 49 | MAIZEPOLO | 29.7 | 14.7 | 17.1 | 21.0 | 23.4 | 25.3 | 32.4 | 15.3 | 14.0 | 21.7 | 23.0 | 17.5 | 18.1 | 19.5 | 23.5 | 24.6 |
| 50 | C.-1950 | 28.3 | 15.0 | 18.5 | 22.6 | 26.0 | 25.1 | 31.3 | 16.0 | 14.0 | 21.9 | 23.6 | 17.3 | 19.8 | 20.2 | 23.9 | 24.5 |
| 51 | C.-1945 | 29.2 | 14.3 | 16.2 | 21.2 | 24.4 | 21.0 | 29.9 | 17.3 | 14.0 | 20.5 | 23.2 | 17.3 | 17.8 | 19.4 | 22.7 | 24.5 |
| 52 | KF-105 | 29.4 | 14.3 | 15.4 | 21.6 | 24.1 | 20.9 | 29.4 | 15.7 | 14.0 | 20.0 | 24.0 | 16.9 | 12.5 | 17.8 | 22.7 | 26.3 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 28.4 | 14.7 | 18.2 | 17.9 | 23.4 | 23.1 | 26.2 | 15.3 | 14.0 | 20.2 | 23.6 | 17.3 | 11.7 | 17.5 | 21.8 | 24.2 |
| 54 | SEEDTEC-2324 | 30.2 | 15.3 | 17.6 | 20.3 | 25.7 | 23.7 | 31.9 | 15.5 | 14.0 | 21.6 | 23.0 | 17.0 | 18.5 | 19.5 | 23.4 | 24.3 |
| 55 | HQPM-1 | 26.0 | 14.0 | 17.7 | 19.9 | 25.1 | 23.0 | 33.7 | 15.3 | 14.0 | 20.8 | 23.2 | 16.5 | 13.8 | 17.8 | 22.5 | 18.0 |
| 56 | HQPM-7 | 28.9 | 14.0 | 16.2 | 20.0 | 24.7 | 25.4 | 30.2 | 15.3 | 14.0 | 21.3 | 23.0 | 17.2 | 15.2 | 18.5 | 22.2 | 28.4 |
| | Loc. Mean | 29.0 | 14.7 | 17.0 | 20.1 | 24.8 | 23.5 | 29.2 | 15.8 | 14.0 | 21.0 | 23.1 | 17.1 | 15.5 | 18.6 | 22.7 | 25.0 |
| | C.D. (5%) | 2.20 | 1.40 | 0.70 | 0.40 | 1.80 | 2.60 | 2.80 | 1.10 | - | 1.30 | 0.90 | 0.30 | 1.20 | 2.00 | 1.00 | 0.00 |
| | C.D. (1%) | 2.90 | 1.90 | 0.90 | 0.60 | 2.30 | 3.40 | 3.70 | 1.40 | - | 1.70 | 1.20 | 0.40 | 1.60 | 2.70 | 1.30 | |
| | C.V. (%) | 4.66 | 5.95 | 2.53 | 1.28 | 4.40 | 6.75 | 5.89 | 4.19 | - | 6.83 | 2.53 | 1.22 | 4.93 | 6.78 | 7.84 | 0.00 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | PLANT HEIGHT CM | | | | | | | | | | Zone Mean | Zone Mean | Zone Mean | | | |
|----------|------------------|-----------------|------|------|--------------|------|------|------|------|------|------|--------------|--------------|--------------|------|------|------|
| | | BAJA | BARA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | BAHR | | | | DHOL | JASH | VARA |
| 1 | KNMH-40901 | 169 | 170 | 202 | 180 | 182 | 178 | 241 | 233 | 198 | 207 | 200 | 160 | 162 | 180 | 239 | 188 |
| 2 | KNMH-40902 | 153 | 144 | 225 | 174 | 154 | 145 | 216 | 247 | 180 | 188 | 167 | 148 | 152 | 160 | 237 | 173 |
| 3 | KNMH-40903 | 174 | 158 | 202 | 178 | 177 | 168 | 229 | 243 | 201 | 204 | 194 | 170 | 163 | 205 | 261 | 199 |
| 4 | KNMH-40904 | 191 | 154 | 195 | 180 | 192 | 153 | 254 | 223 | 189 | 202 | 190 | 171 | 154 | 165 | 210 | 178 |
| 5 | CMH08-154 | 175 | 169 | 223 | 189 | 182 | 195 | 249 | 257 | 215 | 220 | 186 | 164 | 180 | 155 | 249 | 187 |
| 6 | CMH08-156 | 175 | 186 | 229 | 197 | 179 | 187 | 227 | 270 | 192 | 211 | 201 | 163 | 177 | 205 | 265 | 202 |
| 7 | CMH08-282 | 186 | 140 | 255 | 194 | 145 | 175 | 276 | 283 | 181 | 212 | 204 | 195 | 194 | 210 | 253 | 211 |
| 8 | HKH-406 | 165 | 164 | 195 | 175 | 175 | 177 | 224 | 247 | 197 | 204 | 179 | 144 | 153 | 145 | 238 | 172 |
| 9 | HKH-407 | 156 | 179 | 203 | 179 | 151 | 162 | 198 | 217 | 209 | 187 | 179 | 135 | 127 | 150 | 246 | 167 |
| 10 | JH-12108 | 173 | 175 | 225 | 191 | 176 | 178 | 264 | 263 | 193 | 215 | 190 | 166 | 175 | 175 | 253 | 192 |
| 11 | JH-12114 | 170 | 161 | 225 | 185 | 178 | 177 | 239 | 237 | 195 | 205 | 197 | 158 | 147 | 170 | 246 | 183 |
| 12 | IDX-2901 | 177 | 162 | 229 | 189 | 151 | 161 | 231 | 220 | 195 | 192 | 182 | 144 | 151 | 125 | 242 | 169 |
| 13 | BMH-107 | 165 | 149 | 172 | 162 | 186 | 160 | 233 | 243 | 209 | 206 | 192 | 147 | 152 | 150 | 259 | 180 |
| 14 | BMH-109 | 172 | 176 | 250 | 199 | 187 | 175 | 260 | 263 | 200 | 217 | 213 | 182 | 175 | 210 | 271 | 210 |
| 15 | VMH-2000 | 168 | 155 | 230 | 184 | 165 | 170 | 228 | 243 | 203 | 202 | 177 | 146 | 165 | 135 | 228 | 170 |
| 16 | JCY2-7xHKI163-1 | 163 | 146 | 251 | 186 | 179 | 162 | 257 | 257 | 185 | 208 | 201 | 169 | 163 | 175 | 253 | 192 |
| 17 | HKI1126xHKI163-1 | 165 | 163 | 196 | 175 | 165 | 170 | 220 | 233 | 202 | 198 | 182 | 166 | 154 | 140 | 239 | 176 |
| 18 | MCH-39 | 200 | 159 | 252 | 204 | 192 | 167 | 269 | 297 | 185 | 222 | 221 | 200 | 209 | 215 | 274 | 224 |
| 19 | MCH-40 | 195 | 150 | 227 | 191 | 189 | 204 | 258 | 253 | 210 | 223 | 181 | 173 | 183 | 170 | 256 | 193 |
| 20 | APSA-91 | 171 | 149 | 214 | 178 | 178 | 168 | 238 | 237 | 191 | 202 | 173 | 152 | 162 | 150 | 234 | 174 |
| 21 | GK-3060 | 154 | 156 | 231 | 180 | 177 | 170 | 230 | 237 | 208 | 204 | 171 | 154 | 157 | 180 | 224 | 177 |
| 22 | GK-3074 | 146 | 167 | 225 | 179 | 154 | 172 | 203 | 227 | 203 | 192 | 173 | 128 | 120 | 150 | 234 | 161 |
| 23 | GK-3076 | 177 | 170 | 221 | 189 | 187 | 172 | 248 | 277 | 200 | 217 | 199 | 172 | 172 | 210 | 247 | 200 |
| 24 | LAXMIGOLD | 183 | 166 | 230 | 193 | 189 | 170 | 238 | 263 | 194 | 211 | 205 | 178 | 175 | 180 | 259 | 199 |
| 25 | LAXMI405 | 160 | 168 | 213 | 180 | 159 | 153 | 236 | 243 | 194 | 197 | 178 | 149 | 153 | 190 | 218 | 178 |
| 26 | LAXMI288 | 171 | 159 | 227 | 186 | 175 | 160 | 229 | 233 | 184 | 196 | 160 | 162 | 158 | 170 | 239 | 178 |
| 27 | BISCO-74 | 180 | 180 | 157 | 173 | 181 | 155 | 248 | 237 | 210 | 206 | 186 | 155 | 168 | 190 | 258 | 191 |
| 28 | BISCO-574 | 172 | 156 | 202 | 177 | 142 | 158 | 216 | 250 | 848 | 323 | 175 | 134 | 155 | 180 | 239 | 177 |
| 29 | PAC-799 | 177 | 150 | 201 | 176 | 174 | 157 | 236 | 253 | 199 | 204 | 191 | 156 | 168 | 190 | 232 | 188 |
| 30 | BIO-265 | 212 | 141 | 240 | 198 | 193 | 192 | 263 | 267 | 204 | 224 | 201 | 172 | 183 | 160 | 246 | 192 |
| 31 | NMH-731 | 180 | 177 | 240 | 199 | 191 | 168 | 258 | 273 | 199 | 218 | 201 | 175 | 178 | 190 | 250 | 199 |
| 32 | NMH-920 | 181 | 154 | 160 | 165 | 186 | 186 | 232 | 250 | 188 | 208 | 183 | 167 | 163 | 170 | 255 | 188 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | PLANT HEIGHT CM | | | | | BANG JKAG | BANG BAYE | BANG GANG | HYDE BIOS | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | GODH |
|-------|------------------|-----------------|------|------|------|------|-----------|-----------|-----------|-----------|-----------|------|------|------|-----------|-----------|------|
| | | ARBH | HYDE | KARI | MAND | COIM | | | | | | | | | | | |
| 1 | KNMH-40901 | 196 | 237 | 227 | 199 | 196 | 233 | 249 | 255 | 237 | 225 | 195 | 198 | 209 | 201 | 206 | 176 |
| 2 | KNMH-40902 | 170 | 223 | 204 | 195 | 170 | 267 | 214 | 252 | 217 | 212 | 210 | 198 | 174 | 194 | 193 | 164 |
| 3 | KNMH-40903 | 200 | 203 | 204 | 214 | 203 | 290 | 233 | 254 | 237 | 226 | 210 | 212 | 203 | 209 | 208 | 174 |
| 4 | KNMH-40904 | 194 | 229 | 204 | 206 | 198 | 257 | 249 | 248 | 210 | 222 | 222 | 207 | 197 | 208 | 202 | 172 |
| 5 | CMH08-154 | 185 | 237 | 234 | 200 | 188 | 302 | 267 | 263 | 247 | 236 | 225 | 212 | 212 | 216 | 215 | 165 |
| 6 | CMH08-156 | 184 | 235 | 210 | 218 | 193 | 280 | 256 | 226 | 243 | 227 | 220 | 201 | 203 | 208 | 213 | 176 |
| 7 | CMH08-282 | 209 | 238 | 233 | 210 | 202 | 280 | 287 | 264 | 272 | 244 | 228 | 203 | 218 | 217 | 222 | 184 |
| 8 | HKH-406 | 191 | 195 | 208 | 202 | 170 | 297 | 237 | 263 | 245 | 223 | 203 | 219 | 185 | 202 | 201 | 163 |
| 9 | HKH-407 | 173 | 205 | 191 | 187 | 165 | 257 | 209 | 244 | 232 | 207 | 173 | 207 | 175 | 185 | 189 | 142 |
| 10 | JH-12108 | 207 | 215 | 222 | 213 | 193 | 280 | 258 | 223 | 245 | 228 | 222 | 202 | 205 | 209 | 212 | 174 |
| 11 | JH-12114 | 198 | 225 | 207 | 198 | 179 | 277 | 235 | 289 | 250 | 229 | 198 | 192 | 197 | 196 | 206 | 176 |
| 12 | IDX-2901 | 161 | 213 | 197 | 200 | 183 | 280 | 228 | 242 | 232 | 215 | 203 | 198 | 203 | 202 | 196 | 159 |
| 13 | BMH-107 | 184 | 244 | 222 | 208 | 184 | 282 | 259 | 249 | 238 | 230 | 208 | 205 | 187 | 200 | 204 | 165 |
| 14 | BMH-109 | 194 | 226 | 227 | 206 | 209 | 280 | 260 | 266 | 253 | 236 | 200 | 213 | 214 | 209 | 219 | 178 |
| 15 | VMH-2000 | 179 | 204 | 210 | 197 | 176 | 260 | 235 | 261 | 227 | 216 | 205 | 216 | 197 | 206 | 199 | 167 |
| 16 | JCY2-7xHKI163-1 | 195 | 225 | 225 | 209 | 187 | 325 | 271 | 276 | 248 | 240 | 228 | 209 | 207 | 215 | 215 | 177 |
| 17 | HKI1126xHKI163-1 | 166 | 203 | 210 | 195 | 181 | 275 | 234 | 269 | 228 | 218 | 203 | 212 | 186 | 200 | 198 | 145 |
| 18 | MCH-39 | 205 | 240 | 245 | 230 | 204 | 310 | 269 | 242 | 250 | 244 | 198 | 202 | 222 | 207 | 226 | 166 |
| 19 | MCH-40 | 185 | 225 | 224 | 213 | 200 | 275 | 268 | 262 | 255 | 234 | 225 | 218 | 209 | 217 | 216 | 176 |
| 20 | APSA-91 | 178 | 213 | 205 | 204 | 182 | 278 | 245 | 274 | 235 | 224 | 222 | 212 | 182 | 205 | 202 | 158 |
| 21 | GK-3060 | 202 | 199 | 201 | 207 | 188 | 288 | 245 | 277 | 232 | 227 | 198 | 207 | 182 | 196 | 203 | 178 |
| 22 | GK-3074 | 188 | 200 | 184 | 197 | 182 | 273 | 216 | 272 | 217 | 214 | 212 | 191 | 192 | 198 | 193 | 174 |
| 23 | GK-3076 | 198 | 233 | 230 | 218 | 205 | 288 | 244 | 265 | 230 | 235 | 218 | 206 | 212 | 212 | 216 | 185 |
| 24 | LAXMIGOLD | 200 | 232 | 231 | 213 | 198 | 303 | 265 | 265 | 263 | 241 | 228 | 213 | 198 | 213 | 218 | 175 |
| 25 | LAXMI405 | 172 | 237 | 213 | 200 | 180 | 270 | 229 | 239 | 217 | 217 | 200 | 208 | 175 | 194 | 198 | 154 |
| 26 | LAXMI288 | 199 | 201 | 217 | 201 | 195 | 263 | 256 | 258 | 233 | 225 | 205 | 210 | 193 | 203 | 203 | 177 |
| 27 | BISCO-74 | 188 | 204 | 217 | 207 | 192 | 283 | 260 | 255 | 235 | 227 | 203 | 204 | 203 | 204 | 206 | 170 |
| 28 | BISCO-574 | 190 | 217 | 193 | 203 | 189 | 270 | 244 | 268 | 253 | 225 | 208 | 220 | 183 | 204 | 227 | 169 |
| 29 | PAC-799 | 197 | 196 | 207 | 213 | 206 | 303 | 254 | 238 | 248 | 229 | 235 | 212 | 210 | 219 | 208 | 172 |
| 30 | BIO-265 | 191 | 230 | 243 | 211 | 200 | 305 | 278 | 287 | 243 | 243 | 212 | 208 | 207 | 209 | 220 | 179 |
| 31 | NMH-731 | 194 | 237 | 230 | 217 | 193 | 298 | 255 | 256 | 258 | 237 | 220 | 216 | 220 | 219 | 219 | 172 |
| 32 | NMH-920 | 206 | 231 | 225 | 212 | 195 | 282 | 254 | 265 | 262 | 237 | 220 | 218 | 208 | 215 | 210 | 153 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | PLANT HEIGHT CM | | | | | BANG | BANG | BANG | HYDE | Zone | UDAI | BANS | CHHI | Zone | OV'L | GODH |
|--------|--------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | MAND | COIM | JKAG | BAYE | GANG | BIOS | Mean | | | | Mean | Mean | |
| 33 | NMH-958 | 195 | 230 | 217 | 197 | 187 | 287 | 251 | 256 | 208 | 225 | 215 | 213 | 196 | 208 | 209 | 171 |
| 34 | AMAR6669 | 208 | 222 | 213 | 219 | 191 | 308 | 263 | 226 | 232 | 231 | 222 | 214 | 198 | 211 | 209 | 160 |
| 35 | OM7878 | 187 | 228 | 217 | 209 | 187 | 268 | 259 | 245 | 260 | 229 | 223 | 194 | 189 | 202 | 210 | 173 |
| 36 | JKMH-8033 | 181 | 230 | 220 | 209 | 193 | 293 | 267 | 266 | 232 | 232 | 222 | 205 | 182 | 203 | 211 | 179 |
| 37 | JKMH-7005 | 190 | 218 | 214 | 201 | 190 | 287 | 237 | 229 | 232 | 222 | 210 | 211 | 194 | 205 | 200 | 170 |
| 38 | PRO-377 | 199 | 207 | 223 | 215 | 194 | 300 | 255 | 253 | 257 | 234 | 223 | 203 | 205 | 211 | 223 | 185 |
| 39 | PRO-378 | 200 | 206 | 221 | 198 | 191 | 265 | 232 | 233 | 243 | 221 | 220 | 212 | 200 | 211 | 202 | 178 |
| 40 | NK-6246 | 181 | 208 | 208 | 202 | 184 | 310 | 257 | 223 | 237 | 223 | 213 | 211 | 200 | 208 | 204 | 157 |
| 41 | NK-6267 | 193 | 250 | 221 | 210 | 207 | 320 | 261 | 245 | 255 | 240 | 213 | 205 | 199 | 206 | 219 | 178 |
| 42 | NK-6607 | 191 | 230 | 218 | 212 | 209 | 315 | 272 | 284 | 255 | 243 | 217 | 213 | 199 | 210 | 214 | 176 |
| 43 | NK-6617 | 190 | 230 | 214 | 199 | 189 | 295 | 244 | 273 | 207 | 227 | 207 | 214 | 201 | 207 | 208 | 171 |
| 44 | KMH-3670 | 212 | 223 | 221 | 203 | 203 | 317 | 268 | 254 | 267 | 241 | 230 | 207 | 208 | 215 | 218 | 174 |
| 45 | KMH-548 | 195 | 225 | 201 | 201 | 180 | 262 | 260 | 217 | 217 | 218 | 217 | 217 | 190 | 208 | 203 | 175 |
| 46 | X7A303 | 214 | 243 | 209 | 218 | 225 | 322 | 295 | 246 | 285 | 251 | 245 | 205 | 228 | 226 | 227 | 190 |
| 47 | X8B562 | 216 | 250 | 250 | 225 | 226 | 312 | 293 | 214 | 268 | 250 | 235 | 205 | 229 | 223 | 229 | 187 |
| 48 | KH-404 | 180 | 207 | 217 | 205 | 179 | 280 | 218 | 230 | 225 | 216 | 202 | 194 | 187 | 194 | 199 | 165 |
| 49 | MAIZEPOLO | 197 | 183 | 210 | 200 | 185 | 270 | 231 | 241 | 240 | 217 | 220 | 214 | 183 | 206 | 199 | 162 |
| 50 | C.-1950 | 205 | 240 | 234 | 217 | 191 | 310 | 265 | 265 | 247 | 242 | 230 | 201 | 200 | 210 | 214 | 179 |
| 51 | C.-1945 | 189 | 205 | 211 | 211 | 174 | 260 | 226 | 263 | 228 | 219 | 218 | 201 | 195 | 205 | 203 | 174 |
| 52 | KF-105 | 192 | 238 | 223 | 214 | 202 | 308 | 255 | 268 | 253 | 239 | 218 | 209 | 212 | 213 | 214 | 182 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 175 | 170 | 208 | 196 | 189 | 287 | 243 | 247 | 227 | 216 | 185 | 212 | 202 | 200 | 198 | 153 |
| 54 | SEEDTEC-2324 | 196 | 203 | 210 | 201 | 173 | 312 | 225 | 224 | 242 | 221 | 210 | 208 | 195 | 204 | 205 | 167 |
| 55 | HQPM-1 | 174 | 207 | 214 | 207 | 174 | 280 | 222 | 227 | 218 | 214 | 205 | 214 | 182 | 200 | 198 | 158 |
| 56 | HQPM-7 | 189 | 202 | 225 | 213 | 189 | 298 | 266 | 254 | 253 | 232 | 220 | 206 | 202 | 209 | 211 | 173 |
| | Loc. Mean | 191 | 220 | 216 | 207 | 191 | 287 | 250 | 253 | 241 | 228 | 214 | 208 | 199 | 207 | 209 | 171 |
| | C.D. (5%) | 12.0 | 18.0 | 8.0 | 19.0 | 6.0 | 30.0 | 23.0 | 11.0 | 14.0 | 12.0 | 14.0 | 7.0 | 18.0 | 16.0 | 13.0 | 28.7 |
| | C.D. (1%) | 16.0 | 24.0 | 10.0 | 26.0 | 8.0 | 39.0 | 30.0 | 15.0 | 19.0 | 15.0 | 19.0 | 10.0 | 24.0 | 21.0 | 17.0 | |
| | C.V. (%) | 4.01 | 5.03 | 2.17 | 5.81 | 2.05 | 6.43 | 5.65 | 2.70 | 3.60 | 5.47 | 4.15 | 2.16 | 5.54 | 4.80 | 10.9 | 10.4 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.55 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | EAR HEIGHT CM | | | | | | Zone | | | | | | Zone Mean | | | |
|----------|------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|------|------|
| | | BAJA | BARA | KANG | Mean | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | DHOL | | JASH | VARA | AMBI |
| 1 | KNMH-40901 | 85 | 62 | 103 | 83 | 103 | 83 | 109 | 102 | 92 | 98 | 121 | 90 | 71 | 100 | 106 | 97 |
| 2 | KNMH-40902 | 60 | 68 | 102 | 77 | 77 | 56 | 83 | 103 | 69 | 78 | 83 | 68 | 61 | 100 | 87 | 80 |
| 3 | KNMH-40903 | 85 | 68 | 102 | 85 | 90 | 81 | 111 | 112 | 98 | 98 | 104 | 90 | 70 | 110 | 109 | 96 |
| 4 | KNMH-40904 | 92 | 71 | 139 | 101 | 100 | 64 | 113 | 103 | 77 | 92 | 100 | 72 | 70 | 90 | 83 | 83 |
| 5 | CMH08-154 | 78 | 80 | 107 | 88 | 83 | 77 | 92 | 97 | 107 | 91 | 98 | 73 | 72 | 55 | 98 | 79 |
| 6 | CMH08-156 | 77 | 70 | 106 | 84 | 90 | 77 | 93 | 107 | 79 | 89 | 97 | 74 | 74 | 85 | 111 | 88 |
| 7 | CMH08-282 | 98 | 54 | 134 | 95 | 111 | 74 | 126 | 120 | 82 | 103 | 107 | 101 | 93 | 110 | 116 | 105 |
| 8 | HKH-406 | 81 | 84 | 107 | 90 | 92 | 81 | 91 | 93 | 84 | 88 | 85 | 72 | 63 | 55 | 90 | 73 |
| 9 | HKH-407 | 67 | 74 | 98 | 80 | 77 | 72 | 78 | 97 | 94 | 83 | 86 | 61 | 55 | 70 | 97 | 74 |
| 10 | JH-12108 | 83 | 78 | 135 | 99 | 100 | 87 | 127 | 113 | 84 | 102 | 105 | 87 | 79 | 100 | 109 | 96 |
| 11 | JH-12114 | 83 | 66 | 109 | 86 | 88 | 87 | 97 | 107 | 87 | 93 | 101 | 76 | 63 | 95 | 101 | 87 |
| 12 | IDX-2901 | 83 | 76 | 119 | 93 | 87 | 78 | 105 | 107 | 104 | 96 | 107 | 66 | 65 | 80 | 108 | 85 |
| 13 | BMH-107 | 76 | 68 | 90 | 78 | 92 | 69 | 88 | 100 | 106 | 91 | 101 | 66 | 58 | 70 | 91 | 77 |
| 14 | BMH-109 | 67 | 63 | 115 | 82 | 91 | 67 | 101 | 110 | 105 | 95 | 128 | 82 | 73 | 95 | 95 | 95 |
| 15 | VMH-2000 | 81 | 65 | 137 | 94 | 85 | 72 | 103 | 95 | 97 | 90 | 98 | 64 | 68 | 70 | 97 | 79 |
| 16 | JCY2-7xHKI163-1 | 81 | 62 | 133 | 92 | 117 | 62 | 101 | 103 | 73 | 91 | 98 | 84 | 63 | 80 | 89 | 83 |
| 17 | HKI1126xHKI163-1 | 75 | 75 | 92 | 81 | 81 | 78 | 78 | 87 | 93 | 83 | 93 | 81 | 51 | 55 | 85 | 73 |
| 18 | MCH-39 | 89 | 66 | 102 | 85 | 86 | 64 | 110 | 105 | 81 | 89 | 104 | 87 | 73 | 105 | 99 | 94 |
| 19 | MCH-40 | 90 | 60 | 123 | 91 | 92 | 92 | 106 | 105 | 106 | 100 | 85 | 77 | 68 | 65 | 99 | 79 |
| 20 | APSA-91 | 83 | 68 | 102 | 84 | 96 | 68 | 109 | 117 | 79 | 94 | 101 | 77 | 70 | 70 | 101 | 84 |
| 21 | GK-3060 | 76 | 71 | 117 | 88 | 88 | 67 | 100 | 103 | 100 | 92 | 129 | 74 | 62 | 85 | 79 | 86 |
| 22 | GK-3074 | 62 | 78 | 97 | 79 | 73 | 68 | 75 | 93 | 102 | 82 | 90 | 55 | 44 | 70 | 82 | 68 |
| 23 | GK-3076 | 75 | 69 | 102 | 82 | 88 | 74 | 104 | 108 | 85 | 92 | 103 | 71 | 64 | 105 | 97 | 88 |
| 24 | LAXMIGOLD | 84 | 68 | 124 | 92 | 91 | 73 | 106 | 107 | 85 | 92 | 98 | 85 | 77 | 90 | 98 | 90 |
| 25 | LAXMI405 | 83 | 73 | 115 | 90 | 88 | 68 | 114 | 105 | 81 | 91 | 95 | 82 | 70 | 120 | 96 | 93 |
| 26 | LAXMI288 | 88 | 66 | 115 | 90 | 100 | 82 | 111 | 113 | 78 | 97 | 100 | 84 | 64 | 85 | 97 | 86 |
| 27 | BISCO-74 | 86 | 79 | 98 | 88 | 92 | 71 | 107 | 103 | 102 | 95 | 109 | 75 | 75 | 80 | 97 | 87 |
| 28 | BISCO-574 | 81 | 71 | 100 | 84 | 69 | 57 | 84 | 93 | 105 | 82 | 105 | 60 | 60 | 100 | 99 | 85 |
| 29 | PAC-799 | 90 | 65 | 104 | 86 | 78 | 62 | 95 | 117 | 97 | 90 | 103 | 71 | 65 | 85 | 88 | 82 |
| 30 | BIO-265 | 98 | 52 | 122 | 91 | 101 | 82 | 111 | 107 | 101 | 100 | 96 | 81 | 71 | 50 | 90 | 78 |
| 31 | NMH-731 | 81 | 78 | 102 | 87 | 91 | 69 | 102 | 112 | 96 | 94 | 104 | 81 | 72 | 95 | 90 | 89 |
| 32 | NMH-920 | 85 | 69 | 98 | 84 | 92 | 80 | 92 | 110 | 74 | 90 | 104 | 81 | 59 | 90 | 98 | 86 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | EAR HEIGHT CM | | | | | BANG | BANG | BANG | HYDE | Zone | UDAI | BANS | CHHI | Zone | OV'L | GODH |
|----------|--------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | MAND | COIM | JKAG | BAYE | GANG | BIOS | Mean | | | | Mean | Mean | |
| 33 | NMH-958 | 102 | 103 | 89 | 98 | 102 | 132 | 131 | 131 | 100 | 110 | 100 | 108 | 101 | 103 | 99 | 81 |
| 34 | AMAR6669 | 115 | 96 | 93 | 121 | 117 | 133 | 136 | 122 | 108 | 116 | 110 | 107 | 106 | 108 | 101 | 84 |
| 35 | OM7878 | 104 | 97 | 95 | 123 | 113 | 125 | 145 | 122 | 115 | 115 | 122 | 97 | 104 | 108 | 102 | 82 |
| 36 | JKMH-8033 | 89 | 87 | 91 | 102 | 99 | 137 | 132 | 125 | 97 | 106 | 107 | 102 | 89 | 99 | 95 | 84 |
| 37 | JKMH-7005 | 103 | 88 | 97 | 107 | 106 | 133 | 137 | 126 | 105 | 111 | 105 | 105 | 105 | 105 | 99 | 82 |
| 38 | PRO-377 | 105 | 88 | 95 | 115 | 113 | 130 | 135 | 136 | 113 | 115 | 112 | 101 | 98 | 104 | 100 | 85 |
| 39 | PRO-378 | 102 | 99 | 91 | 95 | 113 | 127 | 121 | 127 | 107 | 109 | 110 | 100 | 90 | 100 | 96 | 73 |
| 40 | NK-6246 | 93 | 85 | 81 | 96 | 107 | 137 | 130 | 109 | 103 | 104 | 110 | 102 | 100 | 104 | 93 | 68 |
| 41 | NK-6267 | 113 | 132 | 95 | 104 | 128 | 155 | 140 | 129 | 127 | 125 | 98 | 110 | 125 | 111 | 111 | 88 |
| 42 | NK-6607 | 92 | 70 | 80 | 101 | 101 | 132 | 118 | 144 | 107 | 105 | 110 | 99 | 83 | 97 | 91 | 71 |
| 43 | NK-6617 | 90 | 74 | 82 | 92 | 114 | 140 | 112 | 151 | 92 | 105 | 90 | 111 | 85 | 96 | 91 | 74 |
| 44 | KMH-3670 | 116 | 79 | 93 | 105 | 116 | 163 | 124 | 135 | 108 | 115 | 105 | 95 | 108 | 102 | 97 | 79 |
| 45 | KMH-548 | 107 | 96 | 88 | 102 | 102 | 130 | 129 | 115 | 93 | 107 | 108 | 104 | 101 | 104 | 97 | 86 |
| 46 | X7A303 | 117 | 100 | 100 | 119 | 133 | 160 | 154 | 129 | 125 | 126 | 135 | 100 | 125 | 120 | 110 | 94 |
| 47 | X8B562 | 120 | 113 | 111 | 121 | 136 | 148 | 157 | 123 | 123 | 128 | 128 | 103 | 124 | 119 | 113 | 90 |
| 48 | KH-404 | 101 | 83 | 101 | 114 | 117 | 133 | 126 | 112 | 105 | 110 | 105 | 86 | 103 | 98 | 101 | 80 |
| 49 | MAIZEPOLO | 106 | 82 | 96 | 101 | 114 | 125 | 129 | 125 | 122 | 111 | 108 | 103 | 106 | 106 | 98 | 83 |
| 50 | C.-1950 | 110 | 77 | 91 | 105 | 91 | 132 | 123 | 145 | 108 | 109 | 110 | 103 | 87 | 100 | 94 | 77 |
| 51 | C.-1945 | 104 | 89 | 95 | 108 | 107 | 128 | 122 | 118 | 105 | 108 | 122 | 98 | 96 | 105 | 99 | 83 |
| 52 | KF-105 | 105 | 95 | 95 | 111 | 111 | 135 | 113 | 131 | 102 | 111 | 108 | 108 | 103 | 106 | 96 | 78 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 82 | 63 | 69 | 97 | 98 | 118 | 110 | 130 | 90 | 95 | 65 | 102 | 83 | 84 | 86 | 62 |
| 54 | SEEDTEC-2324 | 110 | 87 | 88 | 106 | 108 | 153 | 125 | 113 | 117 | 112 | 105 | 99 | 103 | 102 | 102 | 80 |
| 55 | HQPM-1 | 88 | 76 | 81 | 104 | 99 | 133 | 107 | 115 | 93 | 100 | 103 | 108 | 94 | 102 | 93 | 64 |
| 56 | HQPM-7 | 90 | 92 | 92 | 112 | 115 | 147 | 138 | 145 | 107 | 115 | 103 | 100 | 109 | 104 | 98 | 79 |
| | Loc. Mean | 102 | 92 | 91 | 106 | 111 | 135 | 130 | 132 | 107 | 112 | 107 | 102 | 102 | 104 | 99 | 80 |
| | C.D. (5%) | 10.0 | 13.0 | 8.0 | 18.0 | 3.0 | 19.0 | 17.0 | 10.0 | 9.0 | 8.0 | 11.0 | 6.0 | 14.0 | 15.0 | 5.0 | 21.7 |
| | C.D. (1%) | 14.0 | 17.0 | 10.0 | 24.0 | 4.0 | 25.0 | 22.0 | 13.0 | 12.0 | 10.0 | 14.0 | 8.0 | 18.0 | 19.0 | 6.0 | |
| | C.V. (%) | 6.3 | 8.8 | 5.3 | 10.8 | 1.9 | 8.6 | 8.0 | 4.6 | 5.3 | 7.5 | 6.3 | 3.6 | 8.3 | 8.7 | 9.0 | 16.8 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.60 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | GRAIN SHELLING % | | | Zone | | | | | Zone | | | | | |
|----------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | BAJA | BARA | Mean | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | JASH | VARA | AMBI | Mean |
| 1 | KNMH-40901 | 80.0 | 75.3 | 77.7 | 82.3 | 82.2 | 76.5 | 87.2 | 73.5 | 80.3 | 77.6 | 77.2 | 81.0 | 83.9 | 79.9 |
| 2 | KNMH-40902 | 87.1 | 78.3 | 82.7 | 83.3 | 87.9 | 77.8 | 85.7 | 74.0 | 81.7 | 75.9 | 77.7 | 77.0 | 83.5 | 78.5 |
| 3 | KNMH-40903 | 82.1 | 80.3 | 81.2 | 82.0 | 88.9 | 78.6 | 84.6 | 71.0 | 81.0 | 76.5 | 77.6 | 81.0 | 85.7 | 80.2 |
| 4 | KNMH-40904 | 79.5 | 75.0 | 77.3 | 80.8 | 85.0 | 73.9 | 87.2 | 73.0 | 80.0 | 75.3 | 76.4 | 77.0 | 83.7 | 78.1 |
| 5 | CMH08-154 | 79.4 | 79.3 | 79.4 | 86.5 | 81.0 | 80.0 | 86.6 | 78.0 | 82.4 | 75.6 | 80.1 | 82.0 | 85.8 | 80.9 |
| 6 | CMH08-156 | 79.6 | 78.0 | 78.8 | 85.0 | 86.0 | 81.6 | 86.3 | 73.5 | 82.5 | 79.1 | 79.5 | 82.0 | 85.7 | 81.6 |
| 7 | CMH08-282 | 79.6 | 82.7 | 81.1 | 84.8 | 82.7 | 77.3 | 87.2 | 72.0 | 80.8 | 77.5 | 78.9 | 80.0 | 84.7 | 80.3 |
| 8 | HKH-406 | 79.9 | 81.3 | 80.6 | 81.3 | 85.0 | 75.5 | 85.7 | 74.0 | 80.3 | 78.9 | 77.3 | 82.0 | 83.9 | 80.5 |
| 9 | HKH-407 | 82.3 | 81.0 | 81.6 | 80.0 | 80.0 | 77.0 | 86.6 | 72.0 | 79.1 | 80.6 | 76.5 | 82.0 | 82.9 | 80.5 |
| 10 | JH-12108 | 83.2 | 81.7 | 82.4 | 82.5 | 80.0 | 80.7 | 87.2 | 74.0 | 80.9 | 79.5 | 79.2 | 82.0 | 87.0 | 81.9 |
| 11 | JH-12114 | 79.9 | 82.0 | 80.9 | 85.9 | 84.4 | 78.9 | 86.2 | 74.0 | 81.9 | 78.6 | 79.7 | 82.0 | 84.7 | 81.2 |
| 12 | IDX-2901 | 81.9 | 78.3 | 80.1 | 84.9 | 81.3 | 80.3 | 84.6 | 72.0 | 80.6 | 81.1 | 80.6 | 80.0 | 86.4 | 82.0 |
| 13 | BMH-107 | 83.5 | 75.0 | 79.3 | 87.2 | 83.5 | 81.3 | 87.2 | 70.0 | 81.8 | 79.8 | 79.8 | 82.0 | 83.1 | 81.2 |
| 14 | BMH-109 | 80.1 | 83.3 | 81.7 | 84.0 | 74.7 | 79.0 | 85.7 | 73.0 | 79.3 | 79.1 | 80.5 | 82.0 | 86.3 | 82.0 |
| 15 | VMH-2000 | 80.2 | 77.3 | 78.8 | 80.4 | 88.0 | 77.8 | 85.7 | 74.5 | 81.3 | 79.4 | 80.0 | 79.0 | 83.1 | 80.4 |
| 16 | JCY2-7xHKI163-1 | 81.9 | 75.7 | 78.8 | 81.2 | 84.6 | 77.4 | 85.7 | 75.0 | 80.8 | 74.8 | 78.1 | 79.0 | 83.5 | 78.8 |
| 17 | HKI1126xHKI163-1 | 77.6 | 82.7 | 80.1 | 80.0 | 81.3 | 72.8 | 86.8 | 74.0 | 79.0 | 78.0 | 76.7 | 80.0 | 85.6 | 80.1 |
| 18 | MCH-39 | 83.0 | 80.3 | 81.6 | 82.4 | 86.0 | 75.6 | 87.8 | 75.0 | 81.4 | 76.1 | 80.2 | 78.0 | 83.7 | 79.5 |
| 19 | MCH-40 | 81.1 | 74.7 | 77.9 | 84.5 | 88.0 | 76.1 | 87.2 | 74.0 | 81.9 | 78.5 | 78.2 | 78.0 | 85.4 | 80.0 |
| 20 | APSA-91 | 79.2 | 79.7 | 79.4 | 84.3 | 81.2 | 77.2 | 83.3 | 74.5 | 80.1 | 79.3 | 80.6 | 80.0 | 84.7 | 81.1 |
| 21 | GK-3060 | 79.8 | 80.3 | 80.1 | 85.3 | 83.5 | 78.9 | 86.6 | 71.0 | 81.1 | 70.2 | 77.6 | 82.0 | 84.4 | 78.5 |
| 22 | GK-3074 | 85.6 | 75.7 | 80.6 | 84.1 | 77.8 | 82.2 | 86.3 | 73.5 | 80.8 | 81.5 | 78.6 | 82.0 | 84.6 | 81.7 |
| 23 | GK-3076 | 81.3 | 81.3 | 81.3 | 85.7 | 83.9 | 76.1 | 87.2 | 73.0 | 81.2 | 75.1 | 79.6 | 75.0 | 85.3 | 78.8 |
| 24 | LAXMIGOLD | 77.3 | 81.3 | 79.3 | 85.0 | 86.0 | 73.2 | 87.8 | 72.0 | 80.8 | 71.7 | 77.7 | 75.0 | 83.1 | 76.9 |
| 25 | LAXMI405 | 82.6 | 76.0 | 79.3 | 86.6 | 85.0 | 78.6 | 85.7 | 74.0 | 82.0 | 78.4 | 77.6 | 79.0 | 85.6 | 80.1 |
| 26 | LAXMI288 | 82.6 | 73.3 | 78.0 | 83.8 | 78.9 | 75.3 | 87.2 | 72.0 | 79.4 | 76.6 | 76.1 | 76.0 | 84.0 | 78.2 |
| 27 | BISCO-74 | 81.9 | 81.3 | 81.6 | 84.3 | 86.4 | 76.7 | 86.6 | 74.0 | 81.6 | 80.0 | 79.9 | 79.0 | 84.1 | 80.7 |
| 28 | BISCO-574 | 79.1 | 75.7 | 77.4 | 79.0 | 80.2 | 80.0 | 75.0 | 71.0 | 77.0 | 76.5 | 77.1 | 80.0 | 83.2 | 79.2 |
| 29 | PAC-799 | 82.0 | 76.0 | 79.0 | 81.1 | 80.0 | 77.0 | 87.2 | 73.5 | 79.8 | 79.0 | 76.4 | 81.0 | 82.8 | 79.8 |
| 30 | BIO-265 | 83.9 | 78.0 | 80.9 | 83.3 | 85.6 | 76.6 | 87.2 | 71.0 | 80.7 | 78.5 | 78.9 | 79.0 | 84.1 | 80.1 |
| 31 | NMH-731 | 88.4 | 84.0 | 86.2 | 87.8 | 81.3 | 78.9 | 87.1 | 74.0 | 81.8 | 77.1 | 78.0 | 82.0 | 85.6 | 80.7 |
| 32 | NMH-920 | 80.0 | 78.7 | 79.3 | 82.4 | 83.9 | 77.5 | 85.7 | 71.0 | 80.1 | 77.2 | 78.2 | 75.0 | 85.6 | 79.0 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | |
|----------|--------------|------------------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|--------------|
| | | BAJA | BARA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | JASH | VARA | AMBI | Zone Mean |
| 33 | NMH-958 | 81.4 | 77.3 | 79.4 | 82.5 | 83.6 | 74.5 | 87.8 | 76.5 | 81.0 | 76.2 | 78.3 | 82.0 | 86.6 | 80.8 |
| 34 | AMAR6669 | 80.8 | 74.3 | 77.5 | 84.8 | 83.3 | 75.6 | 83.3 | 74.0 | 80.2 | 74.2 | 76.1 | 79.0 | 84.1 | 78.3 |
| 35 | OM7878 | 80.3 | 81.3 | 80.8 | 86.3 | 78.9 | 74.3 | 85.7 | 71.0 | 79.2 | 75.2 | 79.5 | 79.0 | 86.4 | 80.0 |
| 36 | JKMH-8033 | 79.7 | 80.7 | 80.2 | 87.6 | 86.9 | 80.9 | 87.2 | 72.5 | 83.0 | 74.6 | 78.6 | 81.0 | 87.7 | 80.5 |
| 37 | JKMH-7005 | 79.6 | 78.0 | 78.8 | 84.6 | 82.4 | 71.9 | 87.2 | 78.0 | 80.8 | 81.3 | 79.4 | 78.0 | 84.5 | 80.8 |
| 38 | PRO-377 | 79.3 | 76.3 | 77.8 | 88.1 | 82.3 | 78.4 | 80.0 | 75.0 | 80.8 | 77.1 | 78.9 | 78.0 | 87.1 | 80.3 |
| 39 | PRO-378 | 80.2 | 82.0 | 81.1 | 83.6 | 80.0 | 77.5 | 81.3 | 72.0 | 78.9 | 75.8 | 77.2 | 76.0 | 81.6 | 77.6 |
| 40 | NK-6246 | 79.2 | 77.3 | 78.3 | 83.4 | 84.0 | 81.5 | 85.7 | 73.0 | 81.5 | 74.1 | 79.0 | 81.0 | 85.9 | 80.0 |
| 41 | NK-6267 | 83.0 | 79.7 | 81.3 | 84.1 | 87.4 | 76.2 | 82.2 | 72.5 | 80.5 | 74.5 | 77.5 | 75.0 | 86.8 | 78.4 |
| 42 | NK-6607 | 80.0 | 79.3 | 79.7 | 85.0 | 87.0 | 80.1 | 87.8 | 78.0 | 83.6 | 81.6 | 80.4 | 80.0 | 85.2 | 81.8 |
| 43 | NK-6617 | 79.0 | 80.3 | 79.7 | 83.3 | 80.0 | 79.0 | 86.6 | 75.0 | 80.8 | 74.4 | 77.0 | 77.0 | 83.8 | 78.0 |
| 44 | KMH-3670 | 77.8 | 80.7 | 79.3 | 85.5 | 82.6 | 76.7 | 87.2 | 72.0 | 80.8 | 74.3 | 79.7 | 79.0 | 86.6 | 79.9 |
| 45 | KMH-548 | 78.7 | 73.7 | 76.2 | 83.1 | 84.5 | 78.2 | 86.6 | 72.0 | 80.9 | 81.0 | 78.2 | 82.0 | 82.8 | 81.0 |
| 46 | X7A303 | 83.1 | 75.7 | 79.4 | 86.9 | 88.7 | 80.1 | 87.2 | 71.0 | 82.8 | 82.7 | 79.7 | 82.0 | 87.0 | 82.9 |
| 47 | X8B562 | 84.3 | 79.3 | 81.8 | 85.3 | 84.8 | 78.7 | 87.8 | 73.5 | 82.0 | 78.5 | 79.9 | 79.0 | 86.1 | 80.9 |
| 48 | KH-404 | 81.1 | 79.7 | 80.4 | 81.0 | 73.2 | 79.0 | 85.7 | 72.0 | 78.2 | 81.3 | 76.3 | 76.0 | 87.5 | 80.3 |
| 49 | MAIZEPOLO | 79.3 | 71.7 | 75.5 | 84.9 | 86.4 | 75.9 | 87.2 | 73.0 | 81.5 | 76.5 | 78.5 | 81.0 | 84.6 | 80.2 |
| 50 | C.-1950 | 78.7 | 74.3 | 76.5 | 84.6 | 77.7 | 77.4 | 87.8 | 70.0 | 79.5 | 75.5 | 79.0 | 77.0 | 82.5 | 78.5 |
| 51 | C.-1945 | 79.8 | 77.7 | 78.7 | 83.6 | 82.3 | 72.9 | 86.3 | 75.0 | 80.0 | 75.8 | 78.4 | 78.0 | 85.1 | 79.3 |
| 52 | KF-105 | 81.4 | 74.7 | 78.0 | 85.7 | 81.3 | 80.3 | 87.8 | 74.0 | 81.8 | 80.2 | 81.4 | 81.0 | 85.9 | 82.1 |
| | CHECKS | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 80.9 | 80.0 | 80.5 | 80.9 | 87.1 | 78.8 | 87.5 | 74.0 | 81.7 | 78.1 | 76.2 | 77.0 | 82.5 | 78.4 |
| 54 | SEEDTEC-2324 | 78.7 | 80.7 | 79.7 | 84.3 | 82.3 | 77.7 | 85.7 | 74.0 | 80.8 | 78.7 | 77.4 | 79.0 | 86.0 | 80.3 |
| 55 | HQPM-1 | 80.0 | 72.7 | 76.3 | 84.2 | 85.4 | 78.5 | 86.6 | 74.5 | 81.8 | 79.7 | 78.1 | 78.0 | 84.4 | 80.0 |
| 56 | HQPM-7 | 80.2 | 77.7 | 78.9 | 80.1 | 72.3 | 76.0 | 85.7 | 73.0 | 77.4 | 75.0 | 78.0 | 77.0 | 81.4 | 77.9 |
| | Loc. Mean | 80.9 | 78.4 | 79.6 | 83.8 | 83.0 | 77.6 | 86.0 | 73.3 | 80.8 | 77.5 | 78.5 | 79.3 | 84.8 | 80.0 |
| | C.D. (5%) | - | 7.0 | 5.2 | 2.4 | - | 4.0 | 0.0 | 0.9 | 3.0 | 2.3 | 0.0 | - | 3.7 | 2.4 |
| | C.D. (1%) | - | 9.2 | 6.9 | 3.2 | - | 5.3 | 0.0 | 1.1 | 4.0 | 3.1 | 0.0 | - | 4.9 | 3.2 |
| | C.V. (%) | - | 5.5 | 3.3 | 1.8 | - | 3.2 | 0.0 | 0.7 | 3.0 | 1.9 | 0.0 | - | 2.7 | 2.2 |
| | F (Prob.) | 0.00 | 0.06 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | - | 0.10 | 0.00 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | HYDE BIOS | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | GODH |
|----------|------------------|------------------|------|------|------|------|--------------|--------------|------|------|------|--------------|--------------|------|
| | | ARBH | HYDE | KARI | MAND | COIM | | | | | | | | |
| 1 | KNMH-40901 | 81.3 | 76.1 | 75.3 | 84.8 | 80.9 | 81.3 | 80.0 | 77.0 | 73.5 | 80.0 | 76.8 | 79.3 | 82.9 |
| 2 | KNMH-40902 | 85.5 | 76.5 | 78.0 | 79.0 | 79.5 | 80.3 | 79.8 | 82.8 | 65.3 | 76.0 | 74.7 | 79.6 | 78.7 |
| 3 | KNMH-40903 | 84.3 | 78.7 | 74.3 | 79.6 | 79.7 | 81.0 | 79.6 | 82.8 | 71.5 | 79.6 | 78.0 | 80.0 | 77.6 |
| 4 | KNMH-40904 | 82.9 | 79.3 | 79.0 | 80.1 | 77.1 | 80.3 | 79.8 | 78.5 | 66.9 | 81.2 | 75.5 | 78.6 | 81.4 |
| 5 | CMH08-154 | 85.6 | 80.8 | 73.7 | 84.9 | 78.7 | 81.3 | 80.8 | 80.8 | 70.6 | 79.1 | 76.8 | 80.5 | 79.0 |
| 6 | CMH08-156 | 83.0 | 77.9 | 81.3 | 84.0 | 81.4 | 80.0 | 81.3 | 82.2 | 66.1 | 85.2 | 77.8 | 80.9 | 81.0 |
| 7 | CMH08-282 | 83.6 | 79.7 | 75.7 | 83.1 | 78.5 | 80.0 | 80.1 | 80.0 | 69.8 | 82.3 | 77.3 | 80.0 | 70.0 |
| 8 | HKH-406 | 84.9 | 78.2 | 77.7 | 79.6 | 80.3 | 80.7 | 80.2 | 78.5 | 73.3 | 82.2 | 78.0 | 80.0 | 79.5 |
| 9 | HKH-407 | 84.8 | 78.7 | 78.3 | 78.0 | 75.3 | 80.3 | 79.2 | 76.6 | 64.9 | 84.8 | 75.4 | 79.1 | 80.5 |
| 10 | JH-12108 | 82.9 | 78.2 | 80.7 | 84.0 | 79.2 | 80.0 | 80.8 | 78.4 | 68.6 | 84.4 | 77.1 | 80.7 | 78.9 |
| 11 | JH-12114 | 83.6 | 78.5 | 70.7 | 84.4 | 81.5 | 80.7 | 79.9 | 82.3 | 70.0 | 79.0 | 77.1 | 80.3 | 80.0 |
| 12 | IDX-2901 | 85.4 | 79.1 | 74.3 | 83.1 | 80.7 | 80.0 | 80.4 | 77.9 | 75.5 | 88.3 | 80.6 | 80.8 | 74.0 |
| 13 | BMH-107 | 88.1 | 77.7 | 74.7 | 85.6 | 83.4 | 80.0 | 81.6 | 80.1 | 74.2 | 81.4 | 78.5 | 80.9 | 78.2 |
| 14 | BMH-109 | 82.4 | 78.1 | 74.3 | 82.6 | 81.0 | 80.7 | 79.9 | 80.9 | 69.1 | 86.6 | 78.9 | 80.2 | 79.3 |
| 15 | VMH-2000 | 85.5 | 78.8 | 83.0 | 80.4 | 81.4 | 80.0 | 81.5 | 77.5 | 72.4 | 82.0 | 77.3 | 80.3 | 77.2 |
| 16 | JCY2-7xHKI163-1 | 82.8 | 75.8 | 74.3 | 82.9 | 76.5 | 80.0 | 78.7 | 78.6 | 69.2 | 81.4 | 76.4 | 78.9 | 79.0 |
| 17 | HKI1126xHKI163-1 | 82.9 | 77.6 | 71.7 | 85.8 | 78.9 | 81.0 | 79.6 | 78.3 | 71.3 | 84.7 | 78.1 | 79.4 | 80.7 |
| 18 | MCH-39 | 86.4 | 77.6 | 80.3 | 83.3 | 78.2 | 80.0 | 81.0 | 75.9 | 77.3 | 81.2 | 78.1 | 80.4 | 79.9 |
| 19 | MCH-40 | 82.0 | 77.1 | 79.3 | 83.0 | 78.7 | 80.3 | 80.1 | 79.8 | 73.3 | 80.4 | 77.8 | 80.0 | 79.4 |
| 20 | APSA-91 | 83.3 | 83.8 | 81.7 | 83.4 | 80.3 | 80.0 | 82.1 | 79.6 | 67.2 | 91.0 | 79.3 | 80.7 | 78.9 |
| 21 | GK-3060 | 82.3 | 78.5 | 80.0 | 86.1 | 80.4 | 80.0 | 81.2 | 81.4 | 73.2 | 91.7 | 82.1 | 80.7 | 79.8 |
| 22 | GK-3074 | 87.5 | 80.5 | 74.3 | 86.0 | 83.3 | 81.0 | 82.1 | 83.9 | 75.2 | 86.3 | 81.8 | 81.5 | 81.0 |
| 23 | GK-3076 | 85.5 | 77.6 | 79.0 | 69.6 | 77.4 | 80.0 | 78.2 | 79.6 | 71.5 | 88.5 | 79.9 | 79.6 | 80.5 |
| 24 | LAXMIGOLD | 85.2 | 75.2 | 77.3 | 84.3 | 79.3 | 80.0 | 80.2 | 76.5 | 76.4 | 85.7 | 79.5 | 79.5 | 81.0 |
| 25 | LAXMI405 | 84.7 | 74.1 | 67.7 | 82.2 | 79.1 | 81.0 | 78.1 | 80.4 | 73.2 | 83.0 | 78.9 | 79.7 | 78.3 |
| 26 | LAXMI288 | 84.7 | 79.7 | 72.0 | 81.6 | 77.4 | 80.0 | 79.2 | 79.9 | 65.8 | 87.8 | 77.8 | 78.7 | 80.4 |
| 27 | BISCO-74 | 83.9 | 80.4 | 77.3 | 79.5 | 79.7 | 80.7 | 80.3 | 78.4 | 69.2 | 82.8 | 76.8 | 80.3 | 80.3 |
| 28 | BISCO-574 | 86.2 | 76.0 | 72.3 | 79.2 | 77.8 | 80.0 | 78.6 | 78.9 | 70.2 | 81.0 | 76.7 | 77.9 | 79.8 |
| 29 | PAC-799 | 79.1 | 79.6 | 77.0 | 85.2 | 80.5 | 80.0 | 80.2 | 75.8 | 73.6 | 84.0 | 77.8 | 79.5 | 78.3 |
| 30 | BIO-265 | 83.4 | 81.6 | 81.0 | 81.1 | 78.6 | 80.0 | 80.9 | 80.1 | 70.4 | 73.0 | 74.5 | 79.8 | 80.0 |
| 31 | NMH-731 | 83.2 | 78.6 | 73.0 | 82.9 | 80.0 | 80.3 | 79.6 | 76.2 | 74.4 | 80.6 | 77.1 | 80.7 | 74.6 |
| 32 | NMH-920 | 85.3 | 78.4 | 71.3 | 79.1 | 76.9 | 80.0 | 78.5 | 78.6 | 72.8 | 73.3 | 74.9 | 78.5 | 79.0 |

TABLE NO. 1 (CONTD.)

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

Table No. 1 (Continued)

| SI No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | |
|----------|------------------|----------------------------|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA |
| 1 | KNMH-40901 | 83 | 39 | 69 | 64 | 68 | 47 | 76 | 53 | 74 | 64 | 66 | 51 | 53 | 72 |
| 2 | KNMH-40902 | 89 | 38 | 64 | 64 | 64 | 50 | 70 | 58 | 76 | 64 | 64 | 51 | 54 | 81 |
| 3 | KNMH-40903 | 87 | 37 | 70 | 65 | 64 | 53 | 81 | 62 | 78 | 68 | 65 | 53 | 56 | 78 |
| 4 | KNMH-40904 | 84 | 42 | 65 | 64 | 64 | 51 | 76 | 60 | 76 | 66 | 66 | 49 | 53 | 75 |
| 5 | CMH08-154 | 74 | 45 | 63 | 61 | 60 | 50 | 76 | 61 | 75 | 64 | 69 | 51 | 55 | 81 |
| 6 | CMH08-156 | 81 | 39 | 73 | 64 | 70 | 49 | 72 | 62 | 78 | 66 | 67 | 48 | 54 | 78 |
| 7 | CMH08-282 | 75 | 44 | 73 | 64 | 71 | 53 | 72 | 56 | 76 | 66 | 66 | 53 | 55 | 78 |
| 8 | HKH-406 | 81 | 43 | 63 | 62 | 65 | 51 | 72 | 63 | 75 | 65 | 64 | 43 | 51 | 76 |
| 9 | HKH-407 | 79 | 43 | 60 | 61 | 57 | 48 | 78 | 59 | 72 | 63 | 63 | 46 | 52 | 74 |
| 10 | JH-12108 | 79 | 41 | 71 | 63 | 63 | 53 | 71 | 53 | 80 | 64 | 68 | 43 | 48 | 83 |
| 11 | JH-12114 | 82 | 44 | 69 | 65 | 65 | 51 | 73 | 63 | 78 | 66 | 66 | 51 | 57 | 76 |
| 12 | IDX-2901 | 86 | 43 | 78 | 69 | 71 | 51 | 76 | 62 | 73 | 66 | 71 | 52 | 58 | 76 |
| 13 | BMH-107 | 81 | 45 | 67 | 65 | 73 | 47 | 75 | 64 | 72 | 66 | 65 | 46 | 50 | 79 |
| 14 | BMH-109 | 90 | 38 | 78 | 68 | 68 | 53 | 72 | 61 | 75 | 66 | 67 | 46 | 57 | 73 |
| 15 | VMH-2000 | 71 | 33 | 51 | 52 | 55 | 48 | 74 | 51 | 69 | 59 | 64 | 43 | 51 | 76 |
| 16 | JCY2-7xHKI163-1 | 78 | 44 | 55 | 59 | 45 | 54 | 77 | 61 | 71 | 62 | 64 | 50 | 52 | 77 |
| 17 | HKI1126xHKI163-1 | 79 | 44 | 69 | 64 | 54 | 49 | 71 | 61 | 74 | 62 | 64 | 50 | 50 | 73 |
| 18 | MCH-39 | 80 | 40 | 65 | 61 | 65 | 49 | 74 | 62 | 74 | 65 | 67 | 51 | 56 | 74 |
| 19 | MCH-40 | 79 | 44 | 74 | 66 | 70 | 50 | 78 | 62 | 76 | 67 | 69 | 51 | 55 | 78 |
| 20 | APSA-91 | 77 | 44 | 56 | 59 | 60 | 52 | 78 | 54 | 76 | 64 | 61 | 49 | 53 | 78 |
| 21 | GK-3060 | 84 | 34 | 62 | 60 | 60 | 51 | 76 | 59 | 72 | 63 | 61 | 49 | 49 | 76 |
| 22 | GK-3074 | 84 | 37 | 66 | 62 | 67 | 51 | 71 | 61 | 78 | 66 | 63 | 47 | 51 | 79 |
| 23 | GK-3076 | 80 | 42 | 64 | 62 | 54 | 52 | 75 | 54 | 78 | 62 | 63 | 45 | 51 | 78 |
| 24 | LAXMIGOLD | 79 | 41 | 64 | 61 | 58 | 50 | 73 | 61 | 76 | 64 | 58 | 51 | 52 | 78 |
| 25 | LAXMI405 | 81 | 37 | 67 | 62 | 65 | 51 | 70 | 63 | 74 | 65 | 65 | 51 | 52 | 77 |
| 26 | LAXMI288 | 81 | 43 | 62 | 62 | 63 | 54 | 73 | 54 | 73 | 63 | 62 | 53 | 53 | 78 |
| 27 | BISCO-74 | 79 | 44 | 63 | 62 | 64 | 56 | 73 | 58 | 74 | 65 | 63 | 51 | 57 | 74 |
| 28 | BISCO-574 | 82 | 40 | 61 | 61 | 66 | 49 | 78 | 61 | 72 | 65 | 60 | 48 | 53 | 76 |
| 29 | PAC-799 | 76 | 36 | 64 | 58 | 68 | 52 | 72 | 57 | 78 | 66 | 63 | 47 | 51 | 74 |
| 30 | BIO-265 | 87 | 38 | 70 | 65 | 64 | 51 | 75 | 60 | 74 | 65 | 65 | 46 | 56 | 74 |
| 31 | NMH-731 | 84 | 46 | 61 | 64 | 58 | 51 | 75 | 58 | 76 | 64 | 65 | 53 | 53 | 76 |
| 32 | NMH-920 | 81 | 42 | 65 | 62 | 61 | 51 | 75 | 62 | 70 | 64 | 67 | 50 | 50 | 79 |

TABLE NO. 1 (CONTD.)

| SI No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | |
|----------|--------------|----------------------------|------|------|--------------|------|------|------|------|------|--------------|------|------|------|------|
| | | BAJA | BARA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA |
| 33 | NMH-958 | 78 | 40 | 67 | 62 | 64 | 48 | 74 | 57 | 71 | 63 | 68 | 48 | 55 | 76 |
| 34 | AMAR6669 | 82 | 35 | 65 | 61 | 63 | 49 | 73 | 59 | 76 | 64 | 62 | 47 | 53 | 71 |
| 35 | OM7878 | 76 | 41 | 65 | 61 | 63 | 51 | 77 | 57 | 69 | 64 | 63 | 50 | 57 | 78 |
| 36 | JKMH-8033 | 84 | 40 | 67 | 64 | 74 | 48 | 76 | 62 | 74 | 67 | 64 | 49 | 53 | 76 |
| 37 | JKMH-7005 | 80 | 39 | 74 | 64 | 65 | 52 | 76 | 60 | 76 | 66 | 63 | 49 | 55 | 81 |
| 38 | PRO-377 | 78 | 39 | 72 | 63 | 63 | 53 | 79 | 57 | 73 | 65 | 67 | 52 | 56 | 79 |
| 39 | PRO-378 | 86 | 46 | 70 | 67 | 68 | 53 | 78 | 62 | 74 | 67 | 64 | 49 | 58 | 81 |
| 40 | NK-6246 | 77 | 40 | 76 | 64 | 66 | 51 | 79 | 59 | 75 | 66 | 67 | 51 | 53 | 77 |
| 41 | NK-6267 | 84 | 38 | 63 | 62 | 73 | 51 | 70 | 57 | 74 | 65 | 69 | 51 | 53 | 73 |
| 42 | NK-6607 | 76 | 40 | 65 | 60 | 64 | 51 | 73 | 57 | 78 | 65 | 64 | 49 | 52 | 76 |
| 43 | NK-6617 | 84 | 43 | 74 | 67 | 73 | 52 | 72 | 61 | 77 | 67 | 63 | 50 | 52 | 80 |
| 44 | KMH-3670 | 79 | 43 | 61 | 61 | 55 | 53 | 76 | 59 | 76 | 64 | 64 | 42 | 51 | 72 |
| 45 | KMH-548 | 84 | 45 | 61 | 63 | 60 | 50 | 75 | 60 | 72 | 63 | 67 | 49 | 55 | 76 |
| 46 | X7A303 | 87 | 42 | 67 | 65 | 67 | 53 | 81 | 61 | 75 | 67 | 69 | 51 | 53 | 74 |
| 47 | X8B562 | 91 | 32 | 70 | 64 | 68 | 49 | 81 | 64 | 73 | 67 | 63 | 49 | 51 | 79 |
| 48 | KH-404 | 81 | 44 | 62 | 62 | 70 | 53 | 75 | 56 | 72 | 65 | 64 | 49 | 53 | 78 |
| 49 | MAIZEPOLO | 82 | 39 | 65 | 62 | 67 | 51 | 72 | 62 | 80 | 66 | 67 | 51 | 53 | 74 |
| 50 | C.-1950 | 76 | 39 | 57 | 57 | 57 | 50 | 69 | 59 | 76 | 62 | 65 | 48 | 53 | 72 |
| 51 | C.-1945 | 89 | 42 | 67 | 66 | 72 | 49 | 78 | 57 | 76 | 66 | 65 | 53 | 50 | 76 |
| 52 | KF-105 | 86 | 38 | 72 | 65 | 67 | 51 | 78 | 57 | 78 | 66 | 64 | 50 | 51 | 73 |
| | CHECKS | | | | | | | | | | | | | | |
| 53 | BIO-9681 | 80 | 48 | 69 | 66 | 62 | 49 | 62 | 61 | 74 | 62 | 64 | 49 | 53 | 74 |
| 54 | SEEDTEC-2324 | 82 | 42 | 65 | 63 | 63 | 51 | 67 | 62 | 74 | 63 | 64 | 53 | 56 | 73 |
| 55 | HQPM-1 | 81 | 38 | 71 | 63 | 69 | 53 | 71 | 61 | 78 | 66 | 60 | 51 | 49 | 79 |
| 56 | HQPM-7 | 75 | 43 | 63 | 60 | 67 | 54 | 74 | 62 | 72 | 66 | 64 | 48 | 51 | 76 |
| | Loc. Mean | 81 | 41 | 66 | 63 | 64 | 51 | 74 | 59 | 75 | 65 | 65 | 49 | 53 | 76 |
| | C.D. (5%) | 10.8 | 9.8 | 17.7 | 7.0 | 15.1 | 5.6 | 6.6 | 6.8 | 4.0 | 4.4 | 5.4 | 8.3 | 4.7 | 6.9 |
| | C.V. (%) | 8.2 | 14.9 | 16.5 | 6.9 | 14.6 | 6.8 | 5.5 | 7.1 | 3.3 | 5.4 | 5.1 | 10.4 | 5.4 | 5.6 |
| | F (Prob.) | 0.18 | 0.57 | 0.85 | 0.12 | 0.31 | 0.66 | 0.00 | 0.02 | 0.00 | 0.15 | 0.00 | 0.82 | 0.00 | 0.20 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

| SI No PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | Zone Mean | |
|-------------------|----------------------------|--------------|------|------|------|------|------|--------------|--------------|--------------|--------------|--------------|--------------|
| | AMBI | Zone Mean | ARBH | HYDE | KARI | MAND | COIM | BANG POCB | BANG JKAG | BANG BAYE | BANG GANG | | HYDE BIOS |
| 33 NMH-958 | 57 | 61 | 56 | 54 | 58 | 60 | 67 | 74 | 65 | 67 | 78 | 66 | 64 |
| 34 AMAR6669 | 62 | 59 | 47 | 57 | 58 | 61 | 67 | 75 | 63 | 65 | 79 | 66 | 64 |
| 35 OM7878 | 63 | 62 | 56 | 53 | 59 | 61 | 66 | 76 | 62 | 64 | 80 | 68 | 64 |
| 36 JKMh-8033 | 59 | 60 | 36 | 56 | 58 | 57 | 65 | 74 | 63 | 65 | 79 | 63 | 61 |
| 37 JKMh-7005 | 63 | 62 | 52 | 53 | 57 | 63 | 65 | 74 | 65 | 65 | 77 | 71 | 64 |
| 38 PRO-377 | 68 | 64 | 64 | 48 | 60 | 58 | 66 | 70 | 66 | 64 | 78 | 67 | 64 |
| 39 PRO-378 | 60 | 62 | 58 | 50 | 58 | 61 | 66 | 74 | 63 | 64 | 83 | 69 | 65 |
| 40 NK-6246 | 64 | 62 | 47 | 56 | 59 | 61 | 66 | 68 | 66 | 66 | 80 | 76 | 65 |
| 41 NK-6267 | 66 | 63 | 54 | 58 | 58 | 63 | 66 | 75 | 64 | 65 | 80 | 72 | 66 |
| 42 NK-6607 | 67 | 62 | 48 | 54 | 57 | 59 | 65 | 72 | 65 | 62 | 78 | 67 | 63 |
| 43 NK-6617 | 68 | 62 | 57 | 53 | 58 | 62 | 67 | 71 | 67 | 65 | 78 | 72 | 65 |
| 44 KMH-3670 | 52 | 56 | 54 | 54 | 57 | 63 | 67 | 70 | 67 | 59 | 80 | 66 | 64 |
| 45 KMH-548 | 63 | 62 | 59 | 47 | 59 | 64 | 66 | 70 | 66 | 64 | 78 | 67 | 64 |
| 46 X7A303 | 64 | 62 | 57 | 47 | 59 | 63 | 66 | 73 | 68 | 65 | 80 | 70 | 65 |
| 47 X8B562 | 69 | 62 | 61 | 57 | 58 | 64 | 66 | 76 | 67 | 64 | 78 | 71 | 66 |
| 48 KH-404 | 57 | 60 | 53 | 51 | 57 | 58 | 65 | 72 | 66 | 65 | 80 | 73 | 64 |
| 49 MAIZEPOLO | 66 | 62 | 58 | 49 | 58 | 64 | 63 | 70 | 65 | 63 | 80 | 77 | 65 |
| 50 C.-1950 | 61 | 60 | 46 | 49 | 58 | 60 | 67 | 73 | 47 | 59 | 80 | 71 | 61 |
| 51 C.-1945 | 64 | 62 | 61 | 50 | 59 | 60 | 65 | 77 | 67 | 66 | 80 | 74 | 66 |
| 52 KF-105 | 67 | 61 | 59 | 49 | 52 | 64 | 66 | 74 | 53 | 64 | 79 | 67 | 63 |
| CHECKS | | | | | | | | | | | | | |
| 53 BIO-9681 | 59 | 60 | 41 | 53 | 58 | 68 | 65 | 71 | 56 | 63 | 78 | 68 | 62 |
| 54 SEEDTEC-2324 | 60 | 61 | 58 | 57 | 57 | 57 | 65 | 75 | 65 | 63 | 78 | 64 | 64 |
| 55 HQPM-1 | 67 | 61 | 49 | 54 | 58 | 59 | 67 | 76 | 64 | 62 | 78 | 72 | 64 |
| 56 HQPM-7 | 66 | 61 | 61 | 52 | 57 | 59 | 67 | 76 | 65 | 63 | 80 | 65 | 65 |
| Loc. Mean | 62 | 61 | 53 | 53 | 58 | 61 | 66 | 72 | 64 | 64 | 79 | 70 | 64 |
| C.D. (5%) | 9.2 | 3.8 | 10.8 | 6.5 | 3.7 | 6.5 | 2.3 | 13.3 | 5.6 | 4.6 | 3.2 | 6.8 | 3.2 |
| C.V. (%) | 9.2 | 4.9 | 12.7 | 7.5 | 3.9 | 6.5 | 2.1 | 11.4 | 5.4 | 4.5 | 2.5 | 6.0 | 5.7 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.01 | 0.86 | 0.13 | 0.48 | 0.66 | 0.00 | 0.01 | 0.16 | 0.00 | 0.16 |

TABLE NO. 1 (CONTD.)

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

TABLE NO. 1 (CONTD.)

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

TABLE No. 2

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

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|----------|------------------|-------------------------------------|----|------|----|--------------|----|------|----|------|----|------|----|------|----|-------|----|--------------|----|
| | | BAJA | | KANG | | ZN 1 MEAN | | DELH | | KARN | | LUDH | | PANT | | KANP | | ZN 2 MEAN | |
| | | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | |
| 1 | PLM-21 | 5032 | 43 | 5754 | 17 | 5393 | 40 | 1741 | 44 | 4072 | 42 | 3714 | 41 | 6414 | 39 | 9978 | 7 | 5184 | 41 |
| 2 | L-183 | 5668 | 38 | 5765 | 16 | 5716 | 34 | 2842 | 32 | 4806 | 33 | 3107 | 44 | 6262 | 42 | 7975 | 44 | 4998 | 43 |
| 3 | EHL-162308 | 7585 | 11 | 5644 | 20 | 6614 | 9 | 3038 | 26 | 5769 | 7 | 4468 | 33 | 8730 | 16 | 8511 | 38 | 6103 | 26 |
| 4 | PMSY-3 | 6666 | 22 | 6077 | 6 | 6371 | 17 | 3321 | 22 | 4599 | 37 | 5230 | 21 | 7721 | 27 | 9803 | 11 | 6135 | 24 |
| 5 | PMSW-4 | 5635 | 39 | 6162 | 4 | 5898 | 29 | 2322 | 43 | 4487 | 40 | 3766 | 40 | 6383 | 40 | 9988 | 6 | 5389 | 40 |
| 6 | PMSQ-5 | 6047 | 31 | 5576 | 23 | 5811 | 30 | 2357 | 41 | 3668 | 44 | 3685 | 42 | 5499 | 44 | 9407 | 22 | 4923 | 44 |
| 7 | HKH-308 | 8646 | 3 | 5415 | 27 | 7030 | 3 | 3745 | 19 | 5846 | 6 | 4638 | 32 | 8641 | 17 | 9630 | 17 | 6500 | 16 |
| 8 | HKH-309 | 6116 | 30 | 5458 | 25 | 5787 | 32 | 2626 | 35 | 3700 | 43 | 4033 | 39 | 6923 | 35 | 8569 | 37 | 5170 | 42 |
| 9 | HKH-310 | 7419 | 14 | 4993 | 36 | 6206 | 21 | 3222 | 24 | 5035 | 25 | 4218 | 36 | 8010 | 25 | 9308 | 25 | 5959 | 29 |
| 10 | MALVIYA MAKKA-2 | 6465 | 25 | 6199 | 2 | 6332 | 19 | 3033 | 28 | 5671 | 9 | 4653 | 30 | 8604 | 18 | 9557 | 18 | 6304 | 20 |
| 11 | HKH-311 | 6797 | 21 | 5728 | 18 | 6262 | 20 | 3298 | 23 | 4459 | 41 | 4457 | 34 | 7019 | 33 | 8819 | 33 | 5610 | 37 |
| 12 | HKH-312 | 6952 | 20 | 6247 | 1 | 6599 | 10 | 3035 | 27 | 4974 | 29 | 5559 | 14 | 7166 | 30 | 10215 | 5 | 6190 | 22 |
| 13 | HKH-313 | 5571 | 41 | 5957 | 9 | 5764 | 33 | 2703 | 34 | 5506 | 14 | 4789 | 27 | 8047 | 24 | 9308 | 24 | 6071 | 28 |
| 14 | EH-1974 | 7325 | 15 | 5616 | 21 | 6471 | 15 | 2973 | 31 | 5443 | 16 | 4684 | 28 | 6554 | 37 | 9200 | 27 | 5771 | 33 |
| 15 | EH-1986 | 6165 | 29 | 4821 | 40 | 5493 | 38 | 3005 | 29 | 4984 | 28 | 4280 | 35 | 8301 | 21 | 9849 | 10 | 6083 | 27 |
| 16 | EH-2025 | 5943 | 34 | 5886 | 14 | 5914 | 27 | 3755 | 18 | 5153 | 22 | 4845 | 26 | 8337 | 20 | 8616 | 36 | 6141 | 23 |
| 17 | VEH-09-1 | 5948 | 33 | 5895 | 13 | 5922 | 26 | 2447 | 39 | 4844 | 30 | 3546 | 43 | 6930 | 34 | 9951 | 8 | 5544 | 39 |
| 18 | VEH-09-2 | 8462 | 4 | 5532 | 24 | 6997 | 4 | 5835 | 6 | 7039 | 1 | 8723 | 4 | 8394 | 19 | 8112 | 43 | 7621 | 8 |
| 19 | REH-2101 | 6421 | 27 | 5864 | 15 | 6142 | 22 | 3347 | 21 | 4842 | 31 | 5466 | 18 | 7116 | 31 | 9748 | 15 | 6104 | 25 |
| 20 | REH-2102 | 6617 | 23 | 5195 | 29 | 5906 | 28 | 5498 | 8 | 5267 | 20 | 5893 | 11 | 8256 | 22 | 9791 | 12 | 6941 | 12 |
| 21 | REH-2103 | 7061 | 18 | 6100 | 5 | 6580 | 13 | 3090 | 25 | 5243 | 21 | 4076 | 38 | 6605 | 36 | 10340 | 3 | 5871 | 31 |
| 22 | JH-31314 | 5632 | 40 | 5951 | 11 | 5792 | 31 | 4484 | 14 | 5662 | 11 | 5543 | 15 | 9362 | 11 | 8731 | 35 | 6756 | 15 |
| 23 | JH-31285 | 7503 | 13 | 5671 | 19 | 6587 | 12 | 5052 | 9 | 5271 | 19 | 7761 | 5 | 9656 | 10 | 9697 | 16 | 7487 | 9 |
| 24 | JH-31336 | 5835 | 35 | 6169 | 3 | 6002 | 24 | 3990 | 17 | 5461 | 15 | 5023 | 25 | 9012 | 13 | 8425 | 41 | 6382 | 19 |
| 25 | JH-31292 | 6991 | 19 | 4884 | 39 | 5938 | 25 | 6443 | 2 | 4785 | 34 | 9581 | 1 | 8192 | 23 | 8216 | 42 | 7443 | 10 |
| 26 | JH-31288 | 5218 | 42 | 5065 | 33 | 5141 | 43 | 3629 | 20 | 5545 | 13 | 5810 | 12 | 8735 | 15 | 8487 | 40 | 6441 | 18 |
| 27 | AH-97001 | 5756 | 37 | 4743 | 42 | 5249 | 41 | 2341 | 42 | 5071 | 24 | 4678 | 29 | 6137 | 43 | 9759 | 14 | 5597 | 38 |
| 28 | HKI1105xHKI163-1 | 6456 | 26 | 4038 | 44 | 5247 | 42 | 2480 | 38 | 4997 | 26 | 5028 | 24 | 7201 | 29 | 9102 | 29 | 5761 | 34 |
| 29 | BML7xHKI163-1 | 6550 | 24 | 4816 | 41 | 5683 | 35 | 4562 | 13 | 4811 | 32 | 5537 | 16 | 7821 | 26 | 9509 | 19 | 6448 | 17 |
| 30 | HKI1128xHKI163-1 | 8117 | 6 | 4631 | 43 | 6374 | 16 | 2769 | 33 | 4758 | 35 | 5215 | 22 | 7079 | 32 | 9159 | 28 | 5796 | 32 |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) | | AT 15% MOISTURE | | | | | | | | | | | | | | | |
|---------------|----------------------|---------------------|----|-----------------|----|------|----|-------|----|-------|----|-------|----|-------|----|-------|----|------|----|
| | | BAJA | R | KANG | R | ZN 1 | | DELH | | KARN | | LUDH | | PANT | | KANP | | ZN 2 | |
| | | | | | | MEAN | R | DELH | R | KARN | R | LUDH | R | PANT | R | KANP | R | MEAN | R |
| 31 | KMH-218 | 7714 | 10 | 4999 | 35 | 6357 | 18 | 6285 | 3 | 4597 | 38 | 7497 | 8 | 11017 | 5 | 9223 | 26 | 7724 | 7 |
| 32 | KMH-3426 | 7948 | 8 | 5968 | 8 | 6958 | 5 | 6953 | 1 | 5671 | 10 | 6869 | 9 | 10585 | 6 | 9366 | 23 | 7889 | 6 |
| 33 | LAXMI306 | 6282 | 28 | 5036 | 34 | 5659 | 36 | 3002 | 30 | 4489 | 39 | 5528 | 17 | 6517 | 38 | 9024 | 30 | 5712 | 35 |
| 34 | MUKHYA-108 | 9276 | 2 | 5956 | 10 | 7616 | 1 | 5036 | 10 | 6475 | 2 | 6686 | 10 | 12868 | 1 | 9762 | 13 | 8165 | 3 |
| 35 | SARPUNCH-171 | 7541 | 12 | 5972 | 7 | 6756 | 8 | 2538 | 37 | 5124 | 23 | 4639 | 31 | 8835 | 14 | 9863 | 9 | 6200 | 21 |
| 36 | KDMH-017 | 7144 | 16 | 5909 | 12 | 6526 | 14 | 5728 | 7 | 5438 | 17 | 9004 | 3 | 10465 | 7 | 9009 | 31 | 7929 | 4 |
| 37 | NMH-803 | 731 | 44 | 4917 | 37 | 2824 | 44 | 6035 | 5 | 6470 | 3 | 5402 | 20 | 12691 | 2 | 10394 | 2 | 8198 | 2 |
| 38 | X8B557 | 9310 | 1 | 4909 | 38 | 7109 | 2 | 6044 | 4 | 5404 | 18 | 9270 | 2 | 11671 | 3 | 10284 | 4 | 8534 | 1 |
| 39 | X8B691 | 7120 | 17 | 5119 | 31 | 6120 | 23 | 4979 | 11 | 6279 | 4 | 7635 | 7 | 11148 | 4 | 9427 | 20 | 7894 | 5 |
| 40 | MCH-41 | 7942 | 9 | 5248 | 28 | 6595 | 11 | 4306 | 15 | 5684 | 8 | 5699 | 13 | 9958 | 9 | 8488 | 39 | 6827 | 14 |
| 41 | MCH-42 | 8420 | 5 | 5458 | 26 | 6939 | 6 | 4114 | 16 | 4990 | 27 | 7758 | 6 | 10425 | 8 | 8965 | 32 | 7250 | 11 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 5774 | 36 | 5066 | 32 | 5420 | 39 | 2546 | 36 | 4704 | 36 | 4192 | 37 | 6294 | 41 | 10466 | 1 | 5640 | 36 |
| 43 | BIO-9637 | 8059 | 7 | 5608 | 22 | 6834 | 7 | 4684 | 12 | 6223 | 5 | 5085 | 23 | 9226 | 12 | 9409 | 21 | 6925 | 13 |
| 44 | HM-9 | 5985 | 32 | 5135 | 30 | 5560 | 37 | 2435 | 40 | 5568 | 12 | 5414 | 19 | 7366 | 28 | 8763 | 34 | 5909 | 30 |
| | Location Mean | 6724 | | 5481 | | 6102 | | 3811 | | 5202 | | 5515 | | 8367 | | 9323 | | 6444 | |
| | Mean Stand | 33 | | 25 | | 29 | | 35 | | 31 | | 36 | | 36 | | 35 | | 35 | |
| | C.D. (5%) | 1392 | | 463 | | 928 | | 1100 | | 874 | | 1087 | | 2247 | | 953 | | 1252 | |
| | C.V. (%) | 12.76 | | 5.2 | | - | | 17.78 | | 10.35 | | 12.14 | | 16.54 | | 6.3 | | - | |
| | F (Prob) | 0 | | 0 | | - | | 0 | | 0 | | 0 | | 0 | | 0 | | - | |
| | Plot Size | 4.8 | | 3.6 | | - | | 5.6 | | 6 | | 5.46 | | 6 | | 4.8 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 5-07 | | 1-07 | | - | | 7-06 | | 2-07 | | 2-07 | | 1-08 | | 14-07 | | - | |
| | Harvest Date | 6-11 | | 14-10 | | - | | 10-12 | | 4-10 | | 7-10 | | 18-11 | | 4-11 | | - | |
| | Irrigation Nos | 3 | | - | | - | | 4 | | 4 | | 6 | | - | | 2 | | - | |
| | Fertilizer Applied N | 120 | | 120 | | - | | 150 | | 150 | | 125 | | 120 | | 80 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 75 | | 60 | | 60 | | 60 | | 40 | | - | |
| | Fertilizer Applied K | 40 | | 40 | | - | | 75 | | 60 | | - | | 40 | | 40 | | - | |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|----------|------------------|-------------------------------------|----|------|----|------|----|------|----|------|----|------|----|--------------|----|------|----|------|----|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | ZN 3 MEAN | R | ARBH | R | HYDE | R |
| 1 | PLM-21 | 3498 | 38 | 2439 | 44 | 3014 | 44 | 4818 | 38 | 5555 | 43 | 3718 | 35 | 3841 | 44 | 5182 | 41 | 5672 | 35 |
| 2 | L-183 | 4370 | 18 | 2533 | 43 | 3771 | 37 | 4680 | 39 | 5668 | 40 | 3441 | 40 | 4077 | 43 | 5789 | 35 | 4666 | 43 |
| 3 | EHL-162308 | 5086 | 4 | 3791 | 26 | 3881 | 36 | 3913 | 44 | 6035 | 32 | 3743 | 34 | 4408 | 38 | 6913 | 14 | 7568 | 13 |
| 4 | PMSY-3 | 5018 | 8 | 3304 | 36 | 4348 | 28 | 5264 | 32 | 5590 | 42 | 4087 | 26 | 4602 | 32 | 6736 | 17 | 4865 | 40 |
| 5 | PMSW-4 | 4614 | 14 | 4163 | 22 | 4385 | 27 | 5106 | 35 | 7128 | 20 | 3936 | 30 | 4889 | 25 | 5437 | 39 | 4292 | 44 |
| 6 | PMSQ-5 | 3950 | 24 | 4188 | 21 | 4582 | 20 | 4934 | 37 | 7051 | 21 | 3985 | 28 | 4782 | 26 | 6323 | 24 | 6765 | 20 |
| 7 | HKH-308 | 3770 | 30 | 3583 | 33 | 4316 | 31 | 5444 | 31 | 5999 | 35 | 4346 | 20 | 4576 | 34 | 6198 | 26 | 7925 | 10 |
| 8 | HKH-309 | 3400 | 40 | 3888 | 25 | 5168 | 7 | 6373 | 24 | 6316 | 30 | 4250 | 24 | 4899 | 24 | 6196 | 27 | 8167 | 7 |
| 9 | HKH-310 | 4796 | 13 | 3557 | 34 | 4889 | 15 | 6973 | 20 | 5926 | 36 | 4616 | 17 | 5126 | 21 | 7703 | 7 | 8204 | 6 |
| 10 | MALVIYA MAKKA-2 | 4047 | 22 | 3175 | 38 | 3379 | 43 | 6882 | 21 | 5639 | 41 | 3604 | 37 | 4454 | 37 | 6636 | 18 | 7472 | 14 |
| 11 | HKH-311 | 3515 | 37 | 4534 | 14 | 5183 | 6 | 4489 | 43 | 5344 | 44 | 4400 | 19 | 4577 | 33 | 5743 | 37 | 8769 | 3 |
| 12 | HKH-312 | 3116 | 43 | 4060 | 23 | 4916 | 14 | 5569 | 29 | 6012 | 34 | 4498 | 18 | 4695 | 30 | 6138 | 31 | 8861 | 2 |
| 13 | HKH-313 | 6369 | 1 | 4534 | 13 | 4506 | 24 | 6806 | 23 | 7708 | 15 | 5354 | 13 | 5880 | 12 | 6789 | 16 | 7252 | 16 |
| 14 | EH-1974 | 4155 | 21 | 3091 | 40 | 3445 | 42 | 5052 | 36 | 7482 | 17 | 3148 | 41 | 4395 | 39 | 6617 | 20 | 6913 | 18 |
| 15 | EH-1986 | 3575 | 36 | 3317 | 35 | 4119 | 33 | 5188 | 34 | 6192 | 31 | 2795 | 44 | 4198 | 41 | 7636 | 8 | 6004 | 33 |
| 16 | EH-2025 | 3185 | 42 | 3752 | 27 | 4337 | 30 | 5853 | 27 | 6779 | 26 | 4323 | 23 | 4705 | 29 | 6826 | 15 | 6562 | 24 |
| 17 | VEH-09-1 | 3978 | 23 | 3703 | 28 | 4996 | 12 | 4502 | 42 | 6501 | 28 | 3613 | 36 | 4549 | 36 | 7360 | 12 | 6313 | 28 |
| 18 | VEH-09-2 | 5077 | 5 | 5126 | 5 | 6387 | 1 | 7736 | 15 | 6664 | 27 | 4090 | 25 | 5846 | 13 | 6514 | 21 | 8141 | 8 |
| 19 | REH-2101 | 3802 | 29 | 4334 | 18 | 5913 | 3 | 7131 | 17 | 7004 | 22 | 3541 | 39 | 5287 | 19 | 5968 | 33 | 6667 | 21 |
| 20 | REH-2102 | 3696 | 33 | 4624 | 12 | 4642 | 17 | 7777 | 13 | 7617 | 16 | 3600 | 38 | 5326 | 16 | 6433 | 22 | 6141 | 31 |
| 21 | REH-2103 | 3588 | 35 | 3692 | 31 | 5115 | 8 | 6860 | 22 | 7858 | 12 | 4344 | 22 | 5243 | 20 | 6358 | 23 | 6618 | 22 |
| 22 | JH-31314 | 3878 | 26 | 4208 | 20 | 5020 | 11 | 8349 | 9 | 6967 | 23 | 5689 | 12 | 5685 | 15 | 6246 | 25 | 7288 | 15 |
| 23 | JH-31285 | 4883 | 11 | 4347 | 17 | 5743 | 5 | 8810 | 3 | 6875 | 24 | 6715 | 2 | 6229 | 7 | 7713 | 5 | 5837 | 34 |
| 24 | JH-31336 | 4475 | 17 | 3164 | 39 | 4698 | 16 | 8319 | 10 | 6021 | 33 | 3881 | 33 | 5093 | 23 | 5209 | 40 | 8475 | 5 |
| 25 | JH-31292 | 4892 | 10 | 4632 | 11 | 5044 | 9 | 9085 | 2 | 8268 | 9 | 5163 | 16 | 6181 | 8 | 7438 | 11 | 7863 | 12 |
| 26 | JH-31288 | 4203 | 19 | 4401 | 15 | 4918 | 13 | 7105 | 18 | 7402 | 18 | 3894 | 32 | 5320 | 17 | 7164 | 13 | 7943 | 9 |
| 27 | AH-97001 | 3259 | 41 | 3702 | 29 | 4403 | 25 | 6284 | 25 | 5694 | 39 | 4056 | 27 | 4567 | 35 | 4411 | 43 | 6147 | 30 |
| 28 | HKI1105xHKI163-1 | 3945 | 25 | 3275 | 37 | 4113 | 34 | 4528 | 41 | 6372 | 29 | 3933 | 31 | 4361 | 40 | 6143 | 29 | 5635 | 36 |
| 29 | BML7xHKI163-1 | 4508 | 16 | 4389 | 16 | 4580 | 21 | 5456 | 30 | 5867 | 37 | 5882 | 10 | 5114 | 22 | 6035 | 32 | 5510 | 37 |
| 30 | HKI1128xHKI163-1 | 3809 | 28 | 3638 | 32 | 3737 | 39 | 6168 | 26 | 8212 | 10 | 2819 | 43 | 4731 | 28 | 8903 | 1 | 4802 | 41 |

TABLE No. 2 (Cont..)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

| Sl No | PEDIGREE | S1 | | | | | | | | | | ZN 3 | | | | | | | |
|---------------|----------------------|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|------|----|-------|----|-------|----|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R | ARBH | R | HYDE | R |
| 31 | KMH-218 | 5043 | 6 | 5027 | 6 | 4251 | 32 | 9317 | 1 | 8841 | 6 | 6202 | 6 | 6447 | 4 | 7500 | 10 | 5508 | 38 |
| 32 | KMH-3426 | 4524 | 15 | 5015 | 7 | 5814 | 4 | 8683 | 5 | 8921 | 5 | 5812 | 11 | 6461 | 3 | 6623 | 19 | 6967 | 17 |
| 33 | LAXMI306 | 4158 | 20 | 3701 | 30 | 4030 | 35 | 5814 | 28 | 6793 | 25 | 3942 | 29 | 4740 | 27 | 5906 | 34 | 5292 | 39 |
| 34 | MUKHYA-108 | 5699 | 2 | 5557 | 2 | 5020 | 10 | 8788 | 4 | 9207 | 4 | 6184 | 7 | 6743 | 1 | 6177 | 28 | 6192 | 29 |
| 35 | SARPUNCH-171 | 5028 | 7 | 4720 | 9 | 4387 | 26 | 7753 | 14 | 8379 | 7 | 5244 | 14 | 5918 | 11 | 5662 | 38 | 6079 | 32 |
| 36 | KDMH-017 | 3844 | 27 | 5398 | 3 | 3763 | 38 | 6977 | 19 | 8325 | 8 | 6300 | 5 | 5768 | 14 | 7587 | 9 | 6808 | 19 |
| 37 | NMH-803 | 4848 | 12 | 4259 | 19 | 4527 | 22 | 8512 | 7 | 7845 | 13 | 6087 | 9 | 6013 | 9 | 4110 | 44 | 9509 | 1 |
| 38 | X8B557 | 5585 | 3 | 5344 | 4 | 4598 | 19 | 8358 | 8 | 9984 | 1 | 6393 | 4 | 6710 | 2 | 7704 | 6 | 6418 | 26 |
| 39 | X8B691 | 3644 | 34 | 4659 | 10 | 6080 | 2 | 8190 | 12 | 9796 | 2 | 6091 | 8 | 6410 | 5 | 8587 | 2 | 7900 | 11 |
| 40 | MCH-41 | 3749 | 32 | 4892 | 8 | 4507 | 23 | 8241 | 11 | 7808 | 14 | 6661 | 3 | 5976 | 10 | 7837 | 4 | 6541 | 25 |
| 41 | MCH-42 | 3760 | 31 | 6074 | 1 | 3506 | 41 | 8629 | 6 | 9274 | 3 | 6730 | 1 | 6329 | 6 | 8247 | 3 | 8769 | 4 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 4921 | 9 | 2987 | 41 | 3682 | 40 | 4551 | 40 | 5714 | 38 | 3084 | 42 | 4156 | 42 | 4858 | 42 | 4735 | 42 |
| 43 | BIO-9637 | 3490 | 39 | 3958 | 24 | 4621 | 18 | 7227 | 16 | 7373 | 19 | 5239 | 15 | 5318 | 18 | 6141 | 30 | 6581 | 23 |
| 44 | HM-9 | 2995 | 44 | 2954 | 42 | 4344 | 29 | 5248 | 33 | 8044 | 11 | 4346 | 21 | 4655 | 31 | 5763 | 36 | 6406 | 27 |
| | Location Mean | 4221 | | 4084 | | 4561 | | 6631 | | 7137 | | 4631 | | 5211 | | 6533 | | 6751 | |
| | Mean Stand | 31 | | 28 | | 25 | | 36 | | 32 | | 34 | | 31 | | 35 | | 36 | |
| | C.D. (5%) | 923 | | 1283 | | 199 | | 540 | | 1854 | | 831 | | 938 | | 2431 | | 1196 | |
| | C.V. (%) | 13.47 | | 19.35 | | 2.69 | | 5.02 | | 16 | | 11.05 | | - | | 22.92 | | 10.91 | |
| | F (Prob) | 0 | | 0.002 | | 0 | | 0 | | 0 | | 0 | | | | 0.061 | | 0 | |
| | Plot Size | 4.8 | | 6 | | 4.8 | | 4.8 | | 5.6 | | 6 | | - | | 6 | | 6 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-09 | | 3-07 | | 28-07 | | 1-07 | | 8-07 | | 8-07 | | - | | 17-07 | | 6-07 | |
| | Harvest Date | 15-10 | | - | | 14-11 | | 9-10 | | 17-10 | | - | | - | | 12-11 | | 16-11 | |
| | Irrigation Nos | - | | - | | - | | 2 | | - | | - | | - | | 6 | | 2 | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 100 | | - | | 120 | | - | | 150 | | 180 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 60 | | - | | 75 | | 60 | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | - | | 40 | | - | | 37.5 | | 50 | |

TABLE No. 2 (Cont..)

| GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------|------|----|------|----|------|----|-------|----|------|----|------|----|------|----|------|---|------|---|------|--|
| S1 | | KARI | | | | KOLH | | | | MAND | | | | COIM | | BANG | | ZN 4 | | UDAI | |
| No | PEDIGREE | | R | | R | | R | | R | | R | | R | | R | MEAN | R | | R | | |
| 1 | PLM-21 | 5929 | 21 | 4945 | 40 | 6088 | 38 | 9766 | 27 | 7174 | 5 | 6394 | 37 | 5933 | 22 | | | | | | |
| 2 | L-183 | 4360 | 39 | 4483 | 43 | 5382 | 43 | 8144 | 42 | 5609 | 21 | 5491 | 44 | 4417 | 38 | | | | | | |
| 3 | EHL-162308 | 6344 | 15 | 4876 | 42 | 5788 | 40 | 9779 | 25 | 5105 | 32 | 6625 | 29 | 7446 | 6 | | | | | | |
| 4 | PMSY-3 | 4787 | 36 | 6092 | 18 | 7658 | 25 | 10777 | 15 | 4903 | 38 | 6546 | 36 | 5416 | 29 | | | | | | |
| 5 | PMSW-4 | 5302 | 27 | 4971 | 39 | 6928 | 32 | 9718 | 28 | 4859 | 39 | 5930 | 42 | 4704 | 34 | | | | | | |
| 6 | PMSQ-5 | 5953 | 20 | 5059 | 37 | 6861 | 33 | 10283 | 19 | 5034 | 34 | 6611 | 32 | 4663 | 37 | | | | | | |
| 7 | HKH-308 | 4486 | 38 | 5959 | 19 | 6684 | 35 | 9313 | 36 | 5780 | 18 | 6621 | 30 | 6546 | 15 | | | | | | |
| 8 | HKH-309 | 5253 | 28 | 6630 | 11 | 8214 | 20 | 7464 | 44 | 5235 | 29 | 6737 | 25 | 4700 | 35 | | | | | | |
| 9 | HKH-310 | 5153 | 32 | 5792 | 23 | 6798 | 34 | 8049 | 43 | 4522 | 40 | 6603 | 33 | 6902 | 9 | | | | | | |
| 10 | MALVIYA MAKKA-2 | 4930 | 35 | 5135 | 33 | 7952 | 22 | 9694 | 29 | 4908 | 37 | 6675 | 27 | 6182 | 17 | | | | | | |
| 11 | HKH-311 | 5185 | 31 | 6328 | 15 | 8586 | 17 | 9842 | 24 | 7149 | 6 | 7372 | 13 | 7840 | 3 | | | | | | |
| 12 | HKH-312 | 5694 | 24 | 6966 | 8 | 7860 | 24 | 9377 | 35 | 5582 | 22 | 7211 | 14 | 6526 | 16 | | | | | | |
| 13 | HKH-313 | 5815 | 23 | 5233 | 31 | 5383 | 42 | 12394 | 10 | 4922 | 36 | 6827 | 23 | 4197 | 41 | | | | | | |
| 14 | EH-1974 | 5192 | 30 | 7777 | 6 | 7583 | 26 | 10711 | 16 | 4473 | 41 | 7038 | 19 | 6648 | 13 | | | | | | |
| 15 | EH-1986 | 5844 | 22 | 4909 | 41 | 7494 | 27 | 8521 | 39 | 5491 | 24 | 6557 | 35 | 6709 | 12 | | | | | | |
| 16 | EH-2025 | 5423 | 25 | 5576 | 25 | 8156 | 21 | 9909 | 22 | 5530 | 23 | 6854 | 21 | 9955 | 1 | | | | | | |
| 17 | VEH-09-1 | 4097 | 41 | 6198 | 17 | 5715 | 41 | 8790 | 38 | 5056 | 33 | 6219 | 40 | 3967 | 42 | | | | | | |
| 18 | VEH-09-2 | 7525 | 2 | 8288 | 4 | 9725 | 10 | 11346 | 13 | 5222 | 30 | 8109 | 9 | 4815 | 33 | | | | | | |
| 19 | REH-2101 | 6214 | 17 | 6285 | 16 | 6981 | 31 | 10388 | 18 | 5366 | 26 | 6838 | 22 | 5043 | 32 | | | | | | |
| 20 | REH-2102 | 4237 | 40 | 6408 | 13 | 9543 | 11 | 9430 | 34 | 6558 | 9 | 6964 | 20 | 6119 | 18 | | | | | | |
| 21 | REH-2103 | 4937 | 34 | 5356 | 29 | 8425 | 18 | 9767 | 26 | 5696 | 20 | 6737 | 26 | 5749 | 23 | | | | | | |
| 22 | JH-31314 | 6613 | 12 | 5588 | 24 | 9400 | 12 | 10249 | 20 | 3973 | 43 | 7051 | 17 | 4297 | 39 | | | | | | |
| 23 | JH-31285 | 7373 | 3 | 5246 | 30 | 8715 | 15 | 9569 | 33 | 5450 | 25 | 7129 | 15 | 6635 | 14 | | | | | | |
| 24 | JH-31336 | 6391 | 14 | 4208 | 44 | 7137 | 30 | 9177 | 37 | 5727 | 19 | 6618 | 31 | 3512 | 43 | | | | | | |
| 25 | JH-31292 | 6631 | 11 | 6838 | 10 | 9893 | 8 | 13424 | 6 | 7906 | 2 | 8571 | 4 | 5951 | 21 | | | | | | |
| 26 | JH-31288 | 6991 | 9 | 5081 | 35 | 6500 | 37 | 9652 | 31 | 5998 | 14 | 7047 | 18 | 6749 | 11 | | | | | | |
| 27 | AH-97001 | 7040 | 8 | 5846 | 21 | 7240 | 29 | 8250 | 41 | 5352 | 27 | 6327 | 38 | 4700 | 36 | | | | | | |
| 28 | HKI1105xHKI163-1 | 6912 | 10 | 5063 | 36 | 6038 | 39 | 10060 | 21 | 6318 | 12 | 6595 | 34 | 6010 | 20 | | | | | | |
| 29 | BML7xHKI163-1 | 7276 | 4 | 5924 | 20 | 7288 | 28 | 10631 | 17 | 3951 | 44 | 6659 | 28 | 6118 | 19 | | | | | | |
| 30 | HKI1128xHKI163-1 | 3504 | 44 | 5371 | 28 | 6515 | 36 | 9662 | 30 | 5148 | 31 | 6272 | 39 | 3505 | 44 | | | | | | |

TABLE No. 2 (Cont..)

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | |
|----|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|------|----|------|----|------|---|------|---|------|---|
| S1 | | KARI | | | | KOLH | | | | MAND | | | | COIM | | BANG | | ZN 4 | | UDAI | |
| No | PEDIGREE | | R | | R | | R | | R | | R | | R | | R | | R | | R | | R |
| 31 | KMH-218 | 5214 | 29 | 6892 | 9 | 11897 | 3 | 13555 | 4 | 7112 | 7 | 8240 | 7 | 7181 | 8 | | | | | | |
| 32 | KMH-3426 | 8083 | 1 | 6572 | 12 | 10204 | 7 | 12640 | 8 | 6073 | 13 | 8166 | 8 | 7700 | 5 | | | | | | |
| 33 | LAXMI306 | 6062 | 19 | 5444 | 27 | 7888 | 23 | 9897 | 23 | 6737 | 8 | 6746 | 24 | 5216 | 30 | | | | | | |
| 34 | MUKHYA-108 | 6426 | 13 | 5211 | 32 | 8630 | 16 | 13157 | 7 | 6529 | 10 | 7475 | 12 | 5463 | 27 | | | | | | |
| 35 | SARPUNCH-171 | 5321 | 26 | 5809 | 22 | 9862 | 9 | 11290 | 14 | 5824 | 16 | 7121 | 16 | 5424 | 28 | | | | | | |
| 36 | KDMH-017 | 6106 | 18 | 8743 | 3 | 11253 | 5 | 12351 | 11 | 5796 | 17 | 8378 | 5 | 5564 | 24 | | | | | | |
| 37 | NMH-803 | 7065 | 7 | 5515 | 26 | 9332 | 14 | 13764 | 3 | 6330 | 11 | 7946 | 10 | 7823 | 4 | | | | | | |
| 38 | X8B557 | 7144 | 6 | 9808 | 1 | 13825 | 1 | 15930 | 1 | 8240 | 1 | 9867 | 1 | 5167 | 31 | | | | | | |
| 39 | X8B691 | 3879 | 42 | 9779 | 2 | 10859 | 6 | 13458 | 5 | 7479 | 4 | 8849 | 2 | 8593 | 2 | | | | | | |
| 40 | MCH-41 | 7167 | 5 | 6379 | 14 | 12871 | 2 | 12443 | 9 | 4942 | 35 | 8311 | 6 | 4231 | 40 | | | | | | |
| 41 | MCH-42 | 4660 | 37 | 7492 | 7 | 11291 | 4 | 15350 | 2 | 5936 | 15 | 8821 | 3 | 7318 | 7 | | | | | | |
| | CHECKS | | | | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 5067 | 33 | 5105 | 34 | 4981 | 44 | 8477 | 40 | 5240 | 28 | 5495 | 43 | 5527 | 25 | | | | | | |
| 43 | BIO-9637 | 6266 | 16 | 7858 | 5 | 9372 | 13 | 11624 | 12 | 7727 | 3 | 7939 | 11 | 5503 | 26 | | | | | | |
| 44 | HM-9 | 3859 | 43 | 5020 | 38 | 8233 | 19 | 9605 | 32 | 4189 | 42 | 6154 | 41 | 6897 | 10 | | | | | | |
| | Location Mean | 5766 | | 6092 | | 8251 | | 10629 | | 5731 | | 7108 | | 5899 | | | | | | | |
| | Mean Stand | 36 | | 37 | | 33 | | 32 | | 31 | | 34 | | 33 | | | | | | | |
| | C.D. (5%) | 663 | | 1696 | | 988 | | 1015 | | 2945 | | 1562 | | 703 | | | | | | | |
| | C.V. (%) | 7.08 | | 17.14 | | 7.38 | | 5.88 | | 31.65 | | - | | 7.34 | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0.849 | | - | | 0 | | | | | | | |
| | Plot Size | 6 | | 6 | | 5.6 | | 4.8 | | 4.8 | | - | | 4.8 | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 12-07 | | 7-11 | | 24-07 | | 9-07 | | 14-07 | | - | | 1-07 | | | | | | | |
| | Harvest Date | 18-10 | | 2-12 | | 12-07 | | 3-11 | | - | | - | | 3-10 | | | | | | | |
| | Irrigation Nos | - | | - | | 6 | | 10 | | 5 | | - | | 2 | | | | | | | |
| | Fertilizer Applied N | 200 | | 120 | | 150 | | 150 | | 120 | | - | | 90 | | | | | | | |
| | Fertilizer Applied P | 80 | | 60 | | 75 | | 75 | | 60 | | - | | 60 | | | | | | | |
| | Fertilizer Applied K | 60 | | 40 | | 40 | | 75 | | 40 | | - | | - | | | | | | | |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | RAINFED TRIALS | | | | | |
|----------|------------------|-------------------------------------|----|------|----|------|----|------|----|----------------|----|------|----|------|----|
| | | BANS | | CHHI | | ZN 5 | | OV'L | | ZN 1 | | ZN 5 | | OV'L | |
| | | | R | | R | MEAN | R | MEAN | R | UDHA | R | GODH | R | MEAN | R |
| 1 | PLM-21 | 4433 | 28 | 3334 | 31 | 4567 | 32 | 5139 | 42 | 2640 | 31 | 3286 | 44 | 2963 | 43 |
| 2 | L-183 | 4213 | 31 | 3578 | 24 | 4069 | 39 | 4849 | 44 | 2829 | 21 | 3681 | 43 | 3255 | 40 |
| 3 | EHL-162308 | 3999 | 33 | 3277 | 35 | 4907 | 22 | 5708 | 30 | 3653 | 3 | 4557 | 34 | 4105 | 25 |
| 4 | PMSY-3 | 4946 | 16 | 4061 | 20 | 4808 | 24 | 5707 | 31 | 2869 | 19 | 3811 | 41 | 3340 | 38 |
| 5 | PMSW-4 | 4665 | 25 | 3098 | 40 | 4155 | 37 | 5306 | 40 | 2497 | 33 | 5880 | 19 | 4188 | 21 |
| 6 | PMSQ-5 | 4517 | 26 | 3573 | 25 | 4251 | 35 | 5390 | 38 | 2697 | 27 | 5584 | 21 | 4140 | 23 |
| 7 | HKH-308 | 6687 | 2 | 3317 | 33 | 5517 | 11 | 5953 | 20 | 2283 | 40 | 4250 | 37 | 3266 | 39 |
| 8 | HKH-309 | 3927 | 35 | 3333 | 32 | 3987 | 41 | 5476 | 35 | 2932 | 16 | 4596 | 32 | 3764 | 32 |
| 9 | HKH-310 | 4777 | 21 | 3534 | 26 | 5071 | 20 | 5843 | 27 | 3601 | 5 | 5279 | 23 | 4440 | 18 |
| 10 | MALVIYA MAKKA-2 | 4702 | 24 | 2824 | 42 | 4569 | 31 | 5711 | 29 | 2188 | 41 | 6031 | 16 | 4109 | 24 |
| 11 | HKH-311 | 3461 | 43 | 3653 | 23 | 4985 | 21 | 5852 | 25 | 4450 | 1 | 5952 | 18 | 5201 | 4 |
| 12 | HKH-312 | 4138 | 32 | 3445 | 29 | 4703 | 26 | 5952 | 21 | 2737 | 25 | 5170 | 25 | 3954 | 28 |
| 13 | HKH-313 | 3686 | 40 | 4249 | 18 | 4044 | 40 | 5960 | 19 | 3577 | 6 | 4714 | 31 | 4145 | 22 |
| 14 | EH-1974 | 6601 | 3 | 3800 | 22 | 5683 | 8 | 5847 | 26 | 2675 | 29 | 4197 | 38 | 3436 | 36 |
| 15 | EH-1986 | 3802 | 38 | 3485 | 28 | 4665 | 28 | 5499 | 34 | 2292 | 39 | 5561 | 22 | 3927 | 29 |
| 16 | EH-2025 | 5166 | 15 | 3943 | 21 | 6355 | 3 | 5992 | 18 | 2893 | 17 | 4564 | 33 | 3729 | 33 |
| 17 | VEH-09-1 | 3886 | 36 | 2710 | 43 | 3521 | 44 | 5259 | 41 | 2422 | 37 | 3919 | 39 | 3170 | 41 |
| 18 | VEH-09-2 | 3349 | 44 | 7483 | 3 | 5216 | 14 | 6938 | 9 | 3141 | 13 | 6271 | 12 | 4706 | 11 |
| 19 | REH-2101 | 6002 | 8 | 3303 | 34 | 4783 | 25 | 5946 | 22 | 2654 | 30 | 5036 | 29 | 3845 | 30 |
| 20 | REH-2102 | 4260 | 30 | 4888 | 12 | 5089 | 19 | 6195 | 16 | 2776 | 23 | 6851 | 6 | 4813 | 8 |
| 21 | REH-2103 | 3600 | 41 | 4675 | 13 | 4675 | 27 | 5876 | 24 | 2449 | 35 | 6688 | 8 | 4568 | 14 |
| 22 | JH-31314 | 6082 | 7 | 3348 | 30 | 4576 | 30 | 6198 | 15 | 2123 | 42 | 6915 | 5 | 4519 | 15 |
| 23 | JH-31285 | 4721 | 23 | 5594 | 6 | 5650 | 9 | 6732 | 12 | 2469 | 34 | 5144 | 27 | 3807 | 31 |
| 24 | JH-31336 | 3968 | 34 | 3237 | 36 | 3572 | 43 | 5718 | 28 | 3612 | 4 | 5982 | 17 | 4797 | 9 |
| 25 | JH-31292 | 6178 | 6 | 8013 | 1 | 6714 | 2 | 7231 | 5 | 3132 | 14 | 5851 | 20 | 4491 | 16 |
| 26 | JH-31288 | 5395 | 10 | 4493 | 15 | 5546 | 10 | 6103 | 17 | 2882 | 18 | 5086 | 28 | 3984 | 26 |
| 27 | AH-97001 | 4879 | 18 | 3121 | 39 | 4233 | 36 | 5342 | 39 | 2769 | 24 | 5163 | 26 | 3966 | 27 |
| 28 | HKI1105xHKI163-1 | 4359 | 29 | 2990 | 41 | 4453 | 33 | 5434 | 37 | 2626 | 32 | 4409 | 35 | 3518 | 34 |
| 29 | BML7xHKI163-1 | 3746 | 39 | 4578 | 14 | 4814 | 23 | 5885 | 23 | 2424 | 36 | 6134 | 13 | 4279 | 19 |
| 30 | HKI1128xHKI163-1 | 3841 | 37 | 4081 | 19 | 3809 | 42 | 5454 | 36 | 2073 | 43 | 4734 | 30 | 3404 | 37 |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) | | | | AT 15% MOISTURE | | | | ZN 1 | | ZN 5 | | OV'L | |
|----------|----------------------|---------------------|----|-------|----|-----------------|----|------|----|-------|----|-------|----|------|----|
| | | BANS | R | CHHI | R | MEAN | R | MEAN | R | UDHA | R | GODH | R | MEAN | R |
| 31 | KMH-218 | 5387 | 11 | 4944 | 11 | 5837 | 7 | 7183 | 6 | 3192 | 12 | 6957 | 3 | 5075 | 6 |
| 32 | KMH-3426 | 4767 | 22 | 5989 | 5 | 6152 | 5 | 7293 | 4 | 3374 | 9 | 9232 | 1 | 6303 | 1 |
| 33 | LAXMI306 | 4868 | 19 | 3149 | 37 | 4411 | 34 | 5599 | 32 | 2301 | 38 | 3845 | 40 | 3073 | 42 |
| 34 | MUKHYA-108 | 5211 | 13 | 5174 | 8 | 5283 | 13 | 7160 | 7 | 2726 | 26 | 6640 | 10 | 4683 | 12 |
| 35 | SARPUNCH-171 | 4849 | 20 | 3528 | 27 | 4601 | 29 | 6247 | 14 | 3250 | 11 | 5236 | 24 | 4243 | 20 |
| 36 | KDMH-017 | 6234 | 5 | 4440 | 16 | 5413 | 12 | 7052 | 8 | 2977 | 15 | 8764 | 2 | 5870 | 2 |
| 37 | NMH-803 | 5811 | 9 | 5087 | 10 | 6240 | 4 | 6829 | 10 | 3263 | 10 | 6060 | 15 | 4662 | 13 |
| 38 | X8B557 | 5197 | 14 | 5124 | 9 | 5163 | 16 | 7900 | 1 | 3434 | 7 | 6603 | 11 | 5018 | 7 |
| 39 | X8B691 | 3469 | 42 | 6144 | 4 | 6069 | 6 | 7405 | 3 | 2862 | 20 | 6678 | 9 | 4770 | 10 |
| 40 | MCH-41 | 7103 | 1 | 4254 | 17 | 5196 | 15 | 6824 | 11 | 3693 | 2 | 6847 | 7 | 5270 | 3 |
| 41 | MCH-42 | 6575 | 4 | 7738 | 2 | 7210 | 1 | 7456 | 2 | 3388 | 8 | 6927 | 4 | 5157 | 5 |
| | CHECKS | | | | | | | | | | | | | | |
| 42 | NAVJOT | 4920 | 17 | 1966 | 44 | 4138 | 38 | 4994 | 43 | 2688 | 28 | 4328 | 36 | 3508 | 35 |
| 43 | BIO-9637 | 4482 | 27 | 5323 | 7 | 5103 | 17 | 6569 | 13 | 2817 | 22 | 6074 | 14 | 4446 | 17 |
| 44 | HM-9 | 5235 | 12 | 3141 | 38 | 5091 | 18 | 5519 | 33 | 1902 | 44 | 3786 | 42 | 2844 | 44 |
| | Location Mean | 4820 | | 4205 | | 4975 | | 6103 | | 2869 | | 5529 | | 4199 | |
| | Mean Stand | 30 | | 39 | | 34 | | 33 | | 27 | | 30 | | 29 | |
| | C.D. (5%) | 521 | | 600 | | 608 | | 1152 | | 1283 | | 1147 | | 1215 | |
| | C.V. (%) | 6.65 | | 8.78 | | - | | - | | 27.54 | | 12.78 | | - | |
| | F (Prob) | 0 | | 0 | | | | | | 0.148 | | 0 | | | |
| | Plot Size | 4.8 | | 6 | | - | | - | | 6 | | 4.8 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 8-07 | | 14-07 | | - | | - | | 9-07 | | 13-07 | | - | |
| | Harvest Date | 25-10 | | 22-11 | | - | | - | | 28-10 | | 28-10 | | - | |
| | Irrigation Nos | 2 | | - | | - | | - | | - | | - | | - | |
| | Fertilizer Applied N | 120 | | 120 | | - | | - | | 80 | | 100 | | - | |
| | Fertilizer Applied P | 40 | | 60 | | - | | - | | 60 | | 50 | | - | |
| | Fertilizer Applied K | - | | 40 | | - | | - | | 40 | | 50 | | - | |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | | | | | | | | | | |
|-------|-----------------|---|------|--------------|-------|------|-------|------|------|--------------|------|------|------|------|------|------|--------------|
| | | BAJA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | ZN 3 MEAN |
| 1 | PLM-21 | - | 13.6 | - | - | - | - | 1.9 | - | - | - | - | 5.9 | - | 20.6 | - | |
| 2 | L-183 | - | 13.8 | 5.5 | 11.6 | 2.2 | - | - | - | - | - | 2.4 | 2.8 | - | 11.6 | - | |
| 3 | EHL-162308 | 31.4 | 11.4 | 22 | 19.3 | 22.7 | 6.6 | 38.7 | - | 8.2 | 3.3 | 26.9 | 5.4 | - | 5.6 | 21.4 | 6.1 |
| 4 | PMSY-3 | 15.4 | 19.9 | 17.5 | 30.4 | - | 24.8 | 22.7 | - | 8.8 | 2 | 10.6 | 18.1 | 15.7 | - | 32.5 | 10.7 |
| 5 | PMSW-4 | - | 21.6 | 8.8 | - | - | - | 1.4 | - | - | - | 39.4 | 19.1 | 12.2 | 24.8 | 27.6 | 17.6 |
| 6 | PMSQ-5 | 4.7 | 10.1 | 7.2 | - | - | - | - | - | - | - | 40.2 | 24.5 | 8.4 | 23.4 | 29.2 | 15 |
| 7 | HKH-308 | 49.7 | 6.9 | 29.7 | 47.1 | 24.3 | 10.7 | 37.3 | - | 15.2 | - | 20 | 17.2 | 19.6 | 5 | 40.9 | 10.1 |
| 8 | HKH-309 | 5.9 | 7.7 | 6.8 | 3.1 | - | - | 10 | - | - | - | 30.2 | 40.4 | 40 | 10.5 | 37.8 | 17.9 |
| 9 | HKH-310 | 28.5 | - | 14.5 | 26.6 | 7 | 0.6 | 27.3 | - | 5.6 | - | 19.1 | 32.8 | 53.2 | 3.7 | 49.7 | 23.3 |
| 10 | MALVIYA MAKKA-2 | 12 | 22.4 | 16.8 | 19.1 | 20.6 | 11 | 36.7 | - | 11.8 | - | 6.3 | - | 51.2 | - | 16.8 | 7.2 |
| 11 | HKH-311 | 17.7 | 13.1 | 15.5 | 29.5 | - | 6.3 | 11.5 | - | - | - | 51.8 | 40.8 | - | - | 42.7 | 10.1 |
| 12 | HKH-312 | 20.4 | 23.3 | 21.7 | 19.2 | 5.8 | 32.6 | 13.9 | - | 9.7 | - | 35.9 | 33.5 | 22.4 | 5.2 | 45.8 | 13 |
| 13 | HKH-313 | - | 17.6 | 6.3 | 6.2 | 17.1 | 14.2 | 27.9 | - | 7.6 | 29.4 | 51.8 | 22.4 | 49.6 | 34.9 | 73.6 | 41.5 |
| 14 | EH-1974 | 26.9 | 10.9 | 19.4 | 16.8 | 15.7 | 11.7 | 4.1 | - | 2.3 | - | 3.5 | - | 11 | 30.9 | 2.1 | 5.8 |
| 15 | EH-1986 | 6.8 | - | 1.3 | 18 | 5.9 | 2.1 | 31.9 | - | 7.9 | - | 11.1 | 11.9 | 14 | 8.4 | - | 1 |
| 16 | EH-2025 | 2.9 | 16.2 | 9.1 | 47.5 | 9.5 | 15.6 | 32.5 | - | 8.9 | - | 25.6 | 17.8 | 28.6 | 18.6 | 40.2 | 13.2 |
| 17 | VEH-09-1 | 3 | 16.4 | 9.2 | - | 3 | - | 10.1 | - | - | - | 24 | 35.7 | - | 13.8 | 17.1 | 9.4 |
| 18 | VEH-09-2 | 46.5 | 9.2 | 29.1 | 129.2 | 49.6 | 108.1 | 33.4 | - | 35.1 | 3.2 | 71.6 | 73.5 | 70 | 16.6 | 32.6 | 40.7 |
| 19 | REH-2101 | 11.2 | 15.8 | 13.3 | 31.5 | 2.9 | 30.4 | 13.1 | - | 8.2 | - | 45.1 | 60.6 | 56.7 | 22.6 | 14.8 | 27.2 |
| 20 | REH-2102 | 14.6 | 2.5 | 9 | 115.9 | 12 | 40.6 | 31.2 | - | 23.1 | - | 54.8 | 26.1 | 70.9 | 33.3 | 16.7 | 28.1 |
| 21 | REH-2103 | 22.3 | 20.4 | 21.4 | 21.4 | 11.5 | - | 5 | - | 4.1 | - | 23.6 | 38.9 | 50.7 | 37.5 | 40.8 | 26.1 |
| 22 | JH-31314 | - | 17.5 | 6.8 | 76.1 | 20.4 | 32.2 | 48.8 | - | 19.8 | - | 40.9 | 36.3 | 83.5 | 21.9 | 84.5 | 36.8 |

TABLE No. 2 (Cont..)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | | | | | | | | | | |
|----------|------------------|---|------|--------------|-------|------|-------|-------|------|--------------|------|-------|------|-------|------|-------|--------------|
| | | BAJA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | ZN 3 MEAN |
| 23 | JH-31285 | 29.9 | 11.9 | 21.5 | 98.4 | 12 | 85.1 | 53.4 | - | 32.7 | - | 45.6 | 56 | 93.6 | 20.3 | 117.7 | 49.9 |
| 24 | JH-31336 | 1 | 21.8 | 10.7 | 56.7 | 16.1 | 19.8 | 43.2 | - | 13.2 | - | 5.9 | 27.6 | 82.8 | 5.4 | 25.9 | 22.5 |
| 25 | JH-31292 | 21.1 | - | 9.5 | 153.1 | 1.7 | 128.6 | 30.2 | - | 32 | - | 55.1 | 37 | 99.6 | 44.7 | 67.4 | 48.7 |
| 26 | JH-31288 | - | - | - | 42.5 | 17.9 | 38.6 | 38.8 | - | 14.2 | - | 47.4 | 33.6 | 56.1 | 29.5 | 26.2 | 28 |
| 27 | AH-97001 | - | - | - | - | 7.8 | 11.6 | - | - | - | - | 24 | 19.6 | 38.1 | - | 31.5 | 9.9 |
| 28 | HKI1105xHKI163-1 | 11.8 | - | - | - | 6.2 | 19.9 | 14.4 | - | 2.2 | - | 9.7 | 11.7 | - | 11.5 | 27.5 | 4.9 |
| 29 | BML7xHKI163-1 | 13.4 | - | 4.9 | 79.2 | 2.3 | 32.1 | 24.3 | - | 14.3 | - | 47 | 24.4 | 19.9 | 2.7 | 90.7 | 23 |
| 30 | HKI1128xHKI163-1 | 40.6 | - | 17.6 | 8.8 | 1.1 | 24.4 | 12.5 | - | 2.8 | - | 21.8 | 1.5 | 35.5 | 43.7 | - | 13.8 |
| 31 | KMH-218 | 33.6 | - | 17.3 | 146.9 | - | 78.9 | 75.1 | - | 36.9 | 2.5 | 68.3 | 15.5 | 104.7 | 54.7 | 101.1 | 55.1 |
| 32 | KMH-3426 | 37.6 | 17.8 | 28.4 | 173.1 | 20.6 | 63.9 | 68.2 | - | 39.9 | - | 67.9 | 57.9 | 90.8 | 56.1 | 88.5 | 55.5 |
| 33 | LAXMI306 | 8.8 | - | 4.4 | 17.9 | - | 31.9 | 3.6 | - | 1.3 | - | 23.9 | 9.5 | 27.8 | 18.9 | 27.8 | 14 |
| 34 | MUKHYA-108 | 60.6 | 17.6 | 40.5 | 97.8 | 37.7 | 59.5 | 104.5 | - | 44.8 | 15.8 | 86.1 | 36.3 | 93.1 | 61.1 | 100.5 | 62.2 |
| 35 | SARPUNCH-171 | 30.6 | 17.9 | 24.7 | - | 8.9 | 10.7 | 40.4 | - | 9.9 | 2.2 | 58 | 19.2 | 70.4 | 46.7 | 70 | 42.4 |
| 36 | KDMH-017 | 23.7 | 16.6 | 20.4 | 125 | 15.6 | 114.8 | 66.3 | - | 40.6 | - | 80.7 | 2.2 | 53.3 | 45.7 | 104.3 | 38.8 |
| 37 | NMH-803 | - | - | - | 137.1 | 37.5 | 28.9 | 101.6 | - | 45.4 | - | 42.6 | 23 | 87 | 37.3 | 97.4 | 44.7 |
| 38 | X8B557 | 61.2 | - | 31.2 | 137.4 | 14.9 | 121.1 | 85.4 | - | 51.3 | 13.5 | 78.9 | 24.9 | 83.7 | 74.7 | 107.3 | 61.4 |
| 39 | X8B691 | 23.3 | 1 | 12.9 | 95.6 | 33.5 | 82.1 | 77.1 | - | 40 | - | 56 | 65.1 | 80 | 71.4 | 97.5 | 54.2 |
| 40 | MCH-41 | 37.5 | 3.6 | 21.7 | 69.2 | 20.8 | 36 | 58.2 | - | 21 | - | 63.8 | 22.4 | 81.1 | 36.6 | 116 | 43.8 |
| 41 | MCH-42 | 45.8 | 7.7 | 28 | 61.6 | 6.1 | 85.1 | 65.6 | - | 28.5 | - | 103.4 | - | 89.6 | 62.3 | 118.2 | 52.3 |
| 42 | CHECKS NAVJOT | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | BIO-9637 | 39.6 | 10.7 | 26.1 | 84 | 32.3 | 21.3 | 46.6 | - | 22.8 | - | 32.5 | 25.5 | 58.8 | 29 | 69.9 | 27.9 |
| 44 | HM-9 | 3.7 | 1.3 | 2.6 | - | 18.4 | 29.2 | 17 | - | 4.8 | - | - | 18 | 15.3 | 40.8 | 40.9 | 12 |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | | | | | | | | | | |
|----------|-----------------|---|------|------|------|------|------|--------------|--------------|------|------|-------|--------------|--------------|--------------|--------------|--------------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG POCB | ZN 4 MEAN | UDAI | BANS | CHHI | ZN 5 MEAN | OV'L MEAN | ZN 1 UDHA | ZN 5 GODH | OV'L MEAN |
| 1 | PLM-21 | 6.7 | 19.8 | 17 | - | 22.2 | 15.2 | 36.9 | 16.4 | 7.3 | - | 69.6 | 10.4 | 2.9 | - | - | - |
| 2 | L-183 | 19.2 | - | - | - | 8.1 | - | 7 | - | - | - | 81.9 | - | - | 5.3 | - | - |
| 3 | EHL-162308 | 42.3 | 59.8 | 25.2 | - | 16.2 | 15.4 | - | 20.6 | 34.7 | - | 66.6 | 18.6 | 14.3 | 35.9 | 5.3 | 17 |
| 4 | PMSY-3 | 38.7 | 2.7 | - | 19.3 | 53.7 | 27.1 | - | 19.1 | - | 0.5 | 106.5 | 16.2 | 14.3 | 6.8 | - | - |
| 5 | PMSW-4 | 11.9 | - | 4.6 | - | 39.1 | 14.6 | - | 7.9 | - | - | 57.5 | 0.4 | 6.3 | - | 35.9 | 19.4 |
| 6 | PMSQ-5 | 30.2 | 42.9 | 17.5 | - | 37.8 | 21.3 | - | 20.3 | - | - | 81.7 | 2.7 | 7.9 | 0.3 | 29 | 18 |
| 7 | HKH-308 | 27.6 | 67.4 | - | 16.7 | 34.2 | 9.9 | 10.3 | 20.5 | 18.4 | 35.9 | 68.7 | 33.3 | 19.2 | - | - | - |
| 8 | HKH-309 | 27.5 | 72.5 | 3.7 | 29.9 | 64.9 | - | - | 22.6 | - | - | 69.5 | - | 9.6 | 9.1 | 6.2 | 7.3 |
| 9 | HKH-310 | 58.6 | 73.3 | 1.7 | 13.4 | 36.5 | - | - | 20.2 | 24.9 | - | 79.7 | 22.6 | 17 | 34 | 22 | 26.6 |
| 10 | MALVIYA MAKKA-2 | 36.6 | 57.8 | - | 0.6 | 59.7 | 14.4 | - | 21.5 | 11.8 | - | 43.6 | 10.4 | 14.4 | - | 39.4 | 17.1 |
| 11 | HKH-311 | 18.2 | 85.2 | 2.3 | 23.9 | 72.4 | 16.1 | 36.4 | 34.2 | 41.8 | - | 85.8 | 20.5 | 17.2 | 65.6 | 37.5 | 48.3 |
| 12 | HKH-312 | 26.4 | 87.1 | 12.4 | 36.4 | 57.8 | 10.6 | 6.5 | 31.2 | 18.1 | - | 75.2 | 13.6 | 19.2 | 1.8 | 19.5 | 12.7 |
| 13 | HKH-313 | 39.8 | 53.2 | 14.7 | 2.5 | 8.1 | 46.2 | - | 24.2 | - | - | 116.1 | - | 19.3 | 33.1 | 8.9 | 18.2 |
| 14 | EH-1974 | 36.2 | 46 | 2.5 | 52.3 | 52.2 | 26.4 | - | 28.1 | 20.3 | 34.1 | 93.2 | 37.3 | 17.1 | - | - | - |
| 15 | EH-1986 | 57.2 | 26.8 | 15.3 | - | 50.4 | 0.5 | 4.8 | 19.3 | 21.4 | - | 77.2 | 12.7 | 10.1 | - | 28.5 | 11.9 |
| 16 | EH-2025 | 40.5 | 38.6 | 7 | 9.2 | 63.7 | 16.9 | 5.5 | 24.7 | 80.1 | 5 | 100.5 | 53.6 | 20 | 7.6 | 5.5 | 6.3 |
| 17 | VEH-09-1 | 51.5 | 33.3 | - | 21.4 | 14.7 | 3.7 | - | 13.2 | - | - | 37.8 | - | 5.3 | - | - | - |
| 18 | VEH-09-2 | 34.1 | 71.9 | 48.5 | 62.3 | 95.2 | 33.8 | - | 47.6 | - | - | 280.5 | 26 | 38.9 | 16.8 | 44.9 | 34.2 |
| 19 | REH-2101 | 22.9 | 40.8 | 22.6 | 23.1 | 40.2 | 22.5 | 2.4 | 24.5 | - | 22 | 68 | 15.6 | 19.1 | - | 16.4 | 9.6 |
| 20 | REH-2102 | 32.4 | 29.7 | - | 25.5 | 91.6 | 11.2 | 25.1 | 26.7 | 10.7 | - | 148.6 | 23 | 24.1 | 3.3 | 58.3 | 37.2 |
| 21 | REH-2103 | 30.9 | 39.8 | - | 4.9 | 69.1 | 15.2 | 8.7 | 22.6 | 4 | - | 137.7 | 13 | 17.7 | - | 54.5 | 30.2 |
| 22 | JH-31314 | 28.6 | 53.9 | 30.5 | 9.5 | 88.7 | 20.9 | - | 28.3 | - | 23.6 | 70.3 | 10.6 | 24.1 | - | 59.8 | 28.8 |

TABLE No. 2 (Cont..)

| | | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | | | | | | | | | | |
|----|------------------|---|-------|------|------|-------|------|------|------|------|------|-------|------|------|------|-------|------|
| S1 | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG | ZN 4 | UDAI | BANS | CHHI | ZN 5 | OV'L | ZN 1 | ZN 5 | OV'L |
| No | PEDIGREE | | | | | | | POCB | MEAN | | | | MEAN | MEAN | UDHA | GODH | MEAN |
| 23 | JH-31285 | 58.8 | 23.3 | 45.5 | 2.8 | 75 | 12.9 | 4 | 29.7 | 20 | - | 184.5 | 36.5 | 34.8 | - | 18.9 | 8.5 |
| 24 | JH-31336 | 7.2 | 79 | 26.1 | - | 43.3 | 8.3 | 9.3 | 20.4 | - | - | 64.6 | - | 14.5 | 34.4 | 38.2 | 36.8 |
| 25 | JH-31292 | 53.1 | 66.1 | 30.9 | 33.9 | 98.6 | 58.4 | 50.9 | 56 | 7.7 | 25.6 | 307.5 | 62.3 | 44.8 | 16.5 | 35.2 | 28 |
| 26 | JH-31288 | 47.5 | 67.8 | 38 | - | 30.5 | 13.9 | 14.5 | 28.3 | 22.1 | 9.6 | 128.5 | 34 | 22.2 | 7.2 | 17.5 | 13.6 |
| 27 | AH-97001 | - | 29.8 | 38.9 | 14.5 | 45.4 | - | 2.1 | 15.1 | - | - | 58.7 | 2.3 | 7 | 3 | 19.3 | 13.1 |
| 28 | HKI1105xHKI163-1 | 26.4 | 19 | 36.4 | - | 21.2 | 18.7 | 20.6 | 20 | 8.7 | - | 52 | 7.6 | 8.8 | - | 1.9 | 0.3 |
| 29 | BML7xHKI163-1 | 24.2 | 16.4 | 43.6 | 16 | 46.3 | 25.4 | - | 21.2 | 10.7 | - | 132.8 | 16.3 | 17.8 | - | 41.7 | 22 |
| 30 | HKI1128xHKI163-1 | 83.3 | 1.4 | - | 5.2 | 30.8 | 14 | - | 14.1 | - | - | 107.5 | - | 9.2 | - | 9.4 | - |
| 31 | KMH-218 | 54.4 | 16.3 | 2.9 | 35 | 138.8 | 59.9 | 35.7 | 50 | 29.9 | 9.5 | 151.4 | 41.1 | 43.8 | 18.8 | 60.8 | 44.7 |
| 32 | KMH-3426 | 36.3 | 47.1 | 59.5 | 28.7 | 104.9 | 49.1 | 15.9 | 48.6 | 39.3 | - | 204.5 | 48.7 | 46 | 25.5 | 113.3 | 79.7 |
| 33 | LAXMI306 | 21.6 | 11.8 | 19.6 | 6.6 | 58.4 | 16.7 | 28.6 | 22.8 | - | - | 60.1 | 6.6 | 12.1 | - | - | - |
| 34 | MUKHYA-108 | 27.2 | 30.8 | 26.8 | 2.1 | 73.3 | 55.2 | 24.6 | 36 | - | 5.9 | 163.1 | 27.7 | 43.4 | 1.4 | 53.4 | 33.5 |
| 35 | SARPUNCH-171 | 16.6 | 28.4 | 5 | 13.8 | 98 | 33.2 | 11.2 | 29.6 | - | - | 79.4 | 11.2 | 25.1 | 20.9 | 21 | 21 |
| 36 | KDMH-017 | 56.2 | 43.8 | 20.5 | 71.3 | 125.9 | 45.7 | 10.6 | 52.5 | 0.7 | 26.7 | 125.8 | 30.8 | 41.2 | 10.7 | 102.5 | 67.4 |
| 37 | NMH-803 | - | 100.8 | 39.4 | 8 | 87.3 | 62.4 | 20.8 | 44.6 | 41.5 | 18.1 | 158.7 | 50.8 | 36.7 | 21.4 | 40 | 32.9 |
| 38 | X8B557 | 58.6 | 35.5 | 41 | 92.1 | 177.6 | 87.9 | 57.3 | 79.6 | - | 5.6 | 160.6 | 24.8 | 58.2 | 27.8 | 52.6 | 43.1 |
| 39 | X8B691 | 76.8 | 66.8 | - | 91.6 | 118 | 58.8 | 42.7 | 61 | 55.5 | - | 212.4 | 46.7 | 48.3 | 6.5 | 54.3 | 36 |
| 40 | MCH-41 | 61.3 | 38.1 | 41.4 | 24.9 | 158.4 | 46.8 | - | 51.3 | - | 44.4 | 116.3 | 25.6 | 36.6 | 37.4 | 58.2 | 50.2 |
| 41 | MCH-42 | 69.8 | 85.2 | - | 46.7 | 126.7 | 81.1 | 13.3 | 60.5 | 32.4 | 33.6 | 293.5 | 74.2 | 49.3 | 26.1 | 60.1 | 47 |
| 42 | CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | BIO-9637 | 26.4 | 39 | 23.7 | 53.9 | 88.2 | 37.1 | 47.5 | 44.5 | - | - | 170.7 | 23.3 | 31.5 | 4.8 | 40.4 | 26.7 |
| 44 | HM-9 | 18.6 | 35.3 | - | - | 65.3 | 13.3 | - | 12 | 24.8 | 6.4 | 59.7 | 23 | 10.5 | - | - | - |

TABLE No. 2 (Cont..)

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

TABLE No. 2 (Cont..)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO-9637 | | | | | | | | | | | | | | | | | |
|----------|------------------|---|------|--------------|------|-----|------|------|------|------|------|--------------|------|------|------|------|------|------|------|
| | | BAJA | KANG | ZN 1 MEAN | | | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | | BAHR | DHOL | JASH | VARA | RANC | AMBI |
| 23 | JH-31285 | - | 1.1 | - | 7.9 | - | 52.6 | 4.7 | 3.1 | 8.1 | 39.9 | 9.8 | 24.3 | 21.9 | - | 28.2 | 17.1 | | |
| 24 | JH-31336 | - | 10 | - | - | - | - | - | - | - | 28.2 | - | 1.7 | 15.1 | - | - | - | | |
| 25 | JH-31292 | - | - | - | 37.6 | - | 88.4 | - | - | 7.5 | 40.2 | 17 | 9.1 | 25.7 | 12.1 | - | 16.2 | | |
| 26 | JH-31288 | - | - | - | - | - | 14.3 | - | - | - | 20.4 | 11.2 | 6.4 | - | 0.4 | - | 0 | | |
| 27 | AH-97001 | - | - | - | - | - | - | - | 3.7 | - | - | - | - | - | - | - | - | | |
| 28 | HKI1105xHKI163-1 | - | - | - | - | - | - | - | - | - | 13 | - | - | - | - | - | - | | |
| 29 | BML7xHKI163-1 | - | - | - | - | - | 8.9 | - | 1.1 | - | 29.2 | 10.9 | - | - | - | 12.3 | - | | |
| 30 | HKI1128xHKI163-1 | 0.7 | - | - | - | - | 2.6 | - | - | - | 9.1 | - | - | - | 11.4 | - | - | | |
| 31 | KMH-218 | - | - | - | 34.2 | - | 47.4 | 19.4 | - | 11.5 | 44.5 | 27 | - | 28.9 | 19.9 | 18.4 | 21.2 | | |
| 32 | KMH-3426 | - | 6.4 | 1.8 | 48.4 | - | 35.1 | 14.7 | - | 13.9 | 29.6 | 26.7 | 25.8 | 20.1 | 21 | 10.9 | 21.5 | | |
| 33 | LAXMI306 | - | - | - | - | - | 8.7 | - | - | - | 19.2 | - | - | - | - | - | - | | |
| 34 | MUKHYA-108 | 15.1 | 6.2 | 11.5 | 7.5 | 4.1 | 31.5 | 39.5 | 3.8 | 17.9 | 63.3 | 40.4 | 8.6 | 21.6 | 24.9 | 18 | 26.8 | | |
| 35 | SARPUNCH-171 | - | 6.5 | - | - | - | - | - | 4.8 | - | 44.1 | 19.3 | - | 7.3 | 13.6 | 0.1 | 11.3 | | |
| 36 | KDMH-017 | - | 5.4 | - | 22.3 | - | 77.1 | 13.4 | - | 14.5 | 10.1 | 36.4 | - | - | 12.9 | 20.3 | 8.5 | | |
| 37 | NMH-803 | - | - | - | 28.9 | 4 | 6.2 | 37.6 | 10.5 | 18.4 | 38.9 | 7.6 | - | 17.8 | 6.4 | 16.2 | 13.1 | | |
| 38 | X8B557 | 15.5 | - | 4 | 29 | - | 82.3 | 26.5 | 9.3 | 23.2 | 60 | 35 | - | 15.6 | 35.4 | 22 | 26.2 | | |
| 39 | X8B691 | - | - | - | 6.3 | 0.9 | 50.2 | 20.8 | 0.2 | 14 | 4.4 | 17.7 | 31.6 | 13.3 | 32.9 | 16.3 | 20.5 | | |
| 40 | MCH-41 | - | - | - | - | - | 12.1 | 7.9 | - | - | 7.4 | 23.6 | - | 14 | 5.9 | 27.1 | 12.4 | | |
| 41 | MCH-42 | 4.5 | - | 1.5 | - | - | 52.6 | 13 | - | 4.7 | 7.7 | 53.5 | - | 19.4 | 25.8 | 28.5 | 19 | | |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | - | - | - | - | - | - | - | 11.2 | - | 41 | - | - | - | - | - | - | | |
| 43 | BIO-9637 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 44 | HM-9 | - | - | - | - | - | 6.5 | - | - | - | - | - | - | - | 9.1 | - | - | | |

TABLE No. 2 (Cont..)

| | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9637 | | | | | | | | | | | | | | | |
|----|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | | | | | | BANG | ZN 4 | | | | | ZN 5 | OV'L | ZN 1 | ZN 5 | OV'L |
| No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | POCB | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | UDHA | GODH | MEAN |
| 1 | PLM-21 | - | - | - | - | - | - | - | - | 7.8 | - | - | - | - | - | - | - |
| 2 | L-183 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.4 | - | - |
| 3 | EHL-162308 | 12.6 | 15 | 1.2 | - | - | - | - | - | 35.3 | - | - | - | - | 29.7 | - | - |
| 4 | PMSY-3 | 9.7 | - | - | - | - | - | - | - | - | 10.4 | - | - | - | 1.9 | - | - |
| 5 | PMSW-4 | - | - | - | - | - | - | - | - | - | 4.1 | - | - | - | - | - | - |
| 6 | PMSQ-5 | 3 | 2.8 | - | - | - | - | - | - | - | 0.8 | - | - | - | - | - | - |
| 7 | HKH-308 | 0.9 | 20.4 | - | - | - | - | - | - | 19 | 49.2 | - | 8.1 | - | - | - | - |
| 8 | HKH-309 | 0.9 | 24.1 | - | - | - | - | - | - | - | - | - | - | - | 4.1 | - | - |
| 9 | HKH-310 | 25.4 | 24.7 | - | - | - | - | - | - | 25.4 | 6.6 | - | - | - | 27.8 | - | - |
| 10 | MALVIYA MAKKA-2 | 8.1 | 13.5 | - | - | - | - | - | - | 12.3 | 4.9 | - | - | - | - | - | - |
| 11 | HKH-311 | - | 33.3 | - | - | - | - | - | - | 42.5 | - | - | - | - | 58 | - | 17 |
| 12 | HKH-312 | - | 34.6 | - | - | - | - | - | - | 18.6 | - | - | - | - | - | - | - |
| 13 | HKH-313 | 10.6 | 10.2 | - | - | - | 6.6 | - | - | - | - | - | - | - | 27 | - | - |
| 14 | EH-1974 | 7.8 | 5 | - | - | - | - | - | - | 20.8 | 47.3 | - | 11.4 | - | - | - | - |
| 15 | EH-1986 | 24.3 | - | - | - | - | - | - | - | 21.9 | - | - | - | - | - | - | - |
| 16 | EH-2025 | 11.2 | - | - | - | - | - | - | - | 80.9 | 15.3 | - | 24.5 | - | 2.7 | - | - |
| 17 | VEH-09-1 | 19.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | VEH-09-2 | 6.1 | 23.7 | 20.1 | 5.5 | 3.8 | - | - | 2.1 | - | - | 40.6 | 2.2 | 5.6 | 11.5 | 3.2 | 5.9 |
| 19 | REH-2101 | - | 1.3 | - | - | - | - | - | - | - | 33.9 | - | - | - | - | - | - |
| 20 | REH-2102 | 4.8 | - | - | - | 1.8 | - | - | - | 11.2 | - | - | - | - | - | 12.8 | 8.3 |
| 21 | REH-2103 | 3.5 | 0.6 | - | - | - | - | - | - | 4.5 | - | - | - | - | - | 10.1 | 2.8 |
| 22 | JH-31314 | 1.7 | 10.7 | 5.5 | - | 0.3 | - | - | - | - | 35.7 | - | - | - | - | 13.8 | 1.7 |

TABLE No. 2 (Cont..)

| | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9637 | | | | | | | | | | | | | | | | |
|--------|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | | | | | | | | BANG | ZN 4 | | | | ZN 5 | OV'L | ZN 1 | ZN 5 | OV'L |
| No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | POCB | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | UDHA | GODH | MEAN | |
| 23 | JH-31285 | 25.6 | - | 17.7 | - | - | - | - | - | 20.6 | 5.3 | 5.1 | 10.7 | 2.5 | - | - | - | |
| 24 | JH-31336 | - | 28.8 | 2 | - | - | - | - | - | - | - | - | - | - | 28.2 | - | 7.9 | |
| 25 | JH-31292 | 21.1 | 19.5 | 5.8 | - | 5.6 | 15.5 | 2.3 | 8 | 8.1 | 37.9 | 50.6 | 31.6 | 10.1 | 11.2 | - | 1 | |
| 26 | JH-31288 | 16.7 | 20.7 | 11.6 | - | - | - | - | - | 22.6 | 20.4 | - | 8.7 | - | 2.3 | - | - | |
| 27 | AH-97001 | - | - | 12.4 | - | - | - | - | - | - | 8.9 | - | - | - | - | - | - | |
| 28 | HKI1105xHKI163-1 | 0 | - | 10.3 | - | - | - | - | - | 9.2 | - | - | - | - | - | - | - | |
| 29 | BML7xHKI163-1 | - | - | 16.1 | - | - | - | - | - | 11.2 | - | - | - | - | - | 1 | - | |
| 30 | HKI1128xHKI163-1 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 31 | KMH-218 | 22.1 | - | - | - | 26.9 | 16.6 | - | 3.8 | 30.5 | 20.2 | - | 14.4 | 9.4 | 13.3 | 14.5 | 14.2 | |
| 32 | KMH-3426 | 7.9 | 5.9 | 29 | - | 8.9 | 8.7 | - | 2.9 | 39.9 | 6.4 | 12.5 | 20.6 | 11 | 19.8 | 52 | 41.8 | |
| 33 | LAXMI306 | - | - | - | - | - | - | - | - | - | 8.6 | - | - | - | - | - | - | |
| 34 | MUKHYA-108 | 0.6 | - | 2.6 | - | - | 13.2 | - | - | - | 16.3 | - | 3.5 | 9 | - | 9.3 | 5.3 | |
| 35 | SARPUNCH-171 | - | - | - | - | 5.2 | - | - | - | - | 8.2 | - | - | - | 15.4 | - | - | |
| 36 | KDMH-017 | 23.5 | 3.4 | - | 11.3 | 20.1 | 6.2 | - | 5.5 | 1.1 | 39.1 | - | 6.1 | 7.4 | 5.7 | 44.3 | 32.1 | |
| 37 | NMH-803 | - | 44.5 | 12.7 | - | - | 18.4 | - | 0.1 | 42.2 | 29.7 | - | 22.3 | 4 | 15.8 | - | 4.9 | |
| 38 | X8B557 | 25.5 | - | 14 | 24.8 | 47.5 | 37 | 6.6 | 24.3 | - | 16 | - | 1.2 | 20.3 | 21.9 | 8.7 | 12.9 | |
| 39 | X8B691 | 39.8 | 20 | - | 24.5 | 15.9 | 15.8 | - | 11.5 | 56.1 | - | 15.4 | 18.9 | 12.7 | 1.6 | 9.9 | 7.3 | |
| 40 | MCH-41 | 27.6 | - | 14.4 | - | 37.3 | 7 | - | 4.7 | - | 58.5 | - | 1.8 | 3.9 | 31.1 | 12.7 | 18.5 | |
| 41 | MCH-42 | 34.3 | 33.3 | - | - | 20.5 | 32.1 | - | 11.1 | 33 | 46.7 | 45.4 | 41.3 | 13.5 | 20.3 | 14 | 16 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | - | - | - | - | - | - | - | - | 0.4 | 9.8 | - | - | - | - | - | - | |
| 43 | BIO-9637 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 44 | HM-9 | - | - | - | - | - | - | - | - | 25.3 | 16.8 | - | - | - | - | - | - | |

TABLE No. 2 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | | | | | | | | | | |
|-------|-----------------|---|------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|
| | | BAJA | KANG | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | |
| | | | | MEAN | DELH | KARN | LUDH | PANT | KANP | MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN |
| 1 | PLM-21 | - | 12.1 | - | - | - | - | - | 13.9 | - | 16.8 | - | - | - | - | - | - |
| 2 | L-183 | - | 12.3 | 2.8 | 16.7 | - | - | - | - | - | 45.9 | - | - | - | - | - | - |
| 3 | EHL-162308 | 26.7 | 9.9 | 19 | 24.8 | 3.6 | - | 18.5 | - | 3.3 | 69.8 | 28.3 | - | - | - | - | - |
| 4 | PMSY-3 | 11.4 | 18.4 | 14.6 | 36.4 | - | - | 4.8 | 11.9 | 3.8 | 67.6 | 11.8 | 0.1 | 0.3 | - | - | - |
| 5 | PMSW-4 | - | 20 | 6.1 | - | - | - | - | 14 | - | 54.1 | 40.9 | 0.9 | - | - | - | 5 |
| 6 | PMSQ-5 | 1 | 8.6 | 4.5 | - | - | - | - | 7.3 | - | 31.9 | 41.8 | 5.5 | - | - | - | 2.7 |
| 7 | HKH-308 | 44.5 | 5.5 | 26.5 | 53.8 | 5 | - | 17.3 | 9.9 | 10 | 25.9 | 21.3 | - | 3.7 | - | 0 | - |
| 8 | HKH-309 | 2.2 | 6.3 | 4.1 | 7.8 | - | - | - | - | - | 13.5 | 31.6 | 19 | 21.4 | - | - | 5.2 |
| 9 | HKH-310 | 24 | - | 11.6 | 32.3 | - | - | 8.7 | 6.2 | 0.8 | 60.2 | 20.4 | 12.5 | 32.9 | - | 6.2 | 10.1 |
| 10 | MALVIYA MAKKA-2 | 8 | 20.7 | 13.9 | 24.5 | 1.8 | - | 16.8 | 9.1 | 6.7 | 35.1 | 7.5 | - | 31.1 | - | - | - |
| 11 | HKH-311 | 13.6 | 11.6 | 12.6 | 35.4 | - | - | - | 0.6 | - | 17.4 | 53.5 | 19.3 | - | - | 1.3 | - |
| 12 | HKH-312 | 16.2 | 21.7 | 18.7 | 24.6 | - | 2.7 | - | 16.6 | 4.7 | 4 | 37.4 | 13.2 | 6.1 | - | 3.5 | 0.9 |
| 13 | HKH-313 | - | 16 | 3.7 | 11 | - | - | 9.2 | 6.2 | 2.7 | 112.7 | 53.5 | 3.7 | 29.7 | - | 23.2 | 26.3 |
| 14 | EH-1974 | 22.4 | 9.4 | 16.4 | 22.1 | - | - | - | 5 | - | 38.7 | 4.6 | - | - | - | - | - |
| 15 | EH-1986 | 3 | - | - | 23.4 | - | - | 12.7 | 12.4 | 2.9 | 19.4 | 12.3 | - | - | - | - | - |
| 16 | EH-2025 | - | 14.6 | 6.4 | 54.2 | - | - | 13.2 | - | 3.9 | 6.3 | 27 | - | 11.5 | - | - | 1.1 |
| 17 | VEH-09-1 | - | 14.8 | 6.5 | 0.5 | - | - | - | 13.6 | - | 32.8 | 25.4 | 15 | - | - | - | - |
| 18 | VEH-09-2 | 41.4 | 7.7 | 25.8 | 139.6 | 26.4 | 61.1 | 14 | - | 29 | 69.5 | 73.5 | 47 | 47.4 | - | - | 25.6 |
| 19 | REH-2101 | 7.3 | 14.2 | 10.5 | 37.5 | - | 1 | - | 11.2 | 3.3 | 26.9 | 46.7 | 36.1 | 35.9 | - | - | 13.6 |
| 20 | REH-2102 | 10.6 | 1.2 | 6.2 | 125.8 | - | 8.8 | 12.1 | 11.7 | 17.5 | 23.4 | 56.5 | 6.9 | 48.2 | - | - | 14.4 |
| 21 | REH-2103 | 18 | 18.8 | 18.4 | 26.9 | - | - | - | 18 | - | 19.8 | 25 | 17.8 | 30.7 | - | - | 12.6 |
| 22 | JH-31314 | - | 15.9 | 4.2 | 84.2 | 1.7 | 2.4 | 27.1 | - | 14.3 | 29.5 | 42.4 | 15.5 | 59.1 | - | 30.9 | 22.1 |

TABLE No. 2 (Cont..)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | | | | | | | | | | |
|----------|------------------|---|------|--------------|-------|------|------|------|------|--------------|------|-------|------|------|------|------|--------------|
| | | BAJA | KANG | ZN 1 MEAN | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | ZN 3 MEAN |
| 23 | JH-31285 | 25.4 | 10.5 | 18.5 | 107.5 | - | 43.3 | 31.1 | 10.7 | 26.7 | 63.1 | 47.1 | 32.2 | 67.9 | - | 54.5 | 33.8 |
| 24 | JH-31336 | - | 20.1 | 7.9 | 63.9 | - | - | 22.3 | - | 8 | 49.4 | 7.1 | 8.1 | 58.5 | - | - | 9.4 |
| 25 | JH-31292 | 16.8 | - | 6.8 | 164.6 | - | 77 | 11.2 | - | 26 | 63.4 | 56.8 | 16.1 | 73.1 | 2.8 | 18.8 | 32.8 |
| 26 | JH-31288 | - | - | - | 49 | - | 7.3 | 18.6 | - | 9 | 40.3 | 49 | 13.2 | 35.4 | - | - | 14.3 |
| 27 | AH-97001 | - | - | - | - | - | - | - | 11.4 | - | 8.8 | 25.3 | 1.4 | 19.8 | - | - | - |
| 28 | HKI1105xHKI163-1 | 7.9 | - | - | 1.9 | - | - | - | 3.9 | - | 31.7 | 10.9 | - | - | - | - | - |
| 29 | BML7xHKI163-1 | 9.4 | - | 2.2 | 87.4 | - | 2.3 | 6.2 | 8.5 | 9.1 | 50.5 | 48.6 | 5.4 | 4 | - | 35.4 | 9.9 |
| 30 | HKI1128xHKI163-1 | 35.6 | - | 14.6 | 13.7 | - | - | - | 4.5 | - | 27.2 | 23.1 | - | 17.5 | 2.1 | - | 1.6 |
| 31 | KMH-218 | 28.9 | - | 14.3 | 158.1 | - | 38.5 | 49.6 | 5.2 | 30.7 | 68.4 | 70.1 | - | 77.5 | 9.9 | 42.7 | 38.5 |
| 32 | KMH-3426 | 32.8 | 16.2 | 25.1 | 185.5 | 1.8 | 26.9 | 43.7 | 6.9 | 33.5 | 51.1 | 69.7 | 33.8 | 65.5 | 10.9 | 33.7 | 38.8 |
| 33 | LAXMI306 | 5 | - | 1.8 | 23.3 | - | 2.1 | - | 3 | - | 38.9 | 25.3 | - | 10.8 | - | - | 1.8 |
| 34 | MUKHYA-108 | 55 | 16 | 37 | 106.8 | 16.3 | 23.5 | 74.7 | 11.4 | 38.2 | 90.3 | 88.1 | 15.5 | 67.5 | 14.5 | 42.3 | 44.8 |
| 35 | SARPUNCH-171 | 26 | 16.3 | 21.5 | 4.2 | - | - | 20 | 12.6 | 4.9 | 67.9 | 59.8 | 1 | 47.7 | 4.2 | 20.7 | 27.1 |
| 36 | KDMH-017 | 19.4 | 15.1 | 17.4 | 135.2 | - | 66.3 | 42.1 | 2.8 | 34.2 | 28.4 | 82.7 | - | 32.9 | 3.5 | 45 | 23.9 |
| 37 | NMH-803 | - | - | - | 147.9 | 16.2 | - | 72.3 | 18.6 | 38.7 | 61.9 | 44.2 | 4.2 | 62.2 | - | 40.1 | 29.2 |
| 38 | X8B557 | 55.5 | - | 27.9 | 148.2 | - | 71.2 | 58.4 | 17.4 | 44.4 | 86.5 | 80.9 | 5.8 | 59.3 | 24.1 | 47.1 | 44.1 |
| 39 | X8B691 | 19 | - | 10.1 | 104.5 | 12.8 | 41 | 51.3 | 7.6 | 33.6 | 21.7 | 57.7 | 40 | 56.1 | 21.8 | 40.2 | 37.7 |
| 40 | MCH-41 | 32.7 | 2.2 | 18.6 | 76.9 | 2.1 | 5.3 | 35.2 | - | 15.5 | 25.2 | 65.6 | 3.7 | 57 | - | 53.3 | 28.4 |
| 41 | MCH-42 | 40.7 | 6.3 | 24.8 | 68.9 | - | 43.3 | 41.5 | 2.3 | 22.7 | 25.6 | 105.6 | - | 64.4 | 15.3 | 54.9 | 36 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | - | - | - | 4.6 | - | - | - | 19.4 | - | 64.3 | 1.1 | - | - | - | - | - |
| 43 | BIO-9637 | 34.7 | 9.2 | 22.9 | 92.3 | 11.8 | - | 25.3 | 7.4 | 17.2 | 16.5 | 34 | 6.4 | 37.7 | - | 20.6 | 14.2 |
| 44 | HM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE No. 2 (Cont..)

| | | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | | | | | | | | | | |
|----|-----------------|---|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| S1 | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG | ZN 4 | UDAI | BANS | CHHI | ZN 5 | OV'L | ZN 1 | ZN 5 | OV'L |
| No | PEDIGREE | | | | | | | POCB | MEAN | | | | MEAN | MEAN | UDHA | GODH | MEAN |
| 1 | PLM-21 | - | - | 53.6 | - | - | 1.7 | 71.3 | 3.9 | - | - | 6.2 | - | - | 38.8 | - | 4.2 |
| 2 | L-183 | 0.5 | - | 13 | - | - | - | 33.9 | - | - | - | 13.9 | - | - | 48.7 | - | 14.4 |
| 3 | EHL-162308 | 19.9 | 18.1 | 64.4 | - | - | 1.8 | 21.9 | 7.7 | 8 | - | 4.3 | - | 3.4 | 92 | 20.4 | 44.3 |
| 4 | PMSY-3 | 16.9 | - | 24 | 21.4 | - | 12.2 | 17.1 | 6.4 | - | - | 29.3 | - | 3.4 | 50.8 | 0.7 | 17.4 |
| 5 | PMSW-4 | - | - | 37.4 | - | - | 1.2 | 16 | - | - | - | - | - | - | 31.2 | 55.3 | 47.3 |
| 6 | PMSQ-5 | 9.7 | 5.6 | 54.3 | 0.8 | - | 7.1 | 20.2 | 7.4 | - | - | 13.8 | - | - | 41.8 | 47.5 | 45.6 |
| 7 | HKH-308 | 7.5 | 23.7 | 16.3 | 18.7 | - | - | 38 | 7.6 | - | 27.7 | 5.6 | 8.4 | 7.9 | 20 | 12.2 | 14.8 |
| 8 | HKH-309 | 7.5 | 27.5 | 36.1 | 32.1 | - | - | 25 | 9.5 | - | - | 6.1 | - | - | 54.1 | 21.4 | 32.3 |
| 9 | HKH-310 | 33.7 | 28.1 | 33.6 | 15.4 | - | - | 7.9 | 7.3 | 0.1 | - | 12.5 | - | 5.9 | 89.3 | 39.4 | 56.1 |
| 10 | MALVIYA MAKKA-2 | 15.1 | 16.6 | 27.8 | 2.3 | - | 0.9 | 17.2 | 8.5 | - | - | - | - | 3.5 | 15 | 59.3 | 44.5 |
| 11 | HKH-311 | - | 36.9 | 34.4 | 26.1 | 4.3 | 2.5 | 70.7 | 19.8 | 13.7 | - | 16.3 | - | 6 | 133.9 | 57.2 | 82.9 |
| 12 | HKH-312 | 6.5 | 38.3 | 47.6 | 38.8 | - | - | 33.3 | 17.2 | - | - | 9.7 | - | 7.8 | 43.9 | 36.6 | 39 |
| 13 | HKH-313 | 17.8 | 13.2 | 50.7 | 4.2 | - | 29 | 17.5 | 10.9 | - | - | 35.3 | - | 8 | 88 | 24.5 | 45.7 |
| 14 | EH-1974 | 14.8 | 7.9 | 34.6 | 54.9 | - | 11.5 | 6.8 | 14.4 | - | 26.1 | 21 | 11.6 | 5.9 | 40.6 | 10.8 | 20.8 |
| 15 | EH-1986 | 32.5 | - | 51.5 | - | - | - | 31.1 | 6.6 | - | - | 11 | - | - | 20.5 | 46.9 | 38.1 |
| 16 | EH-2025 | 18.4 | 2.4 | 40.5 | 11.1 | - | 3.2 | 32 | 11.4 | 44.3 | - | 25.6 | 24.8 | 8.6 | 52.1 | 20.6 | 31.1 |
| 17 | VEH-09-1 | 27.7 | - | 6.2 | 23.5 | - | - | 20.7 | 1.1 | - | - | - | - | - | 27.3 | 3.5 | 11.5 |
| 18 | VEH-09-2 | 13 | 27.1 | 95 | 65.1 | 18.1 | 18.1 | 24.7 | 31.8 | - | - | 138.2 | 2.4 | 25.7 | 65.1 | 65.6 | 65.4 |
| 19 | REH-2101 | 3.6 | 4.1 | 61 | 25.2 | - | 8.1 | 28.1 | 11.1 | - | 14.6 | 5.2 | - | 7.7 | 39.5 | 33 | 35.2 |
| 20 | REH-2102 | 11.6 | - | 9.8 | 27.7 | 15.9 | - | 56.6 | 13.2 | - | - | 55.6 | - | 12.2 | 45.9 | 80.9 | 69.2 |
| 21 | REH-2103 | 10.3 | 3.3 | 28 | 6.7 | 2.3 | 1.7 | 36 | 9.5 | - | - | 48.9 | - | 6.5 | 28.7 | 76.6 | 60.6 |
| 22 | JH-31314 | 8.4 | 13.8 | 71.4 | 11.3 | 14.2 | 6.7 | - | 14.6 | - | 16.2 | 6.6 | - | 12.3 | 11.6 | 82.6 | 58.9 |

TABLE No. 2 (Cont..)

| | | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | | | | | | | | | | |
|----|------------------|---|------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|-------|
| S1 | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG | ZN 4 | UDAI | BANS | CHHI | ZN 5 | OV'L | ZN 1 | ZN 5 | OV'L |
| No | PEDIGREE | | | | | | | POCB | MEAN | | | | MEAN | MEAN | UDHA | GODH | MEAN |
| 23 | JH-31285 | 33.8 | - | 91.1 | 4.5 | 5.9 | - | 30.1 | 15.8 | - | - | 78.1 | 11 | 22 | 29.8 | 35.9 | 33.8 |
| 24 | JH-31336 | - | 32.3 | 65.6 | - | - | - | 36.7 | 7.5 | - | - | 3.1 | - | 3.6 | 89.9 | 58 | 68.7 |
| 25 | JH-31292 | 29.1 | 22.7 | 71.9 | 36.2 | 20.2 | 39.8 | 88.8 | 39.3 | - | 18 | 155.1 | 31.9 | 31 | 64.6 | 54.5 | 57.9 |
| 26 | JH-31288 | 24.3 | 24 | 81.2 | 1.2 | - | 0.5 | 43.2 | 14.5 | - | 3 | 43.1 | 8.9 | 10.6 | 51.5 | 34.3 | 40.1 |
| 27 | AH-97001 | - | - | 82.5 | 16.5 | - | - | 27.8 | 2.8 | - | - | - | - | - | 45.6 | 36.4 | 39.4 |
| 28 | HKI1105xHKI163-1 | 6.6 | - | 79.1 | 0.9 | - | 4.7 | 50.8 | 7.2 | - | - | - | - | - | 38.1 | 16.4 | 23.7 |
| 29 | BML7xHKI163-1 | 4.7 | - | 88.6 | 18 | - | 10.7 | - | 8.2 | - | - | 45.8 | - | 6.6 | 27.4 | 62 | 50.4 |
| 30 | HKI1128xHKI163-1 | 54.5 | - | - | 7 | - | 0.6 | 22.9 | 1.9 | - | - | 29.9 | - | - | 9 | 25 | 19.7 |
| 31 | KMH-218 | 30.1 | - | 35.1 | 37.3 | 44.5 | 41.1 | 69.8 | 33.9 | 4.1 | 2.9 | 57.4 | 14.7 | 30.1 | 67.8 | 83.8 | 78.4 |
| 32 | KMH-3426 | 14.9 | 8.7 | 109.5 | 30.9 | 23.9 | 31.6 | 45 | 32.7 | 11.6 | - | 90.7 | 20.8 | 32.1 | 77.4 | 143.8 | 121.6 |
| 33 | LAXMI306 | 2.5 | - | 57.1 | 8.4 | - | 3 | 60.9 | 9.6 | - | - | 0.2 | - | 1.4 | 20.9 | 1.5 | 8 |
| 34 | MUKHYA-108 | 7.2 | - | 66.5 | 3.8 | 4.8 | 37 | 55.9 | 21.5 | - | - | 64.8 | 3.8 | 29.7 | 43.3 | 75.4 | 64.6 |
| 35 | SARPUNCH-171 | - | - | 37.9 | 15.7 | 19.8 | 17.5 | 39.1 | 15.7 | - | - | 12.3 | - | 13.2 | 70.8 | 38.3 | 49.2 |
| 36 | KDMH-017 | 31.6 | 6.3 | 58.2 | 74.2 | 36.7 | 28.6 | 38.4 | 36.1 | - | 19.1 | 41.4 | 6.3 | 27.8 | 56.5 | 131.5 | 106.4 |
| 37 | NMH-803 | - | 48.4 | 83.1 | 9.9 | 13.3 | 43.3 | 51.1 | 29.1 | 13.4 | 11 | 62 | 22.6 | 23.7 | 71.5 | 60.1 | 63.9 |
| 38 | X8B557 | 33.7 | 0.2 | 85.1 | 95.4 | 67.9 | 65.8 | 96.7 | 60.3 | - | - | 63.2 | 1.4 | 43.1 | 80.5 | 74.4 | 76.4 |
| 39 | X8B691 | 49 | 23.3 | 0.5 | 94.8 | 31.9 | 40.1 | 78.5 | 43.8 | 24.6 | - | 95.6 | 19.2 | 34.2 | 50.5 | 76.4 | 67.7 |
| 40 | MCH-41 | 36 | 2.1 | 85.7 | 27.1 | 56.3 | 29.5 | 18 | 35.1 | - | 35.7 | 35.4 | 2.1 | 23.6 | 94.1 | 80.9 | 85.3 |
| 41 | MCH-42 | 43.1 | 36.9 | 20.8 | 49.2 | 37.1 | 59.8 | 41.7 | 43.3 | 6.1 | 25.6 | 146.4 | 41.6 | 35.1 | 78.1 | 82.9 | 81.3 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | - | - | 31.3 | 1.7 | - | - | 25.1 | - | - | - | - | - | - | 41.3 | 14.3 | 23.3 |
| 43 | BIO-9637 | 6.6 | 2.7 | 62.4 | 56.5 | 13.8 | 21 | 84.5 | 29 | - | - | 69.5 | 0.2 | 19 | 48.1 | 60.4 | 56.3 |
| 44 | HM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | Zone Mean | |
|-------|-----------------|-------------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|-----------|------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | | AMBI |
| 1 | PLM-21 | 60.3 | 57.3 | 58.8 | 53.0 | 46.3 | 50.0 | 51.0 | 56.0 | 51.3 | 52.0 | 54.0 | 46.0 | 53.0 | 48.0 | 46.7 | 49.9 |
| 2 | L-183 | 60.0 | 53.3 | 56.7 | 52.0 | 47.7 | 50.3 | 51.7 | 56.0 | 51.5 | 51.3 | 53.0 | 47.0 | 49.3 | 49.3 | 48.0 | 49.7 |
| 3 | EHL-162308 | 54.7 | 56.0 | 55.3 | 53.0 | 46.7 | 49.3 | 51.0 | 59.0 | 51.8 | 50.3 | 52.7 | 45.0 | 50.3 | 48.7 | 49.0 | 49.3 |
| 4 | PMSY-3 | 59.0 | 57.0 | 58.0 | 55.0 | 49.7 | 50.7 | 55.0 | 58.0 | 53.7 | 53.3 | 55.0 | 49.7 | 52.3 | 51.0 | 47.7 | 51.5 |
| 5 | PMSW-4 | 59.3 | 54.3 | 56.8 | 53.0 | 47.7 | 48.7 | 52.3 | 56.7 | 51.7 | 50.7 | 52.3 | 46.7 | 51.0 | 49.7 | 47.7 | 49.7 |
| 6 | PMSQ-5 | 54.3 | 54.7 | 54.5 | 53.7 | 46.0 | 51.0 | 55.0 | 60.7 | 53.3 | 51.7 | 54.7 | 48.7 | 52.3 | 50.0 | 50.7 | 51.3 |
| 7 | HKH-308 | 52.7 | 51.3 | 52.0 | 54.7 | 48.3 | 48.3 | 51.0 | 54.0 | 51.3 | 51.0 | 52.3 | 47.0 | 51.3 | 50.3 | 49.0 | 50.2 |
| 8 | HKH-309 | 55.0 | 54.3 | 54.7 | 57.3 | 46.3 | 49.3 | 53.0 | 58.3 | 52.9 | 50.7 | 54.0 | 47.7 | 51.7 | 49.3 | 52.0 | 50.9 |
| 9 | HKH-310 | 52.7 | 54.7 | 53.7 | 54.0 | 47.0 | 49.3 | 50.7 | 55.3 | 51.3 | 51.0 | 50.0 | 45.3 | 48.7 | 49.3 | 51.0 | 49.2 |
| 10 | MALVIYA MAKKA-2 | 57.0 | 54.3 | 55.7 | 52.0 | 46.3 | 48.0 | 51.7 | 57.0 | 51.0 | 50.7 | 52.7 | 45.7 | 48.0 | 49.0 | 47.0 | 48.8 |
| 11 | HKH-311 | 58.7 | 54.3 | 56.5 | 52.7 | 45.7 | 49.3 | 51.7 | 56.3 | 51.1 | 50.7 | 51.0 | 45.3 | 51.0 | 50.3 | 49.0 | 49.6 |
| 12 | HKH-312 | 53.0 | 55.7 | 54.3 | 53.7 | 45.7 | 47.3 | 51.3 | 57.0 | 51.0 | 52.0 | 54.3 | 46.0 | 49.3 | 50.0 | 51.0 | 50.4 |
| 13 | HKH-313 | 60.0 | 61.3 | 60.7 | 52.7 | 45.7 | 49.0 | 51.3 | 55.7 | 50.9 | 51.0 | 53.7 | 47.3 | 50.7 | 52.0 | 52.3 | 51.2 |
| 14 | EH-1974 | 52.3 | 53.7 | 53.0 | 53.7 | 45.3 | 47.0 | 50.7 | 57.0 | 50.7 | 51.3 | 52.3 | 46.0 | 49.0 | 50.0 | 47.0 | 49.3 |
| 15 | EH-1986 | 60.0 | 55.7 | 57.8 | 54.0 | 46.0 | 48.3 | 52.3 | 56.0 | 51.3 | 51.3 | 54.7 | 46.7 | 50.0 | 50.7 | 48.3 | 50.3 |
| 16 | EH-2025 | 59.3 | 56.0 | 57.7 | 54.3 | 46.0 | 51.7 | 53.3 | 56.3 | 52.3 | 53.0 | 56.0 | 50.3 | 53.0 | 49.3 | 48.7 | 51.7 |
| 17 | VEH-09-1 | 52.7 | 55.7 | 54.2 | 54.3 | 46.0 | 51.0 | 54.0 | 55.3 | 52.1 | 51.7 | 54.0 | 48.7 | 51.3 | 52.0 | 49.3 | 51.2 |
| 18 | VEH-09-2 | 67.7 | 57.3 | 62.5 | 55.7 | 45.7 | 50.3 | 56.0 | 57.7 | 53.1 | 54.7 | 57.0 | 52.3 | 54.7 | 52.7 | 53.0 | 54.1 |
| 19 | REH-2101 | 63.7 | 57.3 | 60.5 | 56.3 | 46.7 | 50.3 | 55.0 | 58.0 | 53.3 | 53.3 | 56.0 | 48.0 | 51.3 | 52.0 | 53.7 | 52.4 |
| 20 | REH-2102 | 60.3 | 56.7 | 58.5 | 56.7 | 47.3 | 50.3 | 55.3 | 58.3 | 53.6 | 52.0 | 58.3 | 54.7 | 53.7 | 52.7 | 54.0 | 54.2 |
| 21 | REH-2103 | 65.7 | 61.0 | 63.3 | 56.7 | 55.3 | 51.7 | 55.7 | 59.0 | 55.7 | 54.3 | 58.3 | 53.0 | 56.0 | 52.3 | 51.7 | 54.3 |
| 22 | JH-31314 | 55.7 | 54.3 | 55.0 | 50.3 | 46.3 | 48.0 | 51.3 | 58.0 | 50.8 | 51.0 | 51.0 | 46.0 | 47.7 | 47.7 | 47.0 | 48.4 |
| 23 | JH-31285 | 56.0 | 54.7 | 55.3 | 52.0 | 47.7 | 47.3 | 52.3 | 55.0 | 50.9 | 51.0 | 54.0 | 45.7 | 49.7 | 50.7 | 48.3 | 49.9 |
| 24 | JH-31336 | 54.3 | 60.7 | 57.5 | 51.3 | 46.0 | 47.0 | 51.3 | 56.7 | 50.5 | 50.7 | 53.7 | 44.3 | 49.0 | 49.7 | 48.7 | 49.3 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | Zone Mean | |
|--------|------------------|-------------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|-----------|------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | | AMBI |
| 25 | JH-31292 | 59.0 | 59.0 | 59.0 | 58.0 | 46.3 | 51.3 | 54.7 | 55.3 | 53.1 | 51.3 | 55.3 | 48.7 | 54.0 | 52.0 | 48.0 | 51.6 |
| 26 | JH-31288 | 54.3 | 54.0 | 54.2 | 51.0 | 46.3 | 46.3 | 50.7 | 55.7 | 50.0 | 50.3 | 51.7 | 45.7 | 49.7 | 48.7 | 48.7 | 49.1 |
| 27 | AH-97001 | 52.7 | 53.0 | 52.8 | 54.0 | 46.0 | 50.7 | 53.0 | 57.0 | 52.1 | 50.7 | 51.7 | 47.0 | 51.0 | 50.3 | 46.7 | 49.6 |
| 28 | HKI1105xHKI163-1 | 59.7 | 54.7 | 57.2 | 54.7 | 45.0 | 46.7 | 55.3 | 58.0 | 51.9 | 51.3 | 54.0 | 47.7 | 51.0 | 51.3 | 49.3 | 50.8 |
| 29 | BML7xHKI163-1 | 61.7 | 55.3 | 58.5 | 58.7 | 53.0 | 51.3 | 56.3 | 58.0 | 55.5 | 54.7 | 56.0 | 52.3 | 55.7 | 52.7 | 52.7 | 54.0 |
| 30 | HKI1128xHKI163-1 | 59.0 | 55.0 | 57.0 | 56.7 | 47.0 | 52.7 | 54.7 | 58.0 | 53.8 | 52.0 | 57.3 | 48.3 | 55.0 | 52.7 | 50.7 | 52.7 |
| 31 | KMH-218 | 61.7 | 57.7 | 59.7 | 56.3 | 46.0 | 50.0 | 55.7 | 57.0 | 53.0 | 54.3 | 56.7 | 52.0 | 55.3 | 51.3 | 52.0 | 53.6 |
| 32 | KMH-3426 | 61.0 | 60.0 | 60.5 | 55.0 | 46.0 | 50.7 | 51.0 | 55.7 | 51.7 | 52.0 | 55.3 | 50.0 | 53.0 | 50.3 | 52.3 | 52.2 |
| 33 | LAXMI306 | 59.7 | 53.3 | 56.5 | 52.3 | 45.7 | 48.3 | 51.0 | 58.0 | 51.1 | 51.3 | 53.3 | 46.0 | 50.0 | 50.0 | 46.7 | 49.6 |
| 34 | MUKHYA-108 | 58.7 | 55.0 | 56.8 | 56.0 | 46.0 | 51.3 | 56.0 | 58.7 | 53.6 | 52.0 | 56.0 | 49.7 | 52.0 | 51.0 | 52.0 | 52.1 |
| 35 | SARPUNCH-171 | 60.7 | 59.3 | 60.0 | 56.7 | 46.3 | 51.3 | 55.7 | 58.0 | 53.6 | 52.3 | 58.0 | 51.3 | 55.7 | 52.3 | 51.0 | 53.4 |
| 36 | KDMH-017 | 59.7 | 57.0 | 58.3 | 55.7 | 45.7 | 51.7 | 55.7 | 57.0 | 53.1 | 52.3 | 58.3 | 52.0 | 53.0 | 50.7 | 52.3 | 53.1 |
| 37 | NMH-803 | 54.0 | 56.7 | 55.3 | 54.0 | 47.7 | 51.0 | 54.7 | 54.3 | 52.3 | 51.0 | 55.0 | 51.7 | 50.3 | 50.7 | 48.3 | 51.2 |
| 38 | X8B557 | 64.0 | 60.3 | 62.2 | 53.7 | 46.7 | 51.0 | 56.0 | 59.0 | 53.3 | 52.7 | 56.3 | 51.3 | 54.0 | 53.3 | 53.0 | 53.4 |
| 39 | X8B691 | 59.0 | 57.3 | 58.2 | 55.3 | 46.0 | 49.3 | 54.7 | 60.0 | 53.1 | 51.0 | 54.3 | 49.7 | 52.0 | 50.7 | 51.0 | 51.4 |
| 40 | MCH-41 | 61.3 | 57.7 | 59.5 | 58.7 | 51.3 | 52.7 | 56.3 | 58.7 | 55.5 | 53.7 | 59.3 | 53.7 | 55.0 | 54.7 | 53.0 | 54.9 |
| 41 | MCH-42 | 61.3 | 58.0 | 59.7 | 58.0 | 50.7 | 51.0 | 56.0 | 55.0 | 54.1 | 54.0 | 57.7 | 53.3 | 56.0 | 51.7 | 51.7 | 54.1 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 54.3 | 54.3 | 54.3 | 51.0 | 46.0 | 50.0 | 51.3 | 58.3 | 51.3 | 51.3 | 53.7 | 46.3 | 48.7 | 49.3 | 47.0 | 49.4 |
| 43 | BIO-9637 | 59.0 | 57.3 | 58.2 | 54.7 | 46.0 | 51.7 | 53.7 | 57.7 | 52.7 | 51.7 | 55.7 | 49.0 | 51.3 | 49.7 | 47.7 | 50.8 |
| 44 | HM-9 | 50.7 | 54.7 | 52.7 | 55.7 | 46.0 | 50.0 | 50.7 | 59.0 | 52.3 | 53.3 | 54.0 | 48.0 | 52.3 | 51.3 | 49.0 | 51.3 |
| | Loc. Mean | 58.1 | 56.2 | 57.1 | 54.5 | 47.0 | 49.8 | 53.3 | 57.2 | 52.4 | 51.9 | 54.7 | 48.6 | 51.8 | 50.7 | 49.9 | 51.2 |
| | C.D. (5%) | 1.70 | 1.50 | 4.70 | 3.00 | 3.20 | 2.20 | 1.80 | 2.80 | 1.80 | 1.50 | 3.10 | 2.00 | 1.50 | 2.50 | 1.20 | 1.40 |
| | C.D. (1%) | 2.30 | 2.00 | 6.20 | 4.00 | 4.20 | 2.90 | 2.40 | 3.80 | 2.40 | 2.00 | 4.10 | 2.70 | 2.00 | 3.30 | 1.60 | 1.80 |
| | C.V. (%) | 1.81 | 1.64 | 4.04 | 3.41 | 4.13 | 2.71 | 2.08 | 3.05 | 2.78 | 1.75 | 3.47 | 2.56 | 1.84 | 3.04 | 1.49 | 2.39 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 2 (Continued)

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

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|--------|------------------|-------------------------|------|------|------|------|------|------|------|------|-----------|-----------|-----------|------|------|-----------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | UDAI | BANS | CHHI | Zone Mean | | | | | |
| 25 | JH-31292 | 57.7 | 54.0 | 53.3 | 56.7 | 54.3 | 53.0 | 54.8 | 54.3 | 47.3 | 54.3 | 52.0 | 53.5 | 53.0 | 51.0 | 52.0 |
| 26 | JH-31288 | 54.0 | 50.0 | 46.7 | 51.0 | 52.0 | 49.7 | 50.6 | 51.7 | 45.7 | 52.0 | 49.8 | 50.3 | 50.7 | 46.7 | 48.7 |
| 27 | AH-97001 | 54.7 | 49.0 | 48.7 | 56.3 | 50.7 | 48.7 | 51.3 | 51.3 | 46.0 | 52.3 | 49.9 | 51.0 | 50.3 | 47.0 | 48.7 |
| 28 | HKI1105xHKI163-1 | 56.3 | 50.7 | 49.3 | 54.0 | 52.3 | 48.7 | 51.9 | 52.0 | 50.3 | 53.7 | 52.0 | 52.1 | 50.0 | 47.3 | 48.7 |
| 29 | BML7xHKI163-1 | 57.7 | 55.3 | 51.7 | 58.3 | 55.7 | 52.7 | 55.2 | 55.3 | 50.7 | 55.3 | 53.8 | 55.0 | 51.0 | 52.0 | 51.5 |
| 30 | HKI1128xHKI163-1 | 57.0 | 54.0 | 51.3 | 58.3 | 54.3 | 52.7 | 54.6 | 54.3 | 50.7 | 54.0 | 53.0 | 53.9 | 55.0 | 49.7 | 52.3 |
| 31 | KMH-218 | 56.7 | 54.3 | 53.7 | 55.0 | 53.7 | 52.3 | 54.3 | 55.0 | 49.0 | 54.0 | 52.7 | 54.1 | 53.7 | 49.7 | 51.7 |
| 32 | KMH-3426 | 55.3 | 52.0 | 49.7 | 55.3 | 52.3 | 49.7 | 52.4 | 52.0 | 47.3 | 54.0 | 51.1 | 52.7 | 53.7 | 48.3 | 51.0 |
| 33 | LAXMI306 | 54.7 | 49.0 | 47.7 | 53.3 | 50.7 | 48.7 | 50.7 | 51.0 | 46.3 | 52.0 | 49.8 | 50.9 | 51.7 | 47.7 | 49.7 |
| 34 | MUKHYA-108 | 57.3 | 53.7 | 52.0 | 60.7 | 53.0 | 53.3 | 55.0 | 52.7 | 48.7 | 55.0 | 52.1 | 53.7 | 52.3 | 49.7 | 51.0 |
| 35 | SARPUNCH-171 | 56.3 | 53.7 | 53.7 | 58.0 | 54.0 | 50.3 | 54.3 | 53.3 | 51.0 | 54.3 | 52.9 | 54.2 | 54.7 | 50.7 | 52.7 |
| 36 | KDMH-017 | 56.7 | 54.0 | 50.0 | 55.0 | 53.7 | 53.7 | 53.8 | 52.3 | 44.3 | 54.0 | 50.2 | 53.4 | 54.0 | 51.3 | 52.7 |
| 37 | NMH-803 | 55.0 | 51.7 | 50.0 | 54.7 | 53.3 | 51.7 | 52.7 | 51.3 | 47.3 | 52.3 | 50.3 | 52.1 | 54.0 | 49.3 | 51.7 |
| 38 | X8B557 | 56.0 | 54.0 | 50.7 | 56.3 | 55.3 | 53.7 | 54.3 | 56.3 | 48.3 | 57.0 | 53.9 | 54.5 | 51.7 | 51.3 | 51.5 |
| 39 | X8B691 | 56.3 | 53.3 | 51.7 | 54.3 | 52.7 | 52.0 | 53.4 | 51.3 | 45.3 | 55.0 | 50.6 | 52.8 | 52.7 | 49.3 | 51.0 |
| 40 | MCH-41 | 56.3 | 56.0 | 55.0 | 58.3 | 54.7 | 56.0 | 56.1 | 55.3 | 51.7 | 57.0 | 54.7 | 55.7 | 54.0 | 52.7 | 53.3 |
| 41 | MCH-42 | 57.7 | 55.0 | 48.3 | 53.3 | 53.7 | 53.3 | 53.6 | 54.0 | 48.0 | 55.7 | 52.6 | 54.2 | 55.0 | 52.0 | 53.5 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 55.0 | 49.7 | 55.3 | 50.7 | 50.7 | 46.3 | 51.3 | 51.3 | 46.7 | 53.3 | 50.4 | 50.9 | 52.7 | 47.7 | 50.2 |
| 43 | BIO-9637 | 53.3 | 51.7 | 50.7 | 53.0 | 50.7 | 48.7 | 51.3 | 51.3 | 49.0 | 51.7 | 50.7 | 52.0 | 49.7 | 48.0 | 48.8 |
| 44 | HM-9 | 56.0 | 50.3 | 50.7 | 55.0 | 52.3 | 48.0 | 52.1 | 51.3 | 47.0 | 53.3 | 50.6 | 51.8 | 50.7 | 49.3 | 50.0 |
| | Loc. Mean | 55.4 | 52.1 | 50.2 | 54.5 | 52.5 | 50.3 | 52.5 | 52.4 | 48.4 | 53.5 | 51.4 | 52.4 | 51.7 | 48.9 | 50.3 |
| | C.D. (5%) | 1.80 | 1.90 | 2.20 | 5.80 | 2.10 | 0.90 | 1.60 | 1.30 | 1.50 | 1.40 | 2.00 | 0.90 | 4.21 | 1.61 | 2.09 |
| | C.D. (1%) | 2.40 | 2.50 | 2.90 | 7.70 | 2.80 | 1.20 | 2.10 | 1.70 | 2.00 | 1.80 | 2.60 | 1.20 | | | |
| | C.V. (%) | 2.05 | 2.22 | 2.72 | 6.59 | 2.49 | 1.13 | 2.68 | 1.48 | 1.89 | 1.58 | 2.38 | 2.88 | 5.01 | 2.03 | 2.06 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 |

Table No. 2 (Continued)

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

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | |
|--------|------------------|---------------------|------|-----------|-------|------|------|------|------|-----------|------|------|------|------|------|------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI |
| 25 | JH-31292 | 61.7 | 62.7 | 62.2 | 60.0 | 48.3 | 52.3 | 58.0 | 59.7 | 55.7 | 53.3 | 56.0 | 51.0 | 58.0 | 56.0 | 51.0 |
| 26 | JH-31288 | 56.3 | 57.7 | 57.0 | 53.7 | 48.3 | 47.3 | 52.3 | 60.3 | 52.4 | 52.3 | 52.7 | 47.7 | 53.3 | 53.0 | 51.3 |
| 27 | AH-97001 | 55.0 | 56.3 | 55.7 | 38.7 | 48.3 | 51.7 | 55.3 | 62.7 | 51.3 | 52.7 | 52.7 | 49.7 | 55.3 | 54.3 | 50.3 |
| 28 | HKI1105xHKI163-1 | 62.3 | 58.3 | 60.3 | 58.0 | 47.3 | 47.7 | 58.7 | 62.7 | 54.9 | 53.7 | 54.7 | 51.0 | 54.3 | 55.7 | 52.3 |
| 29 | BML7xHKI163-1 | 64.0 | 58.7 | 61.3 | 61.3 | 55.0 | 52.3 | 60.0 | 62.7 | 58.3 | 56.7 | 57.7 | 55.7 | 61.7 | 56.7 | 55.0 |
| 30 | HKI1128xHKI163-1 | 62.0 | 58.0 | 60.0 | 60.0 | 49.0 | 53.7 | 57.7 | 62.3 | 56.5 | 54.7 | 59.0 | 52.0 | 60.0 | 56.7 | 55.0 |
| 31 | KMH-218 | 64.0 | 60.3 | 62.2 | 59.7 | 48.0 | 51.0 | 59.0 | 61.3 | 55.8 | 56.3 | 58.0 | 54.7 | 59.3 | 55.3 | 54.3 |
| 32 | KMH-3426 | 63.7 | 63.3 | 63.5 | 57.7 | 48.3 | 51.7 | 53.3 | 59.7 | 54.1 | 54.0 | 56.7 | 53.3 | 56.3 | 54.3 | 55.0 |
| 33 | LAXMI306 | 62.0 | 57.0 | 59.5 | 54.7 | 47.7 | 49.3 | 54.3 | 62.3 | 53.7 | 53.3 | 54.3 | 48.3 | 55.3 | 54.3 | 49.0 |
| 34 | MUKHYA-108 | 61.3 | 58.3 | 59.8 | 58.0 | 48.0 | 52.3 | 59.0 | 64.0 | 56.3 | 54.3 | 56.7 | 52.0 | 56.0 | 55.7 | 55.0 |
| 35 | SARPUNCH-171 | 63.3 | 63.0 | 63.2 | 59.0 | 48.3 | 52.3 | 59.0 | 62.7 | 56.3 | 54.7 | 59.0 | 54.0 | 61.3 | 56.3 | 54.7 |
| 36 | KDMH-017 | 61.7 | 60.7 | 61.2 | 59.0 | 48.0 | 52.7 | 58.7 | 62.3 | 56.1 | 54.3 | 59.3 | 54.3 | 58.0 | 55.0 | 55.0 |
| 37 | NMH-803 | 56.3 | 60.7 | 58.5 | 57.0 | 50.0 | 52.0 | 58.3 | 57.7 | 55.0 | 53.7 | 56.3 | 52.7 | 54.7 | 54.3 | 51.0 |
| 38 | X8B557 | 66.0 | 63.7 | 64.8 | 57.0 | 48.7 | 52.0 | 59.3 | 63.0 | 56.0 | 54.7 | 57.3 | 54.7 | 57.7 | 57.3 | 56.0 |
| 39 | X8B691 | 61.0 | 61.0 | 61.0 | 57.7 | 48.0 | 50.3 | 58.7 | 64.0 | 55.7 | 53.0 | 55.3 | 52.3 | 55.3 | 55.0 | 53.3 |
| 40 | MCH-41 | 63.7 | 61.0 | 62.3 | 61.3 | 53.3 | 53.7 | 59.7 | 62.7 | 58.1 | 55.7 | 61.0 | 55.0 | 59.3 | 58.7 | 56.0 |
| 41 | MCH-42 | 63.7 | 61.3 | 62.5 | 60.0 | 52.7 | 52.0 | 59.7 | 59.0 | 56.7 | 56.0 | 58.7 | 55.7 | 59.7 | 55.7 | 54.3 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 56.7 | 58.3 | 57.5 | 54.0 | 48.0 | 51.0 | 55.0 | 62.0 | 54.0 | 53.3 | 54.3 | 48.7 | 53.3 | 53.7 | 49.3 |
| 43 | BIO-9637 | 61.3 | 60.3 | 60.8 | 58.0 | 48.0 | 52.7 | 57.0 | 62.0 | 55.5 | 53.7 | 57.0 | 52.0 | 55.7 | 54.0 | 50.7 |
| 44 | HM-9 | 52.7 | 59.3 | 56.0 | 58.3 | 48.0 | 51.0 | 54.0 | 63.0 | 54.9 | 55.3 | 54.7 | 51.0 | 55.7 | 55.0 | 52.0 |
| | Loc. Mean | 60.4 | 59.7 | 60.0 | 56.8 | 49.0 | 50.8 | 56.5 | 61.6 | 55.0 | 54.0 | 55.7 | 51.2 | 56.1 | 54.8 | 52.7 |
| | C.D. (5%) | 1.80 | 1.80 | 4.90 | 7.70 | 3.20 | 2.20 | 2.50 | 2.60 | 2.50 | 1.30 | 3.30 | 2.40 | 1.40 | 2.50 | 1.30 |
| | C.D. (1%) | 2.40 | 2.30 | 6.60 | 10.20 | 4.20 | 2.90 | 3.30 | 3.40 | 3.30 | 1.80 | 4.30 | 3.10 | 1.90 | 3.30 | 1.70 |
| | C.V. (%) | 1.84 | 1.82 | 4.07 | 8.35 | 3.96 | 2.65 | 2.71 | 2.60 | 3.63 | 1.52 | 3.63 | 2.85 | 1.57 | 2.81 | 1.52 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 50% SILKING | | | | | | Zone | | | | OV'L | | OV'L | | |
|-------|-----------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | UDHA | GODH | Mean |
| 1 | PLM-21 | 55.3 | 52.0 | 50.7 | 56.3 | 54.0 | 50.7 | 53.2 | 52.7 | 51.3 | 52.7 | 52.2 | 53.9 | 54.7 | 49.0 | 51.8 |
| 2 | L-183 | 56.0 | 53.7 | 49.3 | 57.3 | 52.7 | 50.7 | 53.3 | 52.3 | 52.0 | 53.3 | 52.6 | 54.0 | 54.7 | 49.3 | 52.0 |
| 3 | EHL-162308 | 54.3 | 52.3 | 49.7 | 56.3 | 52.7 | 50.3 | 52.6 | 52.3 | 48.0 | 52.0 | 50.8 | 53.1 | 54.0 | 48.7 | 51.3 |
| 4 | PMSY-3 | 57.0 | 55.3 | 52.7 | 53.7 | 54.7 | 53.7 | 54.5 | 53.3 | 53.7 | 54.7 | 53.9 | 55.4 | 54.7 | 49.7 | 52.2 |
| 5 | PMSW-4 | 55.7 | 53.0 | 49.3 | 55.7 | 52.3 | 49.3 | 52.6 | 52.3 | 52.3 | 55.3 | 53.3 | 53.7 | 55.0 | 48.0 | 51.5 |
| 6 | PMSQ-5 | 57.7 | 55.7 | 52.0 | 57.3 | 54.0 | 52.0 | 54.8 | 52.7 | 51.3 | 55.7 | 53.2 | 54.9 | 57.0 | 48.7 | 52.8 |
| 7 | HKH-308 | 56.3 | 53.7 | 51.7 | 52.7 | 53.0 | 51.3 | 53.1 | 52.3 | 49.3 | 52.0 | 51.2 | 53.2 | 53.3 | 48.0 | 50.7 |
| 8 | HKH-309 | 55.7 | 54.3 | 52.0 | 53.3 | 53.3 | 51.7 | 53.4 | 52.3 | 50.3 | 54.3 | 52.3 | 54.0 | 54.3 | 49.7 | 52.0 |
| 9 | HKH-310 | 54.0 | 52.7 | 51.7 | 55.7 | 53.7 | 52.0 | 53.3 | 53.0 | 63.3 | 53.0 | 56.4 | 53.9 | 54.0 | 49.3 | 51.7 |
| 10 | MALVIYA MAKKA-2 | 54.7 | 52.7 | 50.7 | 51.7 | 48.3 | 50.0 | 51.3 | 52.7 | 52.0 | 52.3 | 52.3 | 53.0 | 54.0 | 49.0 | 51.5 |
| 11 | HKH-311 | 55.7 | 54.0 | 51.0 | 51.3 | 54.7 | 51.0 | 52.9 | 52.3 | 53.7 | 54.7 | 53.6 | 53.6 | 54.0 | 48.7 | 51.3 |
| 12 | HKH-312 | 54.7 | 54.3 | 51.0 | 51.0 | 52.0 | 52.0 | 52.5 | 52.0 | 52.3 | 53.0 | 52.4 | 53.4 | 53.0 | 48.7 | 50.8 |
| 13 | HKH-313 | 57.0 | 55.0 | 50.3 | 58.0 | 55.3 | 50.3 | 54.3 | 54.3 | 52.0 | 54.3 | 53.6 | 54.7 | 55.3 | 51.0 | 53.2 |
| 14 | EH-1974 | 53.7 | 49.0 | 50.3 | 49.3 | 51.3 | 48.7 | 50.4 | 52.0 | 51.7 | 51.7 | 51.8 | 52.0 | 53.3 | 47.0 | 50.2 |
| 15 | EH-1986 | 58.3 | 54.3 | 51.0 | 54.3 | 54.7 | 52.3 | 54.2 | 52.0 | 53.3 | 54.3 | 53.2 | 54.4 | 54.7 | 50.0 | 52.3 |
| 16 | EH-2025 | 56.3 | 55.0 | 51.3 | 56.0 | 54.3 | 50.7 | 53.9 | 51.3 | 50.0 | 54.0 | 51.8 | 54.7 | 55.7 | 49.3 | 52.5 |
| 17 | VEH-09-1 | 56.3 | 54.0 | 52.0 | 54.0 | 54.7 | 52.0 | 53.8 | 56.0 | 54.0 | 55.0 | 55.0 | 54.6 | 57.0 | 52.3 | 54.7 |
| 18 | VEH-09-2 | 57.3 | 57.3 | 55.3 | 57.0 | 57.0 | 54.3 | 56.4 | 56.7 | 53.3 | 57.0 | 55.7 | 57.0 | 56.7 | 53.7 | 55.2 |
| 19 | REH-2101 | 54.7 | 56.7 | 55.3 | 55.3 | 55.7 | 54.7 | 55.4 | 59.0 | 51.7 | 58.3 | 56.3 | 56.4 | 55.7 | 52.0 | 53.8 |
| 20 | REH-2102 | 58.0 | 55.3 | 57.3 | 58.0 | 56.3 | 50.3 | 55.9 | 57.0 | 52.0 | 57.0 | 55.3 | 56.8 | 57.7 | 52.0 | 54.8 |
| 21 | REH-2103 | 58.3 | 56.7 | 53.0 | 59.3 | 53.7 | 55.0 | 56.0 | 58.7 | 53.7 | 57.7 | 56.7 | 57.9 | 57.3 | 51.3 | 54.3 |
| 22 | JH-31314 | 54.0 | 52.3 | 50.0 | 51.7 | 52.7 | 50.0 | 51.8 | 52.3 | 49.3 | 52.0 | 51.2 | 52.4 | 56.0 | 49.0 | 52.5 |
| 23 | JH-31285 | 55.7 | 50.7 | 50.3 | 52.7 | 53.3 | 50.0 | 52.1 | 53.3 | 51.0 | 52.3 | 52.2 | 53.2 | 55.3 | 49.3 | 52.3 |
| 24 | JH-31336 | 55.3 | 49.7 | 49.3 | 56.7 | 52.0 | 50.0 | 52.2 | 52.0 | 50.3 | 51.3 | 51.2 | 52.9 | 54.0 | 49.7 | 51.8 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | Zone | | OV'L | | |
|--------|------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | UDHA | GODH | Mean |
| 25 | JH-31292 | 58.7 | 55.7 | 55.3 | 57.7 | 56.0 | 55.3 | 56.4 | 56.7 | 50.3 | 54.7 | 53.9 | 55.8 | 56.3 | 52.3 | 54.3 |
| 26 | JH-31288 | 55.3 | 52.0 | 48.0 | 52.0 | 53.3 | 51.3 | 52.0 | 53.0 | 48.7 | 52.0 | 51.2 | 52.4 | 56.0 | 48.0 | 52.0 |
| 27 | AH-97001 | 56.3 | 51.7 | 50.3 | 57.3 | 52.7 | 50.3 | 53.1 | 53.0 | 49.0 | 54.0 | 52.0 | 52.6 | 54.3 | 48.3 | 51.3 |
| 28 | HKI1105xHKI163-1 | 57.3 | 53.3 | 51.3 | 55.0 | 53.7 | 50.7 | 53.6 | 54.3 | 53.3 | 55.7 | 54.4 | 54.6 | 54.3 | 48.7 | 51.5 |
| 29 | BML7xHKI163-1 | 58.7 | 57.3 | 53.7 | 59.3 | 57.3 | 54.7 | 56.8 | 57.3 | 53.7 | 56.3 | 55.8 | 57.5 | 56.0 | 53.3 | 54.7 |
| 30 | HKI1128xHKI163-1 | 58.0 | 55.3 | 54.0 | 59.3 | 56.0 | 54.7 | 56.2 | 55.7 | 53.7 | 56.0 | 55.1 | 56.5 | 58.7 | 52.0 | 55.3 |
| 31 | KMH-218 | 58.0 | 56.7 | 56.3 | 56.0 | 55.0 | 54.3 | 56.1 | 58.0 | 52.0 | 55.3 | 55.1 | 56.5 | 56.7 | 51.3 | 54.0 |
| 32 | KMH-3426 | 57.0 | 54.7 | 51.7 | 56.3 | 53.7 | 51.7 | 54.2 | 54.3 | 51.0 | 54.7 | 53.3 | 55.1 | 57.0 | 50.0 | 53.5 |
| 33 | LAXMI306 | 55.7 | 51.3 | 51.3 | 54.3 | 53.0 | 50.3 | 52.7 | 52.3 | 49.3 | 52.3 | 51.3 | 53.3 | 55.3 | 48.3 | 51.8 |
| 34 | MUKHYA-108 | 58.7 | 55.0 | 54.3 | 61.7 | 55.3 | 55.3 | 56.7 | 54.7 | 52.0 | 55.7 | 54.1 | 56.1 | 55.7 | 51.0 | 53.3 |
| 35 | SARPUNCH-171 | 57.0 | 55.7 | 56.0 | 59.0 | 55.7 | 52.3 | 55.9 | 56.0 | 54.0 | 56.3 | 55.4 | 56.8 | 58.0 | 52.3 | 55.2 |
| 36 | KDMH-017 | 58.0 | 55.3 | 52.0 | 56.0 | 55.0 | 54.7 | 55.2 | 55.7 | 48.0 | 56.0 | 53.2 | 55.9 | 57.7 | 52.7 | 55.2 |
| 37 | NMH-803 | 57.0 | 53.7 | 52.0 | 55.7 | 54.7 | 53.7 | 54.4 | 53.0 | 50.3 | 52.7 | 52.0 | 54.4 | 57.7 | 51.0 | 54.3 |
| 38 | X8B557 | 57.3 | 55.7 | 52.7 | 57.3 | 56.7 | 54.7 | 55.7 | 59.3 | 51.7 | 58.0 | 56.3 | 56.8 | 55.3 | 53.3 | 54.3 |
| 39 | X8B691 | 57.0 | 55.3 | 53.7 | 55.3 | 54.3 | 54.0 | 54.9 | 53.3 | 48.3 | 55.7 | 52.4 | 55.1 | 56.0 | 51.3 | 53.7 |
| 40 | MCH-41 | 57.3 | 58.0 | 57.3 | 59.3 | 56.3 | 58.0 | 57.7 | 58.0 | 54.7 | 58.3 | 57.0 | 58.1 | 57.7 | 54.0 | 55.8 |
| 41 | MCH-42 | 58.7 | 58.0 | 50.7 | 54.3 | 54.7 | 55.0 | 55.2 | 55.3 | 51.0 | 56.3 | 54.2 | 56.5 | 58.0 | 53.3 | 55.7 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 56.3 | 53.3 | 57.3 | 51.7 | 53.0 | 47.7 | 53.2 | 52.7 | 50.0 | 55.0 | 52.6 | 53.4 | 56.7 | 49.3 | 53.0 |
| 43 | BIO-9637 | 54.7 | 53.7 | 53.0 | 54.0 | 52.7 | 50.3 | 53.1 | 52.3 | 52.0 | 52.7 | 52.3 | 54.4 | 54.0 | 49.7 | 51.8 |
| 44 | HM-9 | 57.3 | 52.7 | 52.7 | 56.0 | 54.0 | 50.0 | 53.8 | 52.3 | 50.0 | 55.0 | 52.4 | 54.1 | 56.0 | 50.7 | 53.3 |
| | Loc. Mean | 56.5 | 54.2 | 52.3 | 55.5 | 54.1 | 52.1 | 54.1 | 54.1 | 51.7 | 54.6 | 53.5 | 54.8 | 55.7 | 50.3 | 53.0 |
| | C.D. (5%) | 1.80 | 1.40 | 2.30 | 5.80 | 2.50 | 0.90 | 1.60 | 1.30 | 4.40 | 1.70 | 2.80 | 1.00 | 3.34 | 1.72 | 1.91 |
| | C.D. (1%) | 2.40 | 1.90 | 3.00 | 7.60 | 3.20 | 1.10 | 2.10 | 1.70 | 5.80 | 2.30 | 3.80 | 1.30 | | | |
| | C.V. (%) | 1.96 | 1.64 | 2.68 | 6.41 | 2.79 | 1.01 | 2.62 | 1.46 | 5.25 | 1.92 | 3.28 | 3.11 | 3.70 | 2.11 | 1.79 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | Zone | | Zone | | | |
|-------|-----------------|----------------------|-------|-------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| | | BAJA | KANG | Mean | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean |
| 1 | PLM-21 | 107.7 | 95.7 | 101.7 | 85.3 | 80.0 | 81.0 | 102.3 | 90.3 | 87.8 | 81.3 | 88.3 | 87.3 | 92.3 | 94.5 | 85.7 | 88.3 |
| 2 | L-183 | 103.0 | 95.7 | 99.3 | 81.3 | 82.3 | 80.7 | 99.0 | 86.7 | 86.0 | 80.3 | 88.3 | 89.0 | 88.0 | 93.0 | 79.0 | 86.3 |
| 3 | EHL-162308 | 106.3 | 94.7 | 100.5 | 78.7 | 79.7 | 80.3 | 100.0 | 86.7 | 85.1 | 80.7 | 85.3 | 87.7 | 88.3 | 94.3 | 78.3 | 85.8 |
| 4 | PMSY-3 | 106.7 | 98.7 | 102.7 | 86.7 | 80.3 | 83.7 | 103.7 | 90.7 | 89.0 | 80.7 | 88.7 | 87.7 | 92.3 | 96.7 | 81.0 | 87.8 |
| 5 | PMSW-4 | 107.7 | 97.3 | 102.5 | 82.7 | 81.0 | 80.3 | 99.7 | 91.3 | 87.0 | 81.7 | 89.0 | 88.7 | 90.7 | 94.7 | 83.7 | 88.1 |
| 6 | PMSQ-5 | 108.3 | 98.0 | 103.2 | 81.7 | 79.3 | 84.0 | 99.3 | 88.3 | 86.5 | 81.0 | 90.3 | 88.7 | 91.0 | 94.7 | 81.0 | 87.8 |
| 7 | HKH-308 | 106.7 | 99.7 | 103.2 | 78.0 | 81.3 | 81.7 | 101.7 | 91.3 | 86.8 | 79.3 | 90.3 | 87.0 | 92.3 | 93.7 | 87.3 | 88.3 |
| 8 | HKH-309 | 106.3 | 95.7 | 101.0 | 88.7 | 76.7 | 82.0 | 101.0 | 86.7 | 87.0 | 80.3 | 91.3 | 88.0 | 90.0 | 93.3 | 87.7 | 88.4 |
| 9 | HKH-310 | 106.7 | 96.7 | 101.7 | 94.0 | 81.3 | 83.0 | 102.3 | 88.0 | 89.7 | 80.3 | 91.3 | 87.7 | 90.0 | 93.3 | 87.3 | 88.3 |
| 10 | MALVIYA MAKKA-2 | 106.7 | 94.3 | 100.5 | 82.7 | 80.7 | 78.3 | 99.7 | 89.0 | 86.1 | 78.7 | 87.0 | 84.3 | 88.3 | 96.3 | 79.0 | 85.6 |
| 11 | HKH-311 | 111.7 | 95.7 | 103.7 | 88.0 | 79.3 | 79.0 | 102.7 | 88.7 | 87.5 | 80.3 | 91.3 | 88.3 | 88.7 | 96.3 | 83.7 | 88.1 |
| 12 | HKH-312 | 109.3 | 96.3 | 102.8 | 89.3 | 79.3 | 79.3 | 101.7 | 85.0 | 86.9 | 79.3 | 90.0 | 87.7 | 88.0 | 95.0 | 84.0 | 87.3 |
| 13 | HKH-313 | 106.3 | 94.7 | 100.5 | 79.7 | 80.0 | 81.3 | 101.7 | 87.3 | 86.0 | 80.3 | 87.3 | 87.0 | 88.7 | 98.0 | 82.3 | 87.3 |
| 14 | EH-1974 | 108.3 | 94.3 | 101.3 | 82.7 | 80.0 | 77.3 | 100.0 | 85.0 | 85.0 | 81.7 | 86.3 | 87.0 | 87.3 | 96.0 | 78.7 | 86.2 |
| 15 | EH-1986 | 104.3 | 99.0 | 101.7 | 82.7 | 79.3 | 82.0 | 103.0 | 91.3 | 87.7 | 84.3 | 90.0 | 87.0 | 90.7 | 97.0 | 81.0 | 88.3 |
| 16 | EH-2025 | 107.0 | 97.0 | 102.0 | 88.0 | 79.3 | 84.0 | 101.0 | 91.7 | 88.8 | 80.7 | 89.3 | 91.7 | 90.3 | 94.7 | 81.0 | 87.9 |
| 17 | VEH-09-1 | 105.3 | 97.3 | 101.3 | 84.3 | 80.7 | 81.7 | 99.7 | 88.0 | 86.9 | 80.3 | 88.7 | 88.3 | 90.3 | 96.7 | 83.7 | 88.0 |
| 18 | VEH-09-2 | 110.0 | 99.0 | 104.5 | 89.0 | 80.7 | 83.0 | 102.0 | 85.7 | 88.1 | 80.7 | 93.7 | 93.0 | 94.3 | 96.0 | 81.0 | 89.8 |
| 19 | REH-2101 | 108.7 | 99.7 | 104.2 | 84.7 | 83.7 | 83.3 | 102.7 | 85.0 | 87.9 | 82.3 | 92.3 | 88.0 | 91.0 | 97.3 | 84.7 | 89.3 |
| 20 | REH-2102 | 109.7 | 100.0 | 104.8 | 93.7 | 81.0 | 84.3 | 103.7 | 86.7 | 89.9 | 80.7 | 92.7 | 92.7 | 93.3 | 97.7 | 87.0 | 90.7 |
| 21 | REH-2103 | 114.7 | 99.3 | 107.0 | 87.0 | 85.7 | 84.0 | 104.0 | 88.3 | 89.8 | 82.0 | 93.7 | 92.3 | 94.0 | 98.0 | 82.0 | 90.3 |
| 22 | JH-31314 | 104.0 | 95.3 | 99.7 | 85.7 | 80.3 | 82.0 | 99.0 | 88.0 | 87.0 | 80.0 | 89.0 | 88.0 | 89.3 | 94.7 | 78.7 | 86.6 |
| 23 | JH-31285 | 105.0 | 98.3 | 101.7 | 88.3 | 85.0 | 80.3 | 101.0 | 90.0 | 88.9 | 79.0 | 90.3 | 88.3 | 89.7 | 94.7 | 83.7 | 87.6 |
| 24 | JH-31336 | 100.7 | 99.0 | 99.8 | 75.7 | 80.0 | 79.3 | 100.3 | 91.0 | 85.3 | 79.7 | 89.7 | 88.0 | 89.3 | 95.7 | 75.3 | 86.3 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | Zone Mean | |
|--------|------------------|----------------------|-------|-----------|------|------|------|-------|------|-----------|------|------|------|------|------|-----------|------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | | AMBI |
| 25 | JH-31292 | 102.7 | 101.0 | 101.8 | 92.3 | 80.3 | 83.7 | 102.7 | 92.0 | 90.2 | 80.0 | 91.3 | 87.7 | 93.7 | 96.7 | 83.7 | 88.8 |
| 26 | JH-31288 | 104.7 | 99.3 | 102.0 | 81.7 | 79.7 | 80.3 | 101.3 | 92.0 | 87.0 | 82.0 | 89.7 | 88.7 | 90.3 | 94.0 | 81.0 | 87.6 |
| 27 | AH-97001 | 135.3 | 99.0 | 117.2 | 85.3 | 80.3 | 84.3 | 101.3 | 94.3 | 89.1 | 81.0 | 87.7 | 87.3 | 89.3 | 94.7 | 84.0 | 87.3 |
| 28 | HKI1105xHKI163-1 | 111.3 | 99.7 | 105.5 | 86.3 | 80.0 | 79.7 | 102.7 | 92.0 | 88.1 | 79.0 | 90.3 | 88.7 | 91.0 | 97.0 | 85.7 | 88.6 |
| 29 | BML7xHKI163-1 | 113.7 | 100.3 | 107.0 | 94.0 | 87.0 | 85.0 | 103.7 | 88.3 | 91.6 | 78.7 | 91.7 | 93.7 | 94.0 | 96.3 | 87.3 | 90.3 |
| 30 | HKI1128xHKI163-1 | 114.3 | 99.0 | 106.7 | 88.0 | 80.7 | 85.7 | 103.7 | 89.0 | 89.4 | 82.3 | 97.7 | 88.3 | 96.0 | 95.7 | 87.3 | 91.2 |
| 31 | KMH-218 | 107.7 | 98.0 | 102.8 | 94.3 | 81.0 | 83.7 | 105.0 | 87.0 | 90.2 | 82.3 | 93.7 | 93.0 | 95.0 | 94.0 | 87.0 | 90.8 |
| 32 | KMH-3426 | 111.0 | 98.0 | 104.5 | 87.3 | 80.0 | 83.3 | 103.0 | 87.3 | 88.2 | 82.3 | 91.0 | 92.0 | 92.0 | 95.3 | 85.0 | 89.6 |
| 33 | LAXMI306 | 109.0 | 98.7 | 103.8 | 86.3 | 79.0 | 81.3 | 100.0 | 90.0 | 87.3 | 81.3 | 89.0 | 87.0 | 92.0 | 95.7 | 78.0 | 87.2 |
| 34 | MUKHYA-108 | 108.0 | 99.3 | 103.7 | 88.0 | 80.0 | 85.0 | 104.7 | 90.7 | 89.7 | 81.3 | 97.0 | 92.7 | 93.7 | 97.7 | 87.0 | 91.6 |
| 35 | SARPUNCH-171 | 108.0 | 99.0 | 103.5 | 93.0 | 79.7 | 84.3 | 103.7 | 89.0 | 89.9 | 80.7 | 94.3 | 92.7 | 95.7 | 98.0 | 83.3 | 90.8 |
| 36 | KDMH-017 | 109.7 | 97.3 | 103.5 | 90.7 | 79.0 | 84.3 | 101.0 | 89.0 | 88.8 | 80.7 | 90.7 | 93.3 | 91.7 | 94.3 | 83.3 | 89.0 |
| 37 | NMH-803 | 101.7 | 96.3 | 99.0 | 87.0 | 81.3 | 84.3 | 103.0 | 84.3 | 88.0 | 80.7 | 92.3 | 87.7 | 89.7 | 93.7 | 84.0 | 88.0 |
| 38 | X8B557 | 106.7 | 98.7 | 102.7 | 87.7 | 81.7 | 83.7 | 105.0 | 91.0 | 89.8 | 79.3 | 95.0 | 90.3 | 91.7 | 97.3 | 84.0 | 89.6 |
| 39 | X8B691 | 108.0 | 100.0 | 104.0 | 87.0 | 80.3 | 82.0 | 101.7 | 90.7 | 88.3 | 80.3 | 89.7 | 90.0 | 91.0 | 95.7 | 80.0 | 87.8 |
| 40 | MCH-41 | 105.7 | 97.0 | 101.3 | 87.0 | 84.0 | 85.7 | 104.3 | 92.0 | 90.6 | 82.3 | 90.3 | 87.7 | 92.7 | 98.3 | 86.0 | 89.6 |
| 41 | MCH-42 | 115.7 | 97.7 | 106.7 | 94.3 | 84.7 | 85.0 | 103.7 | 86.7 | 90.9 | 80.7 | 91.3 | 90.0 | 92.7 | 96.3 | 86.7 | 89.6 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 102.0 | 98.3 | 100.2 | 81.0 | 83.0 | 81.3 | 99.0 | 90.7 | 87.0 | 81.3 | 88.0 | 87.3 | 88.7 | 94.3 | 82.3 | 87.0 |
| 43 | BIO-9637 | 105.7 | 97.0 | 101.3 | 87.7 | 80.3 | 84.0 | 101.0 | 89.0 | 88.4 | 78.7 | 87.3 | 88.0 | 89.7 | 95.0 | 81.0 | 86.6 |
| 44 | HM-9 | 105.3 | 97.0 | 101.2 | 86.0 | 80.0 | 80.7 | 102.0 | 89.0 | 87.5 | 81.3 | 89.3 | 88.7 | 91.0 | 96.7 | 83.3 | 88.4 |
| | Loc. Mean | 108.1 | 97.8 | 102.9 | 86.4 | 80.9 | 82.3 | 101.9 | 89.0 | 88.1 | 80.7 | 90.5 | 89.0 | 91.1 | 95.7 | 83.1 | 88.4 |
| | C.D. (5%) | 12.9 | 2.9 | 7.6 | 8.6 | 4.3 | 3.7 | 2.7 | 4.8 | 3.1 | 1.8 | 3.3 | 1.8 | 1.9 | 3.8 | 0.9 | 2.0 |
| | C.D. (1%) | 17.2 | 3.8 | 10.1 | 11.4 | 5.8 | 4.9 | 3.6 | 6.4 | 4.1 | 2.4 | 4.3 | 2.4 | 2.5 | 5.1 | 1.2 | 2.7 |
| | C.V. (%) | 7.38 | 1.80 | 3.65 | 6.14 | 3.31 | 2.78 | 1.65 | 3.32 | 2.79 | 1.41 | 2.22 | 1.27 | 1.29 | 2.47 | 0.65 | 2.04 |
| | F (Prob.) | 0.11 | 0.00 | 0.22 | 0.00 | 0.03 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | Zone | | | | OV'L | | OV'L Mean | | |
|-------|-----------------|----------------------|------|------|------|-------|-------|------|------|------|------|------|------|-----------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | | UDHA | GODH |
| 1 | PLM-21 | 91.0 | 92.3 | 76.7 | 94.7 | 94.3 | 98.0 | 91.2 | 85.3 | 81.7 | 86.7 | 84.6 | 89.7 | 90.7 | 77.7 | 84.2 |
| 2 | L-183 | 90.0 | 93.7 | 75.3 | 96.0 | 94.7 | 100.0 | 91.6 | 86.7 | 81.3 | 88.0 | 85.3 | 88.7 | 91.3 | 78.0 | 84.7 |
| 3 | EHL-162308 | 90.0 | 92.3 | 75.7 | 97.0 | 91.7 | 98.0 | 90.8 | 83.7 | 80.7 | 83.0 | 82.4 | 87.9 | 89.7 | 77.7 | 83.7 |
| 4 | PMSY-3 | 91.0 | 95.7 | 76.3 | 93.7 | 97.3 | 102.0 | 92.7 | 85.3 | 87.0 | 86.7 | 86.3 | 90.6 | 91.3 | 79.3 | 85.3 |
| 5 | PMSW-4 | 90.0 | 94.3 | 75.7 | 94.7 | 93.7 | 98.0 | 91.1 | 84.0 | 82.0 | 86.7 | 84.2 | 89.4 | 92.3 | 77.0 | 84.7 |
| 6 | PMSQ-5 | 92.3 | 97.3 | 76.7 | 97.0 | 95.7 | 100.0 | 93.2 | 83.7 | 80.3 | 88.3 | 84.1 | 89.9 | 92.3 | 77.0 | 84.7 |
| 7 | HKH-308 | 92.3 | 95.0 | 77.3 | 92.0 | 97.7 | 98.0 | 92.1 | 84.0 | 82.7 | 85.7 | 84.1 | 89.8 | 91.7 | 77.0 | 84.3 |
| 8 | HKH-309 | 94.7 | 96.3 | 76.7 | 93.3 | 94.7 | 100.0 | 92.6 | 83.3 | 82.0 | 88.7 | 84.7 | 89.9 | 92.3 | 79.3 | 85.8 |
| 9 | HKH-310 | 91.3 | 94.7 | 77.0 | 95.7 | 99.7 | 100.0 | 93.1 | 83.0 | 85.7 | 89.0 | 85.9 | 90.8 | 91.7 | 78.0 | 84.8 |
| 10 | MALVIYA MAKKA-2 | 89.0 | 96.3 | 75.7 | 92.0 | 90.3 | 98.0 | 90.2 | 85.0 | 84.7 | 85.0 | 84.9 | 88.2 | 90.3 | 78.3 | 84.3 |
| 11 | HKH-311 | 93.3 | 96.0 | 77.3 | 91.3 | 95.7 | 98.0 | 91.9 | 86.7 | 87.7 | 91.0 | 88.4 | 90.5 | 92.0 | 77.3 | 84.7 |
| 12 | HKH-312 | 94.7 | 95.7 | 77.3 | 90.3 | 96.3 | 100.0 | 92.4 | 85.7 | 82.7 | 88.7 | 85.7 | 89.8 | 91.3 | 77.0 | 84.2 |
| 13 | HKH-313 | 92.3 | 97.3 | 76.3 | 97.7 | 94.7 | 98.0 | 92.7 | 85.0 | 82.7 | 89.0 | 85.6 | 89.4 | 92.0 | 80.3 | 86.2 |
| 14 | EH-1974 | 90.0 | 90.7 | 74.7 | 90.0 | 95.7 | 98.0 | 89.8 | 83.7 | 82.3 | 85.0 | 83.7 | 87.9 | 90.0 | 76.7 | 83.3 |
| 15 | EH-1986 | 93.3 | 95.3 | 76.3 | 94.0 | 94.0 | 100.0 | 92.2 | 87.3 | 84.7 | 87.7 | 86.6 | 90.2 | 81.7 | 79.3 | 80.5 |
| 16 | EH-2025 | 91.3 | 97.0 | 75.3 | 95.7 | 92.3 | 98.0 | 91.6 | 82.7 | 82.7 | 89.7 | 85.0 | 90.0 | 93.7 | 78.0 | 85.8 |
| 17 | VEH-09-1 | 89.3 | 96.0 | 75.0 | 93.7 | 92.3 | 100.0 | 91.1 | 84.3 | 87.0 | 86.3 | 85.9 | 89.5 | 91.7 | 81.0 | 86.3 |
| 18 | VEH-09-2 | 93.7 | 99.3 | 75.7 | 93.0 | 98.7 | 104.0 | 94.1 | 86.3 | 84.0 | 91.7 | 87.3 | 91.6 | 92.0 | 82.0 | 87.0 |
| 19 | REH-2101 | 91.3 | 96.7 | 77.0 | 94.7 | 98.3 | 102.0 | 93.3 | 87.3 | 82.7 | 91.0 | 87.0 | 91.1 | 93.3 | 80.7 | 87.0 |
| 20 | REH-2102 | 93.0 | 95.3 | 77.0 | 97.7 | 100.3 | 98.0 | 93.6 | 86.7 | 85.3 | 90.3 | 87.4 | 92.1 | 93.0 | 81.0 | 87.0 |
| 21 | REH-2103 | 94.0 | 96.7 | 76.7 | 98.3 | 99.3 | 105.0 | 95.0 | 89.0 | 82.7 | 90.3 | 87.3 | 92.6 | 95.0 | 80.0 | 87.5 |
| 22 | JH-31314 | 92.3 | 93.7 | 76.7 | 92.7 | 94.0 | 98.0 | 91.2 | 83.3 | 82.0 | 85.7 | 83.7 | 88.7 | 93.7 | 78.0 | 85.8 |
| 23 | JH-31285 | 92.7 | 91.7 | 77.0 | 93.0 | 95.7 | 98.0 | 91.3 | 84.3 | 84.0 | 88.0 | 85.4 | 89.9 | 91.7 | 78.0 | 84.8 |
| 24 | JH-31336 | 88.0 | 93.3 | 75.7 | 95.7 | 93.3 | 98.0 | 90.7 | 84.3 | 80.0 | 83.0 | 82.4 | 88.0 | 90.7 | 77.7 | 84.2 |

Table No. 2 (Continued)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|--------|------------------|----------------------|------|------|-------|-------|-------|------|------|------|-----------|-----------|-----------|------|------|-----------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | UDAI | BANS | CHHI | Zone Mean | | | | | |
| 25 | JH-31292 | 93.0 | 96.7 | 76.7 | 97.3 | 97.7 | 105.0 | 94.4 | 86.3 | 82.3 | 91.0 | 86.6 | 91.5 | 93.0 | 81.3 | 87.2 |
| 26 | JH-31288 | 90.7 | 94.0 | 76.7 | 90.7 | 97.3 | 100.0 | 91.6 | 87.3 | 78.3 | 85.3 | 83.7 | 89.3 | 92.0 | 76.0 | 84.0 |
| 27 | AH-97001 | 91.0 | 94.3 | 75.0 | 97.0 | 93.0 | 98.0 | 91.4 | 82.3 | 83.3 | 86.0 | 83.9 | 91.1 | 90.7 | 77.3 | 84.0 |
| 28 | HKI1105xHKI163-1 | 92.3 | 95.3 | 77.7 | 95.3 | 96.7 | 98.0 | 92.6 | 86.3 | 85.7 | 88.0 | 86.7 | 90.8 | 92.0 | 77.7 | 84.8 |
| 29 | BML7xHKI163-1 | 95.0 | 99.0 | 77.3 | 99.7 | 102.0 | 105.0 | 96.3 | 86.7 | 87.0 | 92.7 | 88.8 | 93.5 | 93.3 | 81.3 | 87.3 |
| 30 | HKI1128xHKI163-1 | 93.7 | 96.7 | 77.3 | 99.7 | 99.3 | 102.0 | 94.8 | 86.7 | 86.0 | 89.7 | 87.4 | 92.7 | 95.0 | 82.0 | 88.5 |
| 31 | KMH-218 | 93.3 | 97.7 | 76.3 | 95.7 | 99.7 | 105.0 | 94.6 | 86.3 | 83.7 | 92.3 | 87.4 | 92.3 | 94.7 | 80.0 | 87.3 |
| 32 | KMH-3426 | 93.7 | 96.7 | 76.3 | 96.0 | 94.3 | 100.0 | 92.8 | 84.7 | 83.0 | 93.7 | 87.1 | 91.2 | 95.0 | 78.7 | 86.8 |
| 33 | LAXMI306 | 91.7 | 91.3 | 76.7 | 92.7 | 96.0 | 98.0 | 91.1 | 85.0 | 79.0 | 86.0 | 83.3 | 89.3 | 93.7 | 77.3 | 85.5 |
| 34 | MUKHYA-108 | 93.0 | 97.0 | 77.3 | 100.7 | 102.0 | 105.0 | 95.8 | 85.0 | 85.7 | 92.3 | 87.7 | 92.9 | 93.3 | 79.7 | 86.5 |
| 35 | SARPUNCH-171 | 93.3 | 97.7 | 76.7 | 95.3 | 98.3 | 100.0 | 93.6 | 86.7 | 85.0 | 89.0 | 86.9 | 92.0 | 95.0 | 80.7 | 87.8 |
| 36 | KDMH-017 | 91.7 | 97.3 | 75.7 | 96.3 | 95.0 | 105.0 | 93.5 | 85.0 | 80.3 | 88.7 | 84.7 | 90.9 | 93.7 | 81.3 | 87.5 |
| 37 | NMH-803 | 90.3 | 94.7 | 75.3 | 95.7 | 95.3 | 102.0 | 92.2 | 84.7 | 82.0 | 87.0 | 84.6 | 89.7 | 93.0 | 79.7 | 86.3 |
| 38 | X8B557 | 92.3 | 97.7 | 75.3 | 96.0 | 99.3 | 105.0 | 94.3 | 87.7 | 84.0 | 93.0 | 88.2 | 91.9 | 91.3 | 82.3 | 86.8 |
| 39 | X8B691 | 91.7 | 96.7 | 74.0 | 95.0 | 92.7 | 105.0 | 92.5 | 85.7 | 82.7 | 90.3 | 86.2 | 90.5 | 92.3 | 80.3 | 86.3 |
| 40 | MCH-41 | 91.3 | 98.7 | 77.0 | 95.7 | 97.0 | 110.0 | 94.9 | 87.7 | 86.7 | 89.0 | 87.8 | 92.1 | 94.0 | 82.7 | 88.3 |
| 41 | MCH-42 | 91.7 | 98.7 | 76.0 | 94.7 | 98.7 | 105.0 | 94.1 | 87.3 | 84.3 | 92.3 | 88.0 | 92.5 | 93.7 | 82.3 | 88.0 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 93.0 | 95.7 | 77.0 | 90.7 | 94.3 | 95.0 | 90.9 | 83.0 | 78.0 | 85.7 | 82.2 | 88.6 | 93.3 | 78.3 | 85.8 |
| 43 | BIO-9637 | 89.7 | 95.7 | 75.3 | 94.0 | 90.7 | 98.0 | 90.6 | 84.7 | 83.7 | 85.7 | 84.7 | 89.2 | 91.3 | 78.0 | 84.7 |
| 44 | HM-9 | 92.0 | 94.7 | 76.0 | 95.7 | 98.0 | 98.0 | 92.4 | 82.3 | 82.7 | 87.7 | 84.2 | 89.9 | 92.3 | 79.7 | 86.0 |
| | Loc. Mean | 91.9 | 95.7 | 76.3 | 94.9 | 96.1 | 100.6 | 92.6 | 85.3 | 83.2 | 88.4 | 85.6 | 90.4 | 92.2 | 79.2 | 85.7 |
| | C.D. (5%) | 2.5 | 1.4 | 1.6 | 5.6 | 3.8 | 0.4 | 2.1 | 0.9 | 1.8 | 2.3 | 2.9 | 1.3 | 5.93 | 1.63 | 3.37 |
| | C.D. (1%) | 3.3 | 1.9 | 2.2 | 7.5 | 5.0 | 0.6 | 2.8 | 1.2 | 2.4 | 3.0 | 3.8 | 1.7 | | | |
| | C.V. (%) | 1.66 | 0.93 | 1.32 | 3.65 | 2.41 | 0.26 | 2.03 | 0.64 | 1.34 | 1.59 | 2.06 | 2.41 | 3.96 | 1.27 | 1.95 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.03 |

Table No. 2 (Continued)

| SI No | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | | | | | | | |
|-------|-----------------|-----------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | Zone Mean |
| 1 | PLM-21 | 23.7 | 26.8 | 25.3 | 30.9 | 25.6 | 21.0 | 28.1 | 15.0 | 24.1 | 22.7 | 20.8 | 17.3 | 22.7 | 21.2 | 20.9 |
| 2 | L-183 | 23.4 | 26.5 | 24.9 | 33.3 | 26.9 | 22.4 | 23.5 | 15.0 | 24.2 | 23.2 | 20.1 | 16.6 | 22.5 | 20.2 | 20.5 |
| 3 | EHL-162308 | 23.9 | 25.8 | 24.9 | 26.3 | 27.0 | 24.3 | 25.3 | 15.0 | 23.6 | 24.5 | 18.3 | 18.4 | 22.6 | 21.3 | 21.0 |
| 4 | PMSY-3 | 22.6 | 27.1 | 24.8 | 34.1 | 27.0 | 24.9 | 33.0 | 15.0 | 26.8 | 23.0 | 18.7 | 16.7 | 22.8 | 21.3 | 20.5 |
| 5 | PMSW-4 | 22.7 | 26.5 | 24.6 | 32.2 | 28.0 | 23.1 | 27.6 | 15.0 | 25.2 | 23.2 | 19.3 | 17.9 | 24.0 | 20.2 | 20.9 |
| 6 | PMSQ-5 | 23.1 | 26.4 | 24.8 | 33.6 | 29.6 | 25.0 | 33.3 | 15.0 | 27.3 | 24.2 | 22.0 | 18.5 | 23.2 | 21.3 | 21.8 |
| 7 | HKH-308 | 22.3 | 25.7 | 24.0 | 28.9 | 27.3 | 24.1 | 27.7 | 15.0 | 24.6 | 23.3 | 19.0 | 16.7 | 24.6 | 21.3 | 21.0 |
| 8 | HKH-309 | 24.4 | 27.7 | 26.1 | 30.1 | 24.4 | 24.0 | 26.0 | 15.0 | 23.9 | 23.1 | 18.1 | 18.4 | 24.3 | 20.1 | 20.8 |
| 9 | HKH-310 | 23.7 | 25.9 | 24.8 | 29.7 | 24.0 | 22.2 | 28.2 | 15.0 | 23.8 | 22.0 | 19.6 | 17.7 | 24.5 | 23.1 | 21.4 |
| 10 | MALVIYA MAKKA-2 | 23.3 | 27.2 | 25.2 | 28.9 | 30.3 | 21.6 | 28.5 | 15.0 | 24.9 | 24.2 | 19.0 | 17.1 | 25.2 | 20.2 | 21.1 |
| 11 | HKH-311 | 22.5 | 27.8 | 25.1 | 33.7 | 27.3 | 20.8 | 28.0 | 15.0 | 24.9 | 24.1 | 17.2 | 17.1 | 23.1 | 20.3 | 20.4 |
| 12 | HKH-312 | 22.4 | 26.6 | 24.5 | 32.4 | 26.0 | 21.8 | 29.3 | 15.0 | 24.9 | 23.1 | 18.0 | 16.7 | 23.9 | 20.0 | 20.3 |
| 13 | HKH-313 | 26.9 | 26.0 | 26.4 | 26.9 | 25.9 | 24.4 | 28.5 | 15.0 | 24.1 | 23.2 | 19.6 | 17.1 | 23.6 | 21.0 | 20.9 |
| 14 | EH-1974 | 20.5 | 28.4 | 24.5 | 29.1 | 27.5 | 22.4 | 25.3 | 15.0 | 23.9 | 22.3 | 16.4 | 16.8 | 25.7 | 20.1 | 20.3 |
| 15 | EH-1986 | 24.6 | 26.9 | 25.7 | 31.7 | 27.3 | 25.3 | 28.7 | 15.0 | 25.6 | 22.9 | 17.3 | 17.9 | 25.2 | 20.0 | 20.7 |
| 16 | EH-2025 | 22.2 | 27.3 | 24.7 | 29.1 | 25.2 | 25.9 | 29.2 | 15.0 | 24.9 | 23.3 | 18.1 | 17.3 | 24.8 | 23.1 | 21.3 |
| 17 | VEH-09-1 | 21.2 | 28.5 | 24.8 | 25.7 | 28.7 | 23.6 | 33.6 | 15.0 | 25.3 | 24.7 | 19.0 | 17.1 | 23.7 | 20.4 | 21.0 |
| 18 | VEH-09-2 | 23.7 | 27.8 | 25.7 | 29.8 | 26.2 | 26.7 | 28.8 | 15.0 | 25.3 | 23.9 | 18.7 | 17.9 | 27.0 | 22.3 | 22.0 |
| 19 | REH-2101 | 22.2 | 27.4 | 24.8 | 36.3 | 28.9 | 25.9 | 28.1 | 15.0 | 26.8 | 24.0 | 24.9 | 17.1 | 26.7 | 20.2 | 22.6 |
| 20 | REH-2102 | 25.1 | 26.3 | 25.7 | 29.2 | 30.1 | 29.0 | 31.9 | 15.0 | 27.0 | 25.3 | 19.3 | 17.5 | 26.2 | 20.2 | 21.7 |
| 21 | REH-2103 | 25.5 | 26.6 | 26.0 | 35.0 | 33.7 | 26.0 | 32.6 | 15.0 | 28.5 | 24.1 | 25.1 | 18.4 | 27.3 | 19.2 | 22.8 |
| 22 | JH-31314 | 22.3 | 28.6 | 25.4 | 34.4 | 29.3 | 22.6 | 26.1 | 15.0 | 25.5 | 23.5 | 17.7 | 17.1 | 24.1 | 21.3 | 20.7 |
| 23 | JH-31285 | 21.3 | 28.6 | 25.0 | 30.7 | 26.0 | 25.7 | 26.5 | 15.0 | 24.8 | 23.2 | 21.9 | 17.2 | 25.2 | 19.4 | 21.4 |
| 24 | JH-31336 | 19.9 | 26.9 | 23.4 | 30.0 | 28.0 | 22.3 | 27.0 | 15.0 | 24.4 | 23.0 | 16.8 | 17.7 | 24.2 | 19.4 | 20.2 |

Table No. 2 (Continued)

| SI No | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | | | | | | | |
|--------|------------------|-----------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | Zone Mean |
| 25 | JH-31292 | 21.7 | 28.2 | 25.0 | 35.5 | 34.0 | 31.4 | 32.1 | 15.0 | 29.6 | 24.5 | 19.9 | 17.9 | 26.9 | 19.1 | 21.7 |
| 26 | JH-31288 | 22.7 | 26.1 | 24.4 | 29.4 | 24.9 | 23.2 | 27.5 | 15.0 | 24.0 | 24.0 | 18.0 | 17.5 | 24.4 | 19.2 | 20.6 |
| 27 | AH-97001 | 23.1 | 27.2 | 25.1 | 30.7 | 25.4 | 23.6 | 26.8 | 15.0 | 24.3 | 23.7 | 18.3 | 16.9 | 23.7 | 20.1 | 20.5 |
| 28 | HKI1105xHKI163-1 | 23.7 | 25.8 | 24.8 | 34.4 | 29.0 | 23.9 | 24.9 | 15.0 | 25.4 | 21.9 | 19.1 | 16.5 | 24.0 | 19.2 | 20.1 |
| 29 | BML7xHKI163-1 | 26.1 | 26.1 | 26.1 | 34.2 | 25.9 | 30.3 | 35.9 | 15.0 | 28.2 | 22.1 | 20.3 | 17.5 | 31.3 | 20.2 | 22.3 |
| 30 | HKI1128xHKI163-1 | 25.4 | 25.8 | 25.6 | 35.0 | 26.8 | 25.1 | 24.3 | 15.0 | 25.2 | 22.3 | 17.8 | 17.1 | 28.4 | 21.2 | 21.4 |
| 31 | KMH-218 | 23.4 | 26.8 | 25.1 | 30.7 | 25.9 | 27.3 | 30.9 | 15.0 | 26.0 | 25.5 | 21.9 | 17.7 | 25.9 | 19.4 | 22.1 |
| 32 | KMH-3426 | 25.1 | 27.8 | 26.4 | 29.9 | 34.0 | 25.4 | 24.4 | 15.0 | 25.7 | 24.2 | 20.2 | 17.5 | 25.3 | 23.1 | 22.1 |
| 33 | LAXMI306 | 23.2 | 26.5 | 24.8 | 28.3 | 25.4 | 23.4 | 26.1 | 15.0 | 23.6 | 25.1 | 18.5 | 17.1 | 25.8 | 19.4 | 21.2 |
| 34 | MUKHYA-108 | 23.5 | 28.0 | 25.7 | 28.7 | 28.6 | 29.0 | 30.4 | 15.0 | 26.3 | 25.2 | 19.6 | 16.9 | 26.0 | 21.3 | 21.8 |
| 35 | SARPUNCH-171 | 23.1 | 26.4 | 24.7 | 30.0 | 27.5 | 28.9 | 33.2 | 15.0 | 26.9 | 24.8 | 19.6 | 17.1 | 27.0 | 22.1 | 22.1 |
| 36 | KDMH-017 | 23.6 | 27.8 | 25.7 | 35.3 | 27.4 | 25.8 | 20.6 | 15.0 | 24.8 | 24.2 | 19.6 | 18.8 | 23.1 | 20.3 | 21.2 |
| 37 | NMH-803 | 20.5 | 27.2 | 23.8 | 30.9 | 26.2 | 25.0 | 30.2 | 15.0 | 25.4 | 27.0 | 19.0 | 16.7 | 24.0 | 20.2 | 21.4 |
| 38 | X8B557 | 30.0 | 26.4 | 28.2 | 27.1 | 32.5 | 29.0 | 31.9 | 15.0 | 27.1 | 24.7 | 21.7 | 17.1 | 28.1 | 20.3 | 22.4 |
| 39 | X8B691 | 24.7 | 27.0 | 25.9 | 34.6 | 26.5 | 27.0 | 32.6 | 15.0 | 27.1 | 23.7 | 23.8 | 18.4 | 26.2 | 22.3 | 22.9 |
| 40 | MCH-41 | 28.1 | 26.3 | 27.2 | 35.6 | 26.9 | 28.7 | 33.3 | 15.0 | 27.9 | 23.3 | 21.9 | 16.5 | 25.5 | 19.0 | 21.2 |
| 41 | MCH-42 | 26.3 | 28.2 | 27.2 | 34.1 | 29.0 | 28.3 | 33.9 | 15.0 | 28.0 | 24.2 | 22.6 | 17.7 | 26.6 | 19.1 | 22.0 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 22.3 | 26.8 | 24.6 | 36.4 | 26.3 | 22.4 | 28.0 | 15.0 | 25.6 | 22.9 | 18.0 | 16.7 | 23.5 | 22.0 | 20.6 |
| 43 | BIO-9637 | 25.5 | 26.7 | 26.1 | 25.9 | 26.0 | 25.3 | 28.4 | 15.0 | 24.1 | 23.7 | 22.0 | 18.1 | 25.1 | 21.2 | 22.0 |
| 44 | HM-9 | 23.6 | 26.9 | 25.2 | 28.4 | 26.9 | 23.7 | 23.7 | 15.0 | 23.5 | 22.3 | 17.7 | 17.1 | 23.4 | 20.0 | 20.1 |
| | Loc. Mean | 23.6 | 27.0 | 25.3 | 31.3 | 27.6 | 25.0 | 28.7 | 15.0 | 25.5 | 23.7 | 19.6 | 17.4 | 25.0 | 20.6 | 21.3 |
| | C.D. (5%) | 1.70 | 1.50 | 3.40 | 4.90 | 0.00 | 2.00 | 3.70 | - | 2.90 | 0.90 | 0.00 | - | - | 0.00 | 1.70 |
| | C.D. (1%) | 2.30 | 2.00 | 4.60 | 6.50 | 0.00 | 2.70 | 4.90 | - | 3.80 | 1.30 | 0.00 | - | - | 0.00 | 2.20 |
| | C.V. (%) | 4.56 | 3.44 | 6.75 | 9.71 | 0.00 | 4.98 | 7.91 | - | 9.09 | 2.47 | 0.00 | - | - | 0.00 | 6.37 |
| | F (Prob.) | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.03 |

Table No. 2 (Continued)

| SI No | PEDIGREE | MOISTURE % AT HARVEST | | | | | | BANG POCB | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|-------|-----------------|-----------------------|------|------|------|------|------|--------------|--------------|------|------|------|--------------|--------------|------|------|--------------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | | | | | | | | |
| 1 | PLM-21 | 19.4 | 28.5 | 14.3 | 13.6 | 16.5 | 18.3 | 23.3 | 19.1 | 28.8 | 16.2 | 11.3 | 18.8 | 21.2 | 25.7 | 24.0 | 24.8 |
| 2 | L-183 | 25.0 | 28.6 | 14.0 | 13.2 | 16.3 | 18.8 | 23.9 | 19.9 | 28.4 | 15.3 | 15.3 | 19.6 | 21.5 | 25.9 | 16.3 | 21.1 |
| 3 | EHL-162308 | 24.7 | 23.9 | 16.7 | 14.2 | 16.5 | 19.7 | 23.4 | 19.9 | 29.4 | 15.8 | 11.4 | 18.9 | 21.3 | 26.1 | 20.3 | 23.2 |
| 4 | PMSY-3 | 22.0 | 31.2 | 12.3 | 13.9 | 16.5 | 18.5 | 23.5 | 19.7 | 28.2 | 16.5 | 13.1 | 19.2 | 21.9 | 25.0 | 22.3 | 23.6 |
| 5 | PMSW-4 | 22.9 | 30.1 | 14.7 | 14.8 | 16.3 | 18.4 | 23.7 | 20.1 | 27.4 | 15.9 | 11.5 | 18.2 | 21.6 | 28.0 | 23.6 | 25.8 |
| 6 | PMSQ-5 | 25.7 | 30.9 | 12.0 | 14.4 | 15.5 | 22.1 | 23.4 | 20.6 | 29.3 | 16.0 | 14.3 | 19.9 | 22.7 | 25.8 | 23.1 | 24.5 |
| 7 | HKH-308 | 22.4 | 22.9 | 14.0 | 14.2 | 16.2 | 18.1 | 23.6 | 18.8 | 28.3 | 16.6 | 11.3 | 18.7 | 21.1 | 25.2 | 23.4 | 24.3 |
| 8 | HKH-309 | 23.4 | 27.7 | 15.3 | 13.1 | 16.0 | 18.0 | 23.5 | 19.6 | 28.2 | 15.6 | 12.1 | 18.6 | 21.3 | 27.5 | 22.3 | 24.9 |
| 9 | HKH-310 | 20.9 | 25.2 | 13.7 | 13.4 | 16.6 | 20.4 | 23.5 | 19.1 | 27.1 | 16.4 | 12.0 | 18.5 | 21.1 | 28.7 | 19.2 | 23.9 |
| 10 | MALVIYA MAKKA-2 | 25.0 | 27.5 | 13.3 | 14.2 | 16.6 | 17.7 | 23.8 | 19.7 | 27.6 | 15.6 | 11.5 | 18.2 | 21.5 | 29.2 | 19.9 | 24.5 |
| 11 | HKH-311 | 25.0 | 29.0 | 14.0 | 13.4 | 16.4 | 17.8 | 23.5 | 19.9 | 29.4 | 16.0 | 13.8 | 19.7 | 21.6 | 26.3 | 23.4 | 24.9 |
| 12 | HKH-312 | 21.5 | 28.2 | 14.3 | 13.7 | 16.5 | 18.5 | 23.9 | 19.5 | 29.9 | 16.1 | 11.4 | 19.1 | 21.3 | 26.6 | 21.2 | 23.9 |
| 13 | HKH-313 | 24.2 | 26.7 | 12.3 | 12.9 | 15.9 | 19.1 | 23.8 | 19.3 | 27.7 | 15.9 | 11.7 | 18.4 | 21.3 | 28.2 | 29.4 | 28.8 |
| 14 | EH-1974 | 28.6 | 28.6 | 15.3 | 13.5 | 16.7 | 17.4 | 23.8 | 20.5 | 26.5 | 16.3 | 12.8 | 18.5 | 21.3 | 27.5 | 24.9 | 26.2 |
| 15 | EH-1986 | 24.8 | 23.4 | 13.3 | 12.9 | 16.9 | 18.6 | 23.5 | 19.1 | 26.3 | 16.0 | 14.4 | 18.9 | 21.5 | 27.7 | 19.7 | 23.7 |
| 16 | EH-2025 | 26.6 | 29.9 | 13.0 | 14.3 | 15.8 | 18.8 | 23.6 | 20.3 | 24.3 | 16.0 | 13.6 | 18.0 | 21.6 | 28.7 | 16.9 | 22.8 |
| 17 | VEH-09-1 | 23.7 | 25.1 | 12.0 | 13.8 | 16.3 | 17.6 | 23.9 | 18.9 | 28.5 | 15.5 | 13.8 | 19.2 | 21.4 | 28.2 | 18.5 | 23.4 |
| 18 | VEH-09-2 | 29.0 | 30.5 | 12.3 | 14.8 | 16.6 | 18.6 | 23.8 | 20.8 | 28.9 | 15.9 | 15.3 | 20.0 | 22.4 | 27.6 | 18.9 | 23.2 |
| 19 | REH-2101 | 24.3 | 23.5 | 13.3 | 13.3 | 16.3 | 22.2 | 23.6 | 19.5 | 27.1 | 16.4 | 14.9 | 19.4 | 22.3 | 26.7 | 21.6 | 24.2 |
| 20 | REH-2102 | 24.5 | 31.5 | 13.0 | 13.6 | 16.1 | 22.1 | 23.5 | 20.6 | 29.6 | 15.9 | 12.8 | 19.4 | 22.6 | 27.7 | 19.5 | 23.6 |
| 21 | REH-2103 | 25.9 | 31.5 | 13.3 | 14.0 | 16.9 | 20.5 | 23.7 | 20.8 | 29.3 | 16.1 | 13.7 | 19.7 | 23.3 | 28.6 | - | 28.6 |
| 22 | JH-31314 | 20.6 | 22.2 | 14.3 | 14.1 | 15.1 | 17.8 | 23.8 | 18.2 | 27.4 | 16.1 | 11.2 | 18.2 | 21.1 | 26.9 | 19.6 | 23.2 |
| 23 | JH-31285 | 24.4 | 33.0 | 15.3 | 15.9 | 16.1 | 18.6 | 23.6 | 21.0 | 28.7 | 16.0 | 15.0 | 19.9 | 22.1 | 25.8 | 20.3 | 23.0 |
| 24 | JH-31336 | 21.5 | 24.6 | 14.3 | 13.6 | 15.7 | 18.5 | 23.6 | 18.8 | 25.6 | 16.9 | 12.5 | 18.3 | 20.8 | 26.2 | 17.5 | 21.9 |

Table No. 2 (Continued)

| | | MOISTURE % AT HARVEST | | | | | | | | | | | | | | | |
|--------|------------------|-----------------------|------|------|------|------|------|--------------|--------------|------|------|------|--------------|--------------|------|------|--------------|
| SI No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG POCB | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
| 25 | JH-31292 | 29.9 | 31.2 | 13.3 | 13.6 | 16.2 | 19.1 | 23.5 | 21.0 | 29.0 | 16.5 | 16.3 | 20.6 | 23.4 | 26.4 | 22.0 | 24.2 |
| 26 | JH-31288 | 24.9 | 28.3 | 13.3 | 13.6 | 15.9 | 18.6 | 23.6 | 19.7 | 30.0 | 16.3 | 13.1 | 19.8 | 21.3 | 27.8 | 20.7 | 24.2 |
| 27 | AH-97001 | 22.3 | 30.2 | 14.3 | 13.3 | 16.3 | 17.6 | 23.6 | 19.6 | 28.3 | 16.5 | 13.4 | 19.4 | 21.4 | 26.9 | 15.8 | 21.4 |
| 28 | HKI1105xHKI163-1 | 21.4 | 32.8 | 14.0 | 14.9 | 15.6 | 17.4 | 23.6 | 19.9 | 28.1 | 15.9 | 12.7 | 18.9 | 21.5 | 25.1 | 22.5 | 23.8 |
| 29 | BML7xHKI163-1 | 20.6 | 32.1 | 12.0 | 14.4 | 16.1 | 20.2 | 23.6 | 19.9 | 28.4 | 16.0 | 14.1 | 19.5 | 22.8 | 26.9 | 24.2 | 25.6 |
| 30 | HKI1128xHKI163-1 | 23.2 | 30.7 | 11.3 | 14.5 | 16.5 | 20.0 | 23.8 | 20.0 | 27.3 | 15.2 | 11.4 | 18.0 | 21.7 | 26.2 | 24.2 | 25.2 |
| 31 | KMH-218 | 24.3 | 31.9 | 13.3 | 15.0 | 16.2 | 19.9 | 23.7 | 20.6 | 28.5 | 15.9 | 15.3 | 19.9 | 22.5 | 26.0 | 22.0 | 24.0 |
| 32 | KMH-3426 | 26.6 | 30.4 | 13.7 | 14.6 | 16.5 | 18.0 | 23.4 | 20.4 | 28.0 | 15.8 | 14.8 | 19.5 | 22.4 | 28.1 | 18.2 | 23.2 |
| 33 | LAXMI306 | 25.6 | 30.6 | 15.7 | 15.0 | 15.6 | 19.7 | 23.9 | 20.8 | 27.1 | 16.4 | 13.2 | 18.9 | 21.6 | 29.0 | 22.3 | 25.6 |
| 34 | MUKHYA-108 | 25.3 | 27.4 | 11.0 | 12.9 | 15.2 | 21.7 | 23.6 | 19.6 | 27.6 | 15.7 | 13.3 | 18.9 | 22.1 | 28.8 | 22.5 | 25.7 |
| 35 | SARPUNCH-171 | 28.5 | 26.9 | 13.3 | 14.3 | 16.8 | 20.3 | 23.5 | 20.5 | 28.3 | 16.1 | 16.6 | 20.3 | 22.7 | 26.9 | 24.2 | 25.5 |
| 36 | KDMH-017 | 28.2 | 31.0 | 12.3 | 14.6 | 15.3 | 19.9 | 23.6 | 20.7 | 28.8 | 16.1 | 12.3 | 19.0 | 22.0 | 26.9 | 20.5 | 23.7 |
| 37 | NMH-803 | 25.9 | 30.2 | 12.7 | 13.9 | 15.7 | 17.8 | 23.8 | 20.0 | 29.6 | 15.8 | 12.4 | 19.2 | 21.8 | 28.0 | 28.9 | 28.4 |
| 38 | X8B557 | 21.8 | 29.3 | 11.7 | 12.5 | 15.7 | 18.2 | 23.8 | 19.0 | 29.1 | 16.8 | 14.5 | 20.1 | 22.6 | 27.7 | 23.5 | 25.6 |
| 39 | X8B691 | 28.1 | 27.3 | 12.7 | 13.3 | 16.4 | 18.1 | 23.6 | 19.9 | 28.6 | 16.0 | 14.9 | 19.8 | 22.8 | 27.6 | 22.8 | 25.2 |
| 40 | MCH-41 | 25.1 | 21.0 | 12.7 | 14.3 | 15.6 | 18.8 | 23.4 | 18.7 | 27.8 | 15.7 | 12.6 | 18.7 | 22.1 | 25.5 | 21.3 | 23.4 |
| 41 | MCH-42 | 28.3 | 29.6 | 11.7 | 15.3 | 17.7 | 20.5 | 23.7 | 21.0 | 27.7 | 16.2 | 16.5 | 20.1 | 23.3 | 29.2 | 21.4 | 25.3 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 24.5 | 29.0 | 12.0 | 13.6 | 16.3 | 15.4 | 23.7 | 19.2 | 28.8 | 15.7 | 12.6 | 19.0 | 21.4 | 26.9 | 20.0 | 23.4 |
| 43 | BIO-9637 | 25.3 | 29.0 | 15.3 | 13.6 | 16.4 | 18.3 | 23.7 | 20.2 | 28.1 | 16.1 | 11.7 | 18.6 | 21.8 | 27.1 | 20.3 | 23.7 |
| 44 | HM-9 | 20.5 | 26.5 | 12.3 | 15.0 | 16.1 | 18.2 | 23.5 | 18.9 | 30.0 | 16.0 | 11.6 | 19.2 | 20.8 | 24.8 | 19.9 | 22.4 |
| | Loc. Mean | 24.4 | 28.4 | 13.4 | 14.0 | 16.2 | 18.9 | 23.6 | 19.8 | 28.2 | 16.0 | 13.3 | 19.2 | 21.9 | 27.1 | 21.0 | 24.3 |
| | C.D. (5%) | 4.60 | 2.50 | 1.30 | 1.00 | 0.50 | 0.70 | 0.40 | 1.70 | 2.50 | 0.40 | 1.10 | 1.80 | 1.00 | 1.68 | - | 4.49 |
| | C.D. (1%) | 6.10 | 3.40 | 1.70 | 1.30 | 0.70 | 0.90 | 0.50 | 2.30 | 3.30 | 0.60 | 1.50 | 2.40 | 1.30 | | | |
| | C.V. (%) | 11.53 | 5.51 | 5.79 | 4.49 | 1.90 | 2.24 | 1.02 | 8.35 | 5.40 | 1.69 | 5.27 | 5.88 | 7.82 | 3.82 | - | 9.15 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.09 | 0.02 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.40 |

Table No. (Continued)

| SI No | PEDIGREE | PLANT HEIGHT (cm) | | | | | | | | | | Zone Mean | Zone Mean | | | | |
|-------|-----------------|-------------------|-------|-----------|-------|-------|-------|-------|-------|-----------|-------|-----------|-----------|-------|-------|-------|-------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | | | DHOL | JASH | VARA | RANC |
| 1 | PLM-21 | 143.3 | 231.3 | 187.3 | 131.7 | 143.3 | 163.3 | 200.0 | 199.3 | 167.5 | 176.3 | 143.2 | 149.7 | 220.0 | 175.2 | 207.0 | 178.0 |
| 2 | L-183 | 167.3 | 233.3 | 200.3 | 149.0 | 181.7 | 176.7 | 225.0 | 186.3 | 183.7 | 181.3 | 157.5 | 137.2 | 185.0 | 174.7 | 196.3 | 172.0 |
| 3 | EHL-162308 | 140.3 | 244.3 | 192.3 | 137.0 | 155.0 | 156.7 | 210.0 | 207.3 | 173.2 | 169.3 | 140.0 | 138.0 | 170.0 | 179.2 | 204.5 | 166.0 |
| 4 | PMSY-3 | 151.7 | 235.7 | 193.7 | 160.7 | 178.3 | 185.0 | 246.7 | 188.0 | 191.7 | 189.7 | 166.5 | 186.5 | 195.0 | 187.9 | 195.2 | 186.0 |
| 5 | PMSW-4 | 160.3 | 259.7 | 210.0 | 163.3 | 181.7 | 186.7 | 226.7 | 183.3 | 188.3 | 195.0 | 156.7 | 157.5 | 190.0 | 181.5 | 218.3 | 183.0 |
| 6 | PMSQ-5 | 161.7 | 232.3 | 197.0 | 150.0 | 176.7 | 185.0 | 246.7 | 200.3 | 191.7 | 195.3 | 166.8 | 151.7 | 205.0 | 190.4 | 227.5 | 189.0 |
| 7 | HKH-308 | 150.0 | 230.3 | 190.2 | 135.0 | 171.7 | 156.7 | 223.3 | 189.7 | 175.3 | 171.7 | 151.8 | 135.4 | 160.0 | 166.5 | 200.6 | 164.0 |
| 8 | HKH-309 | 151.7 | 226.7 | 189.2 | 155.0 | 158.3 | 160.0 | 210.0 | 188.0 | 174.3 | 179.7 | 144.2 | 143.6 | 215.0 | 175.3 | 211.2 | 178.0 |
| 9 | HKH-310 | 134.7 | 209.7 | 172.2 | 134.0 | 156.7 | 155.0 | 210.0 | 191.3 | 169.4 | 178.0 | 143.3 | 147.4 | 160.0 | 178.9 | 203.9 | 168.0 |
| 10 | MALVIYA MAKKA-2 | 153.3 | 225.0 | 189.2 | 144.7 | 163.3 | 168.3 | 216.7 | 195.0 | 177.6 | 175.3 | 144.0 | 147.9 | 200.0 | 199.8 | 210.4 | 179.0 |
| 11 | HKH-311 | 146.7 | 226.0 | 186.3 | 134.7 | 150.0 | 151.7 | 220.0 | 186.7 | 168.6 | 161.3 | 149.8 | 144.0 | 195.0 | 168.8 | 220.3 | 173.0 |
| 12 | HKH-312 | 158.3 | 227.7 | 193.0 | 146.3 | 168.3 | 171.7 | 243.3 | 185.7 | 183.1 | 166.0 | 148.7 | 150.4 | 190.0 | 179.2 | 217.4 | 175.0 |
| 13 | HKH-313 | 160.0 | 205.3 | 182.7 | 149.3 | 175.0 | 170.0 | 230.0 | 205.3 | 185.9 | 197.3 | 176.0 | 163.7 | 220.0 | 201.5 | 226.9 | 197.0 |
| 14 | EH-1974 | 150.0 | 239.0 | 194.5 | 164.0 | 173.3 | 196.7 | 203.3 | 194.3 | 186.3 | 192.0 | 158.5 | 155.4 | 205.0 | 189.6 | 217.7 | 186.0 |
| 15 | EH-1986 | 156.3 | 222.7 | 189.5 | 148.7 | 151.7 | 156.7 | 206.7 | 199.3 | 172.6 | 182.3 | 154.0 | 146.2 | 185.0 | 180.9 | 213.7 | 177.0 |
| 16 | EH-2025 | 174.7 | 245.0 | 209.8 | 162.7 | 177.3 | 188.3 | 253.3 | 197.0 | 195.7 | 197.7 | 170.5 | 167.2 | 210.0 | 193.5 | 238.9 | 196.0 |
| 17 | VEH-09-1 | 145.0 | 243.0 | 194.0 | 160.0 | 185.0 | 170.0 | 196.7 | 208.0 | 183.9 | 198.3 | 179.5 | 163.3 | 190.0 | 192.8 | 222.7 | 191.0 |
| 18 | VEH-09-2 | 174.7 | 246.3 | 210.5 | 188.0 | 185.0 | 203.3 | 253.3 | 191.3 | 204.2 | 206.3 | 181.7 | 183.8 | 220.0 | 195.9 | 242.7 | 205.0 |
| 19 | REH-2101 | 171.3 | 247.7 | 209.5 | 161.3 | 180.0 | 186.7 | 200.0 | 188.7 | 183.3 | 189.7 | 174.0 | 173.5 | 225.0 | 179.2 | 211.5 | 192.0 |
| 20 | REH-2102 | 183.0 | 263.3 | 223.2 | 180.0 | 188.3 | 183.3 | 246.7 | 200.7 | 199.8 | 199.3 | 184.8 | 193.2 | 220.0 | 201.9 | 230.2 | 204.0 |
| 21 | REH-2103 | 171.0 | 268.3 | 219.7 | 152.7 | 191.7 | 186.7 | 213.3 | 204.0 | 189.7 | 210.3 | 154.2 | 168.1 | 175.0 | 194.6 | 211.7 | 185.0 |
| 22 | JH-31314 | 156.7 | 225.3 | 191.0 | 153.7 | 171.7 | 166.7 | 228.3 | 184.3 | 180.9 | 196.7 | 145.5 | 148.9 | 190.0 | 182.4 | 219.7 | 180.0 |
| 23 | JH-31285 | 171.7 | 238.0 | 204.8 | 156.3 | 162.3 | 198.3 | 236.7 | 196.7 | 190.1 | 175.7 | 168.7 | 165.9 | 220.0 | 187.8 | 244.7 | 193.0 |
| 24 | JH-31336 | 146.0 | 249.3 | 197.7 | 162.7 | 168.3 | 156.7 | 213.3 | 209.3 | 182.1 | 197.3 | 145.3 | 160.3 | 180.0 | 171.8 | 211.5 | 177.0 |

Table No. (Continued)

| SI No | PEDIGREE | PLANT HEIGHT (cm) | | | | | | | | | | | | | | | |
|--------|------------------|-------------------|-------|-----------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
| 25 | JH-31292 | 194.3 | 252.0 | 223.2 | 197.7 | 178.3 | 221.7 | 276.7 | 194.3 | 213.7 | 199.7 | 181.5 | 211.6 | 220.0 | 200.1 | 245.9 | 209.7 |
| 26 | JH-31288 | 155.0 | 250.7 | 202.8 | 168.3 | 155.0 | 170.0 | 200.0 | 196.0 | 177.9 | 194.3 | 166.0 | 162.0 | 190.0 | 178.2 | 207.9 | 183.7 |
| 27 | AH-97001 | 176.3 | 207.7 | 192.0 | 151.0 | 165.0 | 176.7 | 243.3 | 181.3 | 183.5 | 185.3 | 164.3 | 164.4 | 185.0 | 203.0 | 217.5 | 186.7 |
| 28 | HKI1105xHKI163-1 | 153.3 | 214.7 | 184.0 | 141.7 | 164.3 | 165.0 | 216.7 | 186.7 | 174.9 | 163.3 | 152.0 | 147.1 | 200.0 | 179.9 | 212.6 | 175.7 |
| 29 | BML7xHKI163-1 | 193.0 | 212.7 | 202.8 | 172.0 | 185.0 | 190.0 | 250.0 | 199.0 | 199.2 | 192.3 | 163.2 | 150.3 | 200.0 | 195.4 | 229.1 | 188.7 |
| 30 | HKI1128xHKI163-1 | 166.7 | 221.0 | 193.8 | 162.0 | 175.0 | 183.3 | 218.3 | 136.3 | 175.0 | 189.7 | 159.3 | 166.2 | 175.0 | 204.7 | 208.7 | 183.7 |
| 31 | KMH-218 | 168.3 | 247.7 | 208.0 | 145.7 | 150.0 | 171.7 | 243.3 | 195.7 | 181.3 | 188.3 | 152.0 | 155.7 | 165.0 | 179.7 | 225.0 | 177.7 |
| 32 | KMH-3426 | 173.3 | 235.7 | 204.5 | 160.0 | 165.0 | 171.7 | 243.3 | 198.7 | 187.7 | 191.3 | 164.5 | 164.4 | 205.0 | 198.5 | 237.5 | 193.7 |
| 33 | LAXMI306 | 170.0 | 240.3 | 205.2 | 157.0 | 160.0 | 183.3 | 230.0 | 188.3 | 183.7 | 193.0 | 154.3 | 147.8 | 160.0 | 171.5 | 207.6 | 172.7 |
| 34 | MUKHYA-108 | 181.7 | 249.3 | 215.5 | 180.3 | 195.0 | 191.7 | 260.0 | 188.0 | 203.0 | 196.7 | 179.7 | 189.1 | 195.0 | 209.1 | 242.8 | 202.7 |
| 35 | SARPUNCH-171 | 171.3 | 254.0 | 212.7 | 128.7 | 165.0 | 171.7 | 230.0 | 202.3 | 179.5 | 186.7 | 164.5 | 167.7 | 195.0 | 191.0 | 208.3 | 185.7 |
| 36 | KDMH-017 | 171.7 | 217.7 | 194.7 | 168.7 | 181.7 | 185.0 | 243.3 | 190.7 | 193.9 | 188.3 | 158.8 | 179.2 | 225.0 | 181.6 | 222.9 | 192.7 |
| 37 | NMH-803 | 169.7 | 239.0 | 204.3 | 177.3 | 158.3 | 176.7 | 243.3 | 203.7 | 191.9 | 203.3 | 160.8 | 182.6 | 215.0 | 200.2 | 232.1 | 199.7 |
| 38 | X8B557 | 206.3 | 236.7 | 221.5 | 195.7 | 193.3 | 220.0 | 270.0 | 202.0 | 216.2 | 211.0 | 186.8 | 205.4 | 205.0 | 225.2 | 273.5 | 217.7 |
| 39 | X8B691 | 189.7 | 258.7 | 224.2 | 185.7 | 190.0 | 198.3 | 271.7 | 208.3 | 210.8 | 204.3 | 188.5 | 191.3 | 220.0 | 207.0 | 245.3 | 209.7 |
| 40 | MCH-41 | 204.7 | 253.3 | 229.0 | 171.0 | 181.7 | 200.0 | 250.0 | 206.0 | 201.7 | 194.3 | 177.5 | 195.0 | 235.0 | 198.5 | 253.1 | 208.7 |
| 41 | MCH-42 | 175.0 | 234.7 | 204.8 | 167.7 | 190.0 | 185.0 | 253.3 | 195.3 | 198.3 | 197.7 | 164.7 | 148.9 | 215.0 | 204.1 | 235.0 | 194.7 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 164.7 | 245.0 | 204.8 | 155.7 | 166.7 | 181.7 | 206.7 | 193.7 | 180.9 | 190.3 | 168.8 | 171.0 | 210.0 | 193.2 | 221.5 | 192.7 |
| 43 | BIO-9637 | 168.0 | 223.0 | 195.5 | 168.3 | 185.0 | 180.0 | 250.0 | 201.0 | 196.9 | 200.0 | 162.2 | 157.9 | 215.0 | 194.5 | 228.2 | 193.7 |
| 44 | HM-9 | 176.7 | 222.7 | 199.7 | 134.0 | 156.7 | 151.7 | 233.3 | 189.3 | 173.0 | 169.7 | 141.8 | 153.8 | 180.0 | 182.5 | 230.2 | 176.7 |
| | Loc. Mean | 166.1 | 236.2 | 201.1 | 158.4 | 171.7 | 178.5 | 231.7 | 194.0 | 186.9 | 189.1 | 161.7 | 163.4 | 198.5 | 189.3 | 222.5 | 187.7 |
| | C.D. (5%) | 15.7 | 11.7 | 27.2 | 23.2 | 29.6 | 19.8 | 24.6 | 28.5 | 15.2 | 19.8 | 20.4 | 10.4 | - | 24.7 | 24.2 | 11.7 |
| | C.D. (1%) | 20.8 | 15.5 | 36.4 | 30.8 | 39.3 | 26.3 | 32.6 | 37.8 | 20.1 | 26.3 | 27.1 | 13.7 | - | 32.7 | 32.0 | 15.7 |
| | C.V. (%) | 5.8 | 3.1 | 6.7 | 9.0 | 10.6 | 6.8 | 6.5 | 9.1 | 6.5 | 6.5 | 7.8 | 3.9 | - | 8.0 | 6.7 | 5.8 |
| | F (Prob.) | 0.00 | 0.00 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |

Table No. (Continued)

| SI No | PEDIGREE | PLANT HEIGHT (cm) | | | | | | | | | | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|-------|-----------------|-------------------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-----------|-----------|------|------|-----------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | UDAI | BANS | CHHI | | | | | |
| 1 | PLM-21 | 162.5 | 230.0 | 189.7 | 160.0 | 193.0 | 194.7 | 188.3 | 180.0 | 165.4 | 186.7 | 177.3 | 179.3 | 195 | 187 | 191 |
| 2 | L-183 | 175.5 | 216.7 | 192.3 | 150.0 | 199.0 | 188.5 | 187.0 | 195.0 | 176.7 | 179.3 | 183.7 | 182.9 | 196 | 183 | 189 |
| 3 | EHL-162308 | 160.5 | 215.0 | 183.7 | 163.3 | 203.3 | 183.7 | 184.9 | 206.7 | 178.9 | 170.7 | 185.4 | 178.1 | 194 | 175 | 185 |
| 4 | PMSY-3 | 175.5 | 216.7 | 204.7 | 190.0 | 201.3 | 203.1 | 198.5 | 171.7 | 178.6 | 182.3 | 177.5 | 190.5 | 175 | 198 | 186 |
| 5 | PMSW-4 | 178.5 | 213.3 | 206.0 | 185.0 | 196.0 | 205.6 | 197.4 | 190.0 | 170.3 | 190.0 | 183.4 | 190.7 | 198 | 189 | 194 |
| 6 | PMSQ-5 | 178.0 | 211.7 | 204.0 | 173.3 | 189.3 | 217.5 | 195.6 | 198.3 | 205.4 | 193.3 | 199.0 | 193.7 | 193 | 195 | 194 |
| 7 | HKH-308 | 167.0 | 212.3 | 204.3 | 166.7 | 182.7 | 182.3 | 185.9 | 195.0 | 171.3 | 180.0 | 182.1 | 177.5 | 184 | 163 | 173 |
| 8 | HKH-309 | 182.0 | 248.3 | 204.3 | 143.3 | 194.0 | 198.4 | 195.1 | 213.3 | 178.0 | 183.0 | 191.5 | 184.7 | 183 | 201 | 192 |
| 9 | HKH-310 | 167.0 | 203.3 | 203.3 | 171.7 | 203.7 | 189.9 | 189.8 | 196.7 | 181.8 | 175.7 | 184.7 | 177.1 | 181 | 185 | 183 |
| 10 | MALVIYA MAKKA-2 | 167.0 | 193.3 | 190.7 | 165.0 | 192.0 | 186.7 | 182.4 | 168.3 | 173.2 | 169.7 | 170.4 | 179.5 | 177 | 188 | 183 |
| 11 | HKH-311 | 178.5 | 216.7 | 199.0 | 176.7 | 198.7 | 190.3 | 193.3 | 185.0 | 160.5 | 179.0 | 174.8 | 179.1 | 199 | 185 | 192 |
| 12 | HKH-312 | 180.5 | 219.7 | 191.3 | 173.3 | 194.7 | 201.3 | 193.5 | 193.3 | 163.5 | 165.7 | 174.2 | 183.5 | 172 | 188 | 180 |
| 13 | HKH-313 | 187.0 | 246.7 | 192.7 | 170.0 | 195.3 | 209.9 | 200.3 | 213.3 | 194.8 | 195.0 | 201.1 | 194.8 | 207 | 201 | 204 |
| 14 | EH-1974 | 189.0 | 241.7 | 198.0 | 178.3 | 206.0 | 196.9 | 201.7 | 194.3 | 183.1 | 188.3 | 188.6 | 191.6 | 221 | 185 | 203 |
| 15 | EH-1986 | 182.5 | 208.3 | 200.0 | 178.3 | 200.7 | 201.4 | 195.2 | 205.0 | 171.6 | 184.0 | 186.9 | 183.5 | 194 | 185 | 190 |
| 16 | EH-2025 | 202.0 | 240.0 | 215.0 | 183.3 | 202.7 | 229.3 | 212.1 | 221.7 | 210.1 | 207.3 | 213.0 | 204.0 | 204 | 191 | 198 |
| 17 | VEH-09-1 | 180.5 | 236.7 | 202.7 | 193.3 | 205.7 | 205.0 | 204.0 | 206.7 | 175.5 | 186.3 | 189.5 | 193.0 | 211 | 189 | 200 |
| 18 | VEH-09-2 | 201.0 | 243.3 | 220.7 | 191.7 | 210.7 | 221.3 | 214.8 | 215.0 | 176.8 | 196.7 | 196.2 | 206.8 | 214 | 192 | 203 |
| 19 | REH-2101 | 183.0 | 233.3 | 204.3 | 183.3 | 203.7 | 197.5 | 200.9 | 200.0 | 192.6 | 180.0 | 190.9 | 193.9 | 190 | 183 | 186 |
| 20 | REH-2102 | 192.0 | 226.0 | 213.0 | 181.7 | 199.7 | 202.5 | 202.5 | 221.7 | 181.1 | 202.3 | 201.7 | 204.3 | 180 | 180 | 180 |
| 21 | REH-2103 | 181.0 | 196.7 | 200.7 | 166.7 | 198.3 | 200.1 | 190.6 | 203.3 | 167.9 | 168.3 | 179.9 | 190.2 | 158 | 175 | 167 |
| 22 | JH-31314 | 180.5 | 215.0 | 203.3 | 166.7 | 204.7 | 205.0 | 195.9 | 200.0 | 184.3 | 196.7 | 193.7 | 187.5 | 168 | 187 | 178 |
| 23 | JH-31285 | 189.5 | 238.3 | 223.3 | 175.0 | 211.3 | 208.5 | 207.7 | 213.3 | 177.8 | 203.3 | 198.2 | 198.3 | 208 | 196 | 202 |
| 24 | JH-31336 | 152.0 | 216.7 | 191.3 | 146.7 | 197.3 | 183.5 | 181.2 | 196.7 | 171.2 | 178.0 | 181.9 | 182.1 | 204 | 185 | 194 |

Table No. (Continued)

| SI No | PEDIGREE | PLANT HEIGHT (cm) | | | | | | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|--------|------------------|-------------------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-----------|-----------|------|------|-----------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | | | | | | | |
| 25 | JH-31292 | 200.0 | 255.3 | 239.7 | 200.0 | 204.3 | 224.1 | 220.6 | 230.0 | 204.8 | 216.7 | 217.2 | 215.8 | 200 | 224 | 212 |
| 26 | JH-31288 | 179.5 | 206.0 | 201.0 | 188.3 | 206.0 | 207.1 | 198.0 | 205.0 | 184.6 | 189.0 | 192.9 | 189.1 | 213 | 185 | 199 |
| 27 | AH-97001 | 172.5 | 210.0 | 187.7 | 173.3 | 198.3 | 202.9 | 190.8 | 216.7 | 177.0 | 195.7 | 196.4 | 188.9 | 172 | 186 | 179 |
| 28 | HKI1105xHKI163-1 | 182.0 | 210.0 | 195.7 | 158.3 | 196.0 | 188.9 | 188.5 | 201.7 | 174.4 | 180.0 | 185.4 | 181.1 | 187 | 175 | 181 |
| 29 | BML7xHKI163-1 | 187.0 | 235.0 | 198.3 | 193.3 | 197.0 | 211.5 | 203.7 | 230.0 | 180.7 | 208.3 | 206.3 | 198.8 | 195 | 211 | 203 |
| 30 | HKI1128xHKI163-1 | 187.0 | 243.3 | 216.7 | 171.7 | 201.3 | 204.2 | 204.0 | 210.0 | 173.7 | 190.0 | 191.2 | 189.3 | 191 | 199 | 195 |
| 31 | KMH-218 | 188.0 | 226.7 | 210.0 | 195.0 | 193.7 | 200.6 | 202.3 | 203.3 | 176.8 | 186.7 | 188.9 | 189.5 | 205 | 196 | 201 |
| 32 | KMH-3426 | 184.0 | 229.7 | 219.3 | 170.0 | 213.0 | 202.5 | 203.1 | 213.3 | 187.2 | 177.3 | 192.6 | 195.7 | 185 | 198 | 192 |
| 33 | LAXMI306 | 188.5 | 206.7 | 182.0 | 170.0 | 183.3 | 194.1 | 187.4 | 206.7 | 165.3 | 187.3 | 186.4 | 184.0 | 166 | 194 | 180 |
| 34 | MUKHYA-108 | 194.0 | 248.3 | 201.3 | 185.0 | 187.7 | 219.9 | 206.0 | 233.3 | 190.6 | 201.7 | 208.5 | 205.5 | 173 | 195 | 184 |
| 35 | SARPUNCH-171 | 174.5 | 191.7 | 199.0 | 166.7 | 207.7 | 191.9 | 188.6 | 210.0 | 173.1 | 186.0 | 189.7 | 188.0 | 193 | 185 | 189 |
| 36 | KDMH-017 | 184.0 | 246.7 | 212.3 | 196.7 | 217.3 | 223.7 | 213.4 | 206.7 | 195.2 | 208.3 | 203.4 | 200.2 | 171 | 198 | 185 |
| 37 | NMH-803 | 182.0 | 246.7 | 211.0 | 180.0 | 205.7 | 215.7 | 206.8 | 226.7 | 182.0 | 201.7 | 203.5 | 200.6 | 228 | 213 | 220 |
| 38 | X8B557 | 215.0 | 270.0 | 250.3 | 211.7 | 213.0 | 238.6 | 233.1 | 210.0 | 217.9 | 211.7 | 213.2 | 221.3 | 231 | 211 | 221 |
| 39 | X8B691 | 212.0 | 231.0 | 221.7 | 210.0 | 212.0 | 216.9 | 217.3 | 256.7 | 211.4 | 199.0 | 222.4 | 215.0 | 239 | 199 | 219 |
| 40 | MCH-41 | 189.5 | 241.7 | 228.3 | 205.0 | 215.3 | 209.9 | 215.0 | 228.3 | 200.4 | 194.0 | 207.6 | 210.6 | 208 | 205 | 207 |
| 41 | MCH-42 | 186.5 | 250.0 | 221.0 | 181.7 | 195.3 | 201.8 | 206.1 | 216.7 | 176.1 | 213.3 | 202.0 | 200.4 | 203 | 192 | 198 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 191.5 | 226.7 | 226.3 | 185.0 | 200.7 | 202.4 | 205.4 | 251.7 | 176.5 | 205.7 | 211.3 | 197.1 | 195 | 180 | 188 |
| 43 | BIO-9637 | 197.0 | 241.7 | 210.7 | 150.0 | 200.7 | 205.3 | 200.9 | 211.7 | 190.0 | 201.7 | 201.1 | 197.4 | 191 | 193 | 192 |
| 44 | HM-9 | 177.5 | 220.0 | 203.0 | 161.7 | 195.0 | 182.7 | 190.0 | 186.7 | 167.6 | 191.7 | 182.0 | 182.2 | 202 | 177 | 189 |
| | Loc. Mean | 183.3 | 226.7 | 206.2 | 177.0 | 200.6 | 203.4 | 199.5 | 207.7 | 181.7 | 190.6 | 193.4 | 192.7 | 194 | 191 | 193 |
| | C.D. (5%) | 15.4 | 15.9 | 14.4 | 38.9 | 21.5 | 6.6 | 10.7 | 27.0 | 7.7 | 22.8 | 16.5 | 6.4 | 33.9 | 25.2 | 25.1 |
| | C.D. (1%) | 20.4 | 21.1 | 19.1 | 51.6 | 28.4 | 8.7 | 14.1 | 35.7 | 10.2 | 30.2 | 21.8 | 8.5 | | | |
| | C.V. (%) | 5.2 | 4.3 | 4.3 | 13.6 | 6.6 | 2.0 | 4.7 | 8.0 | 2.6 | 7.4 | 5.3 | 5.7 | 10.7 | 8.1 | 6.5 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.12 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 |

Table No. 2 (Continued)

| SI No | PEDIGREE | EAR HEIGHT (cm) | | | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
|-------|-----------------|-----------------|-------|-----------|------|-------|-------|-------|-------|-----------|-------|------|------|-------|-------|------|-----------|
| | | BAJA | KANG | Zone Mean | | | | | | | | | | | | | |
| 1 | PLM-21 | 69.7 | 119.0 | 94.3 | 64.3 | 78.7 | 88.3 | 80.0 | 88.0 | 79.9 | 124.3 | 63.3 | 68.0 | 125.0 | 84.2 | 76.1 | 90.2 |
| 2 | L-183 | 85.0 | 124.3 | 104.7 | 80.0 | 92.7 | 81.7 | 93.3 | 86.7 | 86.9 | 89.3 | 66.7 | 65.4 | 100.0 | 82.1 | 75.1 | 79.8 |
| 3 | EHL-162308 | 60.0 | 117.7 | 88.8 | 66.0 | 81.7 | 73.3 | 71.7 | 99.3 | 78.4 | 91.0 | 59.2 | 52.5 | 85.0 | 85.3 | 58.5 | 71.9 |
| 4 | PMSY-3 | 68.3 | 114.0 | 91.2 | 81.7 | 92.7 | 103.3 | 100.0 | 85.3 | 92.6 | 98.3 | 83.5 | 76.9 | 110.0 | 93.1 | 80.7 | 90.4 |
| 5 | PMSW-4 | 80.0 | 119.3 | 99.7 | 89.7 | 120.0 | 100.0 | 93.3 | 76.3 | 95.9 | 97.0 | 80.7 | 65.5 | 100.0 | 93.1 | 74.0 | 85.1 |
| 6 | PMSQ-5 | 73.3 | 108.0 | 90.7 | 68.3 | 98.3 | 95.0 | 90.0 | 101.3 | 90.6 | 100.7 | 80.0 | 53.0 | 105.0 | 97.8 | 76.2 | 85.4 |
| 7 | HKH-308 | 80.0 | 97.7 | 88.8 | 62.3 | 85.0 | 75.0 | 91.7 | 91.7 | 81.1 | 89.3 | 72.3 | 55.1 | 70.0 | 85.0 | 69.3 | 73.5 |
| 8 | HKH-309 | 70.0 | 104.7 | 87.3 | 68.3 | 86.7 | 76.7 | 81.7 | 95.0 | 81.7 | 97.7 | 64.3 | 55.5 | 110.0 | 85.5 | 71.1 | 80.7 |
| 9 | HKH-310 | 66.0 | 100.3 | 83.2 | 54.7 | 76.7 | 66.7 | 78.3 | 81.3 | 71.5 | 113.7 | 61.2 | 53.4 | 65.0 | 80.0 | 56.6 | 71.6 |
| 10 | MALVIYA MAKKA-2 | 66.7 | 115.7 | 91.2 | 65.0 | 83.3 | 80.0 | 86.7 | 91.3 | 81.3 | 101.7 | 69.0 | 69.3 | 110.0 | 96.0 | 74.8 | 86.8 |
| 11 | HKH-311 | 55.0 | 120.0 | 87.5 | 59.0 | 83.3 | 68.3 | 80.0 | 80.3 | 74.2 | 81.7 | 69.5 | 53.4 | 100.0 | 83.5 | 64.6 | 75.4 |
| 12 | HKH-312 | 66.3 | 121.7 | 94.0 | 64.0 | 88.3 | 70.0 | 91.7 | 80.3 | 78.9 | 80.0 | 66.0 | 53.9 | 95.0 | 84.7 | 67.5 | 74.5 |
| 13 | HKH-313 | 81.7 | 99.3 | 90.5 | 76.0 | 100.0 | 83.3 | 110.0 | 98.7 | 93.6 | 109.7 | 84.7 | 65.7 | 115.0 | 108.3 | 85.3 | 94.8 |
| 14 | EH-1974 | 73.3 | 113.3 | 93.3 | 60.7 | 113.3 | 93.3 | 81.7 | 76.3 | 85.1 | 101.7 | 66.3 | 56.9 | 90.0 | 93.1 | 74.7 | 80.5 |
| 15 | EH-1986 | 73.3 | 120.0 | 96.7 | 73.0 | 90.0 | 75.0 | 91.7 | 90.3 | 84.0 | 94.0 | 68.8 | 56.6 | 100.0 | 91.5 | 69.3 | 80.0 |
| 16 | EH-2025 | 85.0 | 113.3 | 99.2 | 79.7 | 91.7 | 88.3 | 106.7 | 93.3 | 91.9 | 116.0 | 75.3 | 68.3 | 95.0 | 100.0 | 96.3 | 91.8 |
| 17 | VEH-09-1 | 72.7 | 124.3 | 98.5 | 79.7 | 92.3 | 75.0 | 76.7 | 92.7 | 83.3 | 101.0 | 85.2 | 61.9 | 80.0 | 98.2 | 81.8 | 84.7 |
| 18 | VEH-09-2 | 78.3 | 120.0 | 99.2 | 90.0 | 106.7 | 113.3 | 103.3 | 91.7 | 101.0 | 105.0 | 84.8 | 75.4 | 125.0 | 99.0 | 90.3 | 96.6 |
| 19 | REH-2101 | 88.3 | 109.3 | 98.8 | 77.7 | 88.3 | 98.3 | 93.3 | 90.3 | 89.6 | 92.7 | 86.0 | 72.4 | 130.0 | 96.9 | 79.1 | 92.8 |
| 20 | REH-2102 | 78.3 | 113.3 | 95.8 | 83.0 | 98.3 | 91.7 | 96.7 | 97.3 | 93.4 | 109.0 | 85.0 | 87.9 | 130.0 | 106.1 | 83.8 | 100.3 |
| 21 | REH-2103 | 88.3 | 122.3 | 105.3 | 87.0 | 107.3 | 105.0 | 85.0 | 99.7 | 96.8 | 104.7 | 83.7 | 71.9 | 95.0 | 99.8 | 83.9 | 89.8 |
| 22 | JH-31314 | 71.7 | 107.0 | 89.3 | 76.3 | 93.3 | 70.0 | 80.0 | 92.0 | 82.3 | 109.0 | 63.3 | 57.9 | 95.0 | 87.3 | 76.7 | 81.5 |
| 23 | JH-31285 | 93.3 | 111.7 | 102.5 | 75.3 | 90.7 | 103.3 | 106.7 | 104.7 | 96.1 | 97.3 | 87.7 | 70.1 | 120.0 | 94.4 | 95.7 | 94.2 |
| 24 | JH-31336 | 75.0 | 115.3 | 95.2 | 82.3 | 103.3 | 78.3 | 90.0 | 102.7 | 91.3 | 103.3 | 68.2 | 62.6 | 95.0 | 84.3 | 78.8 | 82.0 |

Table No. 2 (Continued)

| SI No | PEDIGREE | EAR HEIGHT (cm) | | | | | | | | | | | | | | | |
|--------|------------------|-----------------|-------|-----------|-------|-------|-------|-------|-------|-----------|-------|------|-------|-------|-------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
| 25 | JH-31292 | 100.0 | 116.3 | 108.2 | 102.0 | 94.0 | 110.0 | 116.7 | 82.0 | 100.9 | 119.3 | 95.5 | 103.5 | 115.0 | 102.1 | 95.5 | 105.2 |
| 26 | JH-31288 | 86.7 | 133.3 | 110.0 | 89.3 | 76.7 | 78.3 | 91.7 | 94.0 | 86.0 | 100.0 | 94.3 | 66.3 | 105.0 | 93.1 | 84.5 | 90.5 |
| 27 | AH-97001 | 80.0 | 106.7 | 93.3 | 73.0 | 101.7 | 86.7 | 90.0 | 78.7 | 86.0 | 106.3 | 79.8 | 63.2 | 85.0 | 95.1 | 78.1 | 84.6 |
| 28 | HKI1105xHKI163-1 | 83.3 | 101.0 | 92.2 | 69.3 | 86.7 | 85.0 | 91.7 | 84.7 | 83.5 | 85.3 | 69.1 | 57.5 | 105.0 | 87.8 | 70.5 | 79.2 |
| 29 | BML7xHKI163-1 | 83.3 | 105.7 | 94.5 | 80.3 | 95.7 | 88.3 | 98.3 | 91.0 | 90.7 | 100.3 | 76.2 | 54.7 | 90.0 | 92.6 | 72.5 | 81.0 |
| 30 | HKI1128xHKI163-1 | 66.7 | 119.0 | 92.8 | 76.3 | 96.7 | 85.0 | 88.3 | 85.0 | 86.3 | 95.7 | 68.3 | 62.3 | 80.0 | 100.5 | 74.9 | 80.3 |
| 31 | KMH-218 | 101.7 | 112.3 | 107.0 | 79.3 | 85.0 | 86.7 | 110.0 | 79.0 | 88.0 | 111.7 | 74.8 | 70.1 | 115.0 | 92.7 | 93.5 | 93.0 |
| 32 | KMH-3426 | 85.0 | 113.0 | 99.0 | 64.0 | 95.0 | 88.3 | 101.7 | 87.3 | 87.3 | 104.3 | 81.5 | 63.2 | 125.0 | 96.1 | 89.6 | 93.3 |
| 33 | LAXMI306 | 84.7 | 124.0 | 104.3 | 81.3 | 91.7 | 103.3 | 93.3 | 90.3 | 92.0 | 101.0 | 71.5 | 64.6 | 75.0 | 85.9 | 75.3 | 78.9 |
| 34 | MUKHYA-108 | 80.0 | 114.7 | 97.3 | 84.7 | 96.7 | 81.7 | 393.3 | 84.3 | 148.1 | 101.7 | 77.3 | 77.3 | 90.0 | 98.5 | 77.0 | 87.0 |
| 35 | SARPUNCH-171 | 86.3 | 127.3 | 106.8 | 71.7 | 86.7 | 90.0 | 101.7 | 94.7 | 88.9 | 101.7 | 88.3 | 83.2 | 120.0 | 103.1 | 83.0 | 96.6 |
| 36 | KDMH-017 | 77.3 | 116.0 | 96.7 | 87.3 | 103.3 | 95.0 | 96.7 | 86.0 | 93.7 | 101.3 | 71.5 | 75.0 | 130.0 | 91.5 | 81.9 | 91.9 |
| 37 | NMH-803 | 73.3 | 120.0 | 96.7 | 79.3 | 90.0 | 78.3 | 93.3 | 91.7 | 86.5 | 98.3 | 67.2 | 63.7 | 95.0 | 97.4 | 72.9 | 82.4 |
| 38 | X8B557 | 96.7 | 121.0 | 108.8 | 87.3 | 91.7 | 101.7 | 120.0 | 96.3 | 99.4 | 110.0 | 78.5 | 79.8 | 95.0 | 110.8 | 98.9 | 95.5 |
| 39 | X8B691 | 82.7 | 122.0 | 102.3 | 91.7 | 108.3 | 103.3 | 106.7 | 87.7 | 99.5 | 102.0 | 91.7 | 75.7 | 105.0 | 100.7 | 89.8 | 94.1 |
| 40 | MCH-41 | 106.7 | 123.0 | 114.8 | 86.3 | 80.0 | 98.3 | 111.7 | 96.0 | 94.5 | 113.0 | 92.3 | 94.9 | 115.0 | 98.1 | 95.3 | 101.4 |
| 41 | MCH-42 | 81.7 | 121.7 | 101.7 | 72.7 | 101.7 | 93.3 | 110.0 | 101.7 | 95.9 | 99.3 | 85.0 | 61.7 | 140.0 | 102.5 | 84.0 | 95.4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 76.7 | 119.0 | 97.8 | 76.0 | 100.0 | 100.0 | 83.3 | 87.3 | 89.3 | 110.3 | 87.2 | 64.0 | 110.0 | 101.5 | 78.5 | 91.9 |
| 43 | BIO-9637 | 76.0 | 118.0 | 97.0 | 79.7 | 96.7 | 75.0 | 90.0 | 104.3 | 89.1 | 99.7 | 67.2 | 58.1 | 100.0 | 94.7 | 83.4 | 83.8 |
| 44 | HM-9 | 90.0 | 112.0 | 101.0 | 63.0 | 86.7 | 71.7 | 83.3 | 86.3 | 78.2 | 92.3 | 69.2 | 64.1 | 100.0 | 84.7 | 75.9 | 81.0 |
| | Loc. Mean | 79.5 | 115.4 | 97.5 | 76.3 | 93.3 | 87.6 | 100.7 | 90.3 | 89.7 | 101.4 | 76.4 | 66.6 | 103.2 | 94.1 | 79.4 | 86.8 |
| | C.D. (5%) | 17.1 | 11.8 | 18.1 | 23.9 | 18.7 | 19.1 | 128.8 | 15.0 | 27.3 | 24.9 | 16.7 | 5.9 | - | 15.5 | 12.3 | 9.5 |
| | C.D. (1%) | 22.7 | 15.6 | 24.2 | 31.7 | 24.8 | 25.3 | 170.7 | 19.9 | 36.0 | 33.0 | 22.1 | 7.8 | - | 20.5 | 16.2 | 12.5 |
| | C.V. (%) | 13.3 | 6.3 | 9.2 | 19.3 | 12.3 | 13.4 | 78.8 | 10.3 | 24.4 | 15.1 | 13.5 | 5.4 | - | 10.1 | 9.5 | 9.6 |
| | F (Prob.) | 0.00 | 0.00 | 0.29 | 0.08 | 0.00 | 0.00 | 0.44 | 0.00 | 0.08 | 0.36 | 0.00 | 0.00 | - | 0.01 | 0.00 | 0.00 |

Table No. 2 (Continued)

| SI No | PEDIGREE | EAR HEIGHT (cm) | | | | | | Zone | | | | OV'L | | OV'L | | |
|-------|-----------------|-----------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | UDHA | GODH | Mean |
| 1 | PLM-21 | 87.5 | 83.3 | 75.3 | 83.3 | 92.3 | 101.8 | 87.3 | 95.0 | 66.1 | 89.0 | 83.4 | 86.5 | 94 | 83 | 89 |
| 2 | L-183 | 90.0 | 87.3 | 93.0 | 78.3 | 106.3 | 102.0 | 92.8 | 103.3 | 78.1 | 97.7 | 93.0 | 89.0 | 82 | 81 | 81 |
| 3 | EHL-162308 | 86.0 | 69.3 | 70.0 | 86.7 | 106.0 | 102.3 | 86.7 | 103.3 | 86.4 | 74.7 | 88.1 | 81.2 | 83 | 76 | 80 |
| 4 | PMSY-3 | 100.5 | 95.7 | 85.7 | 95.0 | 97.0 | 116.4 | 98.4 | 105.0 | 77.4 | 98.3 | 93.6 | 93.6 | 78 | 95 | 86 |
| 5 | PMSW-4 | 91.5 | 91.7 | 75.3 | 96.7 | 105.0 | 116.9 | 96.2 | 86.7 | 74.1 | 88.7 | 83.1 | 91.6 | 101 | 90 | 96 |
| 6 | PMSQ-5 | 103.0 | 101.7 | 82.0 | 93.3 | 87.7 | 120.3 | 98.0 | 90.0 | 82.7 | 96.7 | 89.8 | 91.1 | 87 | 91 | 89 |
| 7 | HKH-308 | 94.5 | 91.7 | 75.3 | 93.3 | 91.0 | 103.7 | 91.6 | 93.3 | 66.3 | 97.0 | 85.5 | 83.2 | 84 | 76 | 80 |
| 8 | HKH-309 | 93.0 | 84.3 | 84.3 | 101.7 | 96.3 | 107.7 | 94.6 | 108.3 | 81.6 | 89.7 | 93.2 | 87.0 | 85 | 93 | 89 |
| 9 | HKH-310 | 79.0 | 73.3 | 68.7 | 88.3 | 107.0 | 94.5 | 85.1 | 91.7 | 74.6 | 83.3 | 83.2 | 77.9 | 75 | 67 | 71 |
| 10 | MALVIYA MAKKA-2 | 89.5 | 76.7 | 82.0 | 85.0 | 104.3 | 101.1 | 89.8 | 90.0 | 60.2 | 78.0 | 76.1 | 85.3 | 76 | 91 | 83 |
| 11 | HKH-311 | 99.0 | 80.0 | 73.0 | 85.0 | 101.7 | 106.4 | 90.8 | 83.3 | 61.2 | 79.0 | 74.5 | 80.3 | 86 | 84 | 85 |
| 12 | HKH-312 | 89.5 | 86.7 | 77.0 | 85.0 | 90.0 | 106.3 | 89.1 | 88.3 | 65.0 | 71.7 | 75.0 | 81.3 | 73 | 83 | 78 |
| 13 | HKH-313 | 109.5 | 100.0 | 83.3 | 91.7 | 96.0 | 129.9 | 101.7 | 120.0 | 92.8 | 100.7 | 104.5 | 97.3 | 114 | 99 | 107 |
| 14 | EH-1974 | 91.0 | 91.7 | 70.7 | 91.7 | 113.7 | 103.9 | 93.8 | 80.0 | 71.6 | 88.3 | 80.0 | 86.2 | 84 | 89 | 87 |
| 15 | EH-1986 | 102.5 | 74.3 | 88.0 | 95.0 | 106.0 | 108.5 | 95.7 | 105.0 | 71.6 | 83.3 | 86.6 | 87.6 | 83 | 89 | 86 |
| 16 | EH-2025 | 111.5 | 110.0 | 86.0 | 90.0 | 119.3 | 128.1 | 107.5 | 116.7 | 102.5 | 109.0 | 109.4 | 99.2 | 100 | 107 | 104 |
| 17 | VEH-09-1 | 99.5 | 91.0 | 75.7 | 96.7 | 97.7 | 113.0 | 95.6 | 110.0 | 65.3 | 89.0 | 88.1 | 89.1 | 98 | 91 | 94 |
| 18 | VEH-09-2 | 109.0 | 96.7 | 86.0 | 100.0 | 113.0 | 124.4 | 104.8 | 126.7 | 91.3 | 103.3 | 107.1 | 101.5 | 108 | 93 | 100 |
| 19 | REH-2101 | 102.5 | 88.3 | 84.3 | 100.0 | 107.3 | 116.9 | 99.9 | 95.0 | 82.7 | 100.7 | 92.8 | 94.6 | 95 | 87 | 91 |
| 20 | REH-2102 | 108.0 | 102.7 | 90.0 | 91.7 | 106.0 | 113.2 | 101.9 | 115.0 | 82.0 | 108.7 | 101.9 | 99.0 | 84 | 78 | 81 |
| 21 | REH-2103 | 98.5 | 72.3 | 90.0 | 83.3 | 106.7 | 111.0 | 93.6 | 123.3 | 86.3 | 94.0 | 101.2 | 95.4 | 83 | 86 | 84 |
| 22 | JH-31314 | 96.0 | 81.7 | 77.0 | 80.0 | 106.7 | 115.7 | 92.8 | 86.7 | 84.4 | 89.0 | 86.7 | 86.2 | 85 | 86 | 85 |
| 23 | JH-31285 | 112.0 | 114.3 | 81.3 | 90.0 | 117.7 | 122.0 | 106.2 | 108.3 | 76.7 | 104.0 | 96.3 | 99.0 | 101 | 94 | 97 |
| 24 | JH-31336 | 117.5 | 96.7 | 78.0 | 75.0 | 98.7 | 113.3 | 96.5 | 106.7 | 74.1 | 80.0 | 86.9 | 90.0 | 93 | 88 | 91 |

Table No. 2 (Continued)

| SI No | PEDIGREE | EAR HEIGHT (cm) | | | | | | Zone | | | | OV'L | | OV'L | | |
|--------|------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | UDHA | GODH | Mean |
| 25 | JH-31292 | 114.5 | 122.7 | 99.7 | 96.7 | 111.3 | 133.9 | 113.1 | 125.0 | 114.8 | 121.3 | 120.4 | 108.7 | 86 | 112 | 99 |
| 26 | JH-31288 | 102.0 | 100.0 | 86.3 | 96.7 | 111.3 | 115.1 | 101.9 | 105.0 | 81.4 | 103.0 | 96.5 | 95.2 | 120 | 93 | 107 |
| 27 | AH-97001 | 97.0 | 83.3 | 82.0 | 81.7 | 100.7 | 111.8 | 92.7 | 110.0 | 92.7 | 99.7 | 100.8 | 90.1 | 79 | 82 | 80 |
| 28 | HKI1105xHKI163-1 | 91.0 | 88.7 | 73.0 | 90.0 | 99.3 | 104.7 | 91.1 | 105.0 | 68.1 | 84.0 | 85.7 | 85.5 | 77 | 82 | 80 |
| 29 | BML7xHKI163-1 | 92.5 | 71.7 | 98.3 | 98.3 | 104.3 | 114.5 | 96.6 | 118.3 | 82.5 | 95.0 | 98.6 | 91.1 | 83 | 96 | 89 |
| 30 | HKI1128xHKI163-1 | 98.5 | 79.3 | 77.7 | 96.7 | 100.3 | 121.7 | 95.7 | 105.0 | 66.1 | 90.0 | 87.0 | 87.9 | 102 | 99 | 100 |
| 31 | KMH-218 | 119.5 | 96.7 | 99.0 | 101.7 | 97.3 | 121.6 | 106.0 | 111.7 | 91.4 | 109.7 | 104.2 | 98.2 | 96 | 102 | 99 |
| 32 | KMH-3426 | 95.5 | 98.3 | 84.0 | 76.7 | 107.3 | 115.7 | 96.3 | 113.3 | 83.4 | 98.3 | 98.3 | 93.9 | 93 | 99 | 96 |
| 33 | LAXMI306 | 113.0 | 76.7 | 71.0 | 88.3 | 96.3 | 105.9 | 91.9 | 105.0 | 58.2 | 97.0 | 86.7 | 88.8 | 83 | 102 | 93 |
| 34 | MUKHYA-108 | 102.5 | 93.3 | 88.0 | 101.7 | 105.0 | 122.9 | 102.2 | 113.3 | 87.5 | 96.3 | 99.1 | 107.6 | 75 | 76 | 75 |
| 35 | SARPUNCH-171 | 102.5 | 86.0 | 85.3 | 86.7 | 110.3 | 109.5 | 96.7 | 113.3 | 91.5 | 105.0 | 103.3 | 96.7 | 97 | 91 | 94 |
| 36 | KDMH-017 | 107.0 | 110.0 | 72.7 | 105.0 | 111.0 | 129.4 | 105.8 | 111.7 | 89.6 | 114.7 | 105.3 | 98.4 | 79 | 88 | 84 |
| 37 | NMH-803 | 95.5 | 99.3 | 82.0 | 91.7 | 116.8 | 120.6 | 101.0 | 108.3 | 67.5 | 93.0 | 89.6 | 90.7 | 106 | 97 | 101 |
| 38 | X8B557 | 120.5 | 126.7 | 101.0 | 101.7 | 113.0 | 122.8 | 114.3 | 116.7 | 108.1 | 110.0 | 111.6 | 104.9 | 96 | 97 | 96 |
| 39 | X8B691 | 126.0 | 105.0 | 86.0 | 106.7 | 107.7 | 117.1 | 108.1 | 113.3 | 92.1 | 104.7 | 103.4 | 101.2 | 122 | 92 | 107 |
| 40 | MCH-41 | 103.5 | 111.7 | 102.0 | 111.7 | 115.7 | 120.5 | 110.8 | 133.3 | 106.2 | 107.0 | 115.5 | 105.6 | 105 | 96 | 101 |
| 41 | MCH-42 | 104.0 | 109.3 | 86.3 | 91.7 | 98.3 | 119.8 | 101.6 | 123.3 | 84.2 | 111.7 | 106.4 | 99.3 | 92 | 82 | 87 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 106.0 | 107.7 | 91.0 | 98.3 | 103.3 | 116.7 | 103.8 | 143.3 | 84.4 | 104.0 | 110.6 | 97.7 | 97 | 93 | 95 |
| 43 | BIO-9637 | 117.0 | 89.3 | 74.3 | 88.3 | 106.0 | 106.0 | 96.8 | 113.3 | 94.5 | 99.7 | 102.5 | 92.3 | 86 | 91 | 89 |
| 44 | HM-9 | 97.5 | 92.7 | 79.0 | 85.0 | 91.3 | 98.4 | 90.7 | 86.7 | 71.1 | 90.7 | 82.8 | 85.1 | 82 | 75 | 79 |
| | Loc. Mean | 101.5 | 92.9 | 83.0 | 92.1 | 104.1 | 113.8 | 97.9 | 107.0 | 81.1 | 96.1 | 94.7 | 92.5 | 91 | 89 | 90 |
| | C.D. (5%) | 14.6 | 12.0 | 7.5 | 23.2 | 18.6 | 4.3 | 8.5 | 21.5 | 5.8 | 15.0 | 12.3 | 7.4 | 21.2 | 21.7 | 15.7 |
| | C.D. (1%) | 19.3 | 16.0 | 9.9 | 30.8 | 24.7 | 5.7 | 11.2 | 28.5 | 7.7 | 19.9 | 16.3 | 9.8 | | | |
| | C.V. (%) | 8.8 | 8.0 | 5.6 | 15.5 | 11.0 | 2.3 | 7.7 | 12.4 | 4.4 | 9.6 | 8.0 | 13.6 | 14.4 | 14.9 | 8.7 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.50 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 |

Table No. 2 (Continued)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | |
|-------|-----------------|------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | JASH | VARA | RANC | AMBI | Zone Mean |
| 1 | PLM-21 | 79.2 | 80.5 | 79.8 | 80.4 | 84.0 | 75.8 | 88.0 | 74.0 | 80.4 | 74.1 | 79.5 | 80.0 | 83.3 | 84.1 | 80.2 |
| 2 | L-183 | 80.0 | 82.5 | 81.3 | 81.3 | 78.7 | 76.4 | 80.8 | 73.0 | 78.0 | 79.1 | 79.2 | 80.0 | 85.7 | 82.1 | 81.2 |
| 3 | EHL-162308 | 76.1 | 79.5 | 77.8 | 81.0 | 83.6 | 72.1 | 85.0 | 71.0 | 78.5 | 76.2 | 79.4 | 80.0 | 84.5 | 84.6 | 80.9 |
| 4 | PMSY-3 | 77.3 | 84.0 | 80.7 | 85.1 | 79.8 | 80.0 | 85.7 | 71.5 | 80.4 | 79.6 | 79.0 | 76.0 | 85.7 | 81.5 | 80.4 |
| 5 | PMSW-4 | 76.7 | 83.5 | 80.1 | 79.7 | 83.3 | 72.5 | 84.3 | 74.5 | 78.9 | 78.0 | 77.8 | 78.0 | 86.6 | 81.5 | 80.4 |
| 6 | PMSQ-5 | 76.2 | 81.0 | 78.6 | 81.2 | 79.5 | 76.0 | 84.0 | 72.5 | 78.6 | 77.4 | 76.2 | 77.0 | 87.5 | 83.9 | 80.4 |
| 7 | HKH-308 | 79.9 | 81.0 | 80.5 | 80.2 | 81.8 | 75.0 | 85.0 | 73.0 | 79.0 | 78.0 | 80.3 | 78.0 | 85.4 | 81.5 | 80.6 |
| 8 | HKH-309 | 78.9 | 79.0 | 79.0 | 79.2 | 75.0 | 73.9 | 84.0 | 73.0 | 77.0 | 78.8 | 78.4 | 81.0 | 85.7 | 82.4 | 81.2 |
| 9 | HKH-310 | 79.8 | 82.0 | 80.9 | 84.7 | 77.5 | 80.0 | 85.2 | 73.0 | 80.1 | 78.5 | 80.9 | 80.0 | 83.3 | 83.7 | 81.3 |
| 10 | MALVIYA MAKKA-2 | 80.5 | 83.5 | 82.0 | 81.7 | 83.4 | 77.8 | 85.7 | 72.0 | 80.1 | 74.4 | 78.6 | 77.0 | 85.7 | 83.3 | 79.8 |
| 11 | HKH-311 | 78.1 | 84.0 | 81.0 | 80.3 | 76.5 | 77.0 | 82.9 | 75.0 | 78.3 | 76.3 | 77.4 | 75.0 | 80.1 | 83.9 | 78.5 |
| 12 | HKH-312 | 77.9 | 82.5 | 80.2 | 83.4 | 84.7 | 78.3 | 81.5 | 77.0 | 81.0 | 75.3 | 78.3 | 81.0 | 85.0 | 82.0 | 80.3 |
| 13 | HKH-313 | 79.1 | 83.0 | 81.0 | 81.3 | 86.2 | 79.3 | 83.9 | 73.0 | 80.7 | 79.8 | 78.0 | 81.0 | 86.6 | 83.3 | 81.7 |
| 14 | EH-1974 | 77.5 | 82.0 | 79.8 | 79.8 | 82.9 | 78.1 | 83.9 | 74.0 | 79.7 | 74.6 | 79.2 | 77.0 | 87.1 | 84.4 | 80.5 |
| 15 | EH-1986 | 85.0 | 81.0 | 83.0 | 81.3 | 82.9 | 78.8 | 84.8 | 72.5 | 80.0 | 75.4 | 77.7 | 77.0 | 84.5 | 83.3 | 79.6 |
| 16 | EH-2025 | 77.8 | 81.0 | 79.4 | 74.4 | 85.2 | 79.9 | 85.7 | 72.0 | 79.4 | 76.0 | 78.9 | 81.0 | 86.6 | 84.1 | 81.3 |
| 17 | VEH-09-1 | 82.4 | 82.5 | 82.5 | 76.1 | 79.4 | 74.2 | 81.5 | 75.5 | 77.3 | 72.4 | 78.2 | 76.0 | 87.3 | 83.2 | 79.4 |
| 18 | VEH-09-2 | 76.1 | 79.0 | 77.5 | 83.8 | 89.2 | 84.8 | 83.9 | 73.0 | 82.9 | 82.6 | 80.7 | 82.0 | 84.0 | 82.8 | 82.4 |
| 19 | REH-2101 | 79.4 | 81.5 | 80.5 | 83.9 | 74.5 | 71.8 | 86.6 | 74.5 | 78.3 | 76.1 | 76.7 | 78.0 | 86.6 | 83.2 | 80.1 |
| 20 | REH-2102 | 84.1 | 82.0 | 83.0 | 83.9 | 85.9 | 80.6 | 78.9 | 77.5 | 81.4 | 74.9 | 77.5 | 78.0 | 84.5 | 82.9 | 79.6 |
| 21 | REH-2103 | 79.7 | 83.5 | 81.6 | 83.0 | 81.3 | 73.0 | 83.3 | 74.5 | 79.0 | 75.7 | 78.4 | 78.0 | 88.3 | 83.0 | 80.7 |
| 22 | JH-31314 | 78.1 | 81.5 | 79.8 | 85.1 | 83.3 | 74.9 | 86.1 | 75.5 | 81.0 | 80.0 | 79.8 | 81.0 | 84.9 | 83.5 | 81.8 |
| 23 | JH-31285 | 87.5 | 79.5 | 83.5 | 85.1 | 81.8 | 84.2 | 83.3 | 70.0 | 80.9 | 76.6 | 80.1 | 79.0 | 85.1 | 82.5 | 80.7 |
| 24 | JH-31336 | 78.9 | 82.0 | 80.4 | 84.9 | 86.3 | 76.4 | 85.7 | 71.5 | 81.0 | 76.1 | 80.1 | 82.0 | 84.0 | 83.0 | 81.0 |

Table No. 2 (Continued)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | |
|--------|------------------|------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | JASH | VARA | RANC | AMBI | Zone Mean |
| 25 | JH-31292 | 77.5 | 81.5 | 79.5 | 83.2 | 77.3 | 82.1 | 85.7 | 73.0 | 80.3 | 80.0 | 80.0 | 81.0 | 85.4 | 82.4 | 81.8 |
| 26 | JH-31288 | 76.4 | 83.5 | 79.9 | 82.3 | 81.8 | 78.2 | 85.7 | 72.0 | 80.0 | 78.5 | 80.8 | 81.0 | 85.6 | 83.6 | 81.9 |
| 27 | AH-97001 | 78.2 | 83.0 | 80.6 | 80.2 | 83.1 | 79.3 | 85.5 | 73.5 | 80.3 | 65.8 | 80.8 | 80.0 | 85.7 | 83.6 | 79.2 |
| 28 | HKI1105xHKI163-1 | 76.9 | 82.5 | 79.7 | 81.9 | 81.6 | 78.8 | 81.5 | 73.0 | 79.3 | 75.5 | 77.0 | 75.0 | 84.0 | 82.5 | 78.8 |
| 29 | BML7xHKI163-1 | 77.5 | 82.0 | 79.7 | 79.3 | 71.8 | 76.0 | 79.7 | 75.5 | 76.4 | 77.1 | 77.2 | 76.0 | 81.7 | 83.7 | 79.1 |
| 30 | HKI1128xHKI163-1 | 79.1 | 82.5 | 80.8 | 80.7 | 85.5 | 74.2 | 81.8 | 74.0 | 79.2 | 77.0 | 76.4 | 78.0 | 87.1 | 82.5 | 80.2 |
| 31 | KMH-218 | 76.7 | 82.5 | 79.6 | 84.6 | 66.2 | 83.3 | 81.3 | 71.0 | 77.2 | 78.6 | 76.6 | 81.0 | 85.7 | 83.0 | 81.0 |
| 32 | KMH-3426 | 78.3 | 82.0 | 80.2 | 84.5 | 84.0 | 79.4 | 87.5 | 70.0 | 81.1 | 76.5 | 78.2 | 76.0 | 86.6 | 83.4 | 80.1 |
| 33 | LAXMI306 | 76.3 | 82.5 | 79.4 | 80.1 | 78.8 | 78.2 | 81.8 | 74.0 | 78.6 | 78.1 | 77.4 | 76.0 | 84.5 | 82.4 | 79.7 |
| 34 | MUKHYA-108 | 78.6 | 84.0 | 81.3 | 82.0 | 84.4 | 78.0 | 83.3 | 73.0 | 80.1 | 77.1 | 79.2 | 81.0 | 85.4 | 84.2 | 81.4 |
| 35 | SARPUNCH-171 | 78.1 | 81.0 | 79.6 | 81.5 | 81.4 | 78.5 | 85.7 | 76.0 | 80.6 | 77.8 | 77.9 | 80.0 | 88.9 | 83.7 | 81.7 |
| 36 | KDMH-017 | 76.2 | 80.5 | 78.4 | 85.2 | 81.1 | 80.9 | 85.7 | 74.0 | 81.4 | 76.5 | 76.8 | 78.0 | 86.6 | 83.0 | 80.2 |
| 37 | NMH-803 | 9.1 | 79.5 | 44.3 | 84.8 | 87.0 | 79.5 | 86.6 | 78.0 | 83.2 | 77.4 | 79.2 | 81.0 | 86.6 | 82.2 | 81.3 |
| 38 | X8B557 | 78.6 | 82.5 | 80.5 | 80.8 | 83.3 | 85.7 | 85.7 | 75.0 | 82.1 | 79.5 | 77.3 | 76.0 | 86.6 | 83.7 | 80.6 |
| 39 | X8B691 | 78.0 | 83.5 | 80.8 | 83.9 | 83.5 | 82.3 | 85.7 | 74.5 | 82.0 | 76.5 | 77.9 | 80.0 | 88.9 | 82.1 | 81.1 |
| 40 | MCH-41 | 77.9 | 82.5 | 80.2 | 85.3 | 81.9 | 80.6 | 81.6 | 74.5 | 80.8 | 75.5 | 78.2 | 76.0 | 84.5 | 82.3 | 79.3 |
| 41 | MCH-42 | 77.0 | 82.0 | 79.5 | 83.7 | 83.6 | 85.0 | 85.7 | 74.0 | 82.4 | 77.7 | 77.2 | 82.0 | 87.5 | 81.6 | 81.2 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 78.5 | 82.0 | 80.3 | 86.1 | 83.3 | 80.2 | 86.3 | 78.0 | 82.8 | 80.2 | 78.4 | 78.0 | 85.1 | 84.6 | 81.3 |
| 43 | BIO-9637 | 83.5 | 80.0 | 81.8 | 81.2 | 91.7 | 78.3 | 85.7 | 73.0 | 82.0 | 77.1 | 77.8 | 80.0 | 86.1 | 82.3 | 80.6 |
| 44 | HM-9 | 79.4 | 82.5 | 81.0 | 81.7 | 84.0 | 79.3 | 80.0 | 74.0 | 79.8 | 66.1 | 77.4 | 76.0 | 86.6 | 81.6 | 77.5 |
| | Loc. Mean | 77.2 | 81.9 | 79.6 | 82.1 | 81.9 | 78.4 | 84.1 | 73.7 | 80.0 | 76.7 | 78.5 | 78.8 | 85.6 | 83.0 | 80.5 |
| | C.D. (5%) | 0.00 | 1.24 | 15.07 | 4.02 | 0.00 | 2.03 | 0.00 | 1.14 | 3.61 | 2.48 | 0.00 | - | 2.31 | 2.55 | 2.36 |
| | C.V. (%) | 0.00 | 0.93 | 9.39 | 3.01 | 0.00 | 1.60 | 0.00 | 0.95 | 3.62 | 1.99 | 0.00 | - | 1.67 | 1.89 | 2.35 |
| | F (Prob.) | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | - | 0.00 | 0.59 | 0.07 |

Table No. 2 (Continued)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|-------|-----------------|------------------|------|------|------|------|------|------|------|------|-----------|-----------|-----------|------|------|-----------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | UDAI | BANS | CHHI | Zone Mean | | | | | |
| 1 | PLM-21 | 84.7 | 78.5 | 77.0 | 86.6 | 83.1 | 85.0 | 82.5 | 81.5 | 69.9 | 83.5 | 78.3 | 80.6 | 80.0 | 79.7 | 79.9 |
| 2 | L-183 | 79.4 | 72.3 | 72.3 | 83.2 | 82.5 | 82.0 | 78.6 | 79.6 | 68.6 | 87.1 | 78.4 | 79.3 | 82.0 | 81.4 | 81.7 |
| 3 | EHL-162308 | 81.0 | 78.9 | 80.7 | 82.4 | 83.4 | 81.6 | 81.3 | 81.5 | 74.3 | 82.0 | 79.3 | 79.9 | 83.0 | 79.8 | 81.4 |
| 4 | PMSY-3 | 84.2 | 75.1 | 73.7 | 82.1 | 81.1 | 84.3 | 80.1 | 80.8 | 70.2 | 91.4 | 80.8 | 80.4 | 83.1 | 76.5 | 79.8 |
| 5 | PMSW-4 | 83.9 | 75.6 | 76.7 | 83.2 | 76.0 | 77.5 | 78.8 | 80.4 | 69.1 | 85.7 | 78.4 | 79.3 | 83.0 | 78.9 | 81.0 |
| 6 | PMSQ-5 | 83.8 | 76.8 | 69.3 | 82.7 | 78.4 | 80.1 | 78.5 | 81.3 | 67.8 | 82.5 | 77.2 | 78.8 | 84.0 | 77.3 | 80.7 |
| 7 | HKH-308 | 84.1 | 79.6 | 71.0 | 82.1 | 73.1 | 82.5 | 78.7 | 84.4 | 77.3 | 83.1 | 81.6 | 79.8 | 84.1 | 79.3 | 81.7 |
| 8 | HKH-309 | 82.6 | 79.6 | 79.3 | 83.3 | 75.6 | 71.3 | 78.6 | 82.0 | 63.3 | 82.2 | 75.8 | 78.5 | 85.4 | 81.8 | 83.6 |
| 9 | HKH-310 | 85.0 | 79.6 | 76.3 | 82.1 | 81.9 | 79.6 | 80.7 | 81.5 | 70.0 | 88.3 | 79.9 | 80.6 | 84.7 | 76.9 | 80.8 |
| 10 | MALVIYA MAKKA-2 | 82.7 | 81.3 | 76.0 | 84.3 | 83.8 | 85.3 | 82.2 | 81.0 | 65.9 | 78.4 | 75.1 | 80.1 | 85.6 | 79.0 | 82.3 |
| 11 | HKH-311 | 82.3 | 77.8 | 79.7 | 80.8 | 79.5 | 77.0 | 79.5 | 82.0 | 67.1 | 83.8 | 77.6 | 78.9 | 82.6 | 81.6 | 82.1 |
| 12 | HKH-312 | 80.9 | 77.9 | 76.0 | 81.4 | 78.4 | 78.9 | 78.9 | 81.5 | 65.7 | 85.3 | 77.5 | 79.7 | 80.1 | 80.8 | 80.5 |
| 13 | HKH-313 | 84.6 | 77.4 | 87.0 | 84.1 | 81.6 | 79.7 | 82.4 | 80.8 | 69.6 | 80.5 | 77.0 | 80.9 | 83.0 | 79.6 | 81.3 |
| 14 | EH-1974 | 84.6 | 78.2 | 78.7 | 84.9 | 83.8 | 84.7 | 82.5 | 82.1 | 74.3 | 88.0 | 81.4 | 80.9 | 83.0 | 80.7 | 81.8 |
| 15 | EH-1986 | 84.3 | 75.1 | 77.0 | 83.3 | 77.5 | 79.8 | 79.5 | 81.6 | 71.2 | 85.4 | 79.4 | 80.0 | 83.7 | 80.0 | 81.8 |
| 16 | EH-2025 | 83.4 | 79.2 | 83.3 | 84.8 | 82.0 | 84.1 | 82.8 | 83.6 | 74.1 | 86.3 | 81.3 | 81.1 | 83.4 | 79.3 | 81.4 |
| 17 | VEH-09-1 | 82.9 | 75.6 | 73.3 | 85.1 | 83.6 | 77.6 | 79.7 | 79.2 | 61.6 | 82.5 | 74.4 | 78.6 | 84.1 | 81.6 | 82.9 |
| 18 | VEH-09-2 | 82.6 | 77.8 | 73.3 | 83.7 | 79.2 | 78.3 | 79.1 | 80.1 | 68.6 | 87.4 | 78.7 | 80.6 | 84.8 | 79.6 | 82.2 |
| 19 | REH-2101 | 81.6 | 75.7 | 77.0 | 82.4 | 80.1 | 79.0 | 79.3 | 77.0 | 70.5 | 88.2 | 78.6 | 79.3 | 83.6 | 77.3 | 80.5 |
| 20 | REH-2102 | 83.9 | 79.5 | 73.7 | 84.6 | 79.7 | 79.2 | 80.1 | 82.3 | 65.9 | 79.8 | 76.0 | 80.0 | 83.2 | 79.2 | 81.2 |
| 21 | REH-2103 | 83.6 | 76.2 | 72.0 | 82.6 | 78.0 | 79.2 | 78.6 | 81.8 | 64.7 | 87.8 | 78.1 | 79.4 | 84.2 | - | 84.2 |
| 22 | JH-31314 | 85.1 | 80.6 | 76.7 | 85.4 | 82.7 | 83.9 | 82.4 | 82.6 | 76.2 | 81.7 | 80.2 | 81.4 | 81.8 | 81.2 | 81.5 |
| 23 | JH-31285 | 84.4 | 78.1 | 73.7 | 84.7 | 84.2 | 79.0 | 80.7 | 79.5 | 66.8 | 84.8 | 77.0 | 80.5 | 81.9 | 77.1 | 79.5 |
| 24 | JH-31336 | 84.1 | 78.2 | 79.7 | 83.6 | 84.4 | 81.2 | 81.9 | 80.4 | 71.4 | 80.2 | 77.3 | 80.7 | 83.9 | 79.0 | 81.4 |

Table No. 2 (Continued)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean |
|--------|------------------|------------------|------|------|------|------|------|-----------|------|------|------|-----------|-----------|------|------|-----------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | UDAI | BANS | CHHI | | | | | |
| 25 | JH-31292 | 83.2 | 78.1 | 73.0 | 83.8 | 80.7 | 79.3 | 79.7 | 80.1 | 72.4 | 89.1 | 80.5 | 80.4 | 82.7 | 81.6 | 82.1 |
| 26 | JH-31288 | 83.8 | 79.1 | 76.0 | 83.5 | 82.4 | 79.3 | 80.7 | 81.6 | 73.4 | 84.5 | 79.8 | 80.6 | 83.1 | 79.1 | 81.1 |
| 27 | AH-97001 | 82.2 | 80.2 | 80.3 | 86.9 | 81.6 | 81.1 | 82.0 | 80.8 | 74.1 | 84.9 | 79.9 | 80.5 | 84.6 | 77.4 | 81.0 |
| 28 | HKI1105xHKI163-1 | 82.1 | 70.1 | 82.3 | 83.0 | 65.0 | 79.9 | 77.1 | 81.4 | 66.3 | 81.2 | 76.3 | 78.1 | 84.8 | 79.3 | 82.0 |
| 29 | BML7xHKI163-1 | 79.0 | 69.5 | 80.7 | 86.0 | 78.9 | 74.3 | 78.1 | 78.8 | 69.3 | 79.3 | 75.8 | 77.8 | 83.7 | 74.1 | 78.9 |
| 30 | HKI1128xHKI163-1 | 84.0 | 73.4 | 75.3 | 87.1 | 83.2 | 78.0 | 80.1 | 79.2 | 70.6 | 90.0 | 80.0 | 80.0 | 83.5 | 80.9 | 82.2 |
| 31 | KMH-218 | 83.4 | 77.1 | 77.3 | 84.1 | 86.1 | 76.0 | 80.7 | 81.5 | 79.1 | 85.1 | 81.9 | 80.0 | 83.0 | 81.0 | 82.0 |
| 32 | KMH-3426 | 83.1 | 77.4 | 73.3 | 81.6 | 81.7 | 78.9 | 79.3 | 82.8 | 76.4 | 79.7 | 79.6 | 80.0 | 82.8 | 80.9 | 81.9 |
| 33 | LAXMI306 | 82.7 | 76.4 | 81.3 | 83.1 | 81.0 | 79.5 | 80.6 | 78.4 | 74.7 | 78.4 | 77.2 | 79.3 | 82.8 | 78.3 | 80.5 |
| 34 | MUKHYA-108 | 82.9 | 78.7 | 75.7 | 82.7 | 83.7 | 81.0 | 80.8 | 81.0 | 74.4 | 80.7 | 78.7 | 80.5 | 84.0 | 78.8 | 81.4 |
| 35 | SARPUNCH-171 | 83.9 | 73.7 | 78.0 | 85.0 | 78.6 | 81.4 | 80.1 | 78.2 | 69.3 | 85.5 | 77.7 | 80.2 | 83.7 | 79.5 | 81.6 |
| 36 | KDMH-017 | 84.4 | 76.3 | 75.0 | 84.4 | 79.1 | 76.7 | 79.3 | 81.8 | 75.9 | 79.4 | 79.1 | 79.9 | 82.9 | 81.6 | 82.2 |
| 37 | NMH-803 | 84.0 | 77.9 | 78.7 | 82.3 | 86.9 | 84.1 | 82.3 | 82.9 | 71.5 | 83.2 | 79.2 | 78.2 | 83.6 | 79.1 | 81.4 |
| 38 | X8B557 | 82.9 | 74.8 | 77.7 | 82.5 | 81.9 | 88.0 | 81.3 | 84.1 | 74.0 | 85.6 | 81.2 | 81.2 | 83.2 | 79.0 | 81.1 |
| 39 | X8B691 | 85.5 | 77.9 | 75.0 | 83.9 | 82.1 | 79.7 | 80.7 | 80.7 | 65.9 | 85.6 | 77.4 | 80.6 | 84.3 | 77.9 | 81.1 |
| 40 | MCH-41 | 84.1 | 73.7 | 71.3 | 81.4 | 80.3 | 77.0 | 78.0 | 77.0 | 79.4 | 78.9 | 78.4 | 79.2 | 85.0 | 78.0 | 81.5 |
| 41 | MCH-42 | 85.1 | 78.0 | 79.7 | 82.1 | 78.2 | 80.5 | 80.6 | 80.3 | 76.7 | 85.2 | 80.7 | 81.1 | 83.3 | 79.2 | 81.3 |
| CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 84.0 | 79.8 | 64.3 | 86.4 | 84.7 | 82.2 | 80.2 | 82.1 | 72.3 | 70.5 | 75.0 | 80.3 | 83.6 | 81.8 | 82.7 |
| 43 | BIO-9637 | 82.5 | 78.7 | 78.3 | 83.6 | 84.1 | 82.3 | 81.6 | 80.7 | 66.3 | 84.6 | 77.2 | 80.8 | 82.6 | 80.3 | 81.4 |
| 44 | HM-9 | 80.9 | 76.9 | 73.7 | 78.9 | 76.0 | 78.5 | 77.5 | 81.1 | 73.9 | 83.5 | 79.5 | 78.7 | 83.4 | 80.0 | 81.7 |
| | Loc. Mean | 83.2 | 77.1 | 76.4 | 83.5 | 80.7 | 80.2 | 80.2 | 81.0 | 70.9 | 83.6 | 78.5 | 79.9 | 83.4 | 77.6 | 81.5 |
| | C.D. (5%) | 1.65 | 2.12 | 4.66 | 2.48 | 1.36 | 0.94 | 3.16 | 2.68 | 2.35 | 1.88 | 5.72 | 2.16 | 1.23 | 0.10 | 3.28 |
| | C.V. (%) | 1.22 | 1.69 | 3.76 | 1.83 | 1.04 | 0.72 | 3.46 | 2.04 | 2.04 | 1.38 | 4.49 | 4.46 | 0.91 | 0.08 | 2.00 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.68 | 0.07 | 0.00 | 0.00 | 0.86 |

Table No. 2 (Continued)

| SI No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | |
|-------|-----------------|----------------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
| 1 | PLM-21 | 62 | 65 | 63 | 49 | 49 | 59 | 61 | 73 | 58 | 65 | 43 | 51 | 71 | 52 | 62 | 57 |
| 2 | L-183 | 70 | 69 | 69 | 63 | 46 | 60 | 63 | 73 | 61 | 62 | 47 | 53 | 74 | 52 | 62 | 58 |
| 3 | EHL-162308 | 69 | 64 | 67 | 61 | 52 | 65 | 61 | 71 | 62 | 64 | 44 | 56 | 71 | 41 | 53 | 55 |
| 4 | PMSY-3 | 61 | 69 | 65 | 52 | 56 | 60 | 57 | 76 | 60 | 64 | 45 | 53 | 76 | 57 | 60 | 59 |
| 5 | PMSW-4 | 65 | 66 | 65 | 55 | 51 | 61 | 57 | 74 | 60 | 63 | 47 | 52 | 70 | 54 | 44 | 55 |
| 6 | PMSQ-5 | 72 | 62 | 67 | 54 | 51 | 59 | 62 | 70 | 59 | 67 | 46 | 55 | 73 | 55 | 47 | 57 |
| 7 | HKH-308 | 75 | 64 | 69 | 73 | 54 | 66 | 57 | 69 | 64 | 64 | 49 | 52 | 78 | 58 | 58 | 60 |
| 8 | HKH-309 | 71 | 69 | 70 | 70 | 56 | 61 | 60 | 74 | 64 | 65 | 41 | 53 | 77 | 65 | 63 | 60 |
| 9 | HKH-310 | 64 | 69 | 67 | 56 | 52 | 69 | 61 | 71 | 62 | 65 | 48 | 53 | 70 | 65 | 56 | 59 |
| 10 | MALVIYA MAKKA-2 | 76 | 68 | 72 | 65 | 54 | 67 | 56 | 78 | 64 | 61 | 38 | 55 | 78 | 57 | 57 | 58 |
| 11 | HKH-311 | 69 | 70 | 70 | 68 | 52 | 68 | 61 | 77 | 65 | 64 | 49 | 53 | 78 | 57 | 66 | 61 |
| 12 | HKH-312 | 65 | 68 | 66 | 60 | 51 | 66 | 61 | 74 | 62 | 65 | 47 | 51 | 72 | 50 | 46 | 55 |
| 13 | HKH-313 | 66 | 69 | 68 | 70 | 57 | 66 | 57 | 81 | 66 | 64 | 43 | 51 | 75 | 57 | 53 | 57 |
| 14 | EH-1974 | 72 | 69 | 70 | 59 | 52 | 63 | 62 | 74 | 62 | 61 | 47 | 52 | 72 | 63 | 49 | 57 |
| 15 | EH-1986 | 67 | 69 | 68 | 58 | 49 | 65 | 59 | 75 | 61 | 64 | 49 | 52 | 78 | 45 | 56 | 57 |
| 16 | EH-2025 | 80 | 69 | 75 | 61 | 47 | 64 | 58 | 72 | 61 | 65 | 52 | 56 | 75 | 55 | 59 | 60 |
| 17 | VEH-09-1 | 65 | 71 | 68 | 57 | 49 | 63 | 63 | 75 | 61 | 64 | 53 | 56 | 72 | 55 | 43 | 57 |
| 18 | VEH-09-2 | 73 | 67 | 70 | 67 | 52 | 73 | 60 | 74 | 65 | 69 | 50 | 52 | 77 | 60 | 52 | 60 |
| 19 | REH-2101 | 63 | 67 | 65 | 61 | 47 | 60 | 54 | 72 | 59 | 65 | 48 | 49 | 75 | 55 | 47 | 56 |
| 20 | REH-2102 | 60 | 69 | 64 | 57 | 51 | 58 | 61 | 74 | 60 | 65 | 49 | 53 | 74 | 53 | 52 | 57 |
| 21 | REH-2103 | 72 | 65 | 69 | 65 | 48 | 61 | 60 | 74 | 62 | 64 | 48 | 53 | 77 | 46 | 53 | 57 |
| 22 | JH-31314 | 63 | 69 | 66 | 71 | 50 | 71 | 61 | 76 | 66 | 68 | 33 | 53 | 77 | 55 | 66 | 59 |
| 23 | JH-31285 | 71 | 69 | 70 | 57 | 51 | 71 | 64 | 72 | 63 | 63 | 48 | 52 | 78 | 56 | 72 | 62 |
| 24 | JH-31336 | 68 | 68 | 68 | 67 | 56 | 69 | 63 | 71 | 65 | 65 | 47 | 51 | 76 | 58 | 64 | 60 |

Table No. 2 (Continued)

| SI No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | Zone Mean |
|-------|------------------|----------------------------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|------|-----------|
| | | BAJA | KANG | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | |
| 25 | JH-31292 | 71 | 71 | 71 | 64 | 52 | 73 | 60 | 73 | 64 | 62 | 48 | 52 | 76 | 60 | 62 | 60 |
| 26 | JH-31288 | 69 | 66 | 67 | 65 | 48 | 68 | 60 | 75 | 63 | 64 | 51 | 50 | 76 | 58 | 56 | 59 |
| 27 | AH-97001 | 65 | 70 | 68 | 61 | 51 | 63 | 61 | 69 | 61 | 64 | 48 | 50 | 76 | 57 | 51 | 58 |
| 28 | HKI1105xHKI163-1 | 71 | 66 | 68 | 64 | 53 | 65 | 58 | 72 | 62 | 63 | 53 | 51 | 73 | 46 | 67 | 59 |
| 29 | BML7xHKI163-1 | 65 | 67 | 66 | 56 | 51 | 70 | 61 | 72 | 62 | 65 | 52 | 52 | 77 | 58 | 49 | 59 |
| 30 | HKI1128xHKI163-1 | 71 | 69 | 70 | 61 | 56 | 65 | 62 | 77 | 64 | 66 | 52 | 56 | 72 | 54 | 47 | 58 |
| 31 | KMH-218 | 74 | 68 | 71 | 66 | 51 | 70 | 59 | 78 | 65 | 65 | 42 | 50 | 76 | 57 | 57 | 58 |
| 32 | KMH-3426 | 71 | 69 | 70 | 61 | 52 | 68 | 59 | 80 | 64 | 67 | 38 | 51 | 78 | 58 | 57 | 58 |
| 33 | LAXMI306 | 72 | 71 | 71 | 62 | 52 | 61 | 61 | 76 | 62 | 65 | 40 | 53 | 78 | 55 | 54 | 57 |
| 34 | MUKHYA-108 | 73 | 66 | 69 | 56 | 48 | 65 | 61 | 67 | 59 | 63 | 36 | 50 | 74 | 59 | 56 | 56 |
| 35 | SARPUNCH-171 | 70 | 68 | 69 | 58 | 52 | 65 | 63 | 74 | 63 | 64 | 34 | 51 | 74 | 57 | 66 | 58 |
| 36 | KDMH-017 | 65 | 72 | 69 | 66 | 57 | 67 | 58 | 72 | 64 | 64 | 32 | 53 | 78 | 56 | 66 | 58 |
| 37 | NMH-803 | 76 | 70 | 73 | 67 | 53 | 63 | 61 | 74 | 64 | 66 | 50 | 52 | 81 | 67 | 60 | 63 |
| 38 | X8B557 | 77 | 69 | 73 | 73 | 49 | 74 | 57 | 72 | 65 | 64 | 48 | 58 | 78 | 63 | 64 | 62 |
| 39 | X8B691 | 66 | 71 | 69 | 71 | 54 | 71 | 60 | 78 | 67 | 65 | 44 | 56 | 72 | 64 | 57 | 60 |
| 40 | MCH-41 | 72 | 71 | 71 | 65 | 53 | 62 | 61 | 74 | 63 | 64 | 45 | 55 | 83 | 61 | 49 | 59 |
| 41 | MCH-42 | 70 | 70 | 70 | 64 | 49 | 69 | 58 | 72 | 62 | 66 | 51 | 54 | 82 | 55 | 53 | 60 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 74 | 67 | 70 | 52 | 51 | 60 | 62 | 78 | 61 | 68 | 49 | 52 | 78 | 57 | 55 | 60 |
| 43 | BIO-9637 | 71 | 70 | 71 | 63 | 51 | 64 | 62 | 76 | 63 | 65 | 43 | 58 | 75 | 57 | 63 | 60 |
| 44 | HM-9 | 65 | 69 | 67 | 54 | 49 | 59 | 62 | 71 | 59 | 65 | 53 | 53 | 74 | 59 | 51 | 59 |
| | Loc. Mean | 69 | 68 | 69 | 62 | 51 | 65 | 60 | 74 | 62 | 65 | 46 | 53 | 76 | 56 | 56 | 59 |
| | C.D. (5%) | 9.5 | 6.6 | 7.5 | 15.0 | 5.3 | 7.4 | 7.0 | 4.2 | 4.5 | 4.3 | 12.1 | 4.9 | 7.3 | 10.0 | 14.2 | 5.1 |
| | C.V. (%) | 8.4 | 6.0 | 5.4 | 14.9 | 6.3 | 7.0 | 7.2 | 3.5 | 5.8 | 4.1 | 16.2 | 5.7 | 5.9 | 10.9 | 15.5 | 7.7 |
| | F (Prob.) | 0.0 | 0.5 | 0.7 | 0.2 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.2 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.5 |

Table No. 2 (Continued)

| SI No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | Zone Mean | OV'L Mean | UDHA | GODH | OV'L Mean | |
|-------|-----------------|----------------------------|------|------|------|------|------|-----------|------|------|------|-----------|-----------|------|------|-----------|----|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG POCB | UDAI | BANS | CHHI | | | | | | |
| 1 | PLM-21 | 53 | 57 | 62 | 45 | 61 | 63 | 65 | 58 | 65 | 62 | 66 | 64 | 59 | 39 | 67 | 53 |
| 2 | L-183 | 59 | 57 | 60 | 54 | 58 | 66 | 71 | 61 | 61 | 63 | 64 | 63 | 61 | 46 | 69 | 58 |
| 3 | EHL-162308 | 61 | 56 | 59 | 62 | 59 | 66 | 68 | 62 | 67 | 62 | 66 | 65 | 61 | 45 | 68 | 57 |
| 4 | PMSY-3 | 57 | 51 | 62 | 63 | 61 | 67 | 67 | 61 | 60 | 62 | 62 | 61 | 61 | 42 | 62 | 52 |
| 5 | PMSW-4 | 55 | 57 | 62 | 57 | 61 | 66 | 63 | 60 | 65 | 63 | 68 | 65 | 60 | 41 | 54 | 48 |
| 6 | PMSQ-5 | 59 | 62 | 63 | 58 | 60 | 67 | 60 | 61 | 68 | 61 | 62 | 64 | 60 | 52 | 61 | 56 |
| 7 | HKH-308 | 57 | 59 | 60 | 67 | 62 | 66 | 58 | 61 | 61 | 65 | 68 | 65 | 63 | 45 | 69 | 57 |
| 8 | HKH-309 | 59 | 62 | 61 | 65 | 59 | 66 | 72 | 63 | 67 | 61 | 67 | 65 | 64 | 50 | 75 | 63 |
| 9 | HKH-310 | 55 | 64 | 61 | 64 | 58 | 67 | 62 | 61 | 65 | 64 | 64 | 64 | 62 | 49 | 63 | 56 |
| 10 | MALVIYA MAKKA-2 | 60 | 59 | 62 | 63 | 61 | 67 | 60 | 62 | 56 | 63 | 69 | 63 | 62 | 37 | 67 | 52 |
| 11 | HKH-311 | 57 | 56 | 59 | 67 | 61 | 65 | 68 | 62 | 68 | 60 | 66 | 65 | 63 | 51 | 72 | 61 |
| 12 | HKH-312 | 58 | 56 | 61 | 66 | 58 | 66 | 52 | 60 | 64 | 60 | 65 | 63 | 60 | 41 | 65 | 53 |
| 13 | HKH-313 | 63 | 57 | 60 | 56 | 65 | 66 | 69 | 62 | 63 | 62 | 59 | 61 | 62 | 48 | 66 | 57 |
| 14 | EH-1974 | 59 | 62 | 59 | 62 | 57 | 66 | 57 | 60 | 75 | 65 | 66 | 68 | 62 | 44 | 53 | 49 |
| 15 | EH-1986 | 62 | 63 | 61 | 60 | 58 | 67 | 71 | 63 | 71 | 61 | 69 | 67 | 62 | 47 | 78 | 63 |
| 16 | EH-2025 | 61 | 62 | 61 | 67 | 59 | 66 | 71 | 64 | 64 | 61 | 68 | 64 | 63 | 46 | 64 | 55 |
| 17 | VEH-09-1 | 57 | 58 | 60 | 53 | 59 | 66 | 73 | 61 | 76 | 60 | 63 | 67 | 61 | 42 | 67 | 54 |
| 18 | VEH-09-2 | 62 | 62 | 61 | 59 | 58 | 68 | 68 | 62 | 67 | 62 | 67 | 65 | 63 | 48 | 61 | 55 |
| 19 | REH-2101 | 56 | 58 | 60 | 63 | 59 | 67 | 61 | 60 | 67 | 62 | 63 | 64 | 60 | 48 | 35 | 42 |
| 20 | REH-2102 | 55 | 58 | 62 | 66 | 59 | 66 | 64 | 61 | 76 | 62 | 67 | 68 | 61 | 36 | 66 | 51 |
| 21 | REH-2103 | 55 | 58 | 59 | 61 | 58 | 66 | 66 | 60 | 64 | 60 | 62 | 62 | 61 | 49 | 65 | 57 |
| 22 | JH-31314 | 62 | 62 | 61 | 67 | 61 | 66 | 83 | 66 | 79 | 63 | 67 | 70 | 64 | 46 | 67 | 56 |
| 23 | JH-31285 | 50 | 58 | 62 | 55 | 60 | 67 | 67 | 60 | 63 | 63 | 64 | 63 | 62 | 45 | 35 | 40 |
| 24 | JH-31336 | 56 | 63 | 60 | 57 | 60 | 67 | 73 | 62 | 70 | 61 | 67 | 66 | 63 | 47 | 61 | 54 |

Table No. 2 (Continued)

| SI No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | BANG | Zone | UDAI | BANS | CHHI | Zone | OV'L | UDHA | GODH | OV'L |
|--------|------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | POCB | Mean | | | | Mean | Mean | | | Mean |
| 25 | JH-31292 | 62 | 63 | 61 | 65 | 60 | 67 | 53 | 61 | 71 | 66 | 61 | 66 | 63 | 52 | 62 | 57 |
| 26 | JH-31288 | 59 | 61 | 59 | 67 | 57 | 67 | 66 | 62 | 73 | 62 | 69 | 68 | 63 | 39 | 60 | 50 |
| 27 | AH-97001 | 57 | 60 | 61 | 59 | 61 | 63 | 65 | 61 | 74 | 61 | 68 | 68 | 62 | 41 | 65 | 53 |
| 28 | HKI1105xHKI163-1 | 56 | 58 | 61 | 63 | 60 | 65 | 60 | 60 | 65 | 63 | 67 | 65 | 62 | 46 | 65 | 56 |
| 29 | BML7xHKI163-1 | 60 | 57 | 61 | 65 | 60 | 66 | 65 | 62 | 67 | 61 | 63 | 64 | 62 | 46 | 63 | 54 |
| 30 | HKI1128xHKI163-1 | 55 | 60 | 62 | 64 | 54 | 66 | 61 | 60 | 70 | 60 | 70 | 67 | 62 | 42 | 67 | 54 |
| 31 | KMH-218 | 62 | 61 | 62 | 64 | 64 | 63 | 60 | 62 | 76 | 62 | 66 | 68 | 63 | 47 | 65 | 56 |
| 32 | KMH-3426 | 63 | 59 | 60 | 64 | 61 | 65 | 77 | 64 | 67 | 63 | 64 | 65 | 63 | 47 | 72 | 59 |
| 33 | LAXMI306 | 58 | 58 | 62 | 57 | 62 | 67 | 68 | 62 | 63 | 63 | 64 | 63 | 62 | 43 | 49 | 46 |
| 34 | MUKHYA-108 | 56 | 57 | 60 | 55 | 61 | 66 | 69 | 61 | 64 | 63 | 68 | 65 | 61 | 39 | 58 | 49 |
| 35 | SARPUNCH-171 | 64 | 59 | 64 | 64 | 58 | 65 | 47 | 60 | 73 | 61 | 68 | 67 | 62 | 46 | 60 | 53 |
| 36 | KDMH-017 | 59 | 59 | 61 | 67 | 60 | 67 | 65 | 63 | 78 | 65 | 67 | 70 | 63 | 54 | 73 | 63 |
| 37 | NMH-803 | 61 | 61 | 62 | 57 | 54 | 66 | 66 | 61 | 82 | 63 | 68 | 71 | 64 | 50 | 70 | 60 |
| 38 | X8B557 | 58 | 60 | 59 | 66 | 55 | 67 | 58 | 60 | 74 | 63 | 69 | 69 | 64 | 46 | 72 | 59 |
| 39 | X8B691 | 55 | 59 | 62 | 67 | 65 | 67 | 58 | 62 | 76 | 61 | 69 | 69 | 64 | 52 | 62 | 57 |
| 40 | MCH-41 | 58 | 57 | 59 | 63 | 65 | 66 | 72 | 63 | 77 | 66 | 66 | 70 | 64 | 43 | 73 | 58 |
| 41 | MCH-42 | 63 | 62 | 61 | 66 | 61 | 66 | 52 | 62 | 71 | 64 | 66 | 67 | 63 | 40 | 54 | 47 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 42 | NAVJOT | 54 | 59 | 58 | 67 | 61 | 67 | 68 | 62 | 60 | 61 | 63 | 61 | 62 | 45 | 65 | 55 |
| 43 | BIO-9637 | 58 | 58 | 61 | 67 | 61 | 67 | 70 | 63 | 73 | 61 | 66 | 67 | 63 | 39 | 72 | 56 |
| 44 | HM-9 | 57 | 64 | 61 | 66 | 58 | 66 | 57 | 61 | 66 | 63 | 66 | 65 | 61 | 43 | 19 | 31 |
| | Loc. Mean | 58 | 59 | 61 | 62 | 60 | 66 | 65 | 62 | 69 | 62 | 66 | 66 | 62 | 45 | 63 | 54 |
| | C.D. (5%) | 9.6 | 7.1 | 3.5 | 12.0 | 5.5 | 2.9 | 23.8 | 4.0 | 8.1 | 3.4 | 6.3 | 5.9 | 2.2 | 15 | 11 | 16 |
| | C.V. (%) | 10.2 | 7.4 | 3.5 | 11.9 | 5.6 | 2.7 | 22.7 | 6.1 | 7.3 | 3.4 | 5.9 | 5.5 | 6.2 | 21 | 10 | 15 |
| | F (Prob.) | 0.8 | 0.4 | 0.8 | 0.1 | 0.0 | 0.5 | 0.9 | 0.6 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 1.0 | 0.0 | 0.3 |

TABLE No. 3

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA, UDHAMPUR(R), DMR DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHARAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KARIMNAGAR, ARBHAVI, MANDYA, HYDERABAD, COIMBATORE, BIOSEED HYDERABAD, KOLHAPUR, UDAIPUR, BANSWARA, GODHRA(R), CHHINDIWARA IN TRIAL No. TR63 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | ZN 1 | | ZN 2 | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|-------|----|-------|----|------|----|
| | | ALMO | R | BAJA | R | BARA | R | KANG | R | MEAN | R | DELH | R | KARN | R | PANT | R | KANP | R | MEAN | R |
| 1 | EHL-162408 | 7819 | 6 | 6130 | 14 | 2605 | 13 | 6059 | 2 | 5653 | 6 | 4412 | 14 | 4258 | 12 | 10012 | 8 | 8176 | 6 | 6715 | 11 |
| 2 | EHL-162508 | 7072 | 8 | 7539 | 5 | 3275 | 6 | 5191 | 7 | 5769 | 4 | 4875 | 11 | 5060 | 4 | 8679 | 16 | 8313 | 2 | 6732 | 10 |
| 3 | FH-3506 | 8563 | 3 | 7414 | 6 | 3427 | 4 | 5346 | 5 | 6188 | 3 | 5872 | 5 | 5314 | 2 | 11744 | 3 | 8059 | 9 | 7747 | 2 |
| 4 | EH-2005 | 6950 | 9 | 6106 | 15 | 3885 | 2 | 5308 | 6 | 5562 | 9 | 4470 | 13 | 4214 | 13 | 9777 | 10 | 6947 | 17 | 6352 | 15 |
| 5 | EH-1992 | 7563 | 7 | 6792 | 8 | 2525 | 14 | 3840 | 16 | 5180 | 13 | 4154 | 16 | 3806 | 15 | 11659 | 4 | 8144 | 8 | 6941 | 8 |
| 6 | EH-1971 | 6656 | 10 | 6891 | 7 | 3544 | 3 | 4273 | 12 | 5341 | 10 | 6298 | 3 | 3055 | 18 | 8808 | 15 | 7855 | 11 | 6504 | 13 |
| 7 | KDM-399 | 4652 | 18 | 6642 | 12 | 2907 | 10 | 4602 | 8 | 4700 | 17 | 2994 | 18 | 3474 | 16 | 7622 | 18 | 7201 | 15 | 5323 | 18 |
| 8 | REH-2001 | 8674 | 2 | 6792 | 9 | 2965 | 9 | 4600 | 9 | 5758 | 5 | 5747 | 6 | 4552 | 9 | 11834 | 2 | 8262 | 3 | 7599 | 3 |
| 9 | REH-2002 | 6212 | 13 | 7923 | 4 | 2485 | 15 | 4190 | 14 | 5202 | 12 | 3874 | 17 | 4556 | 8 | 9143 | 14 | 8148 | 7 | 6430 | 14 |
| 10 | REH-2003 | 5765 | 16 | 8812 | 1 | 4071 | 1 | 3726 | 18 | 5593 | 7 | 4990 | 10 | 3264 | 17 | 7865 | 17 | 7205 | 14 | 5831 | 17 |
| 11 | JH-31236 | 8053 | 5 | 5260 | 18 | 2475 | 16 | 5554 | 3 | 5335 | 11 | 6874 | 2 | 4744 | 7 | 11859 | 1 | 7864 | 10 | 7835 | 1 |
| 12 | JH-31308 | 6542 | 11 | 6649 | 11 | 2890 | 11 | 3823 | 17 | 4976 | 16 | 5196 | 8 | 4208 | 14 | 10350 | 7 | 8443 | 1 | 7049 | 7 |
| 13 | AH-97002 | 5918 | 14 | 6785 | 10 | 3176 | 8 | 4254 | 13 | 5034 | 15 | 4622 | 12 | 4775 | 6 | 9642 | 11 | 8185 | 5 | 6806 | 9 |
| 14 | AH-97017 | 5913 | 15 | 6588 | 13 | 2285 | 17 | 5465 | 4 | 5063 | 14 | 5018 | 9 | 4497 | 10 | 9433 | 13 | 7329 | 13 | 6569 | 12 |
| 15 | AH-97018 | 5463 | 17 | 6026 | 16 | 2093 | 18 | 3881 | 15 | 4366 | 18 | 4213 | 15 | 4344 | 11 | 9434 | 12 | 6674 | 18 | 6166 | 16 |
| 16 | BIO-605 | 8353 | 4 | 8798 | 2 | 3386 | 5 | 4551 | 10 | 6272 | 1 | 6078 | 4 | 5094 | 3 | 11658 | 5 | 7106 | 16 | 7484 | 6 |
| 17 | KH-9560 | 9955 | 1 | 7994 | 3 | 2725 | 12 | 4338 | 11 | 6253 | 2 | 5540 | 7 | 5412 | 1 | 11135 | 6 | 8205 | 4 | 7573 | 5 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 18 | PARKASH | 6386 | 12 | 5962 | 17 | 3226 | 7 | 6737 | 1 | 5578 | 8 | 7713 | 1 | 4890 | 5 | 9935 | 9 | 7803 | 12 | 7585 | 4 |
| | Location Mean | 7028 | | 6950 | | 2997 | | 4763 | | 5435 | | 5163 | | 4418 | | 10033 | | 7773 | | 6847 | |
| | Mean Stand | 23 | | 32 | | 30 | | 29 | | 28 | | 33 | | 31 | | 36 | | 36 | | 34 | |
| | C.D. (5%) | 1378 | | 1497 | | 1892 | | 737 | | 1376 | | 1260 | | 978 | | 1704 | | 748 | | 1172 | |
| | C.V. (%) | 11.8 | | 12.97 | | 38.01 | | 9.32 | | - | | 14.69 | | 13.32 | | 10.22 | | 5.79 | | - | |
| | F (Prob) | 0 | | 0 | | 0.749 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | - | |
| | Plot Size | 3.6 | | 4.2 | | 5.6 | | 4.2 | | - | | 5.6 | | 6 | | 6 | | 4.8 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 9-07 | | 4-07 | | 15-07 | | 1-07 | | - | | 7-06 | | 2-07 | | 1-08 | | 14-07 | | - | |
| | Harvest Date | 11-11 | | 5-11 | | - | | 12-10 | | - | | 10-09 | | 4-10 | | 18-11 | | 2-11 | | - | |
| | Irrigation Nos | - | | 3 | | - | | - | | - | | 4 | | 3 | | - | | 2 | | - | |
| | Fertilizer Applied N | 80 | | 120 | | - | | 120 | | - | | 150 | | 150 | | 120 | | 80 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 60 | | - | | 75 | | 60 | | 60 | | 40 | | - | |
| | Fertilizer Applied K | - | | 40 | | - | | 40 | | - | | 75 | | 60 | | 40 | | 40 | | - | |

TABLE No. 3 (Cont..)

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|----|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|
| Sl | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R | ARBH | R | HYDE | R |
| No | PEDIGREE | | | | | | | | | | | | | | | | | | |
| 1 | EHL-162408 | 5123 | 3 | 3321 | 13 | 4447 | 3 | 5908 | 10 | 7794 | 2 | 6526 | 2 | 5520 | 2 | 4673 | 18 | 5330 | 12 |
| 2 | EHL-162508 | 4730 | 4 | 3114 | 15 | 3023 | 14 | 5606 | 12 | 6972 | 4 | 5206 | 13 | 4775 | 13 | 4783 | 17 | 4698 | 16 |
| 3 | FH-3506 | 4294 | 10 | 4561 | 4 | 4075 | 7 | 6556 | 6 | 5788 | 12 | 5794 | 6 | 5178 | 8 | 5385 | 11 | 6227 | 6 |
| 4 | EH-2005 | 4072 | 12 | 3764 | 10 | 4338 | 5 | 5721 | 11 | 5668 | 14 | 5883 | 4 | 4908 | 10 | 4812 | 16 | 6405 | 4 |
| 5 | EH-1992 | 3819 | 14 | 4625 | 3 | 4671 | 1 | 4623 | 16 | 6434 | 6 | 5100 | 14 | 4879 | 11 | 5856 | 6 | 5520 | 11 |
| 6 | EH-1971 | 3722 | 16 | 3620 | 12 | 2867 | 15 | 5368 | 13 | 6297 | 8 | 5695 | 8 | 4595 | 15 | 6246 | 2 | 5773 | 10 |
| 7 | KDM-399 | 3392 | 18 | 2885 | 17 | 2543 | 17 | 5130 | 14 | 4727 | 17 | 4156 | 18 | 3806 | 18 | 4866 | 15 | 3618 | 18 |
| 8 | REH-2001 | 4237 | 11 | 4238 | 8 | 4121 | 6 | 8436 | 1 | 5976 | 10 | 5343 | 12 | 5392 | 3 | 5793 | 7 | 6480 | 3 |
| 9 | REH-2002 | 3455 | 17 | 4452 | 6 | 3577 | 11 | 6569 | 5 | 6379 | 7 | 5403 | 11 | 4973 | 9 | 5350 | 12 | 4940 | 14 |
| 10 | REH-2003 | 3746 | 15 | 2966 | 16 | 4348 | 4 | 6073 | 9 | 6832 | 5 | 5036 | 15 | 4833 | 12 | 5221 | 13 | 4498 | 17 |
| 11 | JH-31236 | 6775 | 1 | 4170 | 9 | 3529 | 12 | 7532 | 3 | 6245 | 9 | 7327 | 1 | 5930 | 1 | 6146 | 3 | 7865 | 1 |
| 12 | JH-31308 | 4617 | 7 | 4723 | 1 | 3949 | 9 | 7478 | 4 | 4551 | 18 | 5871 | 5 | 5198 | 7 | 5400 | 10 | 4836 | 15 |
| 13 | AH-97002 | 4709 | 5 | 3628 | 11 | 3602 | 10 | 4536 | 17 | 5694 | 13 | 6234 | 3 | 4734 | 14 | 5937 | 5 | 6215 | 7 |
| 14 | AH-97017 | 4026 | 13 | 3233 | 14 | 2761 | 16 | 4825 | 15 | 5476 | 15 | 5731 | 7 | 4342 | 16 | 5478 | 9 | 5814 | 9 |
| 15 | AH-97018 | 4573 | 8 | 2632 | 18 | 3224 | 13 | 4474 | 18 | 5336 | 16 | 5414 | 10 | 4275 | 17 | 6411 | 1 | 5206 | 13 |
| 16 | BIO-605 | 4563 | 9 | 4502 | 5 | 4073 | 8 | 7631 | 2 | 5828 | 11 | 5578 | 9 | 5362 | 4 | 6080 | 4 | 7154 | 2 |
| 17 | KH-9560 | 5262 | 2 | 4423 | 7 | 2106 | 18 | 6390 | 8 | 8340 | 1 | 4799 | 16 | 5220 | 6 | 5510 | 8 | 5912 | 8 |
| 18 | PARKASH | 4637 | 6 | 4646 | 2 | 4608 | 2 | 6457 | 7 | 7047 | 3 | 4758 | 17 | 5359 | 5 | 5095 | 14 | 6286 | 5 |
| | Location Mean | 4431 | | 3861 | | 3659 | | 6073 | | 6188 | | 5548 | | 4960 | | 5502 | | 5710 | |
| | Mean Stand | 34 | | 32 | | 26 | | 38 | | 30 | | 35 | | 32 | | 31 | | 34 | |
| | C.D. (5%) | 905 | | 816 | | 227 | | 693 | | 1812 | | 1671 | | 1021 | | 1730 | | 1284 | |
| | C.V. (%) | 12.29 | | 12.73 | | 3.73 | | 6.87 | | 17.63 | | 18.13 | | - | | 18.93 | | 13.53 | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0.196 | | 0.117 | | | | 0.662 | | 0 | |
| | Plot Size | 4.8 | | 6 | | 4.8 | | 4.8 | | 5.6 | | 4.8 | | - | | 6 | | 6 | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-09 | | 7-07 | | 26-07 | | 1-07 | | 6-07 | | 17-07 | | - | | 17-07 | | 6-07 | |
| | Harvest Date | 10-12 | | - | | 9-11 | | 15-10 | | 17-10 | | - | | - | | 6-11 | | 5-11 | |
| | Irrigation Nos | - | | - | | - | | 1 | | - | | - | | - | | 6 | | 2 | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 100 | | - | | 80 | | - | | 150 | | 180 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 50 | | - | | 75 | | 60 | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | - | | 30 | | - | | 37.5 | | 50 | |

TABLE No. 3 (Cont..)

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|
| Sl | | KARI | | KOLH | | MAND | | COIM | | HYDE | | ZN 4 | | UDAI | | BANS | |
| No | PEDIGREE | | R | | R | | R | | R | BIOS | R | MEAN | R | | R | | R |
| 1 | EHL-162408 | 2655 | 15 | 6955 | 13 | 6359 | 10 | 9528 | 9 | 5877 | 11 | 5911 | 15 | 3776 | 17 | 5070 | 3 |
| 2 | EHL-162508 | 4886 | 2 | 7233 | 9 | 5271 | 17 | 7727 | 16 | 6783 | 6 | 5912 | 14 | 4686 | 12 | 5709 | 1 |
| 3 | FH-3506 | 5733 | 1 | 8549 | 2 | 8781 | 2 | 9536 | 8 | 6247 | 8 | 7208 | 2 | 5934 | 7 | 4975 | 6 |
| 4 | EH-2005 | 3927 | 9 | 7901 | 5 | 6522 | 9 | 10174 | 6 | 5419 | 17 | 6452 | 10 | 8293 | 1 | 4608 | 8 |
| 5 | EH-1992 | 3971 | 6 | 8252 | 4 | 6733 | 7 | 9260 | 10 | 5933 | 10 | 6504 | 8 | 6764 | 3 | 3619 | 15 |
| 6 | EH-1971 | 2436 | 16 | 6800 | 15 | 5645 | 12 | 9233 | 11 | 5537 | 15 | 5953 | 13 | 6403 | 5 | 3562 | 16 |
| 7 | KDM-399 | 3062 | 14 | 4761 | 18 | 5252 | 18 | 6913 | 18 | 4406 | 18 | 4697 | 18 | 3852 | 16 | 3338 | 17 |
| 8 | REH-2001 | 1654 | 18 | 7566 | 8 | 9331 | 1 | 11514 | 2 | 6846 | 5 | 7026 | 3 | 4566 | 14 | 4113 | 12 |
| 9 | REH-2002 | 4021 | 5 | 7144 | 11 | 7505 | 6 | 10713 | 4 | 8120 | 2 | 6828 | 5 | 4712 | 10 | 4305 | 11 |
| 10 | REH-2003 | 4324 | 4 | 7768 | 7 | 8757 | 3 | 11190 | 3 | 6776 | 7 | 6933 | 4 | 4668 | 13 | 3952 | 14 |
| 11 | JH-31236 | 3961 | 7 | 7891 | 6 | 5505 | 14 | 8440 | 13 | 5560 | 13 | 6481 | 9 | 6430 | 4 | 4003 | 13 |
| 12 | JH-31308 | 3423 | 13 | 7149 | 10 | 8325 | 4 | 10075 | 7 | 6979 | 3 | 6598 | 7 | 4825 | 9 | 4554 | 9 |
| 13 | AH-97002 | 3430 | 12 | 6578 | 17 | 5518 | 13 | 8191 | 14 | 6168 | 9 | 6005 | 12 | 6188 | 6 | 4777 | 7 |
| 14 | AH-97017 | 4867 | 3 | 6975 | 12 | 6708 | 8 | 8144 | 15 | 5538 | 14 | 6218 | 11 | 4698 | 11 | 5121 | 2 |
| 15 | AH-97018 | 3929 | 8 | 6955 | 14 | 5505 | 15 | 7094 | 17 | 5477 | 16 | 5797 | 16 | 3609 | 18 | 2749 | 18 |
| 16 | BIO-605 | 3925 | 10 | 9208 | 1 | 7931 | 5 | 11784 | 1 | 8865 | 1 | 7850 | 1 | 5759 | 8 | 4990 | 5 |
| 17 | KH-9560 | 3568 | 11 | 8435 | 3 | 5825 | 11 | 10499 | 5 | 6876 | 4 | 6661 | 6 | 7111 | 2 | 5065 | 4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 18 | PARKASH | 1852 | 17 | 6797 | 16 | 5458 | 16 | 8546 | 12 | 5729 | 12 | 5680 | 17 | 3930 | 15 | 4387 | 10 |
| | Location Mean | 3646 | | 7384 | | 6718 | | 9365 | | 6285 | | 6373 | | 5345 | | 4383 | |
| | Mean Stand | 35 | | 39 | | 34 | | 32 | | 34 | | 34 | | 32 | | 29 | |
| | C.D. (5%) | 401 | | 1698 | | 877 | | 1091 | | 733 | | 1116 | | 549 | | 718 | |
| | C.V. (%) | 6.62 | | 13.84 | | 7.86 | | 7.01 | | 7.02 | | - | | 6.19 | | 9.87 | |
| | F (Prob) | 0 | | 0.005 | | 0 | | 0 | | 0 | | - | | 0 | | 0 | |
| | Plot Size | 6 | | 4.8 | | 5.6 | | 4.8 | | 4.8 | | - | | 4.8 | | 4.8 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 12-07 | | 19-07 | | 24-07 | | 9-07 | | 27-06 | | - | | 30-06 | | 8-07 | |
| | Harvest Date | 9-10 | | 5-12 | | 23-11 | | 5-11 | | 27-09 | | - | | 1-10 | | 23-10 | |
| | Irrigation Nos | - | | - | | 6 | | 10 | | 2 | | - | | 2 | | 2 | |
| | Fertilizer Applied N | 200 | | 100 | | 150 | | 150 | | 120 | | - | | 90 | | 90 | |
| | Fertilizer Applied P | 80 | | 50 | | 75 | | 75 | | 60 | | - | | 60 | | 40 | |
| | Fertilizer Applied K | 60 | | 30 | | 40 | | 75 | | 40 | | - | | - | | - | |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) | | | | AT 15% MOISTURE | | | | RAINFED TRIALS | | | | | |
|---------------|----------------------|---------------------|----|--------------|----|-----------------|----|--------------|----|----------------|----|--------------|----|--------------|----|
| | | CHHI | R | ZN 5 MEAN | R | OV'L MEAN | R | ZN 1 UDHA | R | ZN 2 LUDH | R | ZN 5 GODH | R | OV'L MEAN | R |
| 1 | EHL-162408 | 4849 | 4 | 4565 | 11 | 5736 | 8 | 3678 | 2 | 5390 | 15 | 2234 | 15 | 3768 | 14 |
| 2 | EHL-162508 | 4723 | 5 | 5039 | 5 | 5631 | 12 | 3832 | 1 | 5988 | 12 | 2048 | 18 | 3956 | 11 |
| 3 | FH-3506 | 5144 | 2 | 5351 | 3 | 6388 | 2 | 2677 | 7 | 6787 | 8 | 3236 | 7 | 4234 | 6 |
| 4 | EH-2005 | 3286 | 15 | 5395 | 2 | 5769 | 7 | 3164 | 4 | 5498 | 14 | 2656 | 11 | 3773 | 13 |
| 5 | EH-1992 | 3956 | 11 | 4780 | 8 | 5734 | 9 | 2627 | 9 | 5672 | 13 | 3852 | 4 | 4050 | 9 |
| 6 | EH-1971 | 4079 | 9 | 4681 | 9 | 5444 | 15 | 2228 | 13 | 7120 | 7 | 3716 | 5 | 4355 | 5 |
| 7 | KDM-399 | 2048 | 18 | 3080 | 18 | 4377 | 18 | 2198 | 15 | 3590 | 18 | 2268 | 14 | 2685 | 18 |
| 8 | REH-2001 | 4105 | 8 | 4262 | 13 | 6156 | 5 | 2292 | 12 | 7465 | 4 | 2735 | 10 | 4164 | 8 |
| 9 | REH-2002 | 3440 | 14 | 4153 | 15 | 5692 | 11 | 2812 | 5 | 6454 | 9 | 2181 | 16 | 3815 | 12 |
| 10 | REH-2003 | 3087 | 17 | 3903 | 16 | 5623 | 13 | 2226 | 14 | 5209 | 16 | 3021 | 9 | 3485 | 17 |
| 11 | JH-31236 | 4069 | 10 | 4834 | 7 | 6172 | 4 | 2666 | 8 | 8252 | 2 | 4401 | 2 | 5106 | 1 |
| 12 | JH-31308 | 3920 | 12 | 4433 | 12 | 5782 | 6 | 1879 | 18 | 7178 | 5 | 4382 | 3 | 4479 | 4 |
| 13 | AH-97002 | 3785 | 13 | 4917 | 6 | 5523 | 14 | 2171 | 16 | 6030 | 11 | 3673 | 6 | 3958 | 10 |
| 14 | AH-97017 | 4156 | 7 | 4659 | 10 | 5420 | 16 | 2034 | 17 | 6203 | 10 | 2533 | 12 | 3590 | 15 |
| 15 | AH-97018 | 3247 | 16 | 3202 | 17 | 4915 | 17 | 3223 | 3 | 4955 | 17 | 2384 | 13 | 3520 | 16 |
| 16 | BIO-605 | 5214 | 1 | 5321 | 4 | 6588 | 1 | 2575 | 10 | 9337 | 1 | 3205 | 8 | 5039 | 2 |
| 17 | KH-9560 | 5042 | 3 | 5739 | 1 | 6269 | 3 | 2359 | 11 | 7142 | 6 | 4667 | 1 | 4723 | 3 |
| CHECKS | | | | | | | | | | | | | | | |
| 18 | PARKASH | 4260 | 6 | 4192 | 14 | 5714 | 10 | 2798 | 6 | 7838 | 3 | 2061 | 17 | 4232 | 7 |
| | Location Mean | 4023 | | 4584 | | 5719 | | 2636 | | 6450 | | 3070 | | 4052 | |
| | Mean Stand | 38 | | 33 | | 33 | | 23 | | 35 | | 36 | | 31 | |
| | C.D. (5%) | 541 | | 603 | | 1081 | | 497 | | 1155 | | 843 | | 831 | |
| | C.V. (%) | 8.1 | | - | | - | | 11.35 | | 10.78 | | 16.52 | | - | |
| | F (Prob) | 0 | | | | | | 0 | | 0 | | 0 | | | |
| | Plot Size | 6 | | - | | - | | 6 | | 5.46 | | 4.8 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | |
| | Sowing Date | 14-07 | | - | | - | | 8-07 | | 13-07 | | 27-07 | | - | |
| | Harvest Date | 22-11 | | - | | - | | 22-10 | | 20-10 | | 28-10 | | - | |
| | Irrigation Nos | - | | - | | - | | - | | - | | - | | - | |
| | Fertilizer Applied N | 120 | | - | | - | | 80 | | 80 | | 100 | | - | |
| | Fertilizer Applied P | 60 | | - | | - | | 60 | | 40 | | 50 | | - | |
| | Fertilizer Applied K | 40 | | - | | - | | 40 | | - | | 50 | | - | |

TABLE No. 3 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE PARKASH | | | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| S1 | | ZN 1 | | | | | ZN 2 | | | | | | | | | |
| No | PEDIGREE | ALMO | BAJA | BARA | KANG | MEAN | DELH | KARN | PANT | KANP | MEAN | BAHR | DHOL | JASH | VARA | |
| 1 | EHL-162408 | 22.4 | 2.8 | - | - | 1.4 | - | - | 0.8 | 4.8 | - | 10.5 | - | - | - | |
| 2 | EHL-162508 | 10.7 | 26.5 | 1.5 | - | 3.4 | - | 3.5 | - | 6.5 | - | 2 | - | - | - | |
| 3 | FH-3506 | 34.1 | 24.4 | 6.2 | - | 10.9 | - | 8.7 | 18.2 | 3.3 | 2.1 | - | - | - | 1.5 | |
| 4 | EH-2005 | 8.8 | 2.4 | 20.4 | - | - | - | - | - | - | - | - | - | - | - | |
| 5 | EH-1992 | 18.4 | 13.9 | - | - | - | - | - | 17.3 | 4.4 | - | - | - | 1.4 | - | |
| 6 | EH-1971 | 4.2 | 15.6 | 9.8 | - | - | - | - | - | 0.7 | - | - | - | - | - | |
| 7 | KDM-399 | - | 11.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8 | REH-2001 | 35.8 | 13.9 | - | - | 3.2 | - | - | 19.1 | 5.9 | 0.2 | - | - | - | 30.7 | |
| 9 | REH-2002 | - | 32.9 | - | - | - | - | - | - | 4.4 | - | - | - | - | 1.7 | |
| 10 | REH-2003 | - | 47.8 | 26.2 | - | 0.3 | - | - | - | - | - | - | - | - | - | |
| 11 | JH-31236 | 26.1 | - | - | - | - | - | - | 19.4 | 0.8 | 3.3 | 46.1 | - | - | 16.6 | |
| 12 | JH-31308 | 2.4 | 11.5 | - | - | - | - | - | 4.2 | 8.2 | - | - | 1.6 | - | 15.8 | |
| 13 | AH-97002 | - | 13.8 | - | - | - | - | - | - | 4.9 | - | 1.6 | - | - | - | |
| 14 | AH-97017 | - | 10.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 15 | AH-97018 | - | 1.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 16 | BIO-605 | 30.8 | 47.6 | 5 | - | 12.4 | - | 4.2 | 17.3 | - | - | - | - | - | 18.2 | |
| 17 | KH-9560 | 55.9 | 34.1 | - | - | 12.1 | - | 10.7 | 12.1 | 5.1 | - | 13.5 | - | - | - | |
| | CHECKS | | | | | | | | | | | | | | | |
| 18 | PARKASH | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

TABLE No. 3 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE PARKASH | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------|-------|------|------|------|------|------|------|
| S1 | | | ZN 3 | | | | | | | | HYDE | ZN 4 | |
| No | PEDIGREE | RANC | AMBI | MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | BIOS | MEAN | UDAI |
| 1 | EHL-162408 | 10.6 | 37.1 | 3 | - | - | 43.3 | 2.3 | 16.5 | 11.5 | 2.6 | 4.1 | - |
| 2 | EHL-162508 | - | 9.4 | - | - | - | 163.8 | 6.4 | - | - | 18.4 | 4.1 | 19.2 |
| 3 | FH-3506 | - | 21.8 | - | 5.7 | - | 209.5 | 25.8 | 60.9 | 11.6 | 9 | 26.9 | 51 |
| 4 | EH-2005 | - | 23.6 | - | - | 1.9 | 112 | 16.2 | 19.5 | 19.1 | - | 13.6 | 111 |
| 5 | EH-1992 | - | 7.2 | - | 14.9 | - | 114.4 | 21.4 | 23.3 | 8.4 | 3.6 | 14.5 | 72.1 |
| 6 | EH-1971 | - | 19.7 | - | 22.6 | - | 31.5 | 0 | 3.4 | 8 | - | 4.8 | 62.9 |
| 7 | KDM-399 | - | - | - | - | - | 65.3 | - | - | - | - | - | - |
| 8 | REH-2001 | - | 12.3 | 0.6 | 13.7 | 3.1 | - | 11.3 | 71 | 34.7 | 19.5 | 23.7 | 16.2 |
| 9 | REH-2002 | - | 13.6 | - | 5 | - | 117.1 | 5.1 | 37.5 | 25.4 | 41.7 | 20.2 | 19.9 |
| 10 | REH-2003 | - | 5.8 | - | 2.5 | - | 133.4 | 14.3 | 60.4 | 30.9 | 18.3 | 22.1 | 18.8 |
| 11 | JH-31236 | - | 54 | 10.6 | 20.6 | 25.1 | 113.9 | 16.1 | 0.9 | - | - | 14.1 | 63.6 |
| 12 | JH-31308 | - | 23.4 | - | 6 | - | 84.8 | 5.2 | 52.5 | 17.9 | 21.8 | 16.2 | 22.8 |
| 13 | AH-97002 | - | 31 | - | 16.5 | - | 85.2 | - | 1.1 | - | 7.7 | 5.7 | 57.5 |
| 14 | AH-97017 | - | 20.5 | - | 7.5 | - | 162.8 | 2.6 | 22.9 | - | - | 9.5 | 19.6 |
| 15 | AH-97018 | - | 13.8 | - | 25.8 | - | 112.1 | 2.3 | 0.8 | - | - | 2 | - |
| 16 | BIO-605 | - | 17.2 | 0.1 | 19.3 | 13.8 | 111.9 | 35.5 | 45.3 | 37.9 | 54.7 | 38.2 | 46.5 |
| 17 | KH-9560 | 18.3 | 0.8 | - | 8.2 | - | 92.6 | 24.1 | 6.7 | 22.9 | 20 | 17.3 | 80.9 |
| | CHECKS | | | | | | | | | | | | |
| 18 | PARKASH | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE No. 3 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE PARKASH | | | | | | | | | |
|--|------------|------|------|--------------|--------------|--------------|--------------|--------------|--------------|
| S1 No | PEDIGREE | BANS | CHHI | ZN 5 MEAN | OV'L MEAN | ZN 1 UDHA | ZN 2 LUDH | ZN 5 GODH | OV'L MEAN |
| 1 | EHL-162408 | 15.6 | 13.8 | 8.9 | 0.4 | 31.5 | - | 8.4 | - |
| 2 | EHL-162508 | 30.1 | 10.9 | 20.2 | - | 37 | - | - | - |
| 3 | FH-3506 | 13.4 | 20.8 | 27.6 | 11.8 | - | - | 57 | 0 |
| 4 | EH-2005 | 5 | - | 28.7 | 1 | 13.1 | - | 28.9 | - |
| 5 | EH-1992 | - | - | 14 | 0.3 | - | - | 86.9 | - |
| 6 | EH-1971 | - | - | 11.7 | - | - | - | 80.3 | 2.9 |
| 7 | KDM-399 | - | - | - | - | - | - | 10 | - |
| 8 | REH-2001 | - | - | 1.7 | 7.7 | - | - | 32.7 | - |
| 9 | REH-2002 | - | - | - | - | 0.5 | - | 5.8 | - |
| 10 | REH-2003 | - | - | - | - | - | - | 46.5 | - |
| 11 | JH-31236 | - | - | 15.3 | 8 | - | 5.3 | 113.5 | 20.7 |
| 12 | JH-31308 | 3.8 | - | 5.7 | 1.2 | - | - | 112.6 | 5.8 |
| 13 | AH-97002 | 8.9 | - | 17.3 | - | - | - | 78.2 | - |
| 14 | AH-97017 | 16.7 | - | 11.1 | - | - | - | 22.9 | - |
| 15 | AH-97018 | - | - | - | - | 15.2 | - | 15.6 | - |
| 16 | BIO-605 | 13.7 | 22.4 | 26.9 | 15.3 | - | 19.1 | 55.5 | 19.1 |
| 17 | KH-9560 | 15.4 | 18.4 | 36.9 | 9.7 | - | - | 126.4 | 11.6 |
| | CHECKS | | | | | | | | |
| 18 | PARKASH | - | - | - | - | - | - | - | - |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL | JASH |
|----------|------------|-------------------------|------|------|------|--------------|------|------|------|------|--------------|------|------|------|
| | | ALMO | BAJA | BARA | KANG | | | | | | | | | |
| 1 | EHL-162408 | 52.3 | 51.3 | 55.3 | 50.0 | 52.3 | 50.0 | 47.0 | 50.3 | 52.0 | 49.8 | 52.3 | 51.7 | 45.7 |
| 2 | EHL-162508 | 52.7 | 52.0 | 56.3 | 47.3 | 52.1 | 49.7 | 46.7 | 51.0 | 52.0 | 49.8 | 50.3 | 51.3 | 44.3 |
| 3 | FH-3506 | 50.7 | 53.3 | 55.0 | 49.7 | 52.2 | 47.7 | 45.7 | 50.3 | 47.7 | 47.8 | 48.3 | 49.0 | 41.7 |
| 4 | EH-2005 | 52.3 | 53.0 | 56.0 | 51.3 | 53.2 | 48.0 | 45.3 | 51.0 | 49.0 | 48.3 | 51.7 | 51.0 | 44.3 |
| 5 | EH-1992 | 51.0 | 53.3 | 55.3 | 55.3 | 53.8 | 48.3 | 46.7 | 50.7 | 46.0 | 47.9 | 48.3 | 49.7 | 44.3 |
| 6 | EH-1971 | 53.7 | 56.3 | 54.7 | 49.7 | 53.6 | 49.7 | 46.0 | 51.3 | 45.0 | 48.0 | 50.3 | 51.0 | 45.0 |
| 7 | KDM-399 | 53.3 | 53.7 | 55.0 | 50.0 | 53.0 | 51.0 | 47.3 | 51.7 | 52.0 | 50.5 | 52.3 | 54.3 | 46.7 |
| 8 | REH-2001 | 55.7 | 57.7 | 56.0 | 51.7 | 55.3 | 52.7 | 46.3 | 54.7 | 50.0 | 50.9 | 53.0 | 55.0 | 50.3 |
| 9 | REH-2002 | 56.0 | 56.3 | 56.0 | 51.7 | 55.0 | 53.3 | 46.7 | 55.0 | 53.0 | 52.0 | 52.3 | 56.0 | 49.3 |
| 10 | REH-2003 | 56.3 | 60.7 | 55.0 | 53.7 | 56.4 | 53.7 | 46.3 | 55.3 | 50.0 | 51.3 | 53.3 | 56.3 | 50.7 |
| 11 | JH-31236 | 51.3 | 53.3 | 53.7 | 49.7 | 52.0 | 48.3 | 46.7 | 51.0 | 50.0 | 49.0 | 49.3 | 50.0 | 43.7 |
| 12 | JH-31308 | 51.0 | 53.3 | 56.0 | 50.7 | 52.8 | 48.3 | 46.0 | 50.0 | 45.0 | 47.3 | 48.7 | 49.0 | 43.7 |
| 13 | AH-97002 | 53.0 | 58.0 | 55.3 | 52.3 | 54.7 | 49.3 | 46.3 | 51.3 | 51.0 | 49.5 | 51.7 | 52.7 | 44.7 |
| 14 | AH-97017 | 52.3 | 56.0 | 58.3 | 51.0 | 54.4 | 48.7 | 47.0 | 51.7 | 48.0 | 48.8 | 50.0 | 51.7 | 45.0 |
| 15 | AH-97018 | 52.0 | 59.7 | 55.3 | 48.3 | 53.8 | 48.3 | 46.0 | 50.0 | 50.0 | 48.6 | 51.3 | 52.3 | 44.3 |
| 16 | BIO-605 | 54.0 | 56.3 | 54.7 | 49.7 | 53.7 | 52.7 | 46.3 | 51.7 | 50.0 | 50.2 | 52.3 | 53.7 | 45.3 |
| 17 | KH-9560 | 52.0 | 54.7 | 56.0 | 50.0 | 53.2 | 49.3 | 46.0 | 50.0 | 50.0 | 48.8 | 50.3 | 51.7 | 42.7 |
| CHECKS | | | | | | | | | | | | | | |
| 18 | PARKASH | 50.7 | 53.3 | 57.3 | 48.0 | 52.3 | 46.3 | 46.3 | 49.7 | 48.0 | 47.6 | 48.7 | 49.0 | 41.7 |
| | Loc. Mean | 52.8 | 55.1 | 55.6 | 50.6 | 53.5 | 49.7 | 46.4 | 51.5 | 49.4 | 49.2 | 50.8 | 52.0 | 45.2 |
| | C.D. (5%) | 1.10 | 1.00 | 3.80 | 1.10 | 2.40 | 2.40 | 1.30 | 1.60 | 0.20 | 2.00 | 2.60 | 2.10 | 1.80 |
| | C.D. (1%) | 1.50 | 1.30 | 5.10 | 1.50 | 3.20 | 3.20 | 1.80 | 2.10 | 0.30 | 2.70 | 3.50 | 2.90 | 2.40 |
| | C.V. (%) | 1.23 | 1.06 | 4.08 | 1.35 | 3.20 | 2.91 | 1.70 | 1.83 | 0.28 | 2.86 | 3.09 | 2.47 | 2.34 |
| | F (Prob.) | 0.00 | 0.00 | 0.84 | 0.00 | 0.02 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | Zone Mean | |
|----------|------------|-------------------------|------|------|--------------|------|------|------|------|------|------|--------------|--------------|
| | | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | HYDE BIOS |
| 1 | EHL-162408 | 47.3 | 46.0 | 49.0 | 48.7 | 53.7 | 50.3 | 48.0 | 52.7 | 50.0 | 46.7 | 48.0 | 49.9 |
| 2 | EHL-162508 | 46.3 | 46.7 | 50.7 | 48.3 | 53.3 | 49.3 | 49.3 | 52.3 | 50.0 | 48.0 | 48.0 | 50.0 |
| 3 | FH-3506 | 47.3 | 46.0 | 49.3 | 46.9 | 51.3 | 52.3 | 46.3 | 50.7 | 48.3 | 45.7 | 47.7 | 48.9 |
| 4 | EH-2005 | 44.0 | 45.7 | 49.7 | 47.7 | 53.7 | 50.3 | 48.7 | 52.3 | 50.0 | 46.7 | 48.0 | 50.0 |
| 5 | EH-1992 | 45.7 | 46.3 | 49.0 | 47.2 | 53.0 | 47.3 | 48.3 | 51.7 | 50.0 | 47.0 | 47.3 | 49.2 |
| 6 | EH-1971 | 45.7 | 46.0 | 50.3 | 48.1 | 53.0 | 52.0 | 48.3 | 52.7 | 49.3 | 47.0 | 50.0 | 50.3 |
| 7 | KDM-399 | 46.0 | 47.3 | 49.0 | 49.3 | 54.0 | 47.7 | 47.7 | 52.0 | 50.7 | 47.7 | 49.0 | 49.8 |
| 8 | REH-2001 | 48.7 | 47.7 | 49.0 | 50.6 | 56.3 | 48.7 | 46.7 | 55.7 | 52.7 | 50.0 | 52.0 | 51.7 |
| 9 | REH-2002 | 51.7 | 48.7 | 48.7 | 51.1 | 56.7 | 48.3 | 50.3 | 56.0 | 54.0 | 52.7 | 48.3 | 52.3 |
| 10 | REH-2003 | 47.0 | 48.7 | 50.0 | 51.0 | 56.3 | 50.3 | 47.7 | 55.7 | 55.3 | 53.3 | 49.7 | 52.6 |
| 11 | JH-31236 | 45.7 | 46.7 | 48.3 | 47.3 | 52.3 | 51.0 | 48.3 | 54.0 | 49.7 | 47.0 | 48.3 | 50.1 |
| 12 | JH-31308 | 48.0 | 46.3 | 49.0 | 47.4 | 52.3 | 50.7 | 46.3 | 51.3 | 50.0 | 46.7 | 48.0 | 49.3 |
| 13 | AH-97002 | 48.7 | 46.0 | 49.3 | 48.8 | 53.0 | 48.3 | 48.7 | 53.3 | 49.7 | 46.0 | 48.7 | 49.7 |
| 14 | AH-97017 | 46.0 | 45.7 | 50.0 | 48.1 | 53.3 | 50.3 | 48.0 | 51.0 | 49.3 | 47.3 | 48.0 | 49.6 |
| 15 | AH-97018 | 46.7 | 46.0 | 48.7 | 48.2 | 53.3 | 50.3 | 46.3 | 52.7 | 50.3 | 46.7 | 48.3 | 49.7 |
| 16 | BIO-605 | 50.3 | 47.0 | 48.7 | 49.6 | 53.7 | 49.7 | 50.7 | 54.0 | 51.0 | 47.7 | 48.0 | 50.7 |
| 17 | KH-9560 | 46.3 | 46.7 | 49.7 | 47.9 | 52.3 | 49.0 | 48.7 | 51.3 | 51.3 | 47.0 | 48.0 | 49.7 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 47.0 | 47.3 | 50.0 | 47.3 | 52.3 | 48.7 | 48.7 | 51.3 | 50.0 | 46.0 | 47.7 | 49.2 |
| | Loc. Mean | 47.1 | 46.7 | 49.4 | 48.5 | 53.6 | 49.7 | 48.2 | 52.8 | 50.6 | 47.7 | 48.5 | 50.2 |
| | C.D. (5%) | 1.30 | 1.50 | 2.40 | 1.60 | 1.50 | 2.00 | 2.40 | 1.80 | 1.70 | 0.80 | 1.00 | 1.30 |
| | C.D. (1%) | 1.70 | 2.10 | 3.30 | 2.10 | 2.00 | 2.60 | 3.30 | 2.40 | 2.20 | 1.10 | 1.40 | 1.80 |
| | C.V. (%) | 1.66 | 1.97 | 2.98 | 2.81 | 1.66 | 2.38 | 3.06 | 2.06 | 1.99 | 1.04 | 1.25 | 2.52 |
| | F (Prob.) | 0.00 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
|----------|------------|-------------------------|------|------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | Zone Mean | | | | | |
| 1 | EHL-162408 | 49.0 | 46.3 | 53.3 | 49.6 | 49.9 | 49.3 | 48.7 | 50.0 | 49.3 |
| 2 | EHL-162508 | 49.0 | 47.7 | 53.3 | 50.0 | 49.9 | 50.3 | 48.3 | 48.3 | 49.0 |
| 3 | FH-3506 | 48.0 | 45.0 | 49.3 | 47.4 | 48.6 | 48.7 | 43.0 | 46.7 | 46.1 |
| 4 | EH-2005 | 48.0 | 45.3 | 51.0 | 48.1 | 49.4 | 50.7 | 44.0 | 48.0 | 47.6 |
| 5 | EH-1992 | 48.7 | 43.3 | 51.0 | 47.7 | 49.1 | 48.7 | 44.3 | 49.0 | 47.3 |
| 6 | EH-1971 | 49.7 | 46.7 | 51.7 | 49.3 | 49.8 | 52.3 | 47.0 | 49.3 | 49.6 |
| 7 | KDM-399 | 50.3 | 46.0 | 53.0 | 49.8 | 50.3 | 52.3 | 48.0 | 51.3 | 50.6 |
| 8 | REH-2001 | 52.0 | 47.0 | 55.0 | 51.3 | 51.8 | 55.0 | 49.3 | 52.7 | 52.3 |
| 9 | REH-2002 | 52.3 | 47.0 | 55.0 | 51.4 | 52.3 | 55.3 | 49.7 | 52.0 | 52.3 |
| 10 | REH-2003 | 52.7 | 46.7 | 55.0 | 51.4 | 52.5 | 53.3 | 50.0 | 53.3 | 52.2 |
| 11 | JH-31236 | 50.0 | 47.0 | 50.7 | 49.2 | 49.4 | 48.7 | 43.7 | 48.0 | 46.8 |
| 12 | JH-31308 | 48.7 | 42.0 | 49.3 | 46.7 | 48.8 | 47.7 | 44.7 | 47.0 | 46.4 |
| 13 | AH-97002 | 50.3 | 46.0 | 52.3 | 49.6 | 50.3 | 54.3 | 46.0 | 48.3 | 49.6 |
| 14 | AH-97017 | 49.0 | 45.3 | 51.3 | 48.6 | 49.8 | 50.3 | 47.0 | 47.7 | 48.3 |
| 15 | AH-97018 | 48.7 | 43.3 | 52.3 | 48.1 | 49.6 | 50.0 | 45.0 | 48.3 | 47.8 |
| 16 | BIO-605 | 51.0 | 47.0 | 52.7 | 50.2 | 50.8 | 54.0 | 48.7 | 50.3 | 51.0 |
| 17 | KH-9560 | 49.3 | 44.3 | 51.7 | 48.4 | 49.5 | 49.0 | 49.0 | 48.7 | 48.9 |
| | CHECKS | | | | | | | | | |
| 18 | PARKASH | 49.7 | 44.3 | 50.3 | 48.1 | 48.8 | 48.0 | 43.7 | 47.7 | 46.4 |
| | Loc. Mean | 49.8 | 45.6 | 52.1 | 49.2 | 50.0 | 51.0 | 46.7 | 49.3 | 49.0 |
| | C.D. (5%) | 1.30 | 2.70 | 1.00 | 1.60 | 0.80 | 2.37 | 1.96 | 1.56 | 2.05 |
| | C.D. (1%) | 1.70 | 3.60 | 1.30 | 2.10 | 1.00 | | | | |
| | C.V. (%) | 1.55 | 3.55 | 1.12 | 1.90 | 2.67 | 2.80 | 2.53 | 1.91 | 2.52 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | Zone | | | |
|----------|------------|---------------------|------|------|------|--------------|------|------|------|------|--------------|------|------|
| | | ALMO | BAJA | BARA | KANG | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL |
| 1 | EHL-162408 | 53.7 | 53.3 | 57.0 | 53.3 | 54.3 | 54.7 | 49.0 | 53.0 | 56.0 | 53.2 | 54.3 | 53.3 |
| 2 | EHL-162508 | 54.7 | 54.3 | 58.3 | 51.0 | 54.6 | 53.7 | 48.7 | 53.0 | 59.0 | 53.6 | 52.3 | 53.0 |
| 3 | FH-3506 | 51.7 | 55.3 | 56.3 | 52.7 | 54.0 | 51.0 | 47.7 | 52.3 | 53.3 | 51.1 | 50.3 | 50.3 |
| 4 | EH-2005 | 52.7 | 55.3 | 58.0 | 54.3 | 55.1 | 51.0 | 47.3 | 53.0 | 53.0 | 51.1 | 50.3 | 52.0 |
| 5 | EH-1992 | 52.0 | 55.3 | 57.0 | 57.3 | 55.4 | 51.0 | 49.0 | 53.3 | 50.0 | 50.8 | 50.3 | 50.7 |
| 6 | EH-1971 | 55.0 | 58.3 | 56.3 | 53.7 | 55.8 | 54.7 | 48.3 | 54.0 | 50.0 | 51.8 | 52.7 | 52.0 |
| 7 | KDM-399 | 55.7 | 55.7 | 57.0 | 53.3 | 55.4 | 53.7 | 49.3 | 54.7 | 56.0 | 53.4 | 55.0 | 55.7 |
| 8 | REH-2001 | 56.7 | 60.0 | 57.7 | 55.0 | 57.3 | 55.0 | 48.7 | 58.0 | 54.0 | 53.9 | 55.3 | 56.3 |
| 9 | REH-2002 | 57.3 | 58.3 | 57.7 | 55.3 | 57.2 | 56.3 | 48.7 | 59.0 | 58.0 | 55.5 | 54.3 | 57.7 |
| 10 | REH-2003 | 58.3 | 63.3 | 57.0 | 57.0 | 58.9 | 57.0 | 48.3 | 59.0 | 55.0 | 54.8 | 55.3 | 57.7 |
| 11 | JH-31236 | 51.7 | 55.3 | 54.7 | 53.7 | 53.8 | 50.0 | 48.7 | 53.3 | 54.0 | 51.5 | 51.3 | 50.0 |
| 12 | JH-31308 | 51.7 | 55.3 | 57.7 | 54.3 | 54.8 | 51.0 | 48.0 | 52.0 | 49.0 | 50.0 | 50.7 | 50.0 |
| 13 | AH-97002 | 54.3 | 60.3 | 56.3 | 55.0 | 56.5 | 53.0 | 48.7 | 54.7 | 55.0 | 52.8 | 53.7 | 53.7 |
| 14 | AH-97017 | 53.7 | 58.3 | 60.3 | 53.7 | 56.5 | 50.0 | 49.3 | 54.3 | 52.3 | 51.5 | 52.0 | 52.7 |
| 15 | AH-97018 | 54.0 | 61.7 | 57.3 | 53.0 | 56.5 | 52.0 | 48.7 | 53.3 | 54.0 | 52.0 | 54.0 | 53.3 |
| 16 | BIO-605 | 55.7 | 58.7 | 56.0 | 54.7 | 56.3 | 56.0 | 48.7 | 55.3 | 54.0 | 53.5 | 54.3 | 55.0 |
| 17 | KH-9560 | 52.3 | 58.0 | 57.7 | 53.7 | 55.4 | 52.3 | 48.3 | 52.7 | 55.0 | 52.1 | 52.3 | 52.7 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 51.7 | 55.3 | 59.3 | 51.0 | 54.3 | 50.0 | 48.7 | 53.0 | 52.7 | 51.1 | 50.7 | 49.3 |
| | Loc. Mean | 54.0 | 57.4 | 57.3 | 54.0 | 55.7 | 52.9 | 48.6 | 54.3 | 53.9 | 52.4 | 52.7 | 53.1 |
| | C.D. (5%) | 1.20 | 1.00 | 4.10 | 1.90 | 2.50 | 2.10 | 1.30 | 2.00 | 2.10 | 2.30 | 1.00 | 2.10 |
| | C.D. (1%) | 1.60 | 1.40 | 5.50 | 2.60 | 3.30 | 2.90 | 1.70 | 2.70 | 2.80 | 3.10 | 1.30 | 2.80 |
| | C.V. (%) | 1.31 | 1.08 | 4.34 | 2.15 | 3.13 | 2.43 | 1.61 | 2.21 | 2.30 | 3.15 | 1.14 | 2.39 |
| | F (Prob.) | 0.00 | 0.00 | 0.71 | 0.00 | 0.01 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | Zone Mean | |
|----------|------------|---------------------|------|------|------|--------------|------|------|------|------|------|------|--------------|--------------|
| | | JASH | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | HYDE BIOS |
| 1 | EHL-162408 | 47.3 | 54.0 | 50.0 | 51.3 | 51.7 | 54.7 | 52.3 | 49.7 | 53.7 | 52.3 | 48.7 | 50.0 | 51.6 |
| 2 | EHL-162508 | 46.3 | 55.3 | 50.3 | 53.3 | 51.8 | 56.0 | 50.3 | 52.0 | 53.3 | 52.3 | 50.0 | 50.0 | 52.0 |
| 3 | FH-3506 | 44.3 | 51.7 | 49.3 | 52.3 | 49.7 | 52.0 | 52.0 | 48.3 | 51.7 | 50.0 | 47.7 | 49.7 | 50.2 |
| 4 | EH-2005 | 46.3 | 52.0 | 49.7 | 52.0 | 50.4 | 54.7 | 52.0 | 51.0 | 53.3 | 51.7 | 48.7 | 50.0 | 51.6 |
| 5 | EH-1992 | 46.3 | 50.3 | 50.0 | 52.0 | 49.9 | 53.7 | 49.3 | 50.7 | 52.7 | 52.0 | 48.7 | 49.3 | 50.9 |
| 6 | EH-1971 | 47.0 | 53.0 | 49.7 | 52.7 | 51.2 | 54.3 | 53.7 | 50.7 | 53.7 | 51.0 | 48.7 | 52.0 | 52.0 |
| 7 | KDM-399 | 48.3 | 52.3 | 51.3 | 52.0 | 52.4 | 55.3 | 49.7 | 49.3 | 53.0 | 52.7 | 49.7 | 51.0 | 51.5 |
| 8 | REH-2001 | 52.7 | 53.7 | 51.3 | 52.0 | 53.6 | 57.7 | 50.3 | 48.7 | 56.7 | 54.3 | 52.3 | 54.0 | 53.4 |
| 9 | REH-2002 | 53.0 | 56.7 | 52.7 | 52.3 | 54.4 | 57.7 | 51.7 | 52.3 | 57.0 | 56.0 | 54.7 | 50.3 | 54.2 |
| 10 | REH-2003 | 54.0 | 53.0 | 53.0 | 53.0 | 54.3 | 57.7 | 53.0 | 49.0 | 56.7 | 57.0 | 55.3 | 51.7 | 54.3 |
| 11 | JH-31236 | 45.7 | 50.3 | 50.3 | 51.3 | 49.8 | 51.7 | 52.7 | 50.3 | 55.0 | 51.7 | 49.0 | 49.7 | 51.4 |
| 12 | JH-31308 | 45.7 | 53.0 | 50.3 | 52.0 | 50.3 | 54.0 | 52.3 | 48.7 | 52.3 | 52.0 | 48.7 | 50.0 | 51.1 |
| 13 | AH-97002 | 46.7 | 56.0 | 50.0 | 52.0 | 52.0 | 54.0 | 50.0 | 51.3 | 54.3 | 51.7 | 48.0 | 50.7 | 51.4 |
| 14 | AH-97017 | 46.3 | 51.7 | 50.0 | 53.0 | 50.9 | 54.3 | 53.0 | 50.3 | 52.0 | 51.7 | 49.3 | 50.0 | 51.5 |
| 15 | AH-97018 | 46.3 | 54.3 | 50.7 | 52.3 | 51.8 | 54.7 | 52.7 | 48.0 | 53.7 | 52.7 | 48.3 | 50.3 | 51.5 |
| 16 | BIO-605 | 47.3 | 57.0 | 51.0 | 51.7 | 52.7 | 55.0 | 50.7 | 53.0 | 55.0 | 52.7 | 49.7 | 49.7 | 52.2 |
| 17 | KH-9560 | 45.0 | 53.0 | 50.3 | 52.3 | 50.9 | 53.0 | 51.3 | 50.7 | 52.3 | 53.3 | 49.0 | 50.0 | 51.4 |
| CHECKS | | | | | | | | | | | | | | |
| 18 | PARKASH | 43.3 | 51.3 | 51.3 | 52.7 | 49.8 | 53.0 | 50.3 | 50.7 | 52.3 | 52.0 | 48.0 | 49.7 | 50.9 |
| | Loc. Mean | 47.3 | 53.3 | 50.6 | 52.2 | 51.5 | 54.6 | 51.5 | 50.3 | 53.8 | 52.6 | 49.7 | 50.4 | 51.9 |
| | C.D. (5%) | 2.00 | 1.70 | 1.70 | 2.40 | 1.70 | 1.30 | 1.00 | 2.50 | 1.80 | 1.50 | 0.90 | 1.00 | 1.40 |
| | C.D. (1%) | 2.70 | 2.30 | 2.30 | 3.20 | 2.20 | 1.80 | 1.30 | 3.30 | 2.40 | 2.00 | 1.20 | 1.40 | 1.80 |
| | C.V. (%) | 2.52 | 1.96 | 2.03 | 2.75 | 2.79 | 1.45 | 1.13 | 2.95 | 2.03 | 1.69 | 1.11 | 1.24 | 2.48 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
|----------|------------|---------------------|------|------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | | | | | | |
| 1 | EHL-162408 | 51.0 | 49.3 | 53.7 | 51.3 | 52.3 | 54.3 | 49.7 | 51.7 | 51.9 |
| 2 | EHL-162508 | 52.3 | 50.7 | 55.0 | 52.7 | 52.7 | 55.3 | 49.3 | 51.3 | 52.0 |
| 3 | FH-3506 | 50.7 | 48.0 | 51.3 | 50.0 | 50.8 | 53.7 | 44.0 | 47.7 | 48.4 |
| 4 | EH-2005 | 49.3 | 48.3 | 53.0 | 50.2 | 51.6 | 55.0 | 45.0 | 51.0 | 50.3 |
| 5 | EH-1992 | 51.0 | 47.0 | 51.7 | 49.9 | 51.3 | 53.7 | 45.3 | 51.3 | 50.1 |
| 6 | EH-1971 | 51.7 | 49.7 | 53.0 | 51.4 | 52.3 | 56.3 | 48.0 | 51.3 | 51.9 |
| 7 | KDM-399 | 52.3 | 49.0 | 55.0 | 52.1 | 52.8 | 56.0 | 49.0 | 53.7 | 52.9 |
| 8 | REH-2001 | 53.3 | 50.3 | 56.0 | 53.2 | 54.2 | 58.7 | 50.3 | 54.3 | 54.4 |
| 9 | REH-2002 | 54.3 | 50.3 | 56.0 | 53.6 | 54.9 | 58.7 | 50.7 | 54.7 | 54.7 |
| 10 | REH-2003 | 54.7 | 49.7 | 56.0 | 53.4 | 55.1 | 57.0 | 51.0 | 56.0 | 54.7 |
| 11 | JH-31236 | 51.0 | 50.0 | 51.0 | 50.7 | 51.3 | 53.7 | 44.0 | 50.0 | 49.2 |
| 12 | JH-31308 | 50.7 | 45.0 | 51.0 | 48.9 | 51.1 | 53.3 | 45.7 | 47.3 | 48.8 |
| 13 | AH-97002 | 51.7 | 49.3 | 53.3 | 51.4 | 52.7 | 57.3 | 47.0 | 51.0 | 51.8 |
| 14 | AH-97017 | 51.7 | 48.7 | 52.3 | 50.9 | 52.1 | 55.7 | 48.0 | 49.7 | 51.1 |
| 15 | AH-97018 | 51.0 | 46.3 | 54.0 | 50.4 | 52.4 | 55.3 | 46.0 | 50.7 | 50.7 |
| 16 | BIO-605 | 52.7 | 50.0 | 54.3 | 52.3 | 53.3 | 57.7 | 49.7 | 51.7 | 53.0 |
| 17 | KH-9560 | 51.3 | 47.7 | 52.3 | 50.4 | 51.9 | 54.0 | 50.0 | 50.7 | 51.6 |
| CHECKS | | | | | | | | | | |
| 18 | PARKASH | 51.0 | 47.7 | 51.3 | 50.0 | 51.1 | 53.3 | 43.7 | 49.3 | 48.8 |
| | Loc. Mean | 51.8 | 48.7 | 53.4 | 51.3 | 52.4 | 55.5 | 47.6 | 51.3 | 51.5 |
| | C.D. (5%) | 1.00 | 2.70 | 0.70 | 1.50 | 0.80 | 1.98 | 1.89 | 1.98 | 1.98 |
| | C.D. (1%) | 1.40 | 3.70 | 1.00 | 2.10 | 1.00 | | | | |
| | C.V. (%) | 1.22 | 3.38 | 0.84 | 1.80 | 2.68 | 2.15 | 2.40 | 2.32 | 2.32 |
| | F (Prob.) | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | Zone | | | |
|----------|------------|----------------------|-------|-------|------|-------|-------|------|-------|------|------|------|------|
| | | ALMO | BAJA | BARA | KANG | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | DHOL |
| 1 | EHL-162408 | 96.3 | 102.3 | 96.3 | 87.7 | 95.7 | 82.7 | 81.3 | 100.0 | 80.3 | 86.1 | 76.0 | 84.7 |
| 2 | EHL-162508 | 100.3 | 105.3 | 101.3 | 91.3 | 99.6 | 84.0 | 80.3 | 100.0 | 76.3 | 85.2 | 76.3 | 84.7 |
| 3 | FH-3506 | 95.7 | 103.7 | 99.3 | 91.3 | 97.5 | 75.0 | 80.3 | 100.0 | 76.7 | 83.0 | 73.7 | 85.0 |
| 4 | EH-2005 | 100.3 | 106.3 | 100.0 | 90.0 | 99.2 | 72.3 | 79.7 | 100.0 | 75.3 | 81.8 | 73.7 | 86.7 |
| 5 | EH-1992 | 95.0 | 100.3 | 98.7 | 89.7 | 95.9 | 70.0 | 80.7 | 100.0 | 75.0 | 81.4 | 73.3 | 83.7 |
| 6 | EH-1971 | 98.7 | 105.3 | 97.3 | 91.3 | 98.2 | 90.7 | 79.7 | 100.0 | 77.0 | 86.8 | 74.3 | 85.0 |
| 7 | KDM-399 | 96.3 | 101.3 | 98.3 | 91.7 | 96.9 | 82.3 | 80.7 | 100.0 | 77.7 | 85.2 | 78.0 | 85.3 |
| 8 | REH-2001 | 100.3 | 106.7 | 98.3 | 90.7 | 99.0 | 87.0 | 79.7 | 100.0 | 74.0 | 85.2 | 77.3 | 88.0 |
| 9 | REH-2002 | 101.7 | 108.7 | 98.0 | 92.3 | 100.2 | 85.0 | 81.0 | 100.0 | 78.0 | 86.0 | 75.0 | 88.3 |
| 10 | REH-2003 | 102.0 | 105.3 | 98.3 | 89.3 | 98.7 | 89.0 | 80.7 | 100.0 | 75.0 | 86.2 | 73.7 | 88.3 |
| 11 | JH-31236 | 97.0 | 103.3 | 95.0 | 88.0 | 95.8 | 82.3 | 80.7 | 100.0 | 78.3 | 85.3 | 72.3 | 85.0 |
| 12 | JH-31308 | 93.3 | 100.7 | 99.7 | 90.7 | 96.1 | 71.7 | 80.3 | 100.0 | 76.7 | 82.2 | 71.7 | 85.0 |
| 13 | AH-97002 | 97.0 | 102.0 | 98.7 | 89.3 | 96.8 | 68.0 | 80.0 | 100.0 | 74.7 | 80.7 | 76.0 | 87.3 |
| 14 | AH-97017 | 94.0 | 99.7 | 103.3 | 87.7 | 96.2 | 72.3 | 80.3 | 100.0 | 75.3 | 82.0 | 76.0 | 83.7 |
| 15 | AH-97018 | 97.0 | 99.3 | 99.3 | 87.7 | 95.8 | 76.3 | 80.0 | 100.0 | 79.0 | 83.8 | 74.0 | 84.3 |
| 16 | BIO-605 | 97.3 | 101.7 | 97.0 | 89.3 | 96.3 | 75.0 | 80.7 | 100.0 | 72.7 | 82.1 | 75.0 | 87.3 |
| 17 | KH-9560 | 95.3 | 101.7 | 100.0 | 88.3 | 96.3 | 71.3 | 79.7 | 100.0 | 77.0 | 82.0 | 76.3 | 84.7 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 94.0 | 98.3 | 101.3 | 87.3 | 95.2 | 76.3 | 79.3 | 100.0 | 74.7 | 82.6 | 72.0 | 86.0 |
| | Loc. Mean | 97.3 | 102.9 | 98.9 | 89.6 | 97.2 | 78.4 | 80.3 | 100.0 | 76.3 | 83.8 | 74.7 | 85.7 |
| | C.D. (5%) | 2.20 | 4.80 | 5.90 | 1.20 | 2.90 | 16.70 | 1.70 | - | 2.80 | 5.00 | 2.40 | 2.40 |
| | C.D. (1%) | 3.00 | 6.50 | 7.90 | 1.60 | 3.80 | 22.50 | 2.20 | - | 3.80 | 6.70 | 3.20 | 3.20 |
| | C.V. (%) | 1.36 | 2.83 | 3.58 | 0.82 | 2.08 | 12.86 | 1.24 | - | 2.25 | 4.24 | 1.94 | 1.68 |
| | F (Prob.) | 0.00 | 0.00 | 0.57 | 0.00 | 0.01 | 0.17 | 0.60 | - | 0.00 | 0.27 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | Zone Mean | |
|----------|------------|----------------------|------|------|------|--------------|------|------|------|------|-------|--------------|------|
| | | JASH | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | | COIM |
| 1 | EHL-162408 | 85.0 | 88.3 | 90.5 | 81.3 | 84.3 | 89.3 | 87.3 | 71.0 | 86.7 | 93.7 | 90.0 | 86.3 |
| 2 | EHL-162508 | 85.0 | 88.7 | 91.0 | 86.0 | 85.3 | 91.0 | 83.3 | 73.7 | 86.3 | 95.7 | 90.0 | 86.7 |
| 3 | FH-3506 | 85.3 | 89.3 | 89.0 | 84.3 | 84.4 | 89.7 | 85.3 | 73.3 | 84.7 | 91.7 | 88.0 | 85.4 |
| 4 | EH-2005 | 86.3 | 88.3 | 91.0 | 84.7 | 85.1 | 89.3 | 85.0 | 71.0 | 86.3 | 93.0 | 89.3 | 85.7 |
| 5 | EH-1992 | 84.7 | 87.3 | 90.7 | 82.3 | 83.7 | 85.3 | 82.7 | 68.0 | 85.7 | 91.0 | 89.3 | 83.7 |
| 6 | EH-1971 | 86.0 | 88.3 | 89.3 | 83.3 | 84.4 | 89.7 | 86.7 | 74.0 | 86.7 | 92.3 | 90.0 | 86.6 |
| 7 | KDM-399 | 85.3 | 87.3 | 89.0 | 81.7 | 84.4 | 88.0 | 83.3 | 68.0 | 86.0 | 89.7 | 90.0 | 84.2 |
| 8 | REH-2001 | 92.0 | 90.0 | 91.0 | 82.0 | 86.7 | 92.3 | 84.3 | 72.0 | 89.7 | 95.3 | 92.0 | 87.6 |
| 9 | REH-2002 | 92.0 | 90.7 | 93.0 | 80.7 | 86.6 | 93.7 | 85.7 | 75.3 | 89.7 | 99.3 | 95.0 | 89.8 |
| 10 | REH-2003 | 92.0 | 88.3 | 91.0 | 82.7 | 86.0 | 91.3 | 86.0 | 73.7 | 89.7 | 100.7 | 95.0 | 89.4 |
| 11 | JH-31236 | 87.7 | 85.7 | 90.0 | 81.3 | 83.7 | 88.3 | 86.7 | 71.7 | 87.7 | 96.0 | 90.0 | 86.7 |
| 12 | JH-31308 | 84.3 | 87.3 | 92.3 | 83.7 | 84.1 | 87.0 | 85.3 | 69.7 | 85.3 | 91.0 | 90.0 | 84.7 |
| 13 | AH-97002 | 85.0 | 90.3 | 90.7 | 82.3 | 85.3 | 88.3 | 84.0 | 72.0 | 87.3 | 92.0 | 88.0 | 85.3 |
| 14 | AH-97017 | 84.0 | 86.3 | 90.3 | 86.0 | 84.4 | 85.3 | 85.7 | 71.7 | 85.0 | 91.0 | 89.3 | 84.7 |
| 15 | AH-97018 | 87.3 | 88.0 | 90.0 | 82.0 | 84.3 | 89.7 | 85.7 | 68.7 | 86.7 | 93.0 | 88.0 | 85.3 |
| 16 | BIO-605 | 87.3 | 91.0 | 91.0 | 82.7 | 85.7 | 86.0 | 83.7 | 68.0 | 88.0 | 91.7 | 90.0 | 84.6 |
| 17 | KH-9560 | 82.0 | 87.3 | 90.7 | 83.3 | 84.1 | 85.0 | 84.7 | 75.3 | 85.3 | 92.7 | 90.0 | 85.5 |
| | CHECKS | | | | | | | | | | | | |
| 18 | PARKASH | 83.0 | 86.3 | 91.3 | 85.0 | 83.9 | 89.3 | 83.7 | 69.0 | 85.3 | 92.3 | 88.0 | 84.6 |
| | Loc. Mean | 86.4 | 88.3 | 90.7 | 83.1 | 84.8 | 88.8 | 84.9 | 71.4 | 86.8 | 93.4 | 90.1 | 85.9 |
| | C.D. (5%) | 2.00 | 1.70 | 2.30 | 3.20 | 2.00 | 4.10 | 1.30 | 4.10 | 1.80 | 3.90 | 0.80 | 1.80 |
| | C.D. (1%) | 2.60 | 2.20 | 3.10 | 4.20 | 2.60 | 5.50 | 1.70 | 5.50 | 2.40 | 5.30 | 1.10 | 2.40 |
| | C.V. (%) | 1.37 | 1.14 | 1.53 | 2.29 | 2.04 | 2.79 | 0.90 | 3.48 | 1.23 | 2.53 | 0.52 | 1.83 |
| | F (Prob.) | 0.00 | 0.00 | 0.11 | 0.03 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
|----------|------------|----------------------|------|------|--------------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | | | | | |
| 1 | EHL-162408 | 80.7 | 78.7 | 85.7 | 81.7 | 86.8 | 90.7 | 80.7 | 80.0 | 83.8 | |
| 2 | EHL-162508 | 80.3 | 81.0 | 87.7 | 83.0 | 87.8 | 93.3 | 80.0 | 79.7 | 84.3 | |
| 3 | FH-3506 | 84.7 | 80.3 | 83.0 | 82.7 | 86.5 | 91.3 | 77.3 | 75.0 | 81.2 | |
| 4 | EH-2005 | 81.7 | 80.7 | 82.7 | 81.7 | 86.7 | 93.0 | 76.7 | 78.0 | 82.6 | |
| 5 | EH-1992 | 81.7 | 80.7 | 81.0 | 81.1 | 85.1 | 91.7 | 78.0 | 78.7 | 82.8 | |
| 6 | EH-1971 | 82.7 | 81.3 | 83.7 | 82.6 | 87.5 | 93.3 | 79.0 | 79.0 | 83.8 | |
| 7 | KDM-399 | 81.3 | 77.0 | 80.3 | 79.6 | 86.0 | 93.7 | 80.0 | 81.0 | 84.9 | |
| 8 | REH-2001 | 81.7 | 80.7 | 89.0 | 83.8 | 88.4 | 95.3 | 81.0 | 81.3 | 85.9 | |
| 9 | REH-2002 | 83.7 | 81.3 | 88.7 | 84.6 | 89.4 | 95.3 | 81.3 | 82.7 | 86.4 | |
| 10 | REH-2003 | 83.7 | 78.7 | 88.3 | 83.6 | 88.8 | 96.0 | 81.0 | 82.3 | 86.4 | |
| 11 | JH-31236 | 83.7 | 82.0 | 80.7 | 82.1 | 86.7 | 92.3 | 76.7 | 77.7 | 82.2 | |
| 12 | JH-31308 | 81.0 | 79.0 | 80.7 | 80.2 | 85.5 | 91.0 | 77.3 | 76.0 | 81.4 | |
| 13 | AH-97002 | 84.3 | 81.7 | 82.7 | 82.9 | 86.2 | 92.7 | 78.7 | 78.3 | 83.2 | |
| 14 | AH-97017 | 82.7 | 81.3 | 81.7 | 81.9 | 85.8 | 91.3 | 79.3 | 77.7 | 82.8 | |
| 15 | AH-97018 | 81.7 | 80.7 | 81.3 | 81.2 | 86.1 | 92.3 | 78.7 | 78.3 | 83.1 | |
| 16 | BIO-605 | 84.7 | 81.0 | 84.3 | 83.3 | 86.3 | 92.7 | 80.7 | 79.7 | 84.3 | |
| 17 | KH-9560 | 82.0 | 80.0 | 81.3 | 81.1 | 85.8 | 91.0 | 81.7 | 79.0 | 83.9 | |
| | CHECKS | | | | | | | | | | |
| 18 | PARKASH | 81.3 | 80.3 | 82.7 | 81.4 | 85.5 | 91.0 | 76.7 | 77.7 | 81.8 | |
| | Loc. Mean | 82.4 | 80.4 | 83.6 | 82.1 | 86.7 | 92.7 | 79.1 | 79.0 | 83.6 | |
| | C.D. (5%) | 1.30 | 1.70 | 1.50 | 3.20 | 1.30 | 2.5 | 1.7 | 1.9 | 1.7 | |
| | C.D. (1%) | 1.80 | 2.30 | 2.10 | 4.30 | 1.70 | | | | | |
| | C.V. (%) | 0.99 | 1.28 | 1.11 | 2.35 | 2.49 | 1.6 | 1.3 | 1.4 | 1.2 | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | | | | |
|----------|------------|-----------------------|------|------|------|--------------|------|------|------|------|--------------|------|------|
| | | ALMO | BAJA | BARA | KANG | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL |
| 1 | EHL-162408 | 37.7 | 24.3 | 23.0 | 26.1 | 27.8 | 34.1 | 28.1 | 22.1 | 15.0 | 24.8 | 21.0 | 17.3 |
| 2 | EHL-162508 | 29.9 | 23.8 | 23.3 | 25.2 | 25.6 | 30.2 | 27.8 | 23.5 | 15.0 | 24.1 | 20.9 | 21.2 |
| 3 | FH-3506 | 32.9 | 22.3 | 22.7 | 24.7 | 25.7 | 28.9 | 23.3 | 23.5 | 15.0 | 22.7 | 19.6 | 17.1 |
| 4 | EH-2005 | 34.4 | 23.6 | 22.0 | 23.8 | 26.0 | 36.6 | 25.6 | 29.5 | 15.0 | 26.7 | 21.1 | 21.5 |
| 5 | EH-1992 | 34.8 | 22.6 | 22.0 | 23.1 | 25.6 | 31.1 | 27.8 | 21.1 | 15.0 | 23.7 | 19.4 | 20.1 |
| 6 | EH-1971 | 34.1 | 23.3 | 22.7 | 22.4 | 25.6 | 37.0 | 29.9 | 25.5 | 15.0 | 26.9 | 20.3 | 18.6 |
| 7 | KDM-399 | 32.6 | 21.1 | 22.7 | 25.3 | 25.4 | 31.4 | 25.6 | 26.1 | 15.0 | 24.5 | 20.9 | 18.2 |
| 8 | REH-2001 | 30.4 | 24.5 | 22.7 | 24.1 | 25.4 | 32.3 | 28.6 | 33.8 | 15.0 | 27.4 | 20.5 | 24.4 |
| 9 | REH-2002 | 28.8 | 25.5 | 22.3 | 25.5 | 25.5 | 32.6 | 28.8 | 30.1 | 15.0 | 26.6 | 20.7 | 21.6 |
| 10 | REH-2003 | 29.2 | 23.4 | 23.0 | 24.3 | 25.0 | 31.8 | 27.2 | 30.6 | 15.0 | 26.1 | 21.6 | 24.6 |
| 11 | JH-31236 | 32.5 | 20.1 | 22.0 | 24.4 | 24.7 | 31.2 | 25.6 | 24.5 | 15.0 | 24.1 | 20.3 | 20.9 |
| 12 | JH-31308 | 33.2 | 19.2 | 22.3 | 24.6 | 24.8 | 32.3 | 23.7 | 27.9 | 15.0 | 24.7 | 19.9 | 20.1 |
| 13 | AH-97002 | 33.4 | 21.6 | 22.3 | 25.3 | 25.6 | 36.3 | 25.9 | 25.3 | 15.0 | 25.6 | 20.1 | 21.6 |
| 14 | AH-97017 | 31.9 | 22.4 | 22.7 | 24.6 | 25.4 | 30.4 | 24.1 | 21.7 | 15.0 | 22.8 | 20.7 | 18.4 |
| 15 | AH-97018 | 32.5 | 22.2 | 21.3 | 25.0 | 25.2 | 34.8 | 24.2 | 24.6 | 15.0 | 24.6 | 19.9 | 21.1 |
| 16 | BIO-605 | 34.7 | 23.5 | 21.0 | 23.5 | 25.7 | 35.5 | 29.8 | 33.7 | 15.0 | 28.5 | 21.2 | 21.9 |
| 17 | KH-9560 | 34.4 | 26.5 | 22.3 | 24.6 | 27.0 | 29.0 | 25.7 | 26.9 | 15.0 | 24.1 | 22.0 | 17.7 |
| | CHECKS | | | | | | | | | | | | |
| 18 | PARKASH | 30.8 | 19.0 | 23.3 | 26.1 | 24.8 | 29.6 | 26.1 | 22.0 | 15.0 | 23.2 | 18.9 | 19.1 |
| | Loc. Mean | 32.7 | 22.7 | 22.4 | 24.6 | 25.6 | 32.5 | 26.5 | 26.2 | 15.0 | 25.1 | 20.5 | 20.3 |
| | C.D. (5%) | 2.10 | 1.90 | 2.30 | 1.40 | 2.40 | 4.80 | - | 5.20 | - | 3.30 | 1.10 | 0.00 |
| | C.D. (1%) | 2.90 | 2.60 | 3.10 | 1.90 | 3.10 | 6.50 | - | 7.00 | - | 4.30 | 1.50 | 0.00 |
| | C.V. (%) | 3.96 | 5.11 | 6.23 | 3.48 | 6.49 | 8.97 | - | 12.0 | - | 9.13 | 3.38 | 0.00 |
| | F (Prob.) | 0.00 | 0.00 | 0.88 | 0.00 | 0.68 | 0.01 | 0.00 | 0.00 | - | 0.02 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | JASH | VARA | RANC | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | HYDE BIOS | Zone Mean |
|--------|------------|------|------|------|-----------|------|------|------|------|------|------|-----------|-----------|
| 1 | EHL-162408 | 16.1 | 26.1 | 21.3 | 20.4 | 22.7 | 26.3 | 12.7 | 13.4 | 18.4 | 17.5 | 14.0 | 17.8 |
| 2 | EHL-162508 | 16.4 | 24.1 | 23.0 | 21.1 | 25.7 | 28.0 | 13.7 | 13.3 | 16.9 | 17.6 | 14.0 | 18.4 |
| 3 | FH-3506 | 16.7 | 23.5 | 20.1 | 19.4 | 28.5 | 27.3 | 15.0 | 13.2 | 17.8 | 16.8 | 14.0 | 18.9 |
| 4 | EH-2005 | 16.5 | 24.0 | 19.0 | 20.4 | 31.7 | 27.2 | 13.3 | 13.4 | 17.8 | 19.2 | 14.0 | 19.5 |
| 5 | EH-1992 | 16.7 | 26.4 | 21.2 | 20.8 | 23.9 | 25.9 | 12.0 | 14.0 | 18.0 | 18.0 | 14.0 | 18.0 |
| 6 | EH-1971 | 16.5 | 24.0 | 19.4 | 19.8 | 27.7 | 27.4 | 13.3 | 13.8 | 17.4 | 17.6 | 14.0 | 18.7 |
| 7 | KDM-399 | 17.2 | 22.7 | 22.0 | 20.2 | 24.5 | 27.5 | 12.7 | 13.5 | 16.6 | 17.9 | 14.0 | 18.1 |
| 8 | REH-2001 | 16.9 | 24.6 | 21.4 | 21.6 | 29.6 | 29.2 | 12.0 | 13.8 | 18.4 | 15.7 | 14.0 | 18.9 |
| 9 | REH-2002 | 16.0 | 24.2 | 20.3 | 20.6 | 32.7 | 29.3 | 12.3 | 13.7 | 18.6 | 19.6 | 14.0 | 20.0 |
| 10 | REH-2003 | 16.5 | 26.1 | 20.1 | 21.8 | 34.0 | 30.4 | 12.3 | 14.3 | 17.8 | 19.8 | 14.0 | 20.4 |
| 11 | JH-31236 | 16.9 | 23.5 | 20.3 | 20.4 | 19.8 | 26.2 | 13.7 | 12.9 | 16.8 | 16.5 | 14.0 | 17.1 |
| 12 | JH-31308 | 16.6 | 23.2 | 19.3 | 19.8 | 24.9 | 26.2 | 13.0 | 13.4 | 17.5 | 19.1 | 14.0 | 18.3 |
| 13 | AH-97002 | 16.6 | 25.3 | 19.4 | 20.6 | 26.0 | 24.4 | 11.7 | 13.8 | 14.2 | 16.5 | 14.0 | 17.2 |
| 14 | AH-97017 | 16.5 | 23.3 | 20.0 | 19.8 | 16.4 | 23.9 | 12.0 | 13.2 | 17.1 | 16.5 | 14.0 | 16.2 |
| 15 | AH-97018 | 16.6 | 25.5 | 20.1 | 20.6 | 25.0 | 19.1 | 11.3 | 13.1 | 17.6 | 18.3 | 14.0 | 16.9 |
| 16 | BIO-605 | 17.4 | 27.1 | 22.3 | 22.0 | 27.4 | 22.8 | 13.0 | 13.8 | 17.0 | 19.8 | 14.0 | 18.2 |
| 17 | KH-9560 | 16.4 | 24.2 | 22.3 | 20.5 | 18.8 | 29.4 | 12.0 | 13.4 | 17.5 | 17.8 | 14.0 | 17.5 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 16.0 | 25.4 | 20.3 | 19.9 | 24.5 | 27.4 | 12.3 | 13.4 | 16.9 | 18.0 | 14.0 | 18.1 |
| | Loc. Mean | 16.6 | 24.6 | 20.7 | 20.5 | 25.8 | 26.5 | 12.7 | 13.5 | 17.3 | 17.9 | 14.0 | 18.2 |
| | C.D. (5%) | - | 0.00 | - | 1.60 | 3.80 | 1.90 | 1.60 | 0.50 | 1.30 | 0.40 | - | 2.10 |
| | C.D. (1%) | - | 0.00 | - | 2.10 | 5.10 | 2.50 | 2.20 | 0.70 | 1.80 | 0.50 | - | 2.80 |
| | C.V. (%) | - | 0.00 | - | 6.00 | 8.86 | 4.27 | 7.79 | 2.30 | 4.68 | 1.31 | - | 11.0 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | - | 0.02 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | |
|----------|------------|-----------------------|------|------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
| 1 | EHL-162408 | 20.0 | 15.2 | 12.7 | 16.0 | 21.1 | 27.3 | 27.6 | 21.6 | 25.5 |
| 2 | EHL-162508 | 20.7 | 15.7 | 15.6 | 17.3 | 21.1 | 27.0 | 28.9 | 18.9 | 24.9 |
| 3 | FH-3506 | 19.1 | 16.1 | 10.9 | 15.3 | 20.4 | 26.7 | 26.4 | 18.8 | 24.0 |
| 4 | EH-2005 | 19.1 | 15.0 | 12.8 | 15.6 | 21.6 | 25.9 | 27.7 | 19.3 | 24.3 |
| 5 | EH-1992 | 19.8 | 15.4 | 11.8 | 15.7 | 20.6 | 26.8 | 28.0 | 19.1 | 24.6 |
| 6 | EH-1971 | 22.3 | 16.1 | 12.1 | 16.8 | 21.3 | 25.0 | 26.0 | 17.8 | 22.9 |
| 7 | KDM-399 | 22.2 | 15.1 | 12.0 | 16.4 | 20.7 | 25.1 | 26.8 | 14.8 | 22.2 |
| 8 | REH-2001 | 22.3 | 15.2 | 14.9 | 17.4 | 21.9 | 27.7 | 31.2 | 25.8 | 28.2 |
| 9 | REH-2002 | 23.9 | 14.9 | 14.1 | 17.6 | 21.9 | 27.4 | 30.7 | 31.8 | 29.9 |
| 10 | REH-2003 | 22.8 | 15.8 | 15.4 | 18.0 | 22.2 | 26.8 | 32.9 | 26.4 | 28.7 |
| 11 | JH-31236 | 22.2 | 16.2 | 11.4 | 16.6 | 20.3 | 26.0 | 27.7 | 20.1 | 24.6 |
| 12 | JH-31308 | 20.5 | 15.5 | 11.3 | 15.8 | 20.5 | 26.0 | 27.5 | 19.3 | 24.3 |
| 13 | AH-97002 | 17.6 | 15.1 | 12.1 | 14.9 | 20.6 | 25.8 | 27.4 | 21.3 | 24.8 |
| 14 | AH-97017 | 22.5 | 15.2 | 11.8 | 16.5 | 19.7 | 28.4 | 26.8 | 18.3 | 24.5 |
| 15 | AH-97018 | 22.0 | 15.3 | 12.2 | 16.5 | 20.4 | 27.0 | 25.7 | 16.6 | 23.1 |
| 16 | BIO-605 | 20.8 | 15.7 | 11.8 | 16.1 | 21.8 | 27.7 | 31.0 | 20.4 | 26.4 |
| 17 | KH-9560 | 22.1 | 15.0 | 11.4 | 16.1 | 20.8 | 26.4 | 30.4 | 17.1 | 24.6 |
| CHECKS | | | | | | | | | | |
| 18 | PARKASH | 20.4 | 15.9 | 11.9 | 16.1 | 20.3 | 25.6 | 26.6 | 18.9 | 23.7 |
| | Loc. Mean | 21.1 | 15.4 | 12.5 | 16.4 | 21.0 | 26.6 | 28.3 | 20.4 | 25.1 |
| | C.D. (5%) | 2.60 | 0.30 | 0.70 | 2.00 | 1.00 | 1.74 | 1.91 | - | 3.51 |
| | C.D. (1%) | 3.50 | 0.40 | 0.90 | 2.60 | 1.40 | | | | |
| | C.V. (%) | 7.54 | 1.30 | 3.19 | 7.25 | 8.63 | 3.95 | 4.07 | - | 8.44 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.02 | 0.00 | 0.00 | 0.01 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL |
|----------|------------|-------------------|-------|-------|-------|--------------|-------|-------|-------|-------|--------------|-------|-------|
| | | ALMO | BAJA | BARA | KANG | | | | | | | | |
| 1 | EHL-162408 | 216 | 138 | 161 | 230 | 186 | 154 | 155 | 203 | 192 | 176 | 175 | 150 |
| 2 | EHL-162508 | 225 | 147 | 178 | 226 | 194 | 169 | 163 | 207 | 185 | 181 | 189 | 146 |
| 3 | FH-3506 | 222 | 142 | 162 | 241 | 192 | 154 | 138 | 207 | 194 | 173 | 171 | 138 |
| 4 | EH-2005 | 234 | 147 | 172 | 249 | 201 | 155 | 148 | 210 | 197 | 178 | 161 | 149 |
| 5 | EH-1992 | 239 | 153 | 151 | 235 | 195 | 173 | 148 | 227 | 203 | 188 | 169 | 169 |
| 6 | EH-1971 | 240 | 173 | 171 | 222 | 202 | 195 | 143 | 210 | 196 | 186 | 192 | 168 |
| 7 | KDM-399 | 245 | 149 | 167 | 223 | 196 | 180 | 157 | 223 | 197 | 189 | 183 | 160 |
| 8 | REH-2001 | 245 | 170 | 170 | 231 | 204 | 192 | 177 | 263 | 192 | 206 | 208 | 181 |
| 9 | REH-2002 | 246 | 162 | 158 | 221 | 197 | 177 | 163 | 247 | 190 | 194 | 196 | 163 |
| 10 | REH-2003 | 233 | 172 | 164 | 192 | 190 | 169 | 147 | 240 | 203 | 190 | 175 | 179 |
| 11 | JH-31236 | 235 | 154 | 181 | 219 | 197 | 162 | 165 | 217 | 188 | 183 | 171 | 156 |
| 12 | JH-31308 | 244 | 172 | 172 | 223 | 203 | 180 | 175 | 220 | 190 | 191 | 180 | 172 |
| 13 | AH-97002 | 251 | 153 | 154 | 202 | 190 | 165 | 178 | 213 | 200 | 189 | 180 | 162 |
| 14 | AH-97017 | 232 | 162 | 169 | 238 | 200 | 175 | 168 | 220 | 181 | 186 | 196 | 166 |
| 15 | AH-97018 | 257 | 163 | 141 | 214 | 194 | 180 | 158 | 213 | 180 | 183 | 191 | 161 |
| 16 | BIO-605 | 243 | 162 | 166 | 233 | 201 | 194 | 175 | 257 | 193 | 205 | 174 | 171 |
| 17 | KH-9560 | 225 | 165 | 171 | 232 | 198 | 163 | 157 | 227 | 191 | 184 | 190 | 169 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 230 | 160 | 159 | 210 | 190 | 177 | 163 | 227 | 200 | 192 | 172 | 159 |
| | Loc. Mean | 237.0 | 158.0 | 165.0 | 224.0 | 196.0 | 173.0 | 160.0 | 224.0 | 193.0 | 187.0 | 182.0 | 162.0 |
| | C.D. (5%) | 8.0 | 17.0 | 34.0 | 21.0 | 17.0 | 20.0 | 12.0 | 27.0 | 11.0 | 16.0 | 17.0 | 25.0 |
| | C.D. (1%) | 11.0 | 23.0 | 46.0 | 28.0 | 22.0 | 27.0 | 17.0 | 36.0 | 14.0 | 21.0 | 23.0 | 33.0 |
| | C.V. (%) | 2.1 | 6.6 | 12.6 | 5.6 | 6.0 | 7.1 | 4.7 | 7.3 | 3.3 | 5.9 | 5.6 | 9.3 |
| | F (Prob.) | 0.00 | 0.00 | 0.79 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.09 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | | | | | | | | HYDE BIOS | Zone Mean | |
|----------|------------|-------------------|------|------|------|--------------|------|------|------|------|------|--------------|--------------|------|
| | | JASH | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | | | COIM |
| 1 | EHL-162408 | 126 | 180 | 175 | 212 | 170 | 155 | 198 | 153 | 193 | 167 | 187 | 230 | 183 |
| 2 | EHL-162508 | 126 | 185 | 172 | 211 | 172 | 164 | 212 | 190 | 210 | 183 | 195 | 235 | 198 |
| 3 | FH-3506 | 127 | 190 | 163 | 207 | 166 | 154 | 200 | 177 | 192 | 179 | 192 | 210 | 186 |
| 4 | EH-2005 | 132 | 195 | 180 | 217 | 172 | 160 | 200 | 188 | 188 | 172 | 200 | 230 | 191 |
| 5 | EH-1992 | 136 | 220 | 187 | 204 | 181 | 172 | 195 | 200 | 197 | 182 | 191 | 233 | 196 |
| 6 | EH-1971 | 134 | 220 | 182 | 219 | 186 | 187 | 210 | 197 | 205 | 193 | 180 | 238 | 201 |
| 7 | KDM-399 | 131 | 205 | 178 | 210 | 178 | 172 | 218 | 166 | 205 | 169 | 185 | 223 | 191 |
| 8 | REH-2001 | 148 | 235 | 191 | 227 | 198 | 202 | 210 | 208 | 207 | 193 | 201 | 232 | 207 |
| 9 | REH-2002 | 146 | 170 | 202 | 206 | 180 | 196 | 210 | 191 | 203 | 170 | 194 | 247 | 202 |
| 10 | REH-2003 | 149 | 215 | 204 | 221 | 190 | 183 | 200 | 179 | 187 | 193 | 203 | 227 | 196 |
| 11 | JH-31236 | 119 | 210 | 187 | 219 | 177 | 161 | 203 | 182 | 195 | 181 | 199 | 233 | 194 |
| 12 | JH-31308 | 135 | 220 | 190 | 215 | 185 | 184 | 232 | 189 | 213 | 193 | 205 | 222 | 205 |
| 13 | AH-97002 | 137 | 215 | 184 | 209 | 181 | 176 | 215 | 184 | 203 | 188 | 203 | 218 | 198 |
| 14 | AH-97017 | 132 | 210 | 179 | 200 | 181 | 176 | 232 | 204 | 212 | 186 | 195 | 213 | 203 |
| 15 | AH-97018 | 149 | 230 | 188 | 213 | 189 | 199 | 210 | 206 | 212 | 187 | 192 | 212 | 202 |
| 16 | BIO-605 | 136 | 230 | 201 | 219 | 189 | 182 | 223 | 206 | 217 | 201 | 208 | 233 | 210 |
| 17 | KH-9560 | 132 | 190 | 189 | 207 | 180 | 173 | 212 | 201 | 198 | 178 | 206 | 218 | 198 |
| CHECKS | | | | | | | | | | | | | | |
| 18 | PARKASH | 139 | 220 | 185 | 212 | 181 | 173 | 227 | 171 | 172 | 191 | 212 | 218 | 195 |
| | Loc. Mean | 135 | 208 | 185 | 213 | 181 | 176 | 212 | 188 | 200 | 184 | 197 | 226 | 198 |
| | C.D. (5%) | 6.0 | - | 23.0 | 23.0 | 11.0 | 9.0 | 13.0 | 13.0 | 23.0 | 20.0 | 6.0 | 10.0 | 11.0 |
| | C.D. (1%) | 8.0 | - | 31.0 | 31.0 | 15.0 | 12.0 | 18.0 | 18.0 | 31.0 | 27.0 | 8.0 | 14.0 | 14.0 |
| | C.V. (%) | 2.8 | - | 7.5 | 6.6 | 5.4 | 3.1 | 3.8 | 4.3 | 6.9 | 6.7 | 1.9 | 2.8 | 5.1 |
| | F (Prob.) | 0.00 | - | 0.09 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
|----------|------------|-------------------|------|------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | | | | | | |
| 1 | EHL-162408 | 175 | 165 | 178 | 173 | 178 | 170 | 167 | 123 | 153 |
| 2 | EHL-162508 | 203 | 154 | 195 | 184 | 186 | 162 | 168 | 127 | 152 |
| 3 | FH-3506 | 180 | 145 | 177 | 167 | 178 | 174 | 158 | 140 | 157 |
| 4 | EH-2005 | 193 | 167 | 191 | 184 | 185 | 176 | 177 | 123 | 159 |
| 5 | EH-1992 | 193 | 167 | 197 | 186 | 189 | 181 | 188 | 133 | 167 |
| 6 | EH-1971 | 175 | 174 | 190 | 180 | 192 | 191 | 187 | 145 | 174 |
| 7 | KDM-399 | 165 | 169 | 187 | 174 | 186 | 175 | 183 | 125 | 161 |
| 8 | REH-2001 | 173 | 183 | 190 | 182 | 201 | 195 | 187 | 155 | 179 |
| 9 | REH-2002 | 202 | 182 | 185 | 190 | 193 | 198 | 192 | 132 | 174 |
| 10 | REH-2003 | 200 | 191 | 187 | 193 | 192 | 171 | 202 | 139 | 171 |
| 11 | JH-31236 | 195 | 153 | 181 | 176 | 186 | 179 | 178 | 139 | 166 |
| 12 | JH-31308 | 187 | 171 | 193 | 184 | 195 | 196 | 185 | 155 | 179 |
| 13 | AH-97002 | 183 | 176 | 199 | 186 | 190 | 168 | 183 | 145 | 165 |
| 14 | AH-97017 | 197 | 160 | 179 | 179 | 191 | 171 | 185 | 143 | 167 |
| 15 | AH-97018 | 202 | 156 | 191 | 183 | 192 | 198 | 187 | 144 | 176 |
| 16 | BIO-605 | 190 | 185 | 200 | 192 | 200 | 193 | 198 | 162 | 184 |
| 17 | KH-9560 | 197 | 170 | 187 | 184 | 190 | 186 | 178 | 145 | 170 |
| CHECKS | | | | | | | | | | |
| 18 | PARKASH | 193 | 155 | 192 | 180 | 188 | 197 | 182 | 149 | 176 |
| | Loc. Mean | 189 | 168 | 189 | 182 | 190 | 182 | 183 | 140 | 168 |
| | C.D. (5%) | 40.0 | 6.0 | 19.0 | 17.0 | 6.0 | 19.7 | 21.3 | 23.2 | 13.5 |
| | C.D. (1%) | 54.0 | 8.0 | 26.0 | 23.0 | 8.0 | | | | |
| | C.V. (%) | 12.9 | 2.1 | 6.1 | 5.6 | 5.4 | 6.5 | 7.0 | 10.0 | 4.8 |
| | F (Prob.) | 0.82 | 0.00 | 0.44 | 0.27 | 0.00 | 0.00 | 0.04 | 0.05 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL |
|----------|------------|-----------------|------|------|------|--------------|------|------|------|------|--------------|------|------|
| | | ALMO | BAJA | BARA | KANG | | | | | | | | |
| 1 | EHL-162408 | 115 | 72 | 88 | 97 | 93 | 81 | 80 | 87 | 88 | 84 | 92 | 77 |
| 2 | EHL-162508 | 119 | 70 | 83 | 90 | 90 | 85 | 78 | 77 | 81 | 80 | 74 | 68 |
| 3 | FH-3506 | 110 | 73 | 73 | 94 | 88 | 76 | 73 | 87 | 77 | 78 | 89 | 57 |
| 4 | EH-2005 | 125 | 68 | 86 | 99 | 94 | 87 | 77 | 90 | 87 | 85 | 104 | 76 |
| 5 | EH-1992 | 130 | 70 | 92 | 89 | 95 | 84 | 77 | 93 | 84 | 84 | 80 | 85 |
| 6 | EH-1971 | 133 | 93 | 86 | 82 | 98 | 109 | 68 | 87 | 105 | 92 | 101 | 91 |
| 7 | KDM-399 | 139 | 67 | 88 | 88 | 95 | 100 | 78 | 87 | 95 | 90 | 113 | 81 |
| 8 | REH-2001 | 124 | 70 | 73 | 94 | 90 | 101 | 92 | 105 | 91 | 97 | 105 | 83 |
| 9 | REH-2002 | 118 | 65 | 68 | 83 | 84 | 89 | 82 | 85 | 85 | 85 | 103 | 71 |
| 10 | REH-2003 | 123 | 72 | 80 | 82 | 89 | 76 | 70 | 97 | 102 | 86 | 79 | 80 |
| 11 | JH-31236 | 121 | 83 | 100 | 91 | 99 | 74 | 82 | 103 | 96 | 89 | 81 | 77 |
| 12 | JH-31308 | 136 | 73 | 85 | 96 | 97 | 86 | 95 | 93 | 85 | 90 | 74 | 81 |
| 13 | AH-97002 | 149 | 73 | 76 | 79 | 94 | 91 | 100 | 93 | 87 | 93 | 114 | 84 |
| 14 | AH-97017 | 122 | 83 | 69 | 93 | 92 | 91 | 90 | 90 | 84 | 89 | 109 | 86 |
| 15 | AH-97018 | 148 | 82 | 72 | 94 | 99 | 104 | 82 | 100 | 79 | 91 | 106 | 86 |
| 16 | BIO-605 | 130 | 72 | 80 | 82 | 91 | 100 | 87 | 115 | 89 | 98 | 95 | 85 |
| 17 | KH-9560 | 111 | 81 | 84 | 78 | 88 | 72 | 78 | 87 | 82 | 80 | 92 | 72 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 128 | 80 | 70 | 90 | 92 | 103 | 90 | 110 | 98 | 100 | 82 | 81 |
| | Loc. Mean | 127 | 75 | 81 | 89 | 93 | 89 | 82 | 94 | 89 | 88 | 94 | 79 |
| | C.D. (5%) | 8 | 14 | 22 | 7 | 12 | 16 | 16 | 12 | 14 | 12 | 18 | 21 |
| | C.D. (1%) | 11 | 18 | 29 | 9 | 16 | 22 | 22 | 17 | 19 | 16 | 24 | 29 |
| | C.V. (%) | 4 | 11 | 16 | 4 | 9 | 11 | 12 | 8 | 10 | 9 | 12 | 16 |
| | F (Prob.) | 0.00 | 0.01 | 0.22 | 0.00 | 0.51 | 0.00 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.35 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | HYDE BIOS | Zone Mean |
|----------|------------|-----------------|------|------|------|--------------|------|------|------|------|------|------|--------------|--------------|
| | | JASH | VARA | RANC | AMBI | | | | | | | | | |
| 1 | EHL-162408 | 45 | 95 | 83 | 75 | 78 | 82 | 93 | 70 | 97 | 82 | 99 | 90 | 87 |
| 2 | EHL-162508 | 46 | 100 | 83 | 80 | 75 | 92 | 94 | 67 | 107 | 91 | 108 | 98 | 94 |
| 3 | FH-3506 | 44 | 110 | 74 | 66 | 73 | 82 | 82 | 82 | 93 | 86 | 92 | 80 | 85 |
| 4 | EH-2005 | 61 | 90 | 79 | 83 | 82 | 85 | 87 | 84 | 103 | 83 | 108 | 98 | 92 |
| 5 | EH-1992 | 51 | 115 | 96 | 80 | 85 | 86 | 73 | 77 | 97 | 86 | 99 | 77 | 85 |
| 6 | EH-1971 | 55 | 115 | 87 | 82 | 88 | 106 | 87 | 73 | 98 | 106 | 110 | 105 | 98 |
| 7 | KDM-399 | 54 | 110 | 90 | 70 | 86 | 90 | 85 | 62 | 90 | 89 | 108 | 110 | 91 |
| 8 | REH-2001 | 47 | 135 | 91 | 90 | 92 | 98 | 85 | 84 | 102 | 99 | 111 | 98 | 97 |
| 9 | REH-2002 | 53 | 70 | 98 | 73 | 78 | 93 | 93 | 76 | 98 | 89 | 92 | 108 | 93 |
| 10 | REH-2003 | 52 | 125 | 95 | 73 | 84 | 95 | 74 | 66 | 98 | 90 | 105 | 95 | 89 |
| 11 | JH-31236 | 47 | 115 | 98 | 77 | 83 | 86 | 93 | 77 | 103 | 89 | 104 | 95 | 93 |
| 12 | JH-31308 | 48 | 130 | 89 | 77 | 83 | 91 | 100 | 73 | 107 | 91 | 118 | 90 | 96 |
| 13 | AH-97002 | 47 | 135 | 87 | 75 | 90 | 92 | 82 | 74 | 83 | 91 | 109 | 103 | 91 |
| 14 | AH-97017 | 54 | 110 | 88 | 77 | 87 | 89 | 83 | 82 | 108 | 90 | 105 | 95 | 93 |
| 15 | AH-97018 | 59 | 155 | 95 | 87 | 98 | 110 | 85 | 85 | 110 | 91 | 108 | 97 | 98 |
| 16 | BIO-605 | 49 | 125 | 99 | 78 | 88 | 94 | 98 | 79 | 105 | 100 | 122 | 107 | 101 |
| 17 | KH-9560 | 43 | 90 | 87 | 79 | 77 | 76 | 88 | 70 | 85 | 77 | 104 | 85 | 84 |
| CHECKS | | | | | | | | | | | | | | |
| 18 | PARKASH | 55 | 125 | 87 | 74 | 84 | 96 | 109 | 80 | 83 | 99 | 115 | 97 | 97 |
| | Loc. Mean | 51 | 114 | 89 | 78 | 84 | 91 | 89 | 76 | 98 | 91 | 106 | 96 | 92 |
| | C.D. (5%) | 5 | - | 16 | 16 | 12 | 7 | 10 | 11 | 17 | 12 | 4 | 11 | 7 |
| | C.D. (1%) | 7 | - | 21 | 21 | 16 | 9 | 13 | 14 | 23 | 17 | 5 | 15 | 10 |
| | C.V. (%) | 6 | - | 11 | 12 | 12 | 5 | 7 | 8 | 11 | 8 | 2 | 7 | 8 |
| | F (Prob.) | 0.00 | - | 0.13 | 0.35 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
|----------|------------|-----------------|------|------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | | | | | | |
| 1 | EHL-162408 | 83 | 72 | 88 | 81 | 85 | 83 | 87 | 63 | 78 |
| 2 | EHL-162508 | 113 | 62 | 107 | 94 | 86 | 68 | 100 | 56 | 75 |
| 3 | FH-3506 | 90 | 57 | 81 | 76 | 80 | 72 | 73 | 63 | 70 |
| 4 | EH-2005 | 92 | 66 | 98 | 85 | 88 | 82 | 88 | 62 | 77 |
| 5 | EH-1992 | 85 | 55 | 98 | 79 | 86 | 75 | 107 | 68 | 83 |
| 6 | EH-1971 | 113 | 87 | 105 | 102 | 95 | 99 | 115 | 72 | 95 |
| 7 | KDM-399 | 75 | 70 | 87 | 78 | 89 | 88 | 93 | 61 | 81 |
| 8 | REH-2001 | 95 | 84 | 100 | 93 | 94 | 86 | 105 | 72 | 88 |
| 9 | REH-2002 | 88 | 81 | 90 | 86 | 86 | 85 | 97 | 62 | 81 |
| 10 | REH-2003 | 98 | 93 | 93 | 95 | 88 | 73 | 107 | 63 | 81 |
| 11 | JH-31236 | 103 | 63 | 93 | 87 | 90 | 89 | 92 | 63 | 81 |
| 12 | JH-31308 | 90 | 83 | 92 | 88 | 91 | 91 | 90 | 78 | 86 |
| 13 | AH-97002 | 83 | 83 | 110 | 92 | 92 | 82 | 105 | 65 | 84 |
| 14 | AH-97017 | 98 | 60 | 87 | 82 | 89 | 82 | 110 | 74 | 88 |
| 15 | AH-97018 | 112 | 66 | 83 | 87 | 96 | 97 | 113 | 72 | 94 |
| 16 | BIO-605 | 108 | 87 | 105 | 100 | 95 | 92 | 125 | 80 | 99 |
| 17 | KH-9560 | 85 | 73 | 78 | 79 | 81 | 71 | 78 | 61 | 70 |
| CHECKS | | | | | | | | | | |
| 18 | PARKASH | 97 | 71 | 99 | 89 | 92 | 97 | 95 | 75 | 89 |
| | Loc. Mean | 95 | 73 | 94 | 87 | 89 | 84 | 99 | 67 | 83 |
| | C.D. (5%) | 26 | 7 | 15 | 16 | 5 | 15.4 | 19.4 | 12.9 | 12.4 |
| | C.D. (1%) | 35 | 10 | 21 | 21 | 6 | | | | |
| | C.V. (%) | 17 | 6 | 10 | 11 | 10 | 11.1 | 11.8 | 11.6 | 9.0 |
| | F (Prob.) | 0.13 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 |

TABLE No. 3 (Cont..)

| | | GRAIN SHELLING % | | | | | | | | | | | |
|----|------------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | Zone | | | | Zone | Zone | | | | Zone | | |
| No | PEDIGREE | ALMO | BAJA | BARA | KANG | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | JASH |
| 1 | EHL-162408 | 85.7 | 77.1 | 85.3 | 81.0 | 82.3 | 79.7 | 84.5 | 85.7 | 75.0 | 81.2 | 79.2 | 80.2 |
| 2 | EHL-162508 | 85.6 | 77.5 | 83.0 | 82.5 | 82.1 | 83.0 | 80.6 | 83.3 | 74.0 | 80.2 | 79.1 | 77.9 |
| 3 | FH-3506 | 86.6 | 77.3 | 80.0 | 78.5 | 80.6 | 86.3 | 85.7 | 85.7 | 78.5 | 84.0 | 79.4 | 78.9 |
| 4 | EH-2005 | 86.7 | 78.5 | 86.0 | 81.0 | 83.0 | 84.8 | 83.3 | 83.3 | 75.5 | 81.7 | 78.8 | 78.6 |
| 5 | EH-1992 | 85.2 | 77.7 | 85.7 | 79.5 | 82.0 | 81.6 | 81.0 | 85.7 | 74.5 | 80.7 | 77.8 | 76.3 |
| 6 | EH-1971 | 85.1 | 79.4 | 91.7 | 82.5 | 84.7 | 82.6 | 82.2 | 85.7 | 75.0 | 81.4 | 77.4 | 78.0 |
| 7 | KDM-399 | 84.7 | 85.9 | 87.3 | 82.0 | 85.0 | 79.5 | 77.3 | 87.5 | 76.0 | 80.1 | 71.6 | 70.0 |
| 8 | REH-2001 | 86.2 | 77.8 | 78.7 | 80.5 | 80.8 | 84.5 | 81.0 | 85.7 | 73.0 | 81.0 | 76.3 | - |
| 9 | REH-2002 | 81.7 | 79.4 | 83.7 | 83.0 | 81.9 | 82.2 | 81.4 | 87.5 | 75.0 | 81.5 | 74.5 | 77.9 |
| 10 | REH-2003 | 82.0 | 80.7 | 86.0 | 82.5 | 82.8 | 82.9 | 80.3 | 78.7 | 76.5 | 79.6 | 79.3 | 79.8 |
| 11 | JH-31236 | 87.3 | 77.9 | 83.7 | 83.0 | 83.0 | 87.5 | 83.3 | 86.1 | 73.0 | 82.5 | 80.1 | 78.9 |
| 12 | JH-31308 | 87.2 | 78.6 | 86.0 | 79.0 | 82.7 | 85.1 | 82.3 | 84.2 | 73.5 | 81.3 | 79.1 | 79.5 |
| 13 | AH-97002 | 86.8 | 79.9 | 85.0 | 82.5 | 83.5 | 83.5 | 84.6 | 80.0 | 76.0 | 81.0 | 80.3 | 77.9 |
| 14 | AH-97017 | 87.1 | 89.1 | 82.3 | 83.5 | 85.5 | 85.4 | 76.8 | 85.7 | 75.0 | 80.7 | 76.7 | 78.0 |
| 15 | AH-97018 | 83.5 | 78.7 | 83.7 | 83.0 | 82.2 | 81.8 | 77.6 | 83.3 | 71.0 | 78.4 | 77.5 | 77.7 |
| 16 | BIO-605 | 85.6 | 78.0 | 82.3 | 79.5 | 81.4 | 84.9 | 80.0 | 85.7 | 72.0 | 80.7 | 77.7 | 78.4 |
| 17 | KH-9560 | 88.6 | 77.7 | 82.7 | 79.0 | 82.0 | 85.4 | 85.6 | 83.3 | 74.0 | 82.1 | 81.0 | 79.3 |
| | CHECKS | | | | | | | | | | | | |
| 18 | PARKASH | 87.1 | 79.7 | 79.0 | 81.0 | 81.7 | 85.7 | 88.9 | 82.0 | 76.5 | 83.3 | 79.0 | 78.2 |
| | Loc. Mean | 85.7 | 79.5 | 84.0 | 81.3 | 82.6 | 83.7 | 82.0 | 84.4 | 74.7 | 81.2 | 78.0 | 73.6 |
| | C.D. (5%) | 0.9 | 0.0 | 8.9 | 1.3 | 3.5 | 1.6- | - | - | 2.3 | 3.4 | 1.3 | - |
| | C.D. (1%) | 1.2 | 0.0 | 11.9 | 1.8 | 4.7 | 2.1- | - | - | 3.1 | 4.5 | 1.7 | - |
| | C.V. (%) | 0.6 | 0.0 | 6.4 | 1.0 | 3.0 | 1.1- | - | - | 1.9 | 2.9 | 1.0 | - |
| | F (Prob.) | 0.0 | 0.0 | 0.5 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | Zone Mean | |
|----------|------------|------------------|------|------|--------------|------|------|------|------|------|------|--------------|--------------|
| | | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | HYDE BIOS |
| 1 | EHL-162408 | 75.0 | 84.6 | 84.8 | 80.8 | 84.2 | 77.6 | 76.7 | 82.1 | 84.6 | 79.9 | 77.7 | 80.4 |
| 2 | EHL-162508 | 75.0 | 88.2 | 83.2 | 80.7 | 84.1 | 75.0 | 76.7 | 84.5 | 79.9 | 78.3 | 80.0 | 79.8 |
| 3 | FH-3506 | 81.0 | 84.5 | 82.4 | 81.2 | 84.0 | 79.9 | 77.0 | 83.4 | 82.4 | 83.1 | 77.3 | 81.0 |
| 4 | EH-2005 | 75.0 | 85.0 | 84.3 | 80.3 | 82.9 | 82.1 | 74.0 | 86.8 | 86.0 | 82.9 | 79.0 | 81.9 |
| 5 | EH-1992 | 76.0 | 84.5 | 83.8 | 79.7 | 82.0 | 77.1 | 80.3 | 83.6 | 83.6 | 79.1 | 80.0 | 80.8 |
| 6 | EH-1971 | 75.5 | 87.3 | 84.4 | 80.5 | 83.4 | 77.7 | 75.3 | 86.3 | 84.8 | 81.9 | 77.7 | 81.0 |
| 7 | KDM-399 | 75.0 | 85.7 | 80.5 | 76.6 | 84.1 | 77.6 | 82.3 | 84.3 | 82.3 | 79.5 | 79.3 | 81.4 |
| 8 | REH-2001 | 76.5 | 81.2 | 84.6 | 79.7 | 84.9 | 77.5 | 68.7 | 82.8 | 85.5 | 86.4 | 80.0 | 80.8 |
| 9 | REH-2002 | 76.0 | 89.4 | 82.2 | 80.0 | 82.9 | 73.6 | 82.0 | 83.2 | 75.0 | 82.3 | 79.7 | 79.8 |
| 10 | REH-2003 | 75.0 | 86.1 | 84.0 | 80.8 | 83.6 | 73.7 | 78.7 | 83.2 | 81.2 | 75.2 | 77.7 | 79.0 |
| 11 | JH-31236 | 81.0 | 86.1 | 84.2 | 82.1 | 86.6 | 82.9 | 71.3 | 84.9 | 78.9 | 83.3 | 78.7 | 80.9 |
| 12 | JH-31308 | 77.5 | 82.6 | 83.5 | 80.4 | 86.7 | 82.2 | 80.0 | 85.7 | 84.0 | 84.3 | 79.7 | 83.2 |
| 13 | AH-97002 | 76.0 | 86.6 | 87.5 | 81.7 | 85.5 | 83.1 | 84.0 | 84.9 | 74.3 | 81.8 | 79.7 | 81.9 |
| 14 | AH-97017 | 77.5 | 85.4 | 82.5 | 80.0 | 87.0 | 80.4 | 83.7 | 86.9 | 83.0 | 84.2 | 79.7 | 83.5 |
| 15 | AH-97018 | 75.0 | 85.4 | 85.6 | 80.2 | 86.2 | 81.3 | 77.3 | 85.5 | 84.5 | 77.5 | 80.0 | 81.7 |
| 16 | BIO-605 | 78.5 | 88.2 | 81.8 | 80.9 | 85.1 | 79.6 | 76.3 | 84.3 | 76.5 | 79.6 | 80.7 | 80.3 |
| 17 | KH-9560 | 76.0 | 86.5 | 84.2 | 81.4 | 84.4 | 82.3 | 76.7 | 84.2 | 82.6 | 84.2 | 80.3 | 82.1 |
| CHECKS | | | | | | | | | | | | | |
| 18 | PARKASH | 79.0 | 89.9 | 85.4 | 82.3 | 83.3 | 83.0 | 75.0 | 86.8 | 87.0 | 78.5 | 80.0 | 81.9 |
| | Loc. Mean | 76.7 | 85.9 | 83.8 | 80.5 | 84.5 | 79.2 | 77.6 | 84.6 | 82.0 | 81.2 | 79.3 | 81.2 |
| | C.D. (5%) | - | 1.8 | 4.2 | 2.3 | 2.6 | 1.7 | 6.5 | 3.0 | 1.3 | 0.9 | 1.3 | 2.9 |
| | C.D. (1%) | - | 2.4 | 5.6 | 3.1 | 3.5 | 2.3 | 8.8 | 4.0 | 1.8 | 1.2 | 1.7 | 3.8 |
| | C.V. (%) | - | 1.3 | 3.0 | 2.3 | 1.9 | 1.3 | 5.1 | 2.1 | 1.0 | 0.7 | 1.0 | 3.4 |
| | F (Prob.) | - | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
|----------|------------|------------------|------|------|--------------|--------------|------|------|------|--------------|
| | | UDAI | BANS | CHHI | | | | | | |
| 1 | EHL-162408 | 78.8 | 71.6 | 86.6 | 79.0 | 80.8 | 81.2 | 86.6 | 73.0 | 80.3 |
| 2 | EHL-162508 | 82.0 | 77.1 | 84.0 | 81.0 | 80.6 | 80.8 | 85.1 | 72.3 | 79.4 |
| 3 | FH-3506 | 82.7 | 72.0 | 86.8 | 80.5 | 81.4 | 81.2 | 85.5 | 81.9 | 82.8 |
| 4 | EH-2005 | 83.7 | 64.8 | 88.6 | 79.0 | 81.4 | 86.0 | 84.3 | 81.3 | 83.8 |
| 5 | EH-1992 | 81.9 | 65.1 | 88.2 | 78.4 | 80.4 | 80.5 | 84.9 | 80.0 | 81.8 |
| 6 | EH-1971 | 80.6 | 71.3 | 81.1 | 77.7 | 81.2 | 86.7 | 86.4 | 78.9 | 84.0 |
| 7 | KDM-399 | 77.4 | 62.6 | 82.6 | 74.2 | 79.8 | 81.1 | 85.6 | 80.7 | 82.5 |
| 8 | REH-2001 | 82.5 | 71.3 | 83.5 | 79.1 | 80.4 | 83.0 | 86.0 | 79.1 | 82.7 |
| 9 | REH-2002 | 79.7 | 66.9 | 85.3 | 77.3 | 80.2 | 81.1 | 86.5 | 80.6 | 82.7 |
| 10 | REH-2003 | 79.7 | 67.5 | 86.1 | 77.8 | 80.0 | 84.2 | 84.0 | 79.5 | 82.5 |
| 11 | JH-31236 | 82.8 | 71.4 | 86.7 | 80.3 | 81.7 | 83.5 | 87.9 | 79.8 | 83.7 |
| 12 | JH-31308 | 85.2 | 66.7 | 82.8 | 78.2 | 81.5 | 83.1 | 83.5 | 81.2 | 82.6 |
| 13 | AH-97002 | 82.3 | 72.0 | 85.5 | 79.9 | 81.7 | 84.5 | 85.1 | 78.4 | 82.6 |
| 14 | AH-97017 | 82.1 | 79.1 | 83.8 | 81.7 | 82.4 | 85.1 | 86.0 | 80.9 | 84.0 |
| 15 | AH-97018 | 79.0 | 67.5 | 87.1 | 77.8 | 80.4 | 85.2 | 84.3 | 78.6 | 82.7 |
| 16 | BIO-605 | 84.6 | 75.3 | 84.9 | 81.6 | 80.8 | 82.9 | 87.3 | 79.5 | 83.2 |
| 17 | KH-9560 | 83.4 | 73.7 | 88.1 | 81.7 | 81.9 | 85.3 | 85.8 | 77.1 | 82.7 |
| | CHECKS | | | | | | | | | |
| 18 | PARKASH | 81.7 | 67.7 | 82.3 | 77.2 | 81.6 | 85.4 | 87.5 | 81.3 | 84.7 |
| | Loc. Mean | 81.7 | 70.2 | 85.2 | 79.0 | 81.0 | 83.4 | 85.7 | 79.1 | 82.7 |
| | C.D. (5%) | 3.40 | 2.40 | 1.30 | 4.90 | 1.50 | 0.6 | 1.0 | - | 3.3 |
| | C.D. (1%) | 4.50 | 3.20 | 1.80 | 6.60 | 1.90 | | | | |
| | C.V. (%) | 2.50 | 2.06 | 0.93 | 3.76 | 3.13 | 0.4 | 0.7 | - | 2.4 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.25 | 0.02 | 0.0 | 0.0 | - | 0.3 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL |
|----------|------------|----------------------------|------|------|------|--------------|------|------|------|------|--------------|------|------|
| | | ALMO | BAJA | BARA | KANG | | | | | | | | |
| 1 | EHL-162408 | 62 | 79 | 52 | 69 | 66 | 57 | 49 | 62 | 78 | 61 | 69 | 55 |
| 2 | EHL-162508 | 63 | 78 | 52 | 65 | 65 | 53 | 53 | 62 | 73 | 60 | 72 | 54 |
| 3 | FH-3506 | 64 | 77 | 58 | 68 | 67 | 71 | 50 | 62 | 73 | 64 | 71 | 52 |
| 4 | EH-2005 | 61 | 78 | 52 | 67 | 65 | 61 | 48 | 61 | 74 | 61 | 71 | 56 |
| 5 | EH-1992 | 66 | 76 | 57 | 71 | 68 | 54 | 52 | 59 | 75 | 60 | 72 | 55 |
| 6 | EH-1971 | 56 | 68 | 54 | 67 | 62 | 52 | 51 | 64 | 72 | 60 | 72 | 51 |
| 7 | KDM-399 | 59 | 71 | 60 | 65 | 64 | 55 | 49 | 62 | 75 | 60 | 73 | 53 |
| 8 | REH-2001 | 62 | 69 | 49 | 64 | 61 | 60 | 49 | 61 | 72 | 61 | 72 | 50 |
| 9 | REH-2002 | 61 | 78 | 51 | 69 | 65 | 68 | 54 | 57 | 75 | 64 | 70 | 47 |
| 10 | REH-2003 | 64 | 83 | 52 | 70 | 67 | 59 | 49 | 61 | 75 | 61 | 67 | 50 |
| 11 | JH-31236 | 63 | 81 | 50 | 68 | 66 | 61 | 51 | 61 | 71 | 61 | 72 | 56 |
| 12 | JH-31308 | 67 | 79 | 54 | 71 | 68 | 64 | 52 | 62 | 76 | 63 | 73 | 57 |
| 13 | AH-97002 | 67 | 83 | 51 | 69 | 67 | 60 | 52 | 63 | 76 | 63 | 69 | 54 |
| 14 | AH-97017 | 63 | 80 | 54 | 69 | 66 | 63 | 53 | 61 | 79 | 64 | 69 | 55 |
| 15 | AH-97018 | 64 | 85 | 47 | 71 | 67 | 64 | 48 | 59 | 76 | 62 | 71 | 56 |
| 16 | BIO-605 | 60 | 75 | 50 | 65 | 62 | 54 | 55 | 59 | 78 | 61 | 73 | 52 |
| 17 | KH-9560 | 63 | 75 | 57 | 70 | 66 | 60 | 49 | 59 | 74 | 60 | 73 | 45 |
| | CHECKS | | | | | | | | | | | | |
| 18 | PARKASH | 60 | 71 | 48 | 69 | 62 | 61 | 48 | 58 | 72 | 60 | 74 | 56 |
| | Loc. Mean | 63 | 77 | 53 | 68 | 65 | 60 | 51 | 61 | 75 | 61 | 71 | 53 |
| | C.D. (5%) | 5.7 | 8.3 | 11.1 | 3.9 | 4.4 | 14.1 | 5.2 | 5.2 | 3.4 | 4.7 | 4.2 | 7.0 |
| | C.V. (%) | 5.5 | 6.5 | 12.7 | 3.4 | 4.8 | 14.2 | 6.2 | 5.2 | 2.7 | 5.3 | 3.5 | 7.9 |
| | F (Prob.) | 0.1 | 0.0 | 0.6 | 0.0 | 0.1 | 0.4 | 0.2 | 0.4 | 0.0 | 0.7 | 0.2 | 0.1 |

TABLE No. 3 (Cont..)

| Sl No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | Zone Mean | |
|----------|------------|----------------------------|------|------|------|--------------|------|------|------|------|------|------|--------------|--------------|
| | | JASH | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | HYDE BIOS |
| 1 | EHL-162408 | 53 | 79 | 55 | 74 | 64 | 59 | 57 | 58 | 74 | 59 | 66 | 74 | 64 |
| 2 | EHL-162508 | 58 | 83 | 59 | 74 | 67 | 54 | 62 | 57 | 83 | 64 | 67 | 74 | 66 |
| 3 | FH-3506 | 55 | 82 | 56 | 72 | 65 | 48 | 59 | 59 | 83 | 63 | 65 | 72 | 64 |
| 4 | EH-2005 | 52 | 81 | 58 | 74 | 65 | 55 | 58 | 58 | 83 | 62 | 67 | 74 | 65 |
| 5 | EH-1992 | 52 | 78 | 46 | 72 | 63 | 48 | 52 | 56 | 80 | 63 | 66 | 69 | 62 |
| 6 | EH-1971 | 54 | 79 | 63 | 76 | 66 | 49 | 57 | 58 | 76 | 58 | 67 | 69 | 62 |
| 7 | KDM-399 | 49 | 78 | 52 | 80 | 64 | 47 | 61 | 57 | 83 | 61 | 66 | 72 | 64 |
| 8 | REH-2001 | 52 | 74 | 58 | 71 | 63 | 61 | 53 | 58 | 78 | 58 | 65 | 73 | 64 |
| 9 | REH-2002 | 51 | 76 | 54 | 77 | 62 | 57 | 53 | 60 | 83 | 62 | 67 | 72 | 65 |
| 10 | REH-2003 | 52 | 73 | 49 | 75 | 61 | 53 | 61 | 59 | 72 | 64 | 66 | 71 | 64 |
| 11 | JH-31236 | 56 | 80 | 55 | 78 | 66 | 49 | 60 | 58 | 83 | 59 | 67 | 69 | 64 |
| 12 | JH-31308 | 56 | 83 | 59 | 78 | 68 | 54 | 58 | 59 | 83 | 59 | 67 | 79 | 66 |
| 13 | AH-97002 | 55 | 76 | 48 | 77 | 63 | 44 | 57 | 56 | 83 | 52 | 67 | 76 | 62 |
| 14 | AH-97017 | 53 | 82 | 56 | 78 | 66 | 60 | 59 | 57 | 83 | 63 | 67 | 72 | 66 |
| 15 | AH-97018 | 53 | 77 | 48 | 59 | 61 | 47 | 53 | 58 | 83 | 55 | 66 | 69 | 62 |
| 16 | BIO-605 | 50 | 82 | 56 | 67 | 63 | 54 | 58 | 56 | 83 | 61 | 67 | 69 | 64 |
| 17 | KH-9560 | 52 | 76 | 54 | 67 | 61 | 52 | 52 | 57 | 83 | 60 | 65 | 67 | 62 |
| CHECKS | | | | | | | | | | | | | | |
| 18 | PARKASH | 57 | 78 | 47 | 75 | 64 | 39 | 54 | 57 | 81 | 62 | 67 | 72 | 62 |
| | Loc. Mean | 53 | 79 | 54 | 74 | 64 | 52 | 57 | 58 | 81 | 60 | 66 | 72 | 64 |
| | C.D. (5%) | 4.7 | 7.4 | 15.5 | 18.0 | 3.8 | 11.1 | 6.4 | 3.1 | 10.4 | 6.4 | 1.6 | 5.0 | 3.5 |
| | C.V. (%) | 5.3 | 5.6 | 17.3 | 14.8 | 5.1 | 12.9 | 6.8 | 3.3 | 7.7 | 6.4 | 1.5 | 4.2 | 5.1 |
| | F (Prob.) | 0.1 | 0.2 | 0.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 0.0 | 0.5 | 0.0 | 0.2 |

TABLE No. 3 (Cont..)

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

TABLE No. 4

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA, UDHAMPUR(R), DMR DELHI, LUDHIANA(R), KARNAL, PANTNAGAR, KANPUR, BAHARAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, BANSWARA, GODHRA(R), CHHINDIWARA IN IET, TRIAL No. TR64 DURING KHARIF(2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|----|------|----|-------|----|-------|----|--------------|----|-------|----|------|----|-------|----|-------|----|--------------|----|
| | | ALMO | | BAJA | | BARA | | KANG | | ZN 1 MEAN | | DELH | | KARN | | PANT | | KANP | | ZN 2 MEAN | |
| 1 | FH-3478 | 8456 | 3 | 6733 | 4 | 3834 | 4 | 6924 | 2 | 6487 | 4 | 2956 | 10 | 3705 | 5 | 8792 | 3 | 6875 | 1 | 5582 | 4 |
| 2 | FH-3487 | 8078 | 7 | 8543 | 1 | 3840 | 3 | 6476 | 3 | 6734 | 3 | 3314 | 9 | 4280 | 1 | 9270 | 2 | 4662 | 11 | 5382 | 7 |
| 3 | FH-3488 | 8351 | 6 | 7430 | 2 | 3463 | 5 | 8195 | 1 | 6860 | 1 | 2888 | 11 | 4116 | 3 | 7026 | 9 | 6657 | 3 | 5172 | 8 |
| 4 | FH-3483 | 8846 | 1 | 7333 | 3 | 5116 | 1 | 5743 | 7 | 6760 | 2 | 6473 | 1 | 3565 | 6 | 10321 | 1 | 5553 | 9 | 6478 | 1 |
| 5 | FQH-76 | 8409 | 5 | 5780 | 8 | 4107 | 2 | 4679 | 10 | 5744 | 5 | 3877 | 7 | 3189 | 8 | 6172 | 11 | 5593 | 8 | 4708 | 11 |
| 6 | DH-177 | 7693 | 8 | 5215 | 9 | 2496 | 10 | 5170 | 8 | 5143 | 9 | 4115 | 6 | 3993 | 4 | 7547 | 7 | 6406 | 4 | 5516 | 5 |
| 7 | DH-179 | 5516 | 11 | 4311 | 11 | 2055 | 11 | 6379 | 4 | 4565 | 11 | 4493 | 4 | 4273 | 2 | 7307 | 8 | 6398 | 5 | 5618 | 3 |
| 8 | AH-97020 | 6955 | 9 | 6134 | 5 | 2674 | 8 | 4989 | 9 | 5188 | 8 | 4775 | 3 | 2936 | 9 | 8158 | 6 | 6673 | 2 | 5635 | 2 |
| 9 | AH-97024 | 6527 | 10 | 5887 | 7 | 2770 | 7 | 4481 | 11 | 4916 | 10 | 3625 | 8 | 2606 | 10 | 8238 | 4 | 6067 | 7 | 5134 | 9 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 8431 | 4 | 5986 | 6 | 2554 | 9 | 5879 | 6 | 5713 | 6 | 4210 | 5 | 3251 | 7 | 8203 | 5 | 6349 | 6 | 5503 | 6 |
| 11 | VIVEK HYBRID-9 | 8554 | 2 | 4869 | 10 | 2947 | 6 | 6075 | 5 | 5611 | 7 | 5121 | 2 | 2412 | 11 | 6537 | 10 | 5342 | 10 | 4853 | 10 |
| | Location Mean | 7802 | | 6202 | | 3259 | | 5908 | | 5793 | | 4168 | | 3484 | | 7961 | | 6052 | | 5416 | |
| | Mean Stand | 23 | | 32 | | 31 | | 29 | | 29 | | 33 | | 30 | | 35 | | 42 | | 35 | |
| | C.D. (5%) | 1274 | | 1081 | | 991 | | 535 | | 970 | | 1195 | | 573 | | 2516 | | 875 | | 1290 | |
| | C.V. (%) | 9.56 | | 10.2 | | 17.78 | | 5.3 | | - | | 16.78 | | 9.63 | | 18.49 | | 8.46 | | - | |
| | F (Prob) | 0.001 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0.012 | | 0.005 | | - | |
| | Plot Size | 3.6 | | 4.2 | | 5.6 | | 4.2 | | - | | 5.6 | | 6 | | 6 | | 4.8 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 9-07 | | 4-07 | | 15-07 | | 1-07 | | - | | 7-06 | | 2-07 | | 1-08 | | 14-07 | | - | |
| | Harvest Date | 3-11 | | 5-11 | | - | | 12-10 | | - | | 10-09 | | 2-10 | | 18-11 | | 2-11 | | - | |
| | Irrigation Nos | - | | 3 | | - | | - | | - | | 4 | | 3 | | - | | 2 | | - | |
| | Fertilizer Applied N | 80 | | 120 | | - | | 120 | | - | | 150 | | 150 | | 120 | | 80 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 60 | | - | | 75 | | 60 | | 60 | | 40 | | - | |
| | Fertilizer Applied K | 40 | | 40 | | - | | 40 | | - | | 75 | | 60 | | 40 | | 40 | | - | |

TABLE No. 4 (Cont..)

| Sl No PEDIGREE | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | ZN 3 | | ARBH | | HYDE | | KARI | | KOLH | |
|-------------------|----------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|-------|----|-------|----|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R | R | R | R | R | R | R | R | |
| 1 | FH-3478 | 2556 | 9 | 2938 | 11 | 3051 | 4 | 4704 | 10 | 9039 | 1 | 5431 | 4 | 4620 | 7 | 1942 | 10 | 4903 | 4 | 3192 | 9 | 6620 | 6 |
| 2 | FH-3487 | 4311 | 1 | 4106 | 5 | 2766 | 5 | 7080 | 1 | 8374 | 3 | 5219 | 8 | 5310 | 1 | 2238 | 6 | 4732 | 6 | 5005 | 2 | 7400 | 5 |
| 3 | FH-3488 | 3769 | 2 | 4493 | 2 | 2480 | 9 | 5301 | 7 | 7627 | 6 | 5246 | 7 | 4819 | 4 | 1687 | 11 | 5121 | 3 | 3175 | 10 | 5962 | 10 |
| 4 | FH-3483 | 2268 | 11 | 3999 | 6 | 4428 | 1 | 5830 | 6 | 8743 | 2 | 6385 | 1 | 5275 | 2 | 3430 | 1 | 5952 | 1 | 5051 | 1 | 8819 | 3 |
| 5 | FQH-76 | 2826 | 7 | 3213 | 9 | 2186 | 10 | 2954 | 11 | 6125 | 8 | 5454 | 2 | 3793 | 11 | 2541 | 5 | 4810 | 5 | 3754 | 4 | 6607 | 7 |
| 6 | DH-177 | 2620 | 8 | 4738 | 1 | 2751 | 6 | 6752 | 2 | 6191 | 7 | 5317 | 5 | 4728 | 5 | 2124 | 9 | 3573 | 11 | 3230 | 8 | 7478 | 4 |
| 7 | DH-179 | 3324 | 4 | 3908 | 8 | 2615 | 7 | 4797 | 9 | 5636 | 10 | 4435 | 11 | 4119 | 10 | 2548 | 4 | 4420 | 9 | 3291 | 7 | 6333 | 8 |
| 8 | AH-97020 | 2412 | 10 | 3089 | 10 | 3110 | 3 | 5860 | 5 | 5904 | 9 | 5317 | 6 | 4282 | 9 | 2153 | 8 | 4532 | 8 | 3722 | 5 | 6154 | 9 |
| 9 | AH-97024 | 2939 | 5 | 4116 | 4 | 3657 | 2 | 6244 | 4 | 5363 | 11 | 4624 | 10 | 4490 | 8 | 2184 | 7 | 4555 | 7 | 2056 | 11 | 5842 | 11 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 2916 | 6 | 4304 | 3 | 2578 | 8 | 4859 | 8 | 8116 | 4 | 5439 | 3 | 4702 | 6 | 2790 | 2 | 3856 | 10 | 4014 | 3 | 8974 | 2 |
| 11 | VIVEK HYBRID-9 | 3554 | 3 | 3947 | 7 | 1913 | 11 | 6732 | 3 | 8060 | 5 | 5054 | 9 | 4877 | 3 | 2620 | 3 | 5636 | 2 | 3490 | 6 | 9823 | 1 |
| | Location Mean | 3045 | | 3895 | | 2867 | | 5556 | | 7198 | | 5266 | | 4638 | | 2387 | | 4736 | | 3635 | | 7274 | |
| | Mean Stand | 33 | | 31 | | 26 | | 37 | | 29 | | 35 | | 32 | | 30 | | 34 | | 34 | | 37 | |
| | C.D. (5%) | 498 | | 1992 | | 164 | | 1007 | | 1602 | | 1048 | | 1052 | | 635 | | 1455 | | 452 | | 2013 | |
| | C.V. (%) | 9.57 | | 29.93 | | 3.34 | | 10.61 | | 13.02 | | 11.65 | | - | | 15.56 | | 17.98 | | 7.28 | | 16.19 | |
| | F (Prob) | 0 | | 0.164 | | 0 | | 0 | | 0 | | 0.003 | | - | | 0 | | 0.058 | | 0 | | 0.032 | |
| | Plot Size | 4.8 | | 6 | | 4.8 | | 4.8 | | 5.6 | | 4.8 | | - | | 12 | | 6 | | 6 | | 4.8 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-09 | | 7-07 | | 26-07 | | 2-07 | | 6-07 | | 18-07 | | - | | 17-07 | | 7-07 | | 12-07 | | 28-07 | |
| | Harvest Date | 10-12 | | - | | 12-11 | | 4-10 | | 12-10 | | - | | - | | 3-11 | | 5-11 | | 9-10 | | 5-12 | |
| | Irrigation Nos | - | | - | | - | | 1 | | - | | - | | - | | 6 | | 2 | | - | | - | |
| | Fertilizer N | 120 | | 120 | | 120 | | 100 | | - | | 80 | | - | | 150 | | 180 | | 200 | | 100 | |
| | Fertilizer P | 60 | | 60 | | 60 | | 60 | | - | | 50 | | - | | 75 | | 60 | | 80 | | 50 | |
| | Fertilizer K | 60 | | 40 | | 60 | | 40 | | - | | 30 | | - | | 37.5 | | 50 | | 60 | | 30 | |

TABLE No. 4 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | RAINFED TRIALS | | | | | | | | | | | | |
|---------------|----------------|-------------------------------------|----|-------|----|------|----|------|----|-------|----|-------|----|----------------|----|------|----|-------|----|-------|----|-------|----|------|----|--|
| | | MAND | | COIM | | ZN 4 | | UDAI | | BANS | | CHHI | | ZN 5 | | OV'L | | ZN 1 | | ZN 2 | | ZN 5 | | OV'L | | |
| | | R | R | R | R | MEAN | R | MEAN | R | MEAN | R | MEAN | R | MEAN | R | MEAN | R | UDHA | R | LUDH | R | GODH | R | MEAN | R | |
| 1 | FH-3478 | 6536 | 7 | 9080 | 6 | 5379 | 6 | 5798 | 3 | 3572 | 8 | 5475 | 1 | 4948 | 3 | 5353 | 4 | 3691 | 1 | 4709 | 8 | 3023 | 6 | 3808 | 4 | |
| 2 | FH-3487 | 7110 | 4 | 12022 | 1 | 6418 | 2 | 5681 | 10 | 4885 | 1 | 4292 | 5 | 4952 | 2 | 5812 | 2 | 2876 | 7 | 4831 | 7 | 3408 | 3 | 3705 | 5 | |
| 3 | FH-3488 | 4666 | 9 | 8218 | 9 | 4805 | 10 | 5789 | 4 | 3827 | 7 | 3566 | 11 | 4394 | 9 | 5176 | 6 | 2963 | 5 | 4141 | 11 | 3169 | 4 | 3424 | 8 | |
| 4 | FH-3483 | 8162 | 1 | 10936 | 2 | 7058 | 1 | 4941 | 11 | 3954 | 6 | 5310 | 3 | 4735 | 6 | 6137 | 1 | 3433 | 2 | 7787 | 2 | 4073 | 1 | 5098 | 1 | |
| 5 | FQH-76 | 6629 | 6 | 8711 | 7 | 5509 | 5 | 5772 | 6 | 4336 | 4 | 4042 | 6 | 4717 | 7 | 4859 | 9 | 2023 | 11 | 4260 | 10 | 3557 | 2 | 3280 | 10 | |
| 6 | DH-177 | 6955 | 5 | 8522 | 8 | 5314 | 7 | 5785 | 5 | 3284 | 10 | 3603 | 10 | 4224 | 10 | 5024 | 7 | 2134 | 10 | 5101 | 6 | 2806 | 8 | 3347 | 9 | |
| 7 | DH-179 | 7526 | 3 | 7624 | 11 | 5290 | 8 | 5751 | 8 | 4334 | 5 | 3901 | 8 | 4662 | 8 | 4834 | 10 | 2923 | 6 | 4647 | 9 | 2224 | 11 | 3265 | 11 | |
| 8 | AH-97020 | 4502 | 10 | 7691 | 10 | 4792 | 11 | 5813 | 2 | 4884 | 2 | 3995 | 7 | 4897 | 4 | 4888 | 8 | 3088 | 3 | 6359 | 3 | 2424 | 10 | 3957 | 3 | |
| 9 | AH-97024 | 5964 | 8 | 9320 | 5 | 4987 | 9 | 5711 | 9 | 3204 | 11 | 3728 | 9 | 4214 | 11 | 4770 | 11 | 3061 | 4 | 5381 | 4 | 2494 | 9 | 3645 | 6 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 7729 | 2 | 9777 | 4 | 6190 | 3 | 5768 | 7 | 4796 | 3 | 5401 | 2 | 5322 | 1 | 5486 | 3 | 2271 | 9 | 5206 | 5 | 2972 | 7 | 3483 | 7 | |
| 11 | VIVEK HYBRID-9 | 4221 | 11 | 10645 | 3 | 6073 | 4 | 6377 | 1 | 3509 | 9 | 4746 | 4 | 4877 | 5 | 5312 | 5 | 2376 | 8 | 7875 | 1 | 3147 | 5 | 4466 | 2 | |
| | Location Mean | 6364 | | 9322 | | 5619 | | 5744 | | 4053 | | 4369 | | 4722 | | 5241 | | 2804 | | 5482 | | 3027 | | 3771 | | |
| | Mean Stand | 33 | | 32 | | 33 | | 35 | | 30 | | 38 | | 35 | | 33 | | 23 | | 36 | | 34 | | 31 | | |
| | C.D. (5%) | 894 | | 912 | | 1060 | | 620 | | 634 | | 758 | | 671 | | 1031 | | 1660 | | 1534 | | 1154 | | 1450 | | |
| | C.V. (%) | 8.22 | | 5.72 | | - | | 6.32 | | 9.15 | | 10.15 | | - | | - | | 34.65 | | 16.38 | | 22.31 | | - | | |
| | F (Prob) | 0 | | 0 | | 0.54 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0.38 | | 0.001 | | 0.018 | | - | | |
| | Plot Size | 5.6 | | 4.8 | | - | | 4.8 | | 4.8 | | 6 | | - | | - | | 6 | | 5.46 | | 4.8 | | - | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 22-07 | | 16-07 | | - | | 1-07 | | 8-07 | | 14-07 | | - | | - | | 8-07 | | 24-07 | | 27-07 | | - | | |
| | Harvest Date | 23-11 | | 12-11 | | - | | 8-10 | | 23-10 | | 22-11 | | - | | - | | 27-10 | | 27-10 | | 28-10 | | - | | |
| | Irrigation Nos | 6 | | 10 | | - | | 2 | | 2 | | - | | - | | - | | - | | - | | - | | - | | |
| | Fertilizer N | 150 | | 150 | | - | | 90 | | 90 | | 120 | | - | | - | | 80 | | 80 | | 100 | | - | | |
| | Fertilizer P | 75 | | 75 | | - | | 60 | | 40 | | 60 | | - | | - | | 60 | | 40 | | 50 | | - | | |
| | Fertilizer K | 40 | | 75 | | - | | - | | - | | 40 | | - | | - | | 40 | | - | | 50 | | - | | |

TABLE No. 4 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9 | | | | | | | | | | | | | | | | | | |
|--|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | ZN 1 | | | | | | | | | | | | | | | | ZN 2 | ZN 3 |
| No | PEDIGREE | ALMO | BAJA | BARA | KANG | MEAN | DELH | KARN | PANT | KANP | MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN |
| 1 | FH-3478 | 0.3 | 12.5 | 50.1 | 17.8 | 13.6 | - | 14 | 7.2 | 8.3 | 1.4 | - | - | 18.3 | - | 11.4 | - | - |
| 2 | FH-3487 | - | 42.7 | 50.3 | 10.1 | 17.9 | - | 31.6 | 13 | - | - | 47.8 | - | 7.3 | 45.7 | 3.2 | - | 12.9 |
| 3 | FH-3488 | - | 24.1 | 35.6 | 39.4 | 20.1 | - | 26.6 | - | 4.9 | - | 29.3 | 4.4 | - | 9.1 | - | - | 2.5 |
| 4 | FH-3483 | 4.9 | 22.5 | 100.3 | - | 18.3 | 53.7 | 9.6 | 25.8 | - | 17.7 | - | - | 71.7 | 20 | 7.7 | 17.4 | 12.2 |
| 5 | FQH-76 | - | - | 60.8 | - | 0.5 | - | - | - | - | - | - | - | - | - | - | 0.3 | - |
| 6 | DH-177 | - | - | - | - | - | - | 22.8 | - | 0.9 | 0.2 | - | 10.1 | 6.7 | 39 | - | - | 0.6 |
| 7 | DH-179 | - | - | - | 8.5 | - | 6.7 | 31.4 | - | 0.8 | 2.1 | 14 | - | 1.4 | - | - | - | - |
| 8 | AH-97020 | - | 2.5 | 4.7 | - | - | 13.4 | - | - | 5.1 | 2.4 | - | - | 20.6 | 20.6 | - | - | - |
| 9 | AH-97024 | - | - | 8.5 | - | - | - | - | 0.4 | - | - | 0.8 | - | 41.8 | 28.5 | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | VIVEK HYBRID-9 | 1.5 | - | 15.4 | 3.3 | - | 21.6 | - | - | - | - | 21.9 | - | - | 38.6 | - | - | 3.7 |

| S1 | ZN 3 | | | | | | | | | | | | | | | | ZN 4 | ZN 5 | OV'L | ZN 1 | ZN 2 | ZN 5 | OV'L |
|--------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| No | PEDIGREE | AMBI | MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | UDHA | LUDH | GODH | MEAN | | | | |
| 1 | FH-3478 | - | - | - | 27.1 | - | - | - | - | - | 0.5 | - | 1.4 | - | - | 62.5 | - | 1.7 | 9.3 | | | | |
| 2 | FH-3487 | - | 12.9 | - | 22.7 | 24.7 | - | - | 23 | 3.7 | - | 1.9 | - | 5.9 | 26.6 | - | 14.7 | 6.4 | | | | | |
| 3 | FH-3488 | - | 2.5 | - | 32.8 | - | - | - | - | - | 0.4 | - | - | - | 30.5 | - | 6.6 | - | | | | | |
| 4 | FH-3483 | 17.4 | 12.2 | 22.9 | 54.4 | 25.8 | - | 5.6 | 11.8 | 14 | - | - | - | 11.9 | 51.2 | 49.6 | 37.1 | 46.4 | | | | | |
| 5 | FQH-76 | 0.3 | - | - | 24.7 | - | - | - | - | - | 0.1 | - | - | - | - | - | - | 19.7 | - | | | | |
| 6 | DH-177 | - | 0.6 | - | - | - | - | - | - | - | 0.3 | - | - | - | - | - | - | - | - | | | | |
| 7 | DH-179 | - | - | - | 14.6 | - | - | - | - | - | - | - | - | - | - | 28.7 | - | - | - | | | | |
| 8 | AH-97020 | - | - | - | 17.5 | - | - | - | - | - | 0.8 | 1.8 | - | - | - | 36 | 22.1 | - | 13.6 | | | | |
| 9 | AH-97024 | - | - | - | 18.1 | - | - | - | - | - | - | - | - | - | - | 34.8 | 3.4 | - | 4.7 | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 11 | VIVEK HYBRID-9 | - | 3.7 | - | 46.2 | - | 9.5 | - | 8.9 | - | 10.6 | - | - | - | - | 4.6 | 51.3 | 5.9 | 28.2 | | | | |

TABLE No. 4 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-9 | | | | | | | | | | | | | | | | | | |
|---|----------------|------|------|------|------|--------------|------|------|------|------|--------------|------|------|-------|------|------|------|------|
| S1 | | | | | | | | | | | | | | | | | ZN 3 | |
| No | PEDIGREE | ALMO | BAJA | BARA | KANG | ZN 1 MEAN | DELH | KARN | PANT | KANP | ZN 2 MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN |
| 1 | FH-3478 | - | 38.3 | 30.1 | 14 | 15.6 | - | 53.6 | 34.5 | 28.7 | 15 | - | - | 59.5 | - | 12.1 | 7.5 | - |
| 2 | FH-3487 | - | 75.5 | 30.3 | 6.6 | 20 | - | 77.5 | 41.8 | - | 10.9 | 21.3 | 4 | 44.6 | 5.2 | 3.9 | 3.3 | 8.9 |
| 3 | FH-3488 | - | 52.6 | 17.5 | 34.9 | 22.3 | - | 70.7 | 7.5 | 24.6 | 6.6 | 6.1 | 13.8 | 29.6 | - | - | 3.8 | - |
| 4 | FH-3483 | 3.4 | 50.6 | 73.6 | - | 20.5 | 26.4 | 47.8 | 57.9 | 4 | 33.5 | - | 1.3 | 131.4 | - | 8.5 | 26.3 | 8.2 |
| 5 | FQH-76 | - | 18.7 | 39.4 | - | 2.4 | - | 32.2 | - | 4.7 | - | - | - | 14.3 | - | - | 7.9 | - |
| 6 | DH-177 | - | 7.1 | - | - | - | - | 65.6 | 15.5 | 19.9 | 13.7 | - | 20 | 43.8 | 0.3 | - | 5.2 | - |
| 7 | DH-179 | - | - | - | 5 | - | - | 77.2 | 11.8 | 19.8 | 15.8 | - | - | 36.7 | - | - | - | - |
| 8 | AH-97020 | - | 26 | - | - | - | - | 21.7 | 24.8 | 24.9 | 16.1 | - | - | 62.5 | - | - | 5.2 | - |
| 9 | AH-97024 | - | 20.9 | - | - | - | - | 8.1 | 26 | 13.6 | 5.8 | - | 4.3 | 91.1 | - | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | - | 22.9 | - | - | 1.8 | - | 34.8 | 25.5 | 18.9 | 13.4 | - | 9.1 | 34.7 | - | 0.7 | 7.6 | - |
| 11 | VIVEK HYBRID-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| S1 | | | | | | | | | | | | | | | | | ZN 4 | ZN 5 | OV'L | ZN 1 | ZN 2 | ZN 5 | OV'L |
|--------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | UDHA | LUDH | GODH | MEAN | | | | | | |
| 1 | FH-3478 | - | - | - | - | 54.8 | - | - | - | 1.8 | 15.4 | 1.5 | 0.8 | 55.3 | - | - | - | | | | | | |
| 2 | FH-3487 | - | - | 43.4 | - | 68.4 | 12.9 | 5.7 | - | 39.2 | - | 1.5 | 9.4 | 21 | - | 8.3 | - | | | | | | |
| 3 | FH-3488 | - | - | - | - | 10.5 | - | - | - | 9.1 | - | - | - | 24.7 | - | 0.7 | - | | | | | | |
| 4 | FH-3483 | 30.9 | 5.6 | 44.7 | - | 93.4 | 2.7 | 16.2 | - | 12.7 | 11.9 | - | 15.5 | 44.5 | - | 29.4 | 14.1 | | | | | | |
| 5 | FQH-76 | - | - | 7.6 | - | 57 | - | - | - | 23.6 | - | - | - | - | - | 13 | - | | | | | | |
| 6 | DH-177 | - | - | - | - | 64.8 | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 7 | DH-179 | - | - | - | - | 78.3 | - | - | - | 23.5 | - | - | - | 23 | - | - | - | | | | | | |
| 8 | AH-97020 | - | - | 6.6 | - | 6.6 | - | - | - | 39.2 | - | 0.4 | - | 29.9 | - | - | - | | | | | | |
| 9 | AH-97024 | - | - | - | - | 41.3 | - | - | - | - | - | - | - | 28.8 | - | - | - | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 6.5 | - | 15 | - | 83.1 | - | 1.9 | - | 36.7 | 13.8 | 9.1 | 3.3 | - | - | - | - | | | | | | |
| 11 | VIVEK HYBRID-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |

TABLE No. 4 (Cont..)

DAYS TO 50% POLLEN SHED

| S1 No | PEDIGREE | ALMO | BAJA | BARA | KANG | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
|----------|----------------|------|------|------|------|--------------|------|--------------|------|------|--------------|--------------|--------------|------|------|------|--------------|--------------|
| 1 | FH-3478 | 48.7 | 53.3 | 50.3 | 50.3 | 50.7 | 48.3 | 45.7 | 48.3 | 52.0 | 48.6 | 48.7 | 48.7 | 41.7 | 44.7 | 41.3 | 47.0 | 45.3 |
| 2 | FH-3487 | 50.0 | 55.3 | 51.3 | 49.7 | 51.6 | 49.7 | 46.3 | 48.7 | 44.0 | 47.2 | 47.3 | 48.3 | 43.3 | 45.0 | 42.7 | 47.7 | 45.7 |
| 3 | FH-3488 | 49.3 | 55.7 | 51.0 | 48.3 | 51.1 | 46.7 | 47.7 | 50.3 | 48.0 | 48.2 | 49.7 | 48.7 | 43.0 | 43.3 | 42.7 | 46.0 | 45.6 |
| 4 | FH-3483 | 50.0 | 56.3 | 51.3 | 47.7 | 51.3 | 45.3 | 45.0 | 47.3 | 45.0 | 45.7 | 50.7 | 49.3 | 44.3 | 44.3 | 42.7 | 49.0 | 46.7 |
| 5 | FQH-76 | 48.3 | 56.3 | 50.0 | 48.7 | 50.8 | 44.7 | 43.7 | 47.3 | 48.0 | 45.9 | 47.7 | 47.7 | 40.7 | 42.0 | 39.7 | 45.0 | 43.8 |
| 6 | DH-177 | 51.0 | 56.0 | 51.7 | 49.3 | 52.0 | 48.3 | 46.3 | 48.7 | 48.0 | 47.8 | 47.7 | 48.0 | 44.0 | 44.3 | 42.7 | 47.0 | 45.6 |
| 7 | DH-179 | 50.0 | 57.7 | 50.7 | 48.7 | 51.8 | 46.0 | 43.0 | 48.3 | 47.0 | 46.1 | 45.0 | 48.3 | 41.3 | 43.0 | 40.0 | 46.7 | 44.1 |
| 8 | AH-97020 | 52.3 | 57.3 | 53.7 | 50.3 | 53.4 | 49.7 | 47.3 | 48.3 | 46.0 | 47.8 | 49.7 | 53.3 | 43.7 | 45.7 | 42.7 | 45.7 | 46.8 |
| 9 | AH-97024 | 54.7 | 56.7 | 55.7 | 47.3 | 53.6 | 49.0 | 47.0 | 50.3 | 45.0 | 47.8 | 48.3 | 52.7 | 45.7 | 45.0 | 40.7 | 47.3 | 46.6 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 47.3 | 53.0 | 49.3 | 48.3 | 49.5 | 43.7 | 42.3 | 47.7 | 44.0 | 44.4 | 46.7 | 48.0 | 41.0 | 42.0 | 40.0 | 46.0 | 43.9 |
| 11 | VIVEK HYBRID-9 | 48.0 | 53.3 | 49.3 | 48.0 | 49.7 | 44.3 | 44.0 | 47.3 | 45.0 | 45.2 | 45.3 | 48.3 | 41.0 | 42.3 | 41.7 | 48.3 | 44.5 |
| | Loc. Mean | 50.0 | 55.5 | 51.3 | 48.8 | 51.4 | 46.9 | 45.3 | 48.4 | 46.5 | 46.8 | 47.9 | 49.2 | 42.7 | 43.8 | 41.5 | 46.9 | 45.3 |
| | C.D. (5%) | 1.0 | 1.1 | 1.1 | 2.8 | 1.9 | 3.8 | 2.5 | 2.3 | 1.8 | 2.3 | 0.9 | 2.3 | 2.7 | 1.6 | 2.7 | 1.0 | 1.3 |
| | C.D. (1%) | 1.4 | 1.5 | 1.5 | 3.8 | 2.5 | 5.2 | 3.3 | 3.1 | 2.4 | 3.0 | 1.2 | 3.1 | 3.7 | 2.2 | 3.7 | 1.4 | 1.8 |
| | C.V. (%) | 1.2 | 1.1 | 1.3 | 3.4 | 2.5 | 4.8 | 3.2 | 2.8 | 2.2 | 3.4 | 1.1 | 2.7 | 3.7 | 2.1 | 3.8 | 1.3 | 2.6 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.02 | 0.00 | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.11 | 0.00 | 0.00 |
| ----- | | | | | | | | | | | | | | | | | | |
| S1 No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean | |
| 1 | FH-3478 | 49.7 | 46.0 | 44.0 | 50.7 | 45.7 | 46.0 | 47.0 | 46.3 | 46.0 | 48.7 | 47.0 | 47.5 | 49.5 | 43.3 | 46.7 | 46.5 | |
| 2 | FH-3487 | 51.3 | 47.3 | 44.3 | 50.7 | 45.3 | 46.7 | 47.6 | 46.3 | 37.0 | 48.7 | 44.0 | 47.3 | 51.7 | 43.3 | 48.3 | 47.8 | |
| 3 | FH-3488 | 50.7 | 46.7 | 45.0 | 49.7 | 44.7 | 46.7 | 47.2 | 46.7 | 39.3 | 49.7 | 45.2 | 47.4 | 52.7 | 44.3 | 46.7 | 47.9 | |
| 4 | FH-3483 | 50.0 | 46.3 | 45.3 | 51.0 | 46.3 | 46.0 | 47.5 | 46.3 | 39.7 | 50.0 | 45.3 | 47.4 | 52.0 | 45.7 | 48.3 | 48.7 | |
| 5 | FQH-76 | 50.3 | 47.0 | 44.3 | 49.3 | 44.0 | 45.3 | 46.7 | 44.3 | 38.0 | 48.7 | 43.7 | 46.1 | 52.0 | 43.7 | 46.7 | 47.4 | |
| 6 | DH-177 | 51.0 | 48.0 | 45.3 | 50.7 | 46.7 | 45.7 | 47.9 | 45.7 | 37.7 | 49.0 | 44.1 | 47.5 | 52.7 | 44.7 | 46.7 | 48.0 | |
| 7 | DH-179 | 50.7 | 48.3 | 44.3 | 48.7 | 44.3 | 46.0 | 47.1 | 44.7 | 37.7 | 49.3 | 43.9 | 46.5 | 51.7 | 44.3 | 45.3 | 47.1 | |
| 8 | AH-97020 | 54.7 | 49.7 | 47.0 | 51.3 | 46.7 | 48.3 | 49.6 | 48.7 | 37.0 | 52.0 | 45.9 | 48.7 | 54.0 | 45.7 | 48.0 | 49.2 | |
| 9 | AH-97024 | 53.3 | 50.3 | 49.0 | 50.3 | 47.3 | 47.7 | 49.7 | 48.7 | 37.3 | 52.0 | 46.0 | 48.8 | 54.7 | 45.3 | 50.3 | 50.1 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 50.0 | 47.0 | 44.0 | 46.0 | 43.7 | 45.3 | 46.0 | 43.3 | 38.3 | 48.0 | 43.2 | 45.4 | 51.3 | 44.0 | 45.7 | 47.0 | |
| 11 | VIVEK HYBRID-9 | 48.3 | 47.0 | 44.0 | 46.3 | 44.0 | 45.3 | 45.8 | 43.7 | 38.0 | 47.0 | 42.9 | 45.7 | 49.7 | 44.0 | 45.3 | 46.3 | |
| | Loc. Mean | 50.9 | 47.6 | 45.2 | 49.5 | 45.3 | 46.3 | 47.5 | 45.9 | 38.7 | 49.4 | 44.7 | 47.1 | 52.0 | 44.4 | 47.1 | 47.8 | |
| | C.D. (5%) | 1.8 | 1.4 | 1.8 | 1.7 | 2.3 | 1.0 | 1.0 | 1.8 | 1.3 | 0.9 | 3.2 | 0.8 | 2.79 | 1.28 | 1.78 | 1.49 | |
| | C.D. (1%) | 2.5 | 1.9 | 2.4 | 2.3 | 3.1 | 1.4 | 1.4 | 2.4 | 1.8 | 1.3 | 4.3 | 1.0 | | | | | |
| | C.V. (%) | 2.1 | 1.7 | 2.3 | 2.0 | 3.0 | 1.3 | 1.9 | 2.3 | 2.0 | 1.1 | 4.2 | 2.8 | 3.15 | 1.69 | 2.22 | 1.83 | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | |

TABLE No. 4 (Cont..)

DAYS TO 50% SILKING

| Sl No | PEDIGREE | Zone | | | | | Zone | | | | | | | | | | | Zone |
|----------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ALMO | BAJA | BARA | KANG | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean |
| 1 | FH-3478 | 49.7 | 55.7 | 51.3 | 53.0 | 52.4 | 50.0 | 47.7 | 50.3 | 55.0 | 50.8 | 50.7 | 49.7 | 44.0 | 49.3 | 45.7 | 49.3 | 48.1 |
| 2 | FH-3487 | 50.7 | 57.7 | 52.3 | 52.7 | 53.3 | 49.3 | 48.3 | 50.7 | 48.0 | 49.1 | 49.3 | 49.7 | 45.7 | 49.0 | 46.7 | 51.0 | 48.6 |
| 3 | FH-3488 | 50.3 | 57.7 | 53.0 | 52.0 | 53.3 | 51.0 | 49.7 | 52.3 | 52.0 | 51.3 | 51.7 | 49.7 | 45.0 | 48.3 | 46.7 | 49.0 | 48.4 |
| 4 | FH-3483 | 51.3 | 58.3 | 52.3 | 51.0 | 53.3 | 49.0 | 47.0 | 49.3 | 49.0 | 48.6 | 52.3 | 50.3 | 46.3 | 49.0 | 47.0 | 52.0 | 49.5 |
| 5 | FQH-76 | 48.7 | 58.3 | 51.0 | 51.7 | 52.4 | 48.7 | 45.7 | 49.7 | 51.3 | 48.8 | 49.7 | 48.3 | 43.3 | 48.7 | 44.7 | 48.0 | 47.1 |
| 6 | DH-177 | 52.0 | 58.0 | 53.7 | 52.3 | 54.0 | 51.0 | 48.3 | 50.7 | 52.0 | 50.5 | 50.0 | 48.7 | 45.3 | 49.0 | 46.7 | 50.3 | 48.3 |
| 7 | DH-179 | 51.0 | 59.7 | 51.7 | 52.0 | 53.6 | 48.3 | 45.0 | 50.3 | 52.0 | 48.9 | 47.0 | 49.3 | 43.0 | 48.0 | 45.0 | 50.0 | 47.1 |
| 8 | AH-97020 | 54.0 | 59.3 | 55.7 | 50.7 | 54.9 | 52.3 | 49.3 | 50.7 | 50.0 | 50.6 | 52.0 | 54.3 | 46.3 | 51.0 | 46.7 | 48.7 | 49.8 |
| 9 | AH-97024 | 56.3 | 59.3 | 57.7 | 51.7 | 56.3 | 51.3 | 49.3 | 52.3 | 50.0 | 50.8 | 50.3 | 53.7 | 48.3 | 53.7 | 45.0 | 50.7 | 50.3 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 47.7 | 55.0 | 50.3 | 51.7 | 51.2 | 48.7 | 44.3 | 49.7 | 49.0 | 47.9 | 48.7 | 49.0 | 43.3 | 47.7 | 44.7 | 48.7 | 47.0 |
| 11 | VIVEK HYBRID-9 | 48.3 | 55.3 | 50.3 | 51.0 | 51.3 | 48.0 | 46.0 | 49.3 | 52.3 | 48.9 | 47.7 | 49.3 | 43.7 | 47.7 | 46.3 | 51.0 | 47.6 |
| | Loc. Mean | 50.9 | 57.7 | 52.7 | 51.8 | 53.3 | 49.8 | 47.3 | 50.5 | 51.0 | 49.6 | 49.9 | 50.2 | 44.9 | 49.2 | 45.9 | 49.9 | 48.3 |
| | C.D. (5%) | 1.0 | 0.8 | 1.1 | 1.8 | 2.0 | 3.3 | 2.5 | 2.4 | 1.7 | 2.0 | 1.2 | 2.3 | 1.9 | 2.1 | 2.2 | 1.3 | 1.4 |
| | C.D. (1%) | 1.4 | 1.1 | 1.5 | 2.4 | 2.7 | 4.4 | 3.4 | 3.3 | 2.3 | 2.6 | 1.7 | 3.2 | 2.6 | 2.9 | 3.0 | 1.7 | 1.9 |
| | C.V. (%) | 1.1 | 0.9 | 1.3 | 2.0 | 2.7 | 3.8 | 3.1 | 2.8 | 2.0 | 2.7 | 1.4 | 2.7 | 2.5 | 2.5 | 2.8 | 1.5 | 2.5 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.15 | 0.00 | 0.17 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 |
| ----- | | | | | | | | | | | | | | | | | | |
| Sl No | PEDIGREE | Zone | | | | | Zone | | | | | OV'L | | | | | | OV'L |
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | UDAI | BANS | CHHI | Mean | Mean | Mean | Mean | UDHA | LUDH | GODH | Mean |
| 1 | FH-3478 | 51.7 | 46.7 | 46.0 | 51.7 | 47.7 | 48.0 | 48.6 | 48.3 | 49.3 | 49.3 | 49.0 | 49.6 | 54.0 | 44.3 | 47.7 | 48.7 | 48.7 |
| 2 | FH-3487 | 53.3 | 49.3 | 46.3 | 51.7 | 48.0 | 48.0 | 49.4 | 48.3 | 40.0 | 49.7 | 46.0 | 49.4 | 55.7 | 44.3 | 49.7 | 49.9 | 49.9 |
| 3 | FH-3488 | 53.3 | 48.0 | 47.3 | 50.7 | 46.3 | 47.7 | 48.9 | 48.7 | 42.3 | 50.7 | 47.2 | 49.7 | 56.3 | 45.3 | 49.0 | 50.2 | 50.2 |
| 4 | FH-3483 | 52.3 | 48.7 | 47.7 | 52.0 | 48.3 | 47.3 | 49.4 | 48.3 | 42.7 | 51.3 | 47.4 | 49.7 | 56.0 | 46.7 | 50.7 | 51.1 | 51.1 |
| 5 | FQH-76 | 50.7 | 49.3 | 46.3 | 50.3 | 45.7 | 47.0 | 48.2 | 46.3 | 41.0 | 49.3 | 45.6 | 48.4 | 55.3 | 44.7 | 47.0 | 49.0 | 49.0 |
| 6 | DH-177 | 51.7 | 49.7 | 47.3 | 51.7 | 49.0 | 47.7 | 49.5 | 47.7 | 40.7 | 50.3 | 46.2 | 49.7 | 56.0 | 45.7 | 48.3 | 50.0 | 50.0 |
| 7 | DH-179 | 51.7 | 51.0 | 46.3 | 49.7 | 45.7 | 48.0 | 48.7 | 46.7 | 40.7 | 50.3 | 45.9 | 48.8 | 55.0 | 45.3 | 47.3 | 49.2 | 49.2 |
| 8 | AH-97020 | 55.3 | 51.7 | 49.3 | 52.3 | 48.7 | 50.3 | 51.3 | 51.0 | 40.0 | 53.0 | 48.0 | 51.0 | 57.7 | 46.7 | 50.7 | 51.7 | 51.7 |
| 9 | AH-97024 | 55.3 | 52.7 | 52.0 | 51.3 | 49.0 | 49.7 | 51.7 | 51.3 | 40.3 | 50.7 | 47.4 | 51.4 | 58.0 | 46.3 | 52.0 | 52.1 | 52.1 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 50.7 | 49.3 | 46.0 | 47.0 | 45.7 | 47.0 | 47.6 | 45.7 | 41.3 | 48.0 | 45.0 | 47.8 | 55.7 | 45.0 | 47.0 | 49.2 | 49.2 |
| 11 | VIVEK HYBRID-9 | 48.7 | 48.7 | 46.0 | 47.3 | 46.3 | 47.0 | 47.3 | 45.7 | 41.0 | 47.7 | 44.8 | 48.0 | 53.7 | 45.0 | 47.7 | 48.8 | 48.8 |
| | Loc. Mean | 52.2 | 49.5 | 47.3 | 50.5 | 47.3 | 48.0 | 49.2 | 48.0 | 41.8 | 50.0 | 46.6 | 49.4 | 55.8 | 45.4 | 48.8 | 50.0 | 50.0 |
| | C.D. (5%) | 1.9 | 1.1 | 1.9 | 1.7 | 2.9 | 0.8 | 1.3 | 1.7 | 1.5 | 3.2 | 3.3 | 0.8 | 3.02 | 1.28 | 2.08 | 1.32 | 1.32 |
| | C.D. (1%) | 2.7 | 1.5 | 2.5 | 2.3 | 4.0 | 1.2 | 1.7 | 2.4 | 2.0 | 4.4 | 4.5 | 1.0 | | | | | |
| | C.V. (%) | 2.2 | 1.3 | 2.3 | 1.9 | 3.6 | 1.0 | 2.2 | 2.1 | 2.1 | 3.8 | 4.2 | 2.8 | 3.18 | 1.65 | 2.51 | 1.55 | 1.55 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.26 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 4 (Cont..)

DAYS TO 75% DRY HUSK

| S1 No | PEDIGREE | ALMO | BAJA | BARA | KANG | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | AMBI | Zone Mean |
|--------|----------------|------|-------|------|------|-----------|------|-----------|------|------|-----------|-----------|-----------|------|------|------|-----------|
| 1 | FH-3478 | 91.0 | 96.7 | 87.7 | 86.7 | 90.5 | 75.0 | 79.0 | 97.0 | 74.0 | 81.3 | 71.3 | 81.3 | 78.0 | 83.7 | 81.0 | 79.1 |
| 2 | FH-3487 | 97.7 | 101.3 | 89.7 | 89.7 | 94.6 | 75.3 | 80.0 | 99.3 | 74.0 | 82.2 | 71.0 | 84.3 | 78.7 | 83.3 | 84.7 | 80.4 |
| 3 | FH-3488 | 95.3 | 104.3 | 90.3 | 87.7 | 94.4 | 75.0 | 81.0 | 98.0 | 74.7 | 82.2 | 71.0 | 84.0 | 78.0 | 83.0 | 84.0 | 80.0 |
| 4 | FH-3483 | 94.3 | 101.3 | 89.7 | 85.0 | 92.6 | 79.7 | 79.0 | 98.7 | 75.7 | 83.2 | 70.0 | 84.3 | 79.0 | 83.3 | 81.3 | 79.6 |
| 5 | FQH-76 | 93.7 | 101.7 | 87.7 | 87.0 | 92.5 | 77.0 | 76.3 | 98.7 | 76.0 | 82.0 | 68.3 | 84.7 | 78.0 | 83.3 | 82.0 | 79.3 |
| 6 | DH-177 | 95.7 | 98.3 | 91.7 | 87.7 | 93.3 | 75.3 | 80.0 | 97.3 | 70.7 | 80.8 | 69.7 | 84.3 | 82.0 | 83.3 | 79.7 | 79.8 |
| 7 | DH-179 | 91.7 | 107.3 | 88.0 | 86.7 | 93.4 | 75.7 | 77.7 | 97.0 | 75.7 | 81.5 | 70.3 | 83.3 | 79.3 | 83.7 | 79.0 | 79.1 |
| 8 | AH-97020 | 95.3 | 101.3 | 94.7 | 84.7 | 94.0 | 85.7 | 81.0 | 97.3 | 75.0 | 84.8 | 70.3 | 85.0 | 81.0 | 84.3 | 81.3 | 80.4 |
| 9 | AH-97024 | 96.7 | 105.7 | 96.0 | 89.7 | 97.0 | 79.3 | 80.3 | 98.3 | 74.7 | 83.2 | 69.3 | 87.0 | 88.0 | 86.7 | 84.0 | 83.0 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 92.3 | 100.7 | 86.3 | 88.7 | 92.0 | 78.3 | 76.0 | 97.0 | 78.0 | 82.3 | 69.7 | 85.3 | 79.7 | 82.7 | 78.3 | 79.1 |
| 11 | VIVEK HYBRID-9 | 97.0 | 101.0 | 87.3 | 89.7 | 93.8 | 81.7 | 77.3 | 98.3 | 75.0 | 83.1 | 68.3 | 87.3 | 80.0 | 84.0 | 82.0 | 80.3 |
| | Loc. Mean | 94.6 | 101.8 | 89.9 | 87.5 | 93.5 | 78.0 | 78.9 | 97.9 | 74.8 | 82.4 | 69.9 | 84.6 | 80.2 | 83.8 | 81.6 | 80.0 |
| | C.D. (5%) | 2.9 | 5.5 | 1.5 | 1.3 | 3.3 | 3.9 | 2.8 | 2.5 | 2.5 | 3.1 | 1.2 | 2.1 | 1.9 | 2.7 | 0.8 | 2.1 |
| | C.D. (1%) | 4.0 | 7.5 | 2.1 | 1.8 | 4.5 | 5.3 | 3.8 | 3.4 | 3.5 | 4.2 | 1.7 | 2.9 | 2.6 | 3.6 | 1.1 | 2.9 |
| | C.V. (%) | 1.8 | 3.2 | 1.0 | 0.9 | 2.5 | 2.9 | 2.1 | 1.5 | 2.0 | 2.6 | 1.0 | 1.5 | 1.4 | 1.9 | 0.6 | 2.1 |
| | F (Prob.) | 0.00 | 0.03 | 0.00 | 0.00 | 0.06 | 0.00 | 0.01 | 0.53 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.04 |
| ----- | | | | | | | | | | | | | | | | | |
| S1 No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
| 1 | FH-3478 | 81.3 | 82.0 | 70.0 | 81.0 | 86.7 | 88.0 | 81.5 | 81.0 | 82.0 | 79.7 | 80.9 | 82.5 | 89.5 | 75.7 | 74.3 | 79.8 |
| 2 | FH-3487 | 82.0 | 84.3 | 73.7 | 79.7 | 90.0 | 88.0 | 82.9 | 81.3 | 72.7 | 80.7 | 78.2 | 83.7 | 90.3 | 75.3 | 77.3 | 81.0 |
| 3 | FH-3488 | 80.7 | 82.3 | 69.3 | 78.7 | 87.0 | 86.0 | 80.7 | 82.0 | 76.3 | 80.3 | 79.6 | 83.1 | 90.7 | 76.3 | 75.7 | 80.9 |
| 4 | FH-3483 | 83.0 | 81.7 | 72.7 | 79.7 | 89.7 | 87.7 | 82.4 | 82.0 | 75.0 | 82.0 | 79.7 | 83.4 | 89.7 | 77.0 | 77.0 | 81.2 |
| 5 | FQH-76 | 82.3 | 82.3 | 72.0 | 78.3 | 88.7 | 86.0 | 81.6 | 79.7 | 74.3 | 80.3 | 78.1 | 82.7 | 90.7 | 76.0 | 72.7 | 79.8 |
| 6 | DH-177 | 81.0 | 83.0 | 69.3 | 79.7 | 89.0 | 86.0 | 81.3 | 81.3 | 73.0 | 79.3 | 77.9 | 82.6 | 91.7 | 76.7 | 75.3 | 81.2 |
| 7 | DH-179 | 81.0 | 85.0 | 71.7 | 77.7 | 89.0 | 88.0 | 82.1 | 79.3 | 73.3 | 78.0 | 76.9 | 82.7 | 90.7 | 76.0 | 74.0 | 80.2 |
| 8 | AH-97020 | 82.0 | 84.7 | 70.0 | 80.3 | 87.0 | 90.0 | 82.3 | 83.7 | 74.0 | 81.7 | 79.8 | 84.1 | 89.7 | 76.3 | 78.0 | 81.3 |
| 9 | AH-97024 | 82.0 | 84.3 | 71.3 | 79.0 | 89.7 | 90.0 | 82.7 | 84.3 | 72.7 | 81.0 | 79.3 | 85.0 | 92.3 | 76.3 | 78.7 | 82.4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 81.7 | 82.3 | 68.7 | 75.0 | 86.7 | 86.0 | 80.1 | 78.7 | 74.3 | 78.3 | 77.1 | 82.0 | 91.0 | 76.3 | 74.0 | 80.4 |
| 11 | VIVEK HYBRID-9 | 80.7 | 82.3 | 69.0 | 75.3 | 90.7 | 86.0 | 80.7 | 78.7 | 73.7 | 83.3 | 78.6 | 83.1 | 91.3 | 75.7 | 74.3 | 80.4 |
| | Loc. Mean | 81.6 | 83.1 | 70.7 | 78.6 | 88.5 | 87.4 | 81.7 | 81.1 | 74.7 | 80.4 | 78.7 | 83.2 | 90.7 | 76.2 | 75.6 | 80.8 |
| | C.D. (5%) | 2.5 | 1.0 | 3.1 | 1.7 | 2.9 | 0.3 | 1.5 | 2.2 | 2.0 | 0.8 | 3.5 | 1.1 | 1.13 | 1.59 | 1.92 | 2.06 |
| | C.D. (1%) | 3.4 | 1.4 | 4.3 | 2.3 | 3.9 | 0.4 | 1.9 | 2.9 | 2.7 | 1.1 | 4.8 | 1.5 | | | | |
| | C.V. (%) | 1.8 | 0.7 | 2.6 | 1.3 | 1.9 | 0.2 | 1.5 | 1.6 | 1.5 | 0.6 | 2.6 | 2.3 | 0.73 | 1.23 | 1.49 | 1.50 |
| | F (Prob.) | 0.64 | 0.00 | 0.04 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.64 | 0.00 | 0.34 |

TABLE No. 4 (Cont..)

MOISTURE % AT HARVEST

| S1 No | PEDIGREE | ALMO | BAJA | BARA | KANG | Zone Mean | DELH | KARN | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | Zone Mean |
|--------|----------------|------|------|------|------|-----------|------|-----------|------|------|-----------|-----------|-----------|------|------|------|-----------|
| 1 | FH-3478 | 33.0 | 21.9 | 22.3 | 25.0 | 25.5 | 32.0 | 20.0 | 26.9 | 26.0 | 26.2 | 19.9 | 18.5 | 15.2 | 24.1 | 22.1 | 19.9 |
| 2 | FH-3487 | 36.7 | 21.8 | 23.3 | 26.2 | 27.0 | 27.2 | 24.0 | 30.1 | 34.5 | 28.9 | 20.2 | 17.7 | 15.7 | 23.3 | 22.0 | 19.8 |
| 3 | FH-3488 | 34.4 | 22.7 | 22.3 | 25.5 | 26.2 | 22.0 | 22.3 | 31.7 | 26.0 | 25.5 | 21.2 | 17.8 | 16.2 | 23.3 | 21.7 | 20.0 |
| 4 | FH-3483 | 33.4 | 22.9 | 23.3 | 25.0 | 26.1 | 32.9 | 20.7 | 32.4 | 35.0 | 30.2 | 20.7 | 19.9 | 16.1 | 25.6 | 20.4 | 20.5 |
| 5 | FQH-76 | 25.2 | 22.0 | 22.7 | 24.6 | 23.6 | 33.8 | 20.0 | 30.3 | 35.5 | 29.9 | 19.9 | 16.7 | 15.1 | 25.7 | 21.6 | 19.8 |
| 6 | DH-177 | 33.1 | 21.0 | 23.3 | 24.3 | 25.4 | 32.3 | 20.5 | 32.4 | 33.5 | 29.7 | 17.9 | 17.5 | 16.3 | 26.5 | 21.8 | 20.0 |
| 7 | DH-179 | 28.2 | 20.8 | 22.0 | 25.1 | 24.0 | 25.6 | 23.7 | 27.7 | 35.0 | 28.0 | 19.2 | 17.0 | 15.1 | 22.5 | 20.9 | 18.9 |
| 8 | AH-97020 | 33.0 | 22.6 | 23.0 | 24.6 | 25.8 | 35.9 | 20.4 | 31.2 | 34.0 | 30.4 | 20.1 | 20.1 | 16.0 | 25.3 | 19.7 | 20.2 |
| 9 | AH-97024 | 30.6 | 23.1 | 23.3 | 25.4 | 25.6 | 29.1 | 20.4 | 28.0 | 38.0 | 28.9 | 19.0 | 17.7 | 17.0 | 26.7 | 21.3 | 20.3 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 29.2 | 22.6 | 22.0 | 24.8 | 24.6 | 33.7 | 20.5 | 31.5 | 38.0 | 30.9 | 18.3 | 16.4 | 15.1 | 24.1 | 21.7 | 19.1 |
| 11 | VIVEK HYBRID-9 | 32.5 | 24.6 | 22.0 | 25.2 | 26.1 | 37.6 | 21.5 | 35.8 | 37.0 | 33.0 | 19.5 | 16.8 | 15.3 | 24.4 | 19.8 | 19.1 |
| | Loc. Mean | 31.8 | 22.3 | 22.7 | 25.1 | 25.5 | 31.1 | 21.3 | 30.7 | 33.9 | 29.2 | 19.6 | 17.8 | 15.7 | 24.7 | 21.2 | 19.8 |
| | C.D. (5%) | 2.1 | 1.7 | 2.1 | 1.2 | 2.4 | 5.8 | 0.0 | 4.7 | 7.8 | 4.6 | 0.8 | - | - | 0.7 | 1.5 | 1.3 |
| | C.D. (1%) | 2.8 | 2.4 | 2.9 | 1.6 | 3.2 | 7.9 | 0.0 | 6.4 | 10.6 | 6.1 | 1.1 | - | - | 1.0 | 2.1 | 1.7 |
| | C.V. (%) | 3.8 | 4.6 | 5.5 | 2.7 | 6.4 | 11.0 | 0.0 | 9.0 | 13.5 | 10.8 | 2.5 | - | - | 1.7 | 4.2 | 5.1 |
| | F (Prob.) | 0.00 | 0.01 | 0.75 | 0.14 | 0.19 | 0.00 | 0.00 | 0.04 | 0.04 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.23 |
| S1 No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | UDHA | LUDH | GODH | OV'L Mean |
| 1 | FH-3478 | 17.6 | 20.5 | 11.7 | 13.2 | 16.0 | 17.0 | 16.0 | 20.5 | 15.1 | 12.2 | 15.9 | 20.5 | 28.3 | 23.9 | 12.4 | 21.5 |
| 2 | FH-3487 | 26.6 | 25.1 | 12.7 | 13.7 | 17.4 | 18.4 | 18.9 | 19.0 | 15.2 | 12.2 | 15.5 | 21.9 | 29.2 | 26.0 | 15.9 | 23.7 |
| 3 | FH-3488 | 14.4 | 20.0 | 12.7 | 13.1 | 16.5 | 19.6 | 16.0 | 14.6 | 15.2 | 11.0 | 13.6 | 20.2 | 26.0 | 23.9 | 13.4 | 21.1 |
| 4 | FH-3483 | 33.8 | 25.1 | 12.3 | 13.2 | 17.3 | 20.1 | 20.3 | 20.8 | 15.7 | 13.6 | 16.7 | 22.7 | 28.6 | 29.4 | 20.3 | 26.1 |
| 5 | FQH-76 | 18.9 | 19.9 | 14.0 | 14.0 | 16.3 | 16.4 | 16.6 | 17.1 | 14.8 | 11.0 | 14.3 | 20.7 | 27.1 | 26.5 | 19.5 | 24.4 |
| 6 | DH-177 | 26.1 | 23.7 | 14.7 | 14.0 | 16.1 | 16.6 | 18.5 | 19.8 | 16.1 | 12.3 | 16.0 | 21.8 | 26.5 | 26.7 | 17.3 | 23.5 |
| 7 | DH-179 | 17.8 | 20.7 | 12.3 | 13.7 | 16.5 | 17.3 | 16.4 | 20.3 | 15.8 | 11.9 | 16.0 | 20.4 | 27.8 | 23.8 | 21.2 | 24.3 |
| 8 | AH-97020 | 25.7 | 26.6 | 13.3 | 14.7 | 16.5 | 17.3 | 19.0 | 21.7 | 15.4 | 11.8 | 16.3 | 22.2 | 24.9 | 27.7 | 18.5 | 23.7 |
| 9 | AH-97024 | 27.4 | 23.0 | 12.7 | 14.2 | 15.8 | 19.1 | 18.7 | 21.5 | 15.3 | 11.6 | 16.1 | 21.8 | 27.3 | 29.4 | 20.5 | 25.7 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 18.4 | 22.6 | 12.0 | 13.8 | 16.2 | 17.7 | 16.8 | 19.5 | 15.0 | 11.6 | 15.4 | 21.1 | 27.5 | 25.8 | 14.9 | 22.7 |
| 11 | VIVEK HYBRID-9 | 24.6 | 21.8 | 13.7 | 12.7 | 16.5 | 17.4 | 17.7 | 16.5 | 15.2 | 11.7 | 14.5 | 21.9 | 26.5 | 25.4 | 25.4 | 25.8 |
| | Loc. Mean | 22.8 | 22.6 | 12.9 | 13.6 | 16.4 | 17.9 | 17.7 | 19.2 | 15.3 | 11.9 | 15.5 | 21.4 | 27.2 | 26.2 | 18.1 | 23.9 |
| | C.D. (5%) | 4.6 | 1.1 | 2.0 | 0.6 | 0.8 | 0.4 | 2.8 | 3.8 | 0.4 | 0.9 | 2.0 | 1.3 | 1.86 | 1.25 | - | 4.18 |
| | C.D. (1%) | 6.3 | 1.4 | 2.7 | 0.8 | 1.1 | 0.6 | 3.7 | 5.2 | 0.6 | 1.3 | 2.8 | 1.7 | - | - | - | - |
| | C.V. (%) | 11.9 | 2.7 | 8.9 | 2.4 | 2.8 | 1.3 | 13.6 | 11.8 | 1.7 | 4.6 | 7.8 | 10.0 | 4.01 | 2.80 | - | 10.3 |
| | F (Prob.) | 0.00 | 0.00 | 0.11 | 0.00 | 0.01 | 0.00 | 0.03 | 0.02 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | - | 0.27 |

TABLE No. 4 (Cont..)

PLANT HEIGHT (cm)

| Sl No | PEDIGREE | Zone | | | | | | | | | | Zone | | | | | | |
|--------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ALMO | BAJA | BARA | KANG | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean |
| 1 | FH-3478 | 205 | 105 | 166 | 221 | 174 | 133 | 117 | 192 | 192 | 158 | 157 | 127 | 119 | 158 | 163 | 221 | 157 |
| 2 | FH-3487 | 210 | 118 | 176 | 225 | 183 | 137 | 130 | 190 | 175 | 158 | 177 | 142 | 126 | 153 | 172 | 212 | 164 |
| 3 | FH-3488 | 213 | 120 | 172 | 231 | 184 | 140 | 125 | 195 | 199 | 165 | 173 | 144 | 122 | 180 | 168 | 211 | 166 |
| 4 | FH-3483 | 214 | 125 | 178 | 221 | 185 | 141 | 132 | 210 | 185 | 167 | 148 | 138 | 123 | 165 | 164 | 221 | 160 |
| 5 | FQH-76 | 230 | 128 | 188 | 224 | 192 | 169 | 152 | 237 | 205 | 191 | 186 | 167 | 135 | 180 | 179 | 206 | 175 |
| 6 | DH-177 | 236 | 127 | 183 | 238 | 196 | 167 | 148 | 210 | 198 | 181 | 182 | 168 | 134 | 180 | 180 | 206 | 175 |
| 7 | DH-179 | 233 | 123 | 182 | 228 | 192 | 165 | 150 | 220 | 197 | 183 | 177 | 168 | 133 | 185 | 168 | 207 | 173 |
| 8 | AH-97020 | 229 | 140 | 205 | 216 | 198 | 188 | 166 | 247 | 194 | 199 | 196 | 163 | 137 | 195 | 191 | 202 | 181 |
| 9 | AH-97024 | 231 | 135 | 194 | 216 | 194 | 167 | 142 | 243 | 198 | 188 | 199 | 165 | 147 | 195 | 186 | 229 | 187 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 223 | 135 | 200 | 218 | 194 | 163 | 154 | 233 | 202 | 188 | 194 | 168 | 132 | 195 | 182 | 211 | 180 |
| 11 | VIVEK HYBRID-9 | 217 | 133 | 192 | 225 | 192 | 166 | 138 | 203 | 191 | 175 | 177 | 168 | 129 | 188 | 181 | 203 | 174 |
| | Loc. Mean | 222 | 126 | 185 | 224 | 189 | 158 | 141 | 216 | 194 | 177 | 179 | 156 | 131 | 179 | 176 | 212 | 172 |
| | C.D. (5%) | 13 | 19 | 14 | 12 | 12 | 15 | 10 | 22 | 11 | 13 | 11 | 13 | 7 | 7 | 17 | 14 | 11 |
| | C.V. (%) | 3.4 | 8.9 | 4.4 | 3.1 | 4.3 | 5.7 | 4.2 | 5.9 | 3.4 | 5.2 | 3.5 | 4.9 | 3.1 | 2.4 | 5.7 | 3.9 | 5.3 |
| | F (Prob.) | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sl No | PEDIGREE | Zone | | | | | | | Zone | | | | OV'L | | | OV'L | | |
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | UDHA | LUDH | GODH | Mean | |
| 1 | FH-3478 | 130 | 182 | 165 | 190 | 163 | 149 | 163 | 180 | 128 | 156 | 155 | 162 | 158 | 147 | 160 | 155 | |
| 2 | FH-3487 | 123 | 195 | 179 | 193 | 167 | 172 | 171 | 165 | 125 | 170 | 153 | 167 | 154 | 150 | 122 | 142 | |
| 3 | FH-3488 | 123 | 203 | 181 | 193 | 167 | 155 | 170 | 185 | 125 | 165 | 158 | 169 | 157 | 158 | 163 | 159 | |
| 4 | FH-3483 | 122 | 192 | 177 | 178 | 155 | 154 | 163 | 172 | 148 | 157 | 159 | 166 | 169 | 163 | 138 | 157 | |
| 5 | FQH-76 | 121 | 212 | 205 | 198 | 160 | 175 | 179 | 197 | 160 | 192 | 183 | 183 | 161 | 200 | 143 | 168 | |
| 6 | DH-177 | 118 | 209 | 186 | 192 | 167 | 173 | 174 | 185 | 156 | 193 | 178 | 180 | 176 | 180 | 131 | 162 | |
| 7 | DH-179 | 125 | 213 | 184 | 192 | 153 | 175 | 174 | 190 | 124 | 182 | 165 | 177 | 167 | 183 | 149 | 167 | |
| 8 | AH-97020 | 116 | 203 | 206 | 207 | 153 | 171 | 176 | 220 | 164 | 186 | 190 | 187 | 172 | 202 | 139 | 171 | |
| 9 | AH-97024 | 118 | 214 | 202 | 205 | 165 | 172 | 179 | 210 | 172 | 189 | 190 | 187 | 177 | 188 | 147 | 171 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 128 | 233 | 176 | 213 | 147 | 174 | 179 | 177 | 170 | 182 | 176 | 183 | 172 | 180 | 149 | 167 | |
| 11 | VIVEK HYBRID-9 | 120 | 232 | 189 | 188 | 168 | 177 | 179 | 192 | 160 | 183 | 178 | 179 | 164 | 187 | 140 | 164 | |
| | Loc. Mean | 122 | 208 | 186 | 195 | 160 | 168 | 173 | 188 | 148 | 178 | 171 | 176 | 166 | 176 | 144 | 162 | |
| | C.D. (5%) | 10 | 14 | 8 | 9 | 42 | 7 | 11 | 13 | 5 | 15 | 19 | 6 | 27.3 | 17.2 | 24.3 | 22.5 | |
| | C.V. (%) | 4.6 | 3.9 | 2.5 | 2.7 | 15.2 | 2.3 | 5.6 | 4.0 | 1.9 | 5.1 | 6.4 | 5.5 | 9.7 | 5.7 | 9.9 | 8.2 | |
| | F (Prob.) | 0.1 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.1 | 0.3 | |

TABLE No. 4 (Cont..)

EAR HEIGHT (cm)

| Sl No | PEDIGREE | Zone | | | | | | | | | | Zone | | OV'L Mean | | | | |
|--------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|
| | | ALMO | BAJA | BARA | KANG | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | DHOL | | JASH | VARA | RANC | AMBI |
| 1 | FH-3478 | 103 | 35 | 69 | 89 | 74 | 67 | 60 | 83 | 78 | 72 | 81 | 52 | 45 | 80 | 72 | 71 | 67 |
| 2 | FH-3487 | 104 | 47 | 67 | 89 | 77 | 58 | 57 | 78 | 83 | 69 | 92 | 57 | 41 | 60 | 75 | 69 | 66 |
| 3 | FH-3488 | 104 | 52 | 72 | 82 | 77 | 64 | 66 | 78 | 88 | 74 | 79 | 62 | 44 | 80 | 73 | 89 | 71 |
| 4 | FH-3483 | 115 | 60 | 84 | 97 | 89 | 76 | 68 | 92 | 81 | 79 | 77 | 62 | 52 | 85 | 81 | 78 | 73 |
| 5 | FQH-76 | 114 | 68 | 83 | 88 | 89 | 85 | 68 | 87 | 102 | 85 | 88 | 75 | 49 | 70 | 77 | 89 | 75 |
| 6 | DH-177 | 120 | 78 | 83 | 88 | 92 | 87 | 72 | 88 | 78 | 82 | 84 | 73 | 55 | 80 | 76 | 79 | 75 |
| 7 | DH-179 | 122 | 60 | 86 | 84 | 88 | 93 | 68 | 100 | 86 | 87 | 81 | 86 | 47 | 88 | 76 | 87 | 78 |
| 8 | AH-97020 | 124 | 77 | 117 | 98 | 104 | 103 | 82 | 112 | 77 | 93 | 97 | 88 | 58 | 118 | 96 | 83 | 90 |
| 9 | AH-97024 | 120 | 63 | 102 | 88 | 93 | 90 | 82 | 127 | 106 | 101 | 90 | 92 | 64 | 103 | 99 | 85 | 89 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 111 | 55 | 92 | 96 | 89 | 74 | 77 | 87 | 81 | 80 | 101 | 77 | 49 | 80 | 77 | 76 | 77 |
| 11 | VIVEK HYBRID-9 | 109 | 47 | 81 | 95 | 83 | 76 | 59 | 73 | 75 | 71 | 81 | 71 | 45 | 63 | 71 | 66 | 66 |
| | Loc. Mean | 113 | 58 | 85 | 90 | 87 | 79 | 69 | 91 | 85 | 81 | 86 | 72 | 50 | 82 | 80 | 79 | 75 |
| | C.D. (5%) | 9.0 | 14.0 | 11.0 | 7.0 | 11.0 | 10.0 | 11.0 | 17.0 | 10.0 | 12.0 | 23.0 | 16.0 | 4.0 | 8.0 | 12.0 | 6.0 | 9.0 |
| | C.V. (%) | 4.8 | 14.2 | 7.5 | 4.3 | 8.9 | 7.7 | 9.2 | 11.2 | 7.0 | 10.4 | 15.8 | 13.3 | 4.6 | 5.8 | 9.2 | 4.3 | 10.4 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sl No | PEDIGREE | Zone | | | | | | | | | | Zone | | OV'L Mean | | | | |
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | | UDHA | LUDH | GODH | Mean |
| 1 | FH-3478 | 70 | 75 | 77 | 93 | 63 | 76 | 76 | 80 | 45 | 72 | 66 | 71 | 64 | 68 | 65 | 66 | |
| 2 | FH-3487 | 64 | 75 | 59 | 105 | 63 | 90 | 76 | 75 | 48 | 68 | 64 | 71 | 66 | 63 | 70 | 66 | |
| 3 | FH-3488 | 67 | 68 | 67 | 103 | 60 | 86 | 75 | 90 | 53 | 71 | 71 | 74 | 62 | 80 | 67 | 70 | |
| 4 | FH-3483 | 65 | 73 | 75 | 97 | 75 | 92 | 80 | 82 | 56 | 73 | 70 | 78 | 77 | 83 | 69 | 76 | |
| 5 | FQH-76 | 65 | 80 | 67 | 125 | 76 | 93 | 84 | 95 | 64 | 81 | 80 | 82 | 67 | 87 | 69 | 74 | |
| 6 | DH-177 | 65 | 74 | 72 | 103 | 60 | 96 | 78 | 87 | 46 | 93 | 75 | 80 | 81 | 78 | 67 | 76 | |
| 7 | DH-179 | 70 | 93 | 73 | 97 | 66 | 101 | 83 | 88 | 51 | 94 | 78 | 82 | 72 | 93 | 67 | 77 | |
| 8 | AH-97020 | 63 | 88 | 68 | 110 | 72 | 101 | 84 | 110 | 85 | 93 | 96 | 92 | 69 | 113 | 67 | 83 | |
| 9 | AH-97024 | 70 | 95 | 68 | 105 | 59 | 108 | 84 | 98 | 79 | 95 | 91 | 91 | 72 | 103 | 65 | 80 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 72 | 85 | 68 | 105 | 66 | 86 | 80 | 77 | 68 | 72 | 72 | 80 | 75 | 87 | 68 | 77 | |
| 11 | VIVEK HYBRID-9 | 62 | 85 | 72 | 82 | 65 | 92 | 76 | 83 | 57 | 70 | 70 | 73 | 65 | 95 | 63 | 74 | |
| | Loc. Mean | 66 | 81 | 70 | 102 | 66 | 93 | 80 | 88 | 59 | 80 | 76 | 79 | 70 | 87 | 67 | 74 | |
| | C.D. (5%) | 6.0 | 14.0 | 5.0 | 29.0 | 18.0 | 4.0 | 8.0 | 8.0 | 5.0 | 3.0 | 13.0 | 5.0 | 13.6 | 18.3 | 11.5 | 15.5 | |
| | C.V. (%) | 5.1 | 10.0 | 4.3 | 16.9 | 16.4 | 2.6 | 9.1 | 5.5 | 4.7 | 2.2 | 9.9 | 9.8 | 11.4 | 12.4 | 10.0 | 12.2 | |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.4 | 0.6 | 0.0 | 0.2 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.1 | 0.0 | 1.0 | 0.4 | |

TABLE No. 4 (Cont..)

GRAIN SHELLING %

| S1 No | PEDIGREE | ALMO | BAJA | BARA | KANG | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | |
|----------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | JASH | VARA | RANC | AMBI | Mean | |
| 1 | FH-3478 | 85.4 | 79.3 | 79.7 | 84.0 | 82.1 | 83.2 | 80.6 | 86.4 | 80.0 | 82.5 | 79.1 | 79.5 | 75.3 | 87.3 | 81.9 | 80.6 |
| 2 | FH-3487 | 85.2 | 79.7 | 79.0 | 82.5 | 81.6 | 78.8 | 82.8 | 86.7 | 80.0 | 82.1 | 80.1 | 78.2 | 76.3 | 86.7 | 83.3 | 80.9 |
| 3 | FH-3488 | 82.4 | 79.1 | 76.0 | 82.0 | 79.9 | 75.3 | 82.2 | 83.5 | 80.0 | 80.2 | 80.4 | 76.4 | 76.8 | 85.4 | 81.2 | 80.0 |
| 4 | FH-3483 | 85.5 | 80.0 | 80.7 | 81.5 | 81.9 | 85.0 | 82.2 | 85.6 | 80.0 | 83.2 | 76.0 | 78.0 | 75.8 | 88.8 | 83.8 | 80.5 |
| 5 | FQH-76 | 85.5 | 82.2 | 82.0 | 81.5 | 82.8 | 82.8 | 86.1 | 86.7 | 80.0 | 83.9 | 72.3 | 78.8 | 76.3 | 86.6 | 85.4 | 79.9 |
| 6 | DH-177 | 87.0 | 78.4 | 77.3 | 80.5 | 80.8 | 84.8 | 79.4 | 88.4 | 80.0 | 83.1 | 71.6 | 77.2 | 75.5 | 83.5 | 82.7 | 78.1 |
| 7 | DH-179 | 86.1 | 80.7 | 75.3 | 83.5 | 81.4 | 83.2 | 80.0 | 88.0 | 80.0 | 82.8 | 76.4 | 78.7 | 76.5 | 81.7 | 83.9 | 79.4 |
| 8 | AH-97020 | 87.5 | 81.8 | 79.0 | 82.5 | 82.7 | 82.5 | 80.3 | 84.4 | 80.0 | 81.8 | 77.2 | 78.2 | 76.8 | 82.9 | 83.5 | 79.7 |
| 9 | AH-97024 | 86.2 | 78.6 | 78.0 | 83.5 | 81.6 | 80.7 | 73.5 | 85.3 | 80.0 | 79.9 | 76.0 | 78.3 | 75.8 | 86.6 | 81.2 | 79.6 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 86.9 | 80.2 | 76.3 | 82.0 | 81.3 | 83.7 | 81.4 | 88.0 | 80.0 | 83.3 | 79.1 | 78.2 | 76.3 | 88.9 | 82.8 | 81.0 |
| 11 | VIVEK HYBRID-9 | 86.3 | 78.1 | 79.3 | 81.0 | 81.2 | 85.0 | 82.4 | 88.0 | 80.0 | 83.9 | 76.4 | 77.5 | 75.0 | 86.3 | 81.6 | 79.4 |
| | Loc. Mean | 85.8 | 79.8 | 78.4 | 82.2 | 81.6 | 82.3 | 81.0 | 86.5 | 80.0 | 82.4 | 76.8 | 78.1 | 76.0 | 85.9 | 82.8 | 79.9 |
| | C.D. (5%) | 0.86 | 0.00 | 5.90 | 1.67 | 2.09 | 3.67 | - | 0.00 | - | 3.08 | 2.35 | - | 1.17 | 3.21 | 3.12 | 2.30 |
| | C.V. (%) | 0.59 | 0.00 | 4.42 | 1.19 | 1.77 | 2.62 | - | 0.00 | - | 2.59 | 1.79 | - | 0.90 | 2.20 | 2.21 | 2.25 |
| | F (Prob.) | 0.00 | 0.00 | 0.44 | 0.01 | 0.27 | 0.00 | - | 0.00 | - | 0.16 | 0.00 | 0.00 | 0.06 | 0.00 | 0.20 | 0.39 |
| ----- | | | | | | | | | | | | | | | | | |
| S1 No | PEDIGREE | ARBH | HYDE | KARI | KOLH | MAND | COIM | ZN 4 | | | ZN 5 | | OV'L | UDHA | LUDH | GODH | OV'L |
| | | | | | | | | Mean | UDAI | BANS | CHHI | Mean | Mean | | | | Mean |
| 1 | FH-3478 | 79.4 | 80.0 | 80.0 | 80.9 | 72.6 | 85.1 | 79.7 | 83.0 | 69.3 | 89.7 | 80.7 | 81.0 | 84.6 | 87.0 | 79.4 | 83.6 |
| 2 | FH-3487 | 81.3 | 79.8 | 76.7 | 79.0 | 71.9 | 82.1 | 78.5 | 82.5 | 74.3 | 81.0 | 79.2 | 80.3 | 84.1 | 85.7 | 79.3 | 83.0 |
| 3 | FH-3488 | 75.7 | 79.6 | 80.3 | 80.8 | 67.1 | 78.3 | 77.0 | 82.0 | 69.7 | 85.9 | 79.2 | 79.1 | 84.1 | 86.0 | 75.4 | 81.8 |
| 4 | FH-3483 | 84.8 | 80.4 | 79.0 | 81.9 | 75.7 | 82.3 | 80.7 | 82.2 | 69.3 | 88.2 | 79.9 | 81.2 | 83.8 | 84.9 | 79.1 | 82.6 |
| 5 | FQH-76 | 84.1 | 79.1 | 76.0 | 84.7 | 78.8 | 83.1 | 80.9 | 82.5 | 73.2 | 86.8 | 80.8 | 81.6 | 83.1 | 84.1 | 80.0 | 82.4 |
| 6 | DH-177 | 81.3 | 79.7 | 78.7 | 81.4 | 81.1 | 82.4 | 80.8 | 82.4 | 64.4 | 80.6 | 75.8 | 79.9 | 84.2 | 86.1 | 80.9 | 83.7 |
| 7 | DH-179 | 86.6 | 80.9 | 81.0 | 85.7 | 86.6 | 82.1 | 83.8 | 83.3 | 71.3 | 88.0 | 80.8 | 81.8 | 83.9 | 86.0 | 80.2 | 83.4 |
| 8 | AH-97020 | 81.5 | 79.1 | 81.7 | 82.1 | 69.9 | 78.4 | 78.8 | 83.4 | 77.8 | 86.4 | 82.5 | 80.8 | 82.9 | 84.5 | 78.3 | 81.9 |
| 9 | AH-97024 | 79.4 | 78.9 | 78.0 | 83.4 | 70.0 | 81.9 | 78.6 | 83.7 | 68.5 | 86.0 | 79.4 | 79.7 | 84.6 | 83.7 | 79.4 | 82.6 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 84.5 | 76.5 | 81.3 | 83.5 | 81.6 | 81.2 | 81.4 | 84.1 | 73.3 | 88.7 | 82.1 | 81.7 | 85.3 | 85.0 | 80.2 | 83.5 |
| 11 | VIVEK HYBRID-9 | 84.0 | 77.6 | 78.0 | 84.7 | 81.7 | 82.2 | 81.4 | 83.0 | 68.4 | 87.3 | 79.6 | 81.1 | 84.5 | 83.6 | 78.7 | 82.2 |
| | Loc. Mean | 82.0 | 79.2 | 79.2 | 82.6 | 76.1 | 81.7 | 80.1 | 82.9 | 70.9 | 86.2 | 80.0 | 80.7 | 84.1 | 85.1 | 79.2 | 82.8 |
| | C.D. (5%) | 2.24 | 3.15 | 7.27 | 0.91 | 1.50 | 0.85 | 3.30 | 1.44 | 2.53 | 1.07 | 4.28 | 1.38 | 2.3 | 1.0 | - | 1.9 |
| | C.V. (%) | 1.60 | 2.33 | 5.39 | 0.65 | 1.16 | 0.61 | 3.56 | 1.02 | 2.10 | 0.73 | 3.14 | 2.88 | 1.61 | 0.65 | - | 1.31 |
| | F (Prob.) | 0.00 | 0.27 | 0.81 | 0.00 | 0.00 | 0.00 | 0.01 | 0.12 | 0.00 | 0.00 | 0.21 | 0.00 | 0.69 | 0.00 | 0.00 | 0.35 |

TABLE No. 4 (Cont..)

STAND AT HARVEST ('000/ha)

| Sl No | PEDIGREE | Zone | | | | | | | | Zone | | | | | | | | Zone Mean |
|----------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|------|--------------|
| | | ALMO | BAJA | BARA | KANG | Mean | DELH | KARN | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | |
| 1 | FH-3478 | 67 | 82 | 58 | 68 | 69 | 55 | 54 | 61 | 86 | 64 | 69 | 55 | 57 | 82 | 52 | 78 | 65 |
| 2 | FH-3487 | 67 | 81 | 55 | 68 | 68 | 63 | 49 | 59 | 85 | 64 | 69 | 54 | 57 | 75 | 58 | 83 | 66 |
| 3 | FH-3488 | 66 | 84 | 53 | 70 | 68 | 64 | 49 | 61 | 86 | 65 | 70 | 52 | 56 | 79 | 58 | 78 | 65 |
| 4 | FH-3483 | 62 | 74 | 53 | 67 | 64 | 63 | 51 | 54 | 87 | 64 | 67 | 52 | 58 | 76 | 57 | 65 | 62 |
| 5 | FQH-76 | 63 | 75 | 54 | 69 | 65 | 63 | 52 | 57 | 92 | 66 | 69 | 54 | 53 | 74 | 55 | 80 | 64 |
| 6 | DH-177 | 62 | 78 | 53 | 67 | 65 | 61 | 53 | 59 | 92 | 66 | 69 | 53 | 52 | 73 | 52 | 82 | 63 |
| 7 | DH-179 | 63 | 75 | 57 | 71 | 66 | 57 | 49 | 63 | 92 | 65 | 70 | 55 | 56 | 82 | 51 | 81 | 66 |
| 8 | AH-97020 | 67 | 77 | 55 | 67 | 66 | 65 | 52 | 58 | 89 | 66 | 67 | 51 | 55 | 79 | 52 | 74 | 63 |
| 9 | AH-97024 | 65 | 73 | 55 | 67 | 65 | 52 | 48 | 58 | 88 | 62 | 68 | 51 | 56 | 77 | 48 | 69 | 62 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 63 | 81 | 56 | 68 | 67 | 54 | 47 | 63 | 87 | 63 | 74 | 54 | 53 | 74 | 54 | 78 | 64 |
| 11 | VIVEK HYBRID-9 | 56 | 67 | 54 | 69 | 61 | 46 | 49 | 47 | 88 | 58 | 69 | 31 | 50 | 74 | 39 | 32 | 49 |
| | Loc. Mean | 64 | 77 | 55 | 68 | 66 | 58 | 50 | 58 | 88 | 64 | 69 | 51 | 55 | 77 | 52 | 73 | 63 |
| | C.D. (5%) | 6.1 | 9.6 | 4.9 | 6.5 | 3.8 | 13.2 | 4.6 | 4.7 | 9.5 | 5.5 | 5.6 | 5.7 | 5.4 | 10.3 | 9.5 | 15.4 | 6.9 |
| | C.V. (%) | 5.6 | 7.3 | 5.3 | 5.6 | 4.0 | 13.3 | 5.4 | 4.7 | 6.3 | 5.9 | 4.8 | 6.5 | 5.8 | 7.9 | 10.6 | 12.4 | 9.4 |
| | F (Prob.) | 0.0 | 0.1 | 0.5 | 1.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.8 | 0.1 | 0.5 | 0.0 | 0.1 | 0.6 | 0.0 | 0.0 | 0.0 |
| ----- | | | | | | | | | | | | | | | | | | |
| Sl No | PEDIGREE | Zone | | | | | | Zone | | | | OV'L | | | OV'L Mean | | | |
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | UDAI | BANS | CHHI | Mean | Mean | UDHA | | LUDH | GODH | |
| 1 | FH-3478 | 26 | 57 | 58 | 83 | 56 | 67 | 58 | 75 | 60 | 67 | 67 | 64 | 46 | 68 | 76 | 63 | |
| 2 | FH-3487 | 29 | 59 | 56 | 83 | 64 | 63 | 59 | 78 | 65 | 67 | 70 | 65 | 45 | 65 | 69 | 60 | |
| 3 | FH-3488 | 24 | 62 | 59 | 83 | 54 | 67 | 58 | 76 | 63 | 67 | 69 | 64 | 35 | 68 | 74 | 59 | |
| 4 | FH-3483 | 27 | 60 | 61 | 72 | 63 | 67 | 58 | 79 | 64 | 67 | 70 | 63 | 39 | 69 | 69 | 59 | |
| 5 | FQH-76 | 27 | 56 | 58 | 83 | 58 | 65 | 58 | 70 | 63 | 65 | 66 | 63 | 36 | 70 | 80 | 62 | |
| 6 | DH-177 | 26 | 53 | 56 | 83 | 63 | 67 | 58 | 67 | 64 | 64 | 65 | 63 | 34 | 63 | 76 | 58 | |
| 7 | DH-179 | 26 | 54 | 54 | 83 | 64 | 66 | 58 | 75 | 63 | 66 | 68 | 64 | 36 | 67 | 76 | 60 | |
| 8 | AH-97020 | 27 | 54 | 56 | 78 | 59 | 66 | 57 | 76 | 65 | 61 | 67 | 63 | 39 | 63 | 78 | 60 | |
| 9 | AH-97024 | 25 | 59 | 57 | 83 | 61 | 67 | 59 | 72 | 63 | 66 | 67 | 62 | 37 | 66 | 77 | 60 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | VIVEK QPM-9 | 26 | 54 | 58 | 76 | 56 | 66 | 56 | 74 | 63 | 64 | 67 | 63 | 39 | 67 | 72 | 60 | |
| 11 | VIVEK HYBRID-9 | 16 | 54 | 57 | 38 | 48 | 66 | 46 | 67 | 63 | 41 | 57 | 53 | 28 | 59 | 38 | 42 | |
| | Loc. Mean | 25 | 57 | 57 | 77 | 59 | 66 | 57 | 74 | 63 | 63 | 67 | 62 | 38 | 66 | 71 | 58 | |
| | C.D. (5%) | 5.9 | 9.2 | 2.4 | 10.0 | 7.5 | 2.6 | 6.5 | 7.8 | 4.6 | 7.0 | 7.7 | 2.8 | 10.1 | 8.3 | 10.1 | 10.3 | |
| | C.V. (%) | 13.8 | 9.6 | 2.5 | 7.6 | 7.5 | 2.3 | 9.9 | 6.2 | 4.3 | 6.5 | 6.8 | 7.6 | 15.7 | 7.4 | 8.3 | 10.3 | |
| | F (Prob.) | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.1 | 0.7 | 0.0 | 0.1 | 0.0 | 0.1 | 0.4 | 0.0 | 0.0 | |

Table No. 5

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DMR DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR IN AET 1st YEAR TRIAL No. TR65Z2 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | ZN 2 | | OV'L | |
|----------|----------------------|-------------------------------------|---|-------|---|-------|---|-------|---|-------|---|------|---|------|---|
| | | DELH | R | KARN | R | LUDH | R | PANT | R | KANP | R | MEAN | R | MEAN | R |
| 1 | LAXMI-9495 | 5102 | 5 | 6769 | 4 | 6888 | 4 | 9476 | 3 | 8136 | 2 | 7274 | 4 | 7274 | 4 |
| 2 | GK-3059 | 6780 | 2 | 7617 | 1 | 8760 | 1 | 8693 | 5 | 7210 | 5 | 7812 | 3 | 7812 | 3 |
| 3 | PAC-745 | 10754 | 1 | 7346 | 2 | 8407 | 2 | 10137 | 2 | 6408 | 7 | 8611 | 1 | 8611 | 1 |
| | CHECKS | | | | | | | | | | | | | | |
| 4 | BIO-9681 | 4269 | 7 | 5799 | 7 | 5720 | 6 | 7415 | 7 | 6749 | 6 | 5990 | 7 | 5990 | 7 |
| 5 | SEEDTEC-2324 | 6685 | 3 | 7275 | 3 | 6979 | 3 | 10663 | 1 | 8168 | 1 | 7954 | 2 | 7954 | 2 |
| 6 | HQPM-1 | 5018 | 6 | 6341 | 5 | 5733 | 5 | 8763 | 4 | 8071 | 3 | 6785 | 5 | 6785 | 5 |
| 7 | HQPM-7 | 5316 | 4 | 6264 | 6 | 5656 | 7 | 8547 | 6 | 7239 | 4 | 6605 | 6 | 6605 | 6 |
| | Location Mean | 6275 | | 6773 | | 6877 | | 9099 | | 7426 | | 7290 | | 7290 | |
| | Mean Stand | 63 | | 75 | | 65 | | 68 | | 74 | | 69 | | 69 | |
| | C.D. (5%) | 4358 | | 769 | | 761 | | 1347 | | 472 | | 1541 | | 1541 | |
| | C.V. (%) | 46.55 | | 7.61 | | 7.42 | | 9.93 | | 3.53 | | - | | - | |
| | F (Prob) | 0.088 | | 0.002 | | 0 | | 0.001 | | 0 | | - | | - | |
| | Plot Size | 11.2 | | 12 | | 10.4 | | 12 | | 9.6 | | - | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 7-06 | | 29-06 | | 30-06 | | 1-08 | | 14-07 | | - | | - | |
| | Harvest Date | 13-10 | | 5-10 | | 8-10 | | 18-11 | | 7-11 | | - | | - | |
| | Irrigation Nos | 4 | | 5 | | 7 | | - | | 2 | | - | | - | |
| | Fertilizer Applied N | 150 | | 150 | | - | | 120 | | 80 | | - | | - | |
| | Fertilizer Applied P | 75 | | 60 | | - | | 60 | | 40 | | - | | - | |
| | Fertilizer Applied K | 75 | | 60 | | - | | 40 | | 40 | | - | | - | |

Table No. 5 (Continued)

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

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 ZN 2 | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 ZN 2 | | | | | |
|----------|--------------|---|------|------|------|------|------|---|------|------|------|------|------|
| | | DELH | KARN | LUDH | PANT | KANP | MEAN | DELH | KARN | LUDH | PANT | KANP | MEAN |
| 1 | LAXMI-9495 | 1.7 | 6.7 | 20.2 | 8.1 | 0.8 | 7.2 | - | 8.1 | 21.8 | 10.9 | 12.4 | 10.1 |
| 2 | GK-3059 | 35.1 | 20.1 | 52.8 | - | - | 15.1 | 27.5 | 21.6 | 54.9 | 1.7 | - | 18.3 |
| 3 | PAC-745 | 114.3 | 15.8 | 46.6 | 15.7 | - | 26.9 | 102.3 | 17.3 | 48.6 | 18.6 | - | 30.4 |
| | CHECKS | | | | | | | | | | | | |
| 4 | BIO-9681 | - | - | - | - | - | - | - | - | 1.1 | - | - | - |
| 5 | SEEDTEC-2324 | 33.2 | 14.7 | 21.7 | 21.7 | 1.2 | 17.2 | 25.8 | 16.1 | 23.4 | 24.8 | 12.8 | 20.4 |
| 6 | HQPM-1 | - | - | - | - | - | - | - | 1.2 | 1.4 | 2.5 | 11.5 | 2.7 |
| 7 | HQPM-7 | 5.9 | - | - | - | - | - | - | - | - | - | - | - |

Table No. 5 (Continued)

| SI No. PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | Zone Mean | DAYS TO 50% SILKING | | | | | Zone Mean |
|--------------------|-------------------------|------|------|-------|-------|--------------|-----------------------|------|------|------|------|--------------|
| | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 LAXMI-9495 | 56.0 | 50.0 | 53.5 | 54.8 | 62.3 | 55.3 | 57.8 | 52.0 | 54.5 | 56.3 | 68.0 | 57.7 |
| 2 GK-3059 | 54.3 | 48.3 | 53.5 | 53.3 | 61.0 | 54.1 | 56.0 | 50.3 | 54.5 | 56.5 | 67.0 | 56.9 |
| 3 PAC-745 | 53.0 | 48.5 | 52.8 | 53.5 | 64.7 | 54.5 | 56.5 | 50.5 | 53.8 | 56.8 | 70.0 | 57.5 |
| CHECKS | | | | | | | | | | | | |
| 4 BIO-9681 | 53.3 | 48.8 | 52.0 | 53.3 | 62.0 | 53.9 | 56.8 | 50.8 | 53.0 | 54.5 | 68.0 | 56.6 |
| 5 SEEDTEC-2324 | 56.0 | 50.0 | 53.5 | 54.5 | 64.7 | 55.7 | 58.3 | 52.0 | 54.5 | 56.3 | 70.0 | 58.2 |
| 6 HQPM-1 | 54.3 | 49.7 | 52.8 | 53.3 | 63.3 | 54.7 | 56.5 | 51.7 | 53.8 | 54.3 | 68.7 | 57.0 |
| 7 HQPM-7 | 50.8 | 48.0 | 51.5 | 53.3 | 60.0 | 52.7 | 53.5 | 50.0 | 52.5 | 56.3 | 65.7 | 55.6 |
| Loc. Mean | 53.9 | 49.0 | 52.8 | 53.7 | 62.6 | 54.4 | 56.5 | 51.0 | 53.8 | 55.8 | 68.2 | 57.1 |
| C.D. (5%) | 2.28 | 2.10 | 1.88 | 2.19 | 1.14 | 1.18 | 2.43 | 2.10 | 1.88 | 2.24 | 2.35 | 1.22 |
| C.V. (%) | 2.84 | 2.88 | 2.40 | 2.74 | 1.03 | 1.67 | 2.89 | 2.77 | 2.35 | 2.71 | 1.94 | 1.64 |
| F (Prob.) | 0.00 | 0.25 | 0.21 | 0.59 | 0.00 | 0.00 | 0.02 | 0.25 | 0.21 | 0.16 | 0.02 | 0.01 |
| ----- | | | | | | | | | | | | |
| SI No. PEDIGREE | DAYS TO 75% DRY HUSK | | | | | Zone Mean | MOISTURE % AT HARVEST | | | | | Zone Mean |
| | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 LAXMI-9495 | 88.5 | 83.0 | 92.8 | 104.3 | 104.7 | 94.6 | 38.2 | 30.5 | 19.0 | 27.3 | 15.0 | 26.0 |
| 2 GK-3059 | 93.8 | 81.5 | 94.0 | 104.3 | 104.3 | 95.6 | 38.5 | 30.4 | 18.2 | 35.3 | 15.0 | 27.5 |
| 3 PAC-745 | 88.5 | 83.3 | 90.8 | 102.5 | 106.0 | 94.2 | 38.2 | 28.9 | 17.6 | 27.2 | 15.0 | 25.4 |
| CHECKS | | | | | | | | | | | | |
| 4 BIO-9681 | 86.3 | 83.5 | 91.5 | 101.0 | 106.0 | 93.7 | 40.2 | 29.2 | 15.8 | 26.0 | 15.0 | 25.2 |
| 5 SEEDTEC-2324 | 88.5 | 83.3 | 90.3 | 104.0 | 107.7 | 94.7 | 38.1 | 30.4 | 18.4 | 33.5 | 15.0 | 27.1 |
| 6 HQPM-1 | 93.8 | 83.7 | 95.5 | 104.3 | 107.0 | 96.8 | 39.4 | 27.9 | 17.6 | 27.8 | 15.0 | 25.5 |
| 7 HQPM-7 | 89.3 | 82.0 | 96.3 | 105.3 | 102.7 | 95.1 | 37.2 | 30.1 | 16.1 | 28.7 | 15.0 | 25.4 |
| Loc. Mean | 89.8 | 82.9 | 93.0 | 103.6 | 105.5 | 95.0 | 38.5 | 29.6 | 17.5 | 29.4 | 15.0 | 26.0 |
| C.D. (5%) | 3.42 | 2.00 | 2.80 | 1.41 | 3.07 | 2.44 | 1.48 | 0.79 | 0.98 | 2.91 | - | 2.26 |
| C.V. (%) | 2.56 | 1.62 | 2.03 | 0.91 | 1.64 | 1.97 | 2.59 | 1.79 | 3.78 | 6.67 | - | 6.66 |
| F (Prob.) | 0.00 | 0.25 | 0.00 | 0.00 | 0.05 | 0.22 | 0.01 | 0.00 | 0.00 | 0.00 | - | 0.27 |

Table No. 5 (Continued)

| SI | PLANT HEIGHT (cm) | | | | | | EAR HEIGHT (cm) | | | | | |
|----------------|-------------------|-------|-------|-------|-------|-----------|----------------------------|-------|-------|-------|------|-----------|
| | DELH | KARN | LUDH | PANT | KANP | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean |
| No. PEDIGREE | | | | | | | | | | | | |
| 1 LAXMI-9495 | 173.5 | 203.8 | 241.5 | 257.0 | 209.3 | 217.0 | 88.5 | 112.5 | 99.4 | 100.8 | 94.3 | 99.1 |
| 2 GK-3059 | 195.3 | 213.8 | 264.6 | 285.8 | 185.7 | 229.0 | 101.3 | 118.0 | 108.3 | 110.5 | 80.0 | 103.6 |
| 3 PAC-745 | 183.0 | 208.0 | 244.8 | 260.8 | 205.3 | 220.4 | 91.8 | 122.5 | 108.8 | 107.0 | 89.7 | 103.9 |
| CHECKS | | | | | | | | | | | | |
| 4 BIO-9681 | 172.5 | 184.0 | 231.5 | 216.5 | 176.0 | 196.1 | 89.3 | 97.3 | 78.8 | 72.3 | 69.0 | 81.3 |
| 5 SEEDTEC-2324 | 180.3 | 198.5 | 241.8 | 240.0 | 204.7 | 213.0 | 108.0 | 122.5 | 103.9 | 102.5 | 81.7 | 103.7 |
| 6 HQPM-1 | 170.5 | 190.0 | 234.3 | 231.0 | 209.3 | 207.0 | 111.8 | 103.3 | 89.4 | 88.5 | 91.0 | 96.8 |
| 7 HQPM-7 | 186.8 | 198.8 | 238.1 | 251.8 | 195.7 | 214.2 | 87.5 | 111.3 | 97.4 | 95.3 | 75.3 | 93.3 |
| Loc. Mean | 180.3 | 199.5 | 242.4 | 249.0 | 198.0 | 213.8 | 96.9 | 112.5 | 98.0 | 96.7 | 83.0 | 97.4 |
| C.D. (5%) | 18.52 | 13.25 | 14.37 | 12.32 | 1.43 | 13.58 | 34.6 | 12.4 | 11.5 | 10.3 | 4.3 | 9.9 |
| C.V. (%) | 6.91 | 4.47 | 3.99 | 3.33 | 0.40 | 4.87 | 24.0 | 7.4 | 7.9 | 7.2 | 2.9 | 7.8 |
| F (Prob.) | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | |
| SI | GRAIN SHELLING % | | | | | | STAND AT HARVEST ('000/ha) | | | | | |
| No. PEDIGREE | DELH | KARN | LUDH | PANT | KANP | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean |
| 1 LAXMI-9495 | 82.4 | 81.7 | 76.6 | 87.5 | 75.5 | 80.8 | 52 | 61 | 59 | 57 | 79 | 62 |
| 2 GK-3059 | 88.4 | 84.0 | 83.0 | 81.3 | 74.0 | 82.1 | 48 | 63 | 54 | 48 | 76 | 58 |
| 3 PAC-745 | 85.5 | 84.4 | 82.5 | 83.3 | 72.0 | 81.5 | 60 | 64 | 71 | 60 | 76 | 66 |
| CHECKS | | | | | | | | | | | | |
| 4 BIO-9681 | 81.4 | 85.9 | 80.3 | 86.7 | 72.5 | 81.4 | 60 | 64 | 68 | 61 | 77 | 66 |
| 5 SEEDTEC-2324 | 85.6 | 84.1 | 80.5 | 86.0 | 75.5 | 82.3 | 60 | 63 | 65 | 57 | 80 | 65 |
| 6 HQPM-1 | 87.6 | 80.3 | 81.8 | 84.3 | 75.5 | 81.9 | 56 | 65 | 60 | 59 | 78 | 64 |
| 7 HQPM-7 | 81.5 | 83.4 | 78.6 | 85.6 | 73.5 | 80.5 | 56 | 59 | 61 | 57 | 76 | 62 |
| Loc. Mean | 84.6 | 83.4 | 80.4 | 85.0 | 74.1 | 81.5 | 56 | 63 | 63 | 57 | 78 | 63 |
| C.D. (5%) | 2.16 | 0.95 | 1.17 | - | 0.80 | 3.00 | 13.4 | 5.2 | 13.4 | 6.9 | 2.5 | 3.9 |
| C.V. (%) | 1.72 | 0.76 | 0.98 | - | 0.61 | 2.82 | 16.2 | 5.6 | 14.4 | 8.1 | 1.8 | 4.8 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 0.39 | 0.32 | 0.21 | 0.02 | 0.03 | 0.00 |

TABLE No. 6

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BAHARAICH, VARANASI, DHOLI, JASHIPUR, AMBIKAPUR IN AET 1st YEAR, TRIAL No. TR65Z3 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | ZN 3 | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|------|----|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | AMBI | R | MEAN | R |
| 1 | X 7B 401 | 10687 | 1 | 13213 | 3 | 5745 | 6 | 6336 | 7 | 5564 | 1 | 8309 | 2 |
| 2 | X 7B 403 | 8802 | 3 | 13277 | 2 | 5714 | 7 | 7156 | 5 | 4498 | 10 | 7889 | 3 |
| 3 | G K - 3059 | 8124 | 5 | 12435 | 4 | 6103 | 4 | 7371 | 4 | 4772 | 8 | 7761 | 5 |
| 4 | M 05 008 | 7299 | 8 | 11874 | 7 | 5152 | 10 | 5254 | 10 | 4599 | 9 | 6836 | 9 |
| 5 | PHS - 520247 | 7696 | 6 | 12097 | 6 | 6288 | 3 | 6247 | 9 | 4936 | 6 | 7453 | 7 |
| 6 | HTCH - 5401 | 7667 | 7 | 10081 | 9 | 6568 | 1 | 9424 | 1 | 5304 | 2 | 7809 | 4 |
| 7 | M C H - 38 | 9411 | 2 | 13880 | 1 | 6544 | 2 | 7762 | 3 | 4906 | 7 | 8501 | 1 |
| CHECKS | | | | | | | | | | | | | |
| 8 | BIO - 9681 | 6606 | 9 | 10010 | 10 | 5248 | 8 | 6329 | 8 | 5108 | 4 | 6660 | 10 |
| 9 | SEEDTEC - 2324 | 8462 | 4 | 11413 | 8 | 4839 | 11 | 7108 | 6 | 5187 | 3 | 7402 | 8 |
| 10 | HQPM - 1 | 6449 | 11 | 8549 | 11 | 5153 | 9 | 4056 | 11 | 4025 | 11 | 5646 | 11 |
| 11 | HQPM - 7 | 6595 | 10 | 12247 | 5 | 5976 | 5 | 7790 | 2 | 5064 | 5 | 7535 | 6 |
| | Location Mean | 7982 | | 11734 | | 5757 | | 6803 | | 4906 | | 7436 | |
| | Mean Stand | 70 | | 58 | | 54 | | 74 | | 78 | | 67 | |
| | C.D. (5%) | 1187 | | 2215 | | 254 | | 577 | | 1203 | | 1087 | |
| | C.V. (%) | 8.7 | | 11.04 | | 2.58 | | 4.96 | | 14.35 | | - | |
| | F (Prob) | 0 | | 0.001 | | 0 | | 0 | | 0.107 | | - | |
| | Plot Size | 9.6 | | 6 | | 9.6 | | 9.6 | | 12 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | |
| | Sowing Date | 4-07 | | 8-07 | | 26-07 | | 1-07 | | 6-07 | | - | |
| | Harvest Date | 14-10 | | - | | 12-11 | | 16-10 | | - | | - | |
| | Irrigation Nos | - | | - | | - | | 2 | | - | | - | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 120 | | 120 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | 60 | | - | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | 40 | | - | |

TABLE No. 6 (Cont..)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681 | | | | | ZN 3 MEAN | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC - 2324 | | | | | ZN 3 MEAN |
|----------|----------------|--|------|------|-------|------|--------------|--|------|------|------|------|--------------|
| | | BAHR | DHOL | JASH | VARA | AMBI | | BAHR | DHOL | JASH | VARA | AMBI | |
| 1 | X 7B 401 | 61.8 | 32 | 9.5 | 0.1 | 8.9 | 24.8 | 26.3 | 15.8 | 18.7 | - | 7.3 | 12.3 |
| 2 | X 7B 403 | 33.2 | 32.6 | 8.9 | 13.1 | - | 18.5 | 4 | 16.3 | 18.1 | 0.7 | - | 6.6 |
| 3 | G K - 3059 | 23 | 24.2 | 16.3 | 16.5 | - | 16.5 | - | 9 | 26.1 | 3.7 | - | 4.9 |
| 4 | M 05 008 | 10.5 | 18.6 | - | - | - | 2.6 | - | 4 | 6.5 | - | - | - |
| 5 | PHS - 520247 | 16.5 | 20.9 | 19.8 | - | - | 11.9 | - | 6 | 29.9 | - | - | 0.7 |
| 6 | HTCH - 5401 | 16.1 | 0.7 | 25.2 | 48.9 | 3.8 | 17.2 | - | - | 35.7 | 32.6 | 2.2 | 5.5 |
| 7 | M C H - 38 | 42.5 | 38.7 | 24.7 | 22.6 | - | 27.6 | 11.2 | 21.6 | 35.2 | 9.2 | - | 14.8 |
| CHECKS | | | | | | | | | | | | | |
| 8 | BIO - 9681 | - | - | - | - | - | - | - | - | 8.5 | - | - | - |
| 9 | SEEDTEC - 2324 | 28.1 | 14 | - | 12.3 | 1.6 | 11.1 | - | - | - | - | - | - |
| 10 | HQPM - 1 | - | - | - | - | - | - | - | - | 6.5 | - | - | - |
| 11 | HQPM - 7 | - | 22.4 | 13.9 | 23.1 | - | 13.1 | - | 7.3 | 23.5 | 9.6 | - | 1.8 |
| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM - 1 | | | | | ZN 3 MEAN | GRAIN YIELD % SUPERIORITY OVER THE HQPM - 7 | | | | | ZN 3 MEAN |
| | | BAHR | DHOL | JASH | VARA | AMBI | | BAHR | DHOL | JASH | VARA | AMBI | |
| 1 | X 7B 401 | 65.7 | 54.6 | 11.5 | 56.2 | 38.2 | 47.2 | 62.1 | 7.9 | - | - | 9.9 | 10.3 |
| 2 | X 7B 403 | 36.5 | 55.3 | 10.9 | 76.4 | 11.7 | 39.7 | 33.5 | 8.4 | - | - | - | 4.7 |
| 3 | G K - 3059 | 26 | 45.5 | 18.4 | 81.7 | 18.5 | 37.5 | 23.2 | 1.5 | 2.1 | - | - | 3 |
| 4 | M 05 008 | 13.2 | 38.9 | - | 29.5 | 14.2 | 21.1 | 10.7 | - | - | - | - | - |
| 5 | PHS - 520247 | 19.3 | 41.5 | 22 | 54 | 22.6 | 32 | 16.7 | - | 5.2 | - | - | - |
| 6 | HTCH - 5401 | 18.9 | 17.9 | 27.5 | 132.3 | 31.8 | 38.3 | 16.3 | - | 9.9 | 21 | 4.7 | 3.6 |
| 7 | M C H - 38 | 45.9 | 62.3 | 27 | 91.4 | 21.9 | 50.5 | 42.7 | 13.3 | 9.5 | - | - | 12.8 |
| CHECKS | | | | | | | | | | | | | |
| 8 | BIO - 9681 | 2.4 | 17.1 | 1.8 | 56 | 26.9 | 18 | 0.2 | - | - | - | 0.9 | - |
| 9 | SEEDTEC - 2324 | 31.2 | 33.5 | - | 75.2 | 28.9 | 31.1 | 28.3 | - | - | - | 2.4 | - |
| 10 | HQPM - 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | HQPM - 7 | 2.3 | 43.3 | 16 | 92.1 | 25.8 | 33.4 | - | - | - | - | - | - |

TABLE No. 6 (Cont..)

| SI No. PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | Zone Mean | DAYS TO 50% SILKING | | | | | Zone Mean |
|--------------------|-------------------------|------|------|-------|------|--------------|-----------------------|------|------|------|------|--------------|
| | BAHR | DHOL | JASH | VARA | AMBI | | BAHR | DHOL | JASH | VARA | AMBI | |
| 1 X 7B 401 | 53.3 | 55.3 | 51.0 | 53.7 | 49.3 | 52.5 | 55.7 | 56.3 | 52.7 | 58.7 | 52.0 | 55.1 |
| 2 X 7B 403 | 52.3 | 54.3 | 51.0 | 56.7 | 53.0 | 53.5 | 54.3 | 55.3 | 53.0 | 62.7 | 56.0 | 56.3 |
| 3 G K - 3059 | 52.7 | 55.3 | 52.7 | 53.3 | 52.7 | 53.3 | 54.7 | 56.3 | 54.7 | 58.3 | 56.0 | 56.0 |
| 4 M 05 008 | 56.0 | 58.0 | 54.3 | 57.0 | 55.0 | 56.1 | 58.0 | 59.0 | 57.7 | 63.3 | 58.0 | 59.2 |
| 5 PHS - 520247 | 57.3 | 58.7 | 56.0 | 56.7 | 53.7 | 56.5 | 59.3 | 60.0 | 59.0 | 61.3 | 56.3 | 59.2 |
| 6 HTCH - 5401 | 56.3 | 57.3 | 52.7 | 56.3 | 56.0 | 55.7 | 58.3 | 58.7 | 55.0 | 60.3 | 59.0 | 58.3 |
| 7 M C H - 38 | 55.3 | 56.0 | 52.3 | 56.7 | 51.0 | 54.3 | 57.3 | 58.0 | 54.3 | 62.3 | 54.0 | 57.2 |
| CHECKS | | | | | | | | | | | | |
| 8 BIO - 9681 | 50.0 | 53.7 | 49.3 | 51.3 | 48.7 | 50.6 | 52.0 | 54.7 | 51.7 | 57.0 | 51.3 | 53.3 |
| 9 SEEDTEC - 2324 | 55.7 | 57.7 | 52.0 | 58.3 | 53.3 | 55.4 | 57.7 | 59.3 | 54.0 | 64.0 | 56.0 | 58.2 |
| 10 HQPM - 1 | 54.0 | 56.0 | 50.7 | 56.3 | 53.0 | 54.0 | 56.0 | 57.3 | 53.3 | 61.3 | 56.0 | 56.8 |
| 11 HQPM - 7 | 50.3 | 54.0 | 50.7 | 51.0 | 54.0 | 52.0 | 52.7 | 55.0 | 53.0 | 55.3 | 57.0 | 54.6 |
| Loc. Mean | 53.9 | 56.0 | 52.1 | 55.2 | 52.7 | 54.0 | 56.0 | 57.3 | 54.4 | 60.4 | 55.6 | 56.7 |
| C.D. (5%) | 1.53 | 2.05 | 0.99 | 2.00 | 0.67 | 1.62 | 1.32 | 2.56 | 0.94 | 2.59 | 1.24 | 1.89 |
| C.V. (%) | 1.67 | 2.15 | 1.12 | 2.13 | 0.75 | 2.35 | 1.39 | 2.63 | 1.02 | 2.51 | 1.31 | 2.61 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ----- | | | | | | | | | | | | |
| SI No. PEDIGREE | DAYS TO 75% DRY HUSK | | | | | Zone Mean | MOISTURE % AT HARVEST | | | | | Zone Mean |
| | BAHR | DHOL | JASH | VARA | AMBI | | BAHR | DHOL | JASH | VARA | Mean | |
| 1 X 7B 401 | 87.7 | 96.3 | 97.0 | 95.7 | 85.3 | 92.4 | 26.9 | 23.8 | 18.3 | 28.3 | 24.3 | |
| 2 X 7B 403 | 86.3 | 97.0 | 98.3 | 95.0 | 88.0 | 92.9 | 27.8 | 21.3 | 17.4 | 26.2 | 23.2 | |
| 3 G K - 3059 | 86.3 | 96.7 | 98.7 | 95.3 | 89.0 | 93.2 | 26.8 | 23.5 | 19.5 | 29.6 | 24.8 | |
| 4 M 05 008 | 88.0 | 98.3 | 99.0 | 98.3 | 87.7 | 94.3 | 26.2 | 27.9 | 17.8 | 31.5 | 25.9 | |
| 5 PHS - 520247 | 89.0 | 96.0 | 98.3 | 95.0 | 89.0 | 93.5 | 26.3 | 30.2 | 17.8 | 32.7 | 26.8 | |
| 6 HTCH - 5401 | 89.0 | 93.0 | 98.3 | 95.7 | 86.3 | 92.5 | 28.0 | 21.2 | 18.2 | 29.6 | 24.3 | |
| 7 M C H - 38 | 86.3 | 95.3 | 97.7 | 98.7 | 84.3 | 92.5 | 26.9 | 24.8 | 17.3 | 29.7 | 24.7 | |
| CHECKS | | | | | | | | | | | | |
| 8 BIO - 9681 | 83.3 | 93.0 | 96.7 | 94.0 | 86.0 | 90.6 | 24.0 | 18.7 | 17.0 | 26.2 | 21.5 | |
| 9 SEEDTEC - 2324 | 87.3 | 95.0 | 95.0 | 100.7 | 85.7 | 92.7 | 25.8 | 24.8 | 17.9 | 29.9 | 24.6 | |
| 10 HQPM - 1 | 85.3 | 99.0 | 96.0 | 98.0 | 88.0 | 93.3 | 24.1 | 24.3 | 17.3 | 31.2 | 24.2 | |
| 11 HQPM - 7 | 87.0 | 97.0 | 96.7 | 93.0 | 88.3 | 92.4 | 24.1 | 17.1 | 17.8 | 23.7 | 20.7 | |
| Loc. Mean | 86.9 | 96.1 | 97.4 | 96.3 | 87.1 | 92.8 | 26.1 | 23.4 | 17.8 | 29.0 | 24.1 | |
| C.D. (5%) | 1.50 | 3.09 | 2.65 | 1.82 | 0.72 | 2.17 | 0.92 | 0.00 | - | 0.00 | 2.84 | |
| C.V. (%) | 1.01 | 1.89 | 1.60 | 1.11 | 0.49 | 1.83 | 2.07 | 0.00 | - | 0.00 | 8.16 | |
| F (Prob.) | 0.00 | 0.01 | 0.10 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | |

TABLE No. 6 (Cont..)

| SI No. PEDIGREE | PLANT HEIGHT (cm) | | | | | Zone Mean | EAR HEIGHT (cm) | | | | | Zone Mean |
|--------------------|-------------------|------|------|------|------|--------------|----------------------------|------|------|------|------|--------------|
| | BAHR | DHOL | JASH | VARA | AMBI | | BAHR | DHOL | JASH | VARA | AMBI | |
| 1 X 7B 401 | 239 | 185 | 166 | 225 | 256 | 214 | 143 | 413 | 64 | 135 | 119 | 175 |
| 2 X 7B 403 | 215 | 175 | 171 | 205 | 246 | 202 | 112 | 88 | 64 | 105 | 89 | 92 |
| 3 G K - 3059 | 221 | 178 | 166 | 210 | 248 | 205 | 121 | 82 | 63 | 110 | 99 | 95 |
| 4 M 05 008 | 212 | 170 | 165 | 240 | 274 | 212 | 118 | 90 | 68 | 125 | 125 | 105 |
| 5 PHS - 520247 | 231 | 184 | 186 | 240 | 282 | 225 | 120 | 87 | 80 | 135 | 110 | 106 |
| 6 HTCH - 5401 | 220 | 158 | 151 | 200 | 269 | 200 | 111 | 73 | 56 | 85 | 101 | 85 |
| 7 M C H - 38 | 214 | 166 | 167 | 215 | 247 | 202 | 115 | 80 | 71 | 110 | 98 | 95 |
| CHECKS | | | | | | | | | | | | |
| 8 BIO - 9681 | 196 | 160 | 162 | 210 | 238 | 193 | 91 | 65 | 60 | 105 | 74 | 79 |
| 9 SEEDTEC - 2324 | 210 | 165 | 153 | 215 | 244 | 198 | 118 | 86 | 62 | 130 | 110 | 101 |
| 10 HQPM - 1 | 203 | 157 | 161 | 200 | 252 | 195 | 105 | 69 | 58 | 100 | 82 | 83 |
| 11 HQPM - 7 | 220 | 180 | 159 | 215 | 270 | 209 | 107 | 82 | 57 | 105 | 111 | 92 |
| Loc. Mean | 216 | 171 | 164 | 216 | 257 | 205 | 115 | 110 | 64 | 113 | 102 | 101 |
| C.D. (5%) | 19.7 | 14.7 | 5.1 | 0.0 | 20.8 | 11.1 | 18 | 288 | 5 | - | 15 | 55 |
| C.V. (%) | 5.3 | 5.0 | 1.8 | 0.0 | 4.8 | 4.2 | 9 | 153 | 4 | - | 9 | 43 |
| F (Prob.) | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.09 |
| ----- | | | | | | | | | | | | |
| SI No. PEDIGREE | GRAIN SHELLING % | | | | | Zone Mean | STAND AT HARVEST ('000/ha) | | | | | Zone Mean |
| | BAHR | JASH | VARA | AMBI | | | BAHR | DHOL | JASH | VARA | | |
| 1 X 7B 401 | | | | | | | | | | | | |
| 2 X 7B 403 | 80.1 | 81.1 | 80.0 | 83.9 | 81.3 | | 74 | 104 | 58 | 79 | | 79 |
| 3 G K - 3059 | 76.5 | 81.1 | 80.0 | 76.9 | 78.6 | | 74 | 107 | 54 | 75 | | 78 |
| 4 M 05 008 | 79.6 | 88.0 | 79.0 | 79.5 | 81.5 | | 74 | 92 | 55 | 77 | | 75 |
| 5 PHS - 520247 | 76.4 | 75.7 | 77.5 | 80.8 | 77.6 | | 73 | 86 | 54 | 79 | | 73 |
| 6 HTCH - 5401 | 79.0 | 77.2 | 76.5 | 82.4 | 78.8 | | 72 | 79 | 55 | 78 | | 71 |
| 7 M C H - 38 | 78.9 | 79.8 | 80.5 | 83.3 | 80.6 | | 74 | 107 | 59 | 75 | | 79 |
| CHECKS | 79.3 | 79.5 | 77.0 | 83.4 | 79.8 | | 74 | 101 | 58 | 77 | | 77 |
| 8 BIO - 9681 | | | | | | | | | | | | |
| 9 SEEDTEC - 2324 | 76.4 | 76.9 | 77.5 | 83.6 | 78.6 | | 74 | 99 | 56 | 79 | | 77 |
| 10 HQPM - 1 | 77.9 | 76.5 | 76.0 | 82.3 | 78.2 | | 74 | 99 | 57 | 74 | | 76 |
| 11 HQPM - 7 | 77.6 | 78.5 | 77.5 | 84.9 | 79.6 | | 66 | 92 | 54 | 81 | | 73 |
| Loc. Mean | 76.6 | 77.5 | 76.0 | 82.0 | 78.0 | | 72 | 94 | 57 | 74 | | 74 |
| C.D. (5%) | 78.0 | 79.3 | 78.0 | 82.1 | 79.3 | | 73 | 96 | 56 | 77 | | 76 |
| C.V. (%) | 1.95 | - | - | 8.52 | 3.18 | | 2.5 | 15.2 | 3.6 | 6.3 | | 6.7 |
| F (Prob.) | 1.47 | - | - | 6.09 | 2.77 | | 2.0 | 9.2 | 3.8 | 4.8 | | 6.1 |
| F (Prob.) | 0.00 | 0.00 | - | 0.77 | 0.20 | | 0.00 | 0.02 | 0.07 | 0.36 | | 0.29 |

TABLE No. 7

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR POC BANGALORE, JK AGRI BANGALORE, ADVANTA BANGALORE, GANGA KAVERI HYDERABAD, IN AET 1st YEAR, TRIAL No. TR65Z4 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|--------------|----|--------------|----|
| | | ARBH | | HYDE | | KARI | | KOLH | | MAND | | COIM | | BANG POCB | | BANG ADVA | |
| 1 | BH-417135 | 8237 | 11 | 6775 | 9 | 4216 | 16 | 5512 | 20 | 7629 | 13 | 13650 | 9 | 7598 | 19 | 6195 | 13 |
| 2 | BH-407138 | 7867 | 13 | 5715 | 15 | 6027 | 5 | 6708 | 16 | 8049 | 8 | 11266 | 17 | 9076 | 13 | 5377 | 17 |
| 3 | X7B401 | 7805 | 15 | 6282 | 12 | 9093 | 1 | 8604 | 4 | 9076 | 3 | 13564 | 10 | 7147 | 20 | 6291 | 11 |
| 4 | X7B403 | 7149 | 17 | 4888 | 18 | 6357 | 4 | 8059 | 8 | 7302 | 17 | 14532 | 2 | 8226 | 16 | 6423 | 9 |
| 5 | LAXMI-9495 | 8442 | 8 | 5277 | 17 | 7460 | 3 | 6635 | 18 | 7221 | 18 | 13175 | 13 | 9495 | 9 | 6398 | 10 |
| 6 | GK-3059 | 10529 | 1 | 8363 | 3 | 6004 | 6 | 8638 | 3 | 7302 | 16 | 14462 | 3 | 9983 | 7 | 6635 | 7 |
| 7 | PAC-745 | 10484 | 2 | 6289 | 11 | 8178 | 2 | 6845 | 14 | 7573 | 14 | 13083 | 14 | 11226 | 4 | 7312 | 3 |
| 8 | PHS-520247 | 6993 | 18 | 7257 | 8 | 4607 | 13 | 7245 | 13 | 8220 | 7 | 15205 | 1 | 10636 | 5 | 6114 | 14 |
| 9 | PFMH-9737 | 8268 | 10 | 6723 | 10 | 1933 | 20 | 8182 | 7 | 7677 | 12 | 14446 | 4 | 8807 | 14 | 7586 | 2 |
| 10 | JKMH-8003 | 8936 | 6 | 5613 | 16 | 4693 | 12 | 7718 | 11 | 8949 | 5 | 12503 | 16 | 7806 | 18 | 6859 | 4 |
| 11 | BISCO-4564 | 6727 | 19 | 4841 | 19 | 5948 | 7 | 6822 | 15 | 7054 | 19 | 14238 | 6 | 8116 | 17 | 5647 | 16 |
| 12 | KMH-3669 | 9355 | 4 | 7673 | 5 | 4879 | 11 | 6227 | 19 | 6979 | 20 | 14280 | 5 | 9084 | 12 | 6465 | 8 |
| 13 | KMHSUPER-244 | 10425 | 3 | 9362 | 1 | 5298 | 10 | 9861 | 1 | 9044 | 4 | 13462 | 11 | 11752 | 3 | 7932 | 1 |
| 14 | BL-2801 | 7864 | 14 | 7935 | 4 | 4053 | 18 | 8312 | 5 | 9209 | 2 | 12750 | 15 | 9540 | 8 | 5897 | 15 |
| 15 | HTCH-5401 | 8055 | 12 | 6184 | 14 | 4003 | 19 | 7847 | 9 | 9775 | 1 | 13315 | 12 | 8750 | 15 | 6797 | 5 |
| 16 | MCH-38 | 9008 | 5 | 7613 | 6 | 4517 | 14 | 9138 | 2 | 7724 | 11 | 13968 | 7 | 9358 | 11 | 6685 | 6 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 5031 | 20 | 4511 | 20 | 5322 | 9 | 8234 | 6 | 7315 | 15 | 10692 | 19 | 10016 | 6 | 4308 | 20 |
| 18 | SEEDTEC-2324 | 8731 | 7 | 8534 | 2 | 4107 | 17 | 6641 | 17 | 7875 | 10 | 13853 | 8 | 12951 | 2 | 6268 | 12 |
| 19 | HQPM-1 | 7231 | 16 | 6188 | 13 | 5919 | 8 | 7566 | 12 | 8783 | 6 | 10441 | 20 | 13848 | 1 | 4841 | 19 |
| 20 | HQPM-7 | 8331 | 9 | 7277 | 7 | 4480 | 15 | 7820 | 10 | 8027 | 9 | 10815 | 18 | 9427 | 10 | 5119 | 18 |
| | Location Mean | 8273 | | 6665 | | 5355 | | 7631 | | 8039 | | 13185 | | 9642 | | 6257 | |
| | Mean Stand | 71 | | 67 | | 74 | | 74 | | 64 | | 64 | | 34 | | 65 | |
| | C.D. (5%) | 1357 | | 1176 | | 383 | | 1452 | | 944 | | 1313 | | 2893 | | 1114 | |
| | C.V. (%) | 9.91 | | 10.67 | | 4.33 | | 11.5 | | 7.1 | | 6.02 | | 18.14 | | 10.76 | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0.005 | | 0 | |
| | Plot Size | 12 | | 12 | | 12 | | 12 | | 11.2 | | 9.6 | | 4.8 | | 10000 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 17-07 | | 6-07 | | 12-07 | | 7-12 | | 22-07 | | 9-07 | | 14-07 | | 6-07 | |
| | Harvest Date | 9-11 | | 22-11 | | 18-10 | | 12-07 | | 26-11 | | 3-11 | | - | | 12-11 | |
| | Irrigation Nos | 6 | | 2 | | - | | - | | 6 | | 10 | | 5 | | 3 | |
| | Fertilizer Applied N | 150 | | 180 | | 200 | | 120 | | 150 | | 150 | | 120 | | 120 | |
| | Fertilizer Applied P | 75 | | 60 | | 80 | | 60 | | 75 | | 75 | | 60 | | 60 | |
| | Fertilizer Applied K | 37.5 | | 50 | | 60 | | 40 | | 40 | | 75 | | 40 | | 40 | |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | | | |
|-------|----------------------|-------------------------------------|----|-------|----|---|----|-------|----|-------|-------|------|------|------|------|
| | | BANG | | BANG | | ZN 4 | | OV'L | | ARBH | HYDE | KARI | KOLH | MAND | COIM |
| | | JKAG | R | GANG | R | MEAN | R | MEAN | R | | | | | | |
| 1 | BH-417135 | 15010 | 5 | 8444 | 20 | 8327 | 16 | 8327 | 16 | 63.7 | 50.2 | - | - | 4.3 | 27.7 |
| 2 | BH-407138 | 11241 | 18 | 8639 | 19 | 7996 | 19 | 7996 | 19 | 56.4 | 26.7 | 13.2 | - | 10 | 5.4 |
| 3 | X7B401 | 15256 | 3 | 9528 | 14 | 9265 | 4 | 9265 | 4 | 55.1 | 39.3 | 70.9 | 4.5 | 24.1 | 26.9 |
| 4 | X7B403 | 13918 | 10 | 10851 | 2 | 8771 | 10 | 8771 | 10 | 42.1 | 8.4 | 19.5 | - | - | 35.9 |
| 5 | LAXMI-9495 | 14361 | 8 | 10728 | 5 | 8919 | 8 | 8919 | 8 | 67.8 | 17 | 40.2 | - | - | 23.2 |
| 6 | GK-3059 | 15305 | 2 | 10672 | 6 | 9789 | 2 | 9789 | 2 | 109.3 | 85.4 | 12.8 | 4.9 | - | 35.3 |
| 7 | PAC-745 | 14391 | 7 | 9620 | 11 | 9500 | 3 | 9500 | 3 | 108.4 | 39.4 | 53.7 | - | 3.5 | 22.4 |
| 8 | PHS-520247 | 12098 | 16 | 8993 | 16 | 8737 | 11 | 8737 | 11 | 39 | 60.9 | - | - | 12.4 | 42.2 |
| 9 | PFMH-9737 | 12238 | 14 | 10590 | 7 | 8645 | 14 | 8645 | 14 | 64.3 | 49 | - | - | 5 | 35.1 |
| 10 | JKMH-8003 | 15244 | 4 | 9035 | 15 | 8736 | 12 | 8736 | 12 | 77.6 | 24.4 | - | - | 22.3 | 16.9 |
| 11 | BISCO-4564 | 12266 | 13 | 10883 | 1 | 8254 | 17 | 8254 | 17 | 33.7 | 7.3 | 11.8 | - | - | 33.2 |
| 12 | KMH-3669 | 14451 | 6 | 10457 | 10 | 8985 | 7 | 8985 | 7 | 85.9 | 70.1 | - | - | - | 33.6 |
| 13 | KMHSUPER-244 | 15962 | 1 | 10545 | 8 | 10364 | 1 | 10364 | 1 | 107.2 | 107.5 | - | 19.8 | 23.6 | 25.9 |
| 14 | BL-2801 | 14208 | 9 | 8808 | 17 | 8858 | 9 | 8858 | 9 | 56.3 | 75.9 | - | 0.9 | 25.9 | 19.2 |
| 15 | HTCH-5401 | 12419 | 12 | 9580 | 12 | 8672 | 13 | 8672 | 13 | 60.1 | 37.1 | - | - | 33.6 | 24.5 |
| 16 | MCH-38 | 13463 | 11 | 10742 | 4 | 9222 | 5 | 9222 | 5 | 79 | 68.8 | - | 11 | 5.6 | 30.6 |
| | CHECKS | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 8769 | 20 | 10768 | 3 | 7497 | 20 | 7497 | 20 | - | - | - | - | - | - |
| 18 | SEEDTEC-2324 | 12165 | 15 | 9546 | 13 | 9067 | 6 | 9067 | 6 | 73.5 | 89.2 | - | - | 7.7 | 29.6 |
| 19 | HQPM-1 | 9414 | 19 | 10486 | 9 | 8472 | 15 | 8472 | 15 | 43.7 | 37.2 | 11.2 | - | 20.1 | - |
| 20 | HQPM-7 | 11854 | 17 | 8647 | 18 | 8180 | 18 | 8180 | 18 | 65.6 | 61.3 | - | - | 9.7 | 1.2 |
| | Location Mean | 13202 | | 9878 | | 8813 | | 8813 | | | | | | | |
| | Mean Stand | 65 | | 62 | | 64 | | 64 | | | | | | | |
| | C.D. (5%) | 2000 | | 364 | | 1300 | | 1300 | | | | | | | |
| | C.V. (%) | 9.16 | | 2.23 | | - | | - | | | | | | | |
| | F (Prob) | 0 | | 0 | | | | | | | | | | | |
| | Plot Size | 10.4 | | 8 | | - | | - | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 16-07 | | 7-07 | | - | | - | | | | | | | |
| | Harvest Date | 26-11 | | 25-10 | | - | | - | | | | | | | |
| | Irrigation Nos | 4 | | 4 | | - | | - | | | | | | | |
| | Fertilizer Applied N | 120 | | 120 | | - | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | 60 | | - | | - | | | | | | | |
| | Fertilizer Applied K | 60 | | 40 | | - | | - | | | | | | | |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | BANG POCB |
|----------|--------------|--|--------------|--------------|--------------|--------------|--|------|-------|------|------|------|--------------|
| | | BANG POCB | BANG ADVA | BANG JKAG | BANG GANG | ZN 4 MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | |
| 1 | BH-417135 | - | 43.8 | 71.2 | - | 43.3 | - | - | 2.7 | - | - | - | - |
| 2 | BH-407138 | - | 24.8 | 28.2 | - | 24.5 | - | - | 46.7 | 1 | 2.2 | - | - |
| 3 | X7B401 | - | 46 | 74 | - | 45.7 | - | - | 121.4 | 29.6 | 15.2 | - | - |
| 4 | X7B403 | - | 49.1 | 58.7 | 0.8 | 48.6 | - | - | 54.8 | 21.4 | - | 4.9 | - |
| 5 | LAXMI-9495 | - | 48.5 | 63.8 | - | 48 | - | - | 81.6 | - | - | - | - |
| 6 | GK-3059 | - | 54 | 74.5 | - | 53.6 | 20.6 | - | 46.2 | 30.1 | - | 4.4 | - |
| 7 | PAC-745 | 12.1 | 69.7 | 64.1 | - | 69 | 20.1 | - | 99.1 | 3.1 | - | - | - |
| 8 | PHS-520247 | 6.2 | 41.9 | 38 | - | 41.5 | - | - | 12.2 | 9.1 | 4.4 | 9.8 | - |
| 9 | PFMH-9737 | - | 76.1 | 39.6 | - | 75.1 | - | - | - | 23.2 | - | 4.3 | - |
| 10 | JKMH-8003 | - | 59.2 | 73.9 | - | 58.5 | 2.3 | - | 14.3 | 16.2 | 13.6 | - | - |
| 11 | BISCO-4564 | - | 31.1 | 39.9 | 1.1 | 30.7 | - | - | 44.8 | 2.7 | - | 2.8 | - |
| 12 | KMH-3669 | - | 50.1 | 64.8 | - | 49.6 | 7.1 | - | 18.8 | - | - | 3.1 | - |
| 13 | KMHSUPER-244 | 17.3 | 84.1 | 82 | - | 83.4 | 19.4 | 9.7 | 29 | 48.5 | 14.9 | - | - |
| 14 | BL-2801 | - | 36.9 | 62 | - | 36.6 | - | - | - | 25.2 | 16.9 | - | - |
| 15 | HTCH-5401 | - | 57.8 | 41.6 | - | 57.1 | - | - | - | 18.2 | 24.1 | - | - |
| 16 | MCH-38 | - | 55.2 | 53.5 | - | 54.7 | 3.2 | - | 10 | 37.6 | - | 0.8 | - |
| | CHECKS | | | | | | | | | | | | |
| 17 | BIO-9681 | - | - | - | - | - | - | - | 29.6 | 24 | - | - | - |
| 18 | SEEDTEC-2324 | 29.3 | 45.5 | 38.7 | - | 45.1 | - | - | - | - | - | - | - |
| 19 | HQPM-1 | 38.3 | 12.4 | 7.4 | - | 12.4 | - | - | 44.1 | 13.9 | 11.5 | - | 6.9 |
| 20 | HQPM-7 | - | 18.8 | 35.2 | - | 18.7 | - | - | 9.1 | 17.8 | 1.9 | - | - |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | |
|----------|--------------|--|--------------|--------------|--------------|---|------|------|------|------|------|--------------|--------------|
| | | BANG ADVA | BANG JKAG | BANG GANG | ZN 4 MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG POCB | BANG ADVA |
| 1 | BH-417135 | - | 23.4 | - | - | 13.9 | 9.5 | - | - | - | 30.7 | - | 28 |
| 2 | BH-407138 | - | - | - | - | 8.8 | - | 1.8 | - | - | 7.9 | - | 11.1 |
| 3 | X7B401 | 0.4 | 25.4 | - | 0.4 | 7.9 | 1.5 | 53.6 | 13.7 | 3.3 | 29.9 | - | 30 |
| 4 | X7B403 | 2.5 | 14.4 | 13.7 | 2.4 | - | - | 7.4 | 6.5 | - | 39.2 | - | 32.7 |
| 5 | LAXMI-9495 | 2.1 | 18 | 12.4 | 2 | 16.7 | - | 26 | - | - | 26.2 | - | 32.2 |
| 6 | GK-3059 | 5.9 | 25.8 | 11.8 | 5.9 | 45.6 | 35.2 | 1.4 | 14.2 | - | 38.5 | - | 37.1 |
| 7 | PAC-745 | 16.7 | 18.3 | 0.8 | 16.5 | 45 | 1.6 | 38.2 | - | - | 25.3 | - | 51.1 |
| 8 | PHS-520247 | - | - | - | - | - | 17.3 | - | - | - | 45.6 | - | 26.3 |
| 9 | PFMH-9737 | 21 | 0.6 | 10.9 | 20.7 | 14.3 | 8.7 | - | 8.1 | - | 38.4 | - | 56.7 |
| 10 | JKMH-8003 | 9.4 | 25.3 | - | 9.3 | 23.6 | - | - | 2 | 1.9 | 19.7 | - | 41.7 |
| 11 | BISCO-4564 | - | 0.8 | 14 | - | - | - | 0.5 | - | - | 36.4 | - | 16.7 |
| 12 | KMH-3669 | 3.2 | 18.8 | 9.5 | 3.1 | 29.4 | 24 | - | - | - | 36.8 | - | 33.6 |
| 13 | KMHSUPER-244 | 26.5 | 31.2 | 10.5 | 26.4 | 44.2 | 51.3 | - | 30.3 | 3 | 28.9 | - | 63.9 |
| 14 | BL-2801 | - | 16.8 | - | - | 8.8 | 28.2 | - | 9.9 | 4.8 | 22.1 | - | 21.8 |
| 15 | HTCH-5401 | 8.4 | 2.1 | 0.4 | 8.3 | 11.4 | - | - | 3.7 | 11.3 | 27.5 | - | 40.4 |
| 16 | MCH-38 | 6.7 | 10.7 | 12.5 | 6.6 | 24.6 | 23 | - | 20.8 | - | 33.8 | - | 38.1 |
| | CHECKS | | | | | | | | | | | | |
| 17 | BIO-9681 | - | - | 12.8 | - | - | - | - | 8.8 | - | 2.4 | - | - |
| 18 | SEEDTEC-2324 | - | - | - | - | 20.7 | 37.9 | - | - | - | 32.7 | - | 29.5 |
| 19 | HQPM-1 | - | - | 9.9 | - | - | - | - | - | - | - | - | - |
| 20 | HQPM-7 | - | - | - | - | 15.2 | 17.6 | - | 3.4 | - | 3.6 | - | 5.8 |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | |
|----------|------------------|--|--------------|--------------|---|------|------|------|------|------|--------------|--------------|--------------|------|
| | | BANG JKAG | BANG GANG | ZN 4 MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG POCB | BANG ADVA | BANG JKAG | |
| 1 | BH-417135 | 59.4 | - | 27.5 | - | - | - | - | - | - | 26.2 | - | 21 | 26.6 |
| 2 | BH-407138 | 19.4 | - | 10.8 | - | - | 34.5 | - | 0.3 | 4.2 | - | - | 5 | - |
| 3 | X7B401 | 62.1 | - | 29.6 | - | - | 103 | 10 | 13.1 | 25.4 | - | - | 22.9 | 28.7 |
| 4 | X7B403 | 47.8 | 3.5 | 32.2 | - | - | 41.9 | 3.1 | - | 34.4 | - | - | 25.5 | 17.4 |
| 5 | LAXMI-9495 | 52.5 | 2.3 | 31.7 | 1.3 | - | 66.5 | - | - | 21.8 | 0.7 | - | 25 | 21.1 |
| 6 | GK-3059 | 62.6 | 1.8 | 36.7 | 26.4 | 14.9 | 34 | 10.5 | - | 33.7 | 5.9 | - | 29.6 | 29.1 |
| 7 | PAC-745 | 52.9 | - | 50.4 | 25.8 | - | 82.5 | - | - | 21 | 19.1 | - | 42.8 | 21.4 |
| 8 | PHS-520247 | 28.5 | - | 25.9 | - | - | 2.8 | - | 2.4 | 40.6 | 12.8 | - | 19.4 | 2.1 |
| 9 | PFMH-9737 | 30 | 1 | 55.8 | - | - | - | 4.6 | - | 33.6 | - | - | 48.2 | 3.2 |
| 10 | JKMH-8003 | 61.9 | - | 41.1 | 7.3 | - | 4.7 | - | 11.5 | 15.6 | - | - | 34 | 28.6 |
| 11 | BISCO-4564 | 30.3 | 3.8 | 16.3 | - | - | 32.8 | - | - | 31.6 | - | - | 10.3 | 3.5 |
| 12 | KMH-3669 | 53.5 | - | 33.1 | 12.3 | 5.5 | 8.9 | - | - | 32 | - | - | 26.3 | 21.9 |
| 13 | KMHSUPER-244 | 69.6 | 0.6 | 63.2 | 25.1 | 28.7 | 18.3 | 26.1 | 12.7 | 24.5 | 24.7 | - | 54.9 | 34.7 |
| 14 | BL-2801 | 50.9 | - | 21.5 | - | 9 | - | 6.3 | 14.7 | 17.9 | 1.2 | - | 15.2 | 19.9 |
| 15 | HTCH-5401 | 31.9 | - | 39.8 | - | - | - | 0.3 | 21.8 | 23.1 | - | - | 32.8 | 4.8 |
| 16 | MCH-38 CHECKS | 43 | 2.4 | 37.6 | 8.1 | 4.6 | 0.8 | 16.9 | - | 29.1 | - | - | 30.6 | 13.6 |
| 17 | BIO-9681 | - | 2.7 | - | - | - | 18.8 | 5.3 | - | - | 6.2 | - | - | - |
| 18 | SEEDTEC-2324 | 29.2 | - | 29.1 | 4.8 | 17.3 | - | - | - | 28.1 | 37.4 | - | 22.4 | 2.6 |
| 19 | HQPM-1 | - | - | - | - | - | 32.1 | - | 9.4 | - | 46.9 | - | - | - |
| 20 | HQPM-7 | 25.9 | - | 5.6 | - | - | - | - | - | - | - | - | - | - |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | DAYS TO 50% POLLEN SHED | | | | | | | BANG ADVA | BANG JKAG | BANG GANG | Zone Mean |
|----------|--------------|--|--------------|-------------------------|------|------|------|------|------|------|--------------|--------------|--------------|--------------|
| | | BANG GANG | ZN 4 MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | | | |
| 1 | BH-417135 | - | 20.7 | 58.3 | 58.0 | 54.0 | 61.3 | 54.3 | 58.0 | 61.0 | 60.7 | 53.3 | 57.7 | |
| 2 | BH-407138 | - | 4.9 | 55.0 | 54.0 | 50.0 | 58.3 | 51.7 | 50.7 | 58.0 | 57.7 | 51.0 | 54.0 | |
| 3 | X7B401 | 10.2 | 22.7 | 57.3 | 55.3 | 49.7 | 60.3 | 51.3 | 57.3 | 57.3 | 58.7 | 49.3 | 55.2 | |
| 4 | X7B403 | 25.5 | 25.2 | 56.0 | 57.3 | 49.7 | 59.3 | 50.7 | 54.3 | 60.0 | 59.0 | 48.7 | 55.0 | |
| 5 | LAXMI-9495 | 24.1 | 24.7 | 59.3 | 57.7 | 53.7 | 61.3 | 54.0 | 57.3 | 61.3 | 61.0 | 53.7 | 57.7 | |
| 6 | GK-3059 | 23.4 | 29.5 | 56.7 | 56.3 | 53.3 | 59.3 | 52.0 | 56.0 | 59.0 | 58.7 | 51.7 | 55.9 | |
| 7 | PAC-745 | 11.2 | 42.4 | 56.3 | 55.0 | 50.7 | 59.7 | 51.0 | 56.3 | 57.3 | 58.3 | 48.3 | 54.8 | |
| 8 | PHS-520247 | 4 | 19.2 | 58.7 | 57.7 | 54.0 | 60.7 | 53.0 | 58.3 | 60.7 | 63.0 | 52.7 | 57.6 | |
| 9 | PFMH-9737 | 22.5 | 47.5 | 57.3 | 55.0 | 51.0 | 60.0 | 51.0 | 57.3 | 57.7 | 58.0 | 50.7 | 55.3 | |
| 10 | JKMH-8003 | 4.5 | 33.6 | 55.3 | 55.0 | 48.0 | 57.3 | 50.3 | 54.7 | 56.7 | 58.7 | 49.7 | 54.0 | |
| 11 | BISCO-4564 | 25.9 | 10.2 | 54.7 | 55.3 | 49.3 | 59.7 | 50.0 | 52.0 | 56.7 | 58.3 | 49.0 | 53.9 | |
| 12 | KMH-3669 | 20.9 | 26.1 | 57.3 | 55.7 | 50.7 | 61.3 | 52.3 | 54.0 | 60.3 | 61.0 | 50.7 | 55.9 | |
| 13 | KMHSUPER-244 | 21.9 | 54.5 | 55.3 | 57.3 | 51.3 | 58.0 | 52.7 | 57.3 | 56.7 | 58.7 | 47.3 | 55.0 | |
| 14 | BL-2801 | 1.9 | 15.1 | 58.3 | 55.0 | 53.0 | 60.0 | 52.0 | 56.7 | 59.0 | 59.7 | 51.0 | 56.1 | |
| 15 | HTCH-5401 | 10.8 | 32.4 | 59.7 | 60.7 | 55.7 | 61.3 | 54.3 | 57.7 | 60.7 | 61.7 | 56.3 | 58.7 | |
| 16 | MCH-38 | 24.2 | 30.3 | 57.0 | 55.0 | 52.3 | 59.3 | 52.3 | 58.0 | 59.0 | 58.0 | 49.3 | 55.6 | |
| CHECKS | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 24.5 | - | 54.0 | 53.7 | 48.3 | 57.0 | 49.7 | 49.0 | 55.3 | 57.0 | 49.0 | 52.6 | |
| 18 | SEEDTEC-2324 | 10.4 | 22.3 | 57.7 | 57.3 | 51.0 | 59.3 | 50.3 | 54.3 | 56.7 | 59.0 | 51.3 | 55.2 | |
| 19 | HQPM-1 | 21.3 | - | 55.7 | 56.3 | 52.0 | 60.3 | 52.3 | 54.0 | 59.0 | 59.0 | 50.7 | 55.5 | |
| 20 | HQPM-7 | - | - | 55.7 | 56.0 | 50.7 | 60.0 | 52.0 | 54.7 | 61.0 | 59.0 | 51.0 | 55.6 | |
| | Loc. Mean | | | 56.8 | 56.2 | 51.4 | 59.7 | 51.9 | 55.4 | 58.7 | 59.3 | 50.7 | 55.6 | |
| | C.D. (5%) | | | 1.26 | 3.30 | 2.15 | 1.86 | 1.81 | 0.79 | 1.66 | 1.21 | 1.07 | 1.03 | |
| | C.V. (%) | | | 1.35 | 3.55 | 2.54 | 1.88 | 2.11 | 0.86 | 1.71 | 1.24 | 1.28 | 2.00 | |
| | F (Prob.) | | | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | Zone Mean | DAYS TO 75% DRY HUSK | | |
|----------|--------------|---------------------|------|------|------|------|------|--------------|--------------|--------------|--------------|----------------------|-------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG ADVA | BANG JKAG | BANG GANG | | ARBH | HYDE | KARI |
| 1 | BH-417135 | 59.3 | 60.3 | 55.7 | 62.3 | 56.3 | 60.0 | 63.0 | 61.7 | 55.3 | 59.3 | 95.7 | 100.7 | 76.3 |
| 2 | BH-407138 | 56.3 | 56.3 | 52.0 | 59.3 | 53.7 | 52.3 | 60.0 | 58.0 | 53.0 | 55.7 | 94.3 | 98.7 | 74.7 |
| 3 | X7B401 | 58.3 | 58.3 | 51.7 | 61.3 | 53.3 | 59.3 | 60.0 | 59.3 | 51.3 | 57.0 | 97.0 | 102.3 | 75.7 |
| 4 | X7B403 | 57.3 | 59.7 | 51.7 | 60.3 | 52.7 | 56.3 | 61.3 | 60.3 | 50.3 | 56.7 | 95.3 | 101.7 | 75.0 |
| 5 | LAXMI-9495 | 60.3 | 59.7 | 56.0 | 62.3 | 56.0 | 59.3 | 63.7 | 62.0 | 55.3 | 59.4 | 96.0 | 101.7 | 76.0 |
| 6 | GK-3059 | 58.3 | 58.0 | 55.3 | 60.3 | 54.0 | 58.0 | 61.7 | 60.7 | 53.7 | 57.8 | 96.7 | 100.0 | 76.7 |
| 7 | PAC-745 | 57.7 | 58.0 | 52.7 | 60.7 | 53.3 | 58.7 | 59.3 | 58.3 | 50.3 | 56.6 | 94.0 | 101.0 | 75.3 |
| 8 | PHS-520247 | 59.7 | 59.7 | 55.7 | 61.7 | 55.0 | 60.3 | 63.0 | 62.0 | 54.7 | 59.1 | 96.0 | 101.7 | 76.0 |
| 9 | PFMH-9737 | 58.3 | 58.3 | 53.3 | 61.0 | 52.7 | 59.3 | 61.0 | 59.3 | 52.7 | 57.3 | 97.0 | 101.7 | 75.7 |
| 10 | JKMH-8003 | 56.3 | 58.7 | 50.0 | 58.3 | 52.3 | 56.7 | 58.7 | 58.7 | 51.3 | 55.7 | 93.3 | 102.7 | 75.0 |
| 11 | BISCO-4564 | 56.3 | 57.7 | 51.7 | 60.7 | 52.0 | 54.0 | 59.3 | 59.3 | 50.3 | 55.7 | 96.0 | 101.7 | 75.3 |
| 12 | KMH-3669 | 59.0 | 58.3 | 53.0 | 62.3 | 54.0 | 56.0 | 63.0 | 61.3 | 52.3 | 57.7 | 96.7 | 103.3 | 75.7 |
| 13 | KMHSUPER-244 | 57.0 | 57.0 | 53.7 | 59.0 | 54.7 | 59.3 | 58.3 | 58.7 | 49.3 | 56.3 | 96.0 | 102.0 | 75.7 |
| 14 | BL-2801 | 59.0 | 57.3 | 55.7 | 61.0 | 54.0 | 58.7 | 62.0 | 61.7 | 53.0 | 58.0 | 95.7 | 102.3 | 76.3 |
| 15 | HTCH-5401 | 60.7 | 59.7 | 57.7 | 62.3 | 56.3 | 59.7 | 62.7 | 63.0 | 58.3 | 60.0 | 97.0 | 104.7 | 76.7 |
| 16 | MCH-38 | 58.3 | 57.3 | 53.7 | 60.3 | 54.3 | 60.3 | 61.7 | 59.0 | 51.0 | 57.3 | 97.0 | 102.7 | 75.7 |
| CHECKS | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 55.7 | 56.0 | 50.7 | 58.0 | 51.7 | 51.3 | 58.0 | 57.0 | 50.3 | 54.3 | 91.3 | 101.0 | 74.7 |
| 18 | SEEDTEC-2324 | 59.0 | 57.7 | 52.7 | 60.3 | 52.0 | 56.3 | 59.0 | 61.0 | 53.3 | 56.8 | 96.3 | 102.7 | 76.0 |
| 19 | HQPM-1 | 57.3 | 58.3 | 54.7 | 61.3 | 53.7 | 56.0 | 61.0 | 60.3 | 52.7 | 57.3 | 97.3 | 103.3 | 77.0 |
| 20 | HQPM-7 | 57.3 | 58.0 | 53.3 | 61.0 | 54.0 | 56.7 | 63.3 | 60.3 | 53.0 | 57.4 | 97.3 | 103.0 | 76.3 |
| | Loc. Mean | 58.1 | 58.2 | 53.5 | 60.7 | 53.8 | 57.4 | 61.0 | 60.1 | 52.6 | 57.3 | 95.8 | 101.9 | 75.8 |
| | C.D. (5%) | 1.20 | 1.64 | 2.32 | 1.86 | 1.71 | 0.84 | 1.53 | 1.28 | 1.14 | 1.02 | 2.08 | 1.81 | 1.39 |
| | C.V. (%) | 1.25 | 1.70 | 2.62 | 1.85 | 1.93 | 0.89 | 1.52 | 1.29 | 1.31 | 1.92 | 1.31 | 1.07 | 1.11 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | Zone Mean | MOISTURE % AT HARVEST | | | | | | |
|----------|--------------|----------------------|------|-------|--------------|--------------|--------------|-----------------------|------|------|------|------|------|--------------|
| | | KOLH | MAND | COIM | BANG ADVA | BANG JKAG | | ARBH | HYDE | KARI | KOLH | MAND | COIM | BANG POCB |
| 1 | BH-417135 | 105.0 | 98.0 | 110.0 | 105.3 | 110.7 | 100.2 | 26.0 | 30.9 | 12.0 | 14.1 | 17.7 | 19.7 | 23.2 |
| 2 | BH-407138 | 102.0 | 95.7 | 105.0 | 107.0 | 110.0 | 98.4 | 27.2 | 30.4 | 12.0 | 13.2 | 18.9 | 18.0 | 24.3 |
| 3 | X7B401 | 104.0 | 92.3 | 110.0 | 106.0 | 110.7 | 99.8 | 27.1 | 31.0 | 12.3 | 11.9 | 17.3 | 19.5 | 23.9 |
| 4 | X7B403 | 102.3 | 97.0 | 108.0 | 109.7 | 114.0 | 100.4 | 28.0 | 30.6 | 12.0 | 13.2 | 17.0 | 19.2 | 23.9 |
| 5 | LAXMI-9495 | 104.7 | 97.3 | 110.0 | 106.0 | 111.3 | 100.4 | 26.6 | 27.9 | 13.0 | 13.3 | 17.9 | 20.0 | 23.9 |
| 6 | GK-3059 | 102.7 | 97.0 | 110.0 | 105.7 | 110.7 | 99.9 | 32.7 | 28.7 | 13.0 | 13.0 | 18.0 | 20.2 | 24.6 |
| 7 | PAC-745 | 102.7 | 89.7 | 110.0 | 102.0 | 108.0 | 97.8 | 26.8 | 29.4 | 12.0 | 13.1 | 16.9 | 18.5 | 25.3 |
| 8 | PHS-520247 | 104.0 | 93.0 | 112.0 | 104.3 | 110.7 | 99.7 | 30.8 | 32.5 | 11.7 | 12.8 | 18.5 | 19.7 | 26.6 |
| 9 | PFMH-9737 | 103.0 | 96.7 | 110.0 | 110.0 | 111.0 | 100.6 | 24.1 | 29.1 | 11.7 | 12.9 | 18.3 | 19.3 | 27.1 |
| 10 | JKMH-8003 | 100.7 | 92.7 | 108.0 | 105.3 | 110.7 | 98.5 | 28.1 | 31.0 | 12.7 | 12.9 | 18.1 | 19.9 | 23.1 |
| 11 | BISCO-4564 | 102.7 | 96.0 | 105.3 | 107.0 | 110.7 | 99.3 | 27.1 | 29.3 | 12.7 | 12.0 | 18.1 | 18.3 | 25.4 |
| 12 | KMH-3669 | 104.7 | 95.3 | 108.0 | 109.7 | 112.3 | 100.7 | 30.1 | 25.5 | 13.3 | 12.9 | 18.0 | 18.9 | 24.3 |
| 13 | KMHSUPER-244 | 101.3 | 97.0 | 110.0 | 105.0 | 110.3 | 99.7 | 31.1 | 29.7 | 11.0 | 11.9 | 16.3 | 19.0 | 24.4 |
| 14 | BL-2801 | 103.3 | 95.7 | 110.0 | 109.0 | 114.0 | 100.8 | 27.7 | 28.2 | 12.0 | 12.2 | 17.5 | 22.1 | 25.2 |
| 15 | HTCH-5401 | 104.7 | 98.7 | 110.0 | 109.3 | 111.3 | 101.5 | 25.8 | 31.2 | 12.3 | 13.1 | 17.8 | 21.7 | 25.3 |
| 16 | MCH-38 | 102.7 | 97.3 | 110.0 | 110.0 | 114.7 | 101.3 | 29.8 | 29.0 | 11.3 | 11.9 | 18.6 | 20.6 | 24.5 |
| CHECKS | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 100.0 | 92.3 | 105.0 | 100.0 | 109.0 | 96.7 | 27.2 | 30.1 | 12.0 | 12.2 | 16.1 | 17.5 | 25.2 |
| 18 | SEEDTEC-2324 | 102.7 | 91.3 | 108.0 | 104.7 | 108.0 | 98.7 | 28.0 | 28.8 | 12.3 | 13.3 | 17.9 | 18.8 | 25.2 |
| 19 | HQPM-1 | 103.7 | 98.0 | 108.0 | 109.0 | 112.3 | 101.1 | 27.3 | 32.5 | 11.0 | 13.2 | 17.9 | 20.3 | 24.6 |
| 20 | HQPM-7 | 103.3 | 98.0 | 108.0 | 106.0 | 116.0 | 101.0 | 31.6 | 33.2 | 11.3 | 12.9 | 17.1 | 18.2 | 24.5 |
| | Loc. Mean | 103.0 | 95.5 | 108.8 | 106.6 | 111.3 | 99.8 | 28.1 | 29.9 | 12.1 | 12.8 | 17.7 | 19.5 | 24.7 |
| | C.D. (5%) | 2.24 | 2.45 | 0.21 | 3.05 | 3.58 | 1.49 | 4.22 | 3.23 | 1.09 | 0.65 | 0.62 | 0.51 | 1.88 |
| | C.V. (%) | 1.32 | 1.55 | 0.12 | 1.73 | 1.94 | 1.51 | 9.06 | 6.54 | 5.46 | 3.07 | 2.13 | 1.58 | 4.59 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | PLANT HEIGHT (cm) | | | | | | BANG ADVA | BANG JKAG | BANG GANG | Zone Mean |
|----------|--------------|-----------------------|--------------|--------------|--------------|-------------------|-------|------|-------|-------|------|--------------|--------------|--------------|--------------|
| | | BANG ADVA | BANG JKAG | BANG GANG | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | | |
| 1 | BH-417135 | 25.8 | 22.0 | 15.4 | 20.7 | 169 | 206 | 213 | 218 | 193 | 192 | 223 | 273 | 259 | 216 |
| 2 | BH-407138 | 22.9 | 22.5 | 15.2 | 20.5 | 185 | 215 | 215 | 215 | 172 | 202 | 225 | 280 | 264 | 219 |
| 3 | X7B401 | 25.4 | 21.8 | 15.6 | 20.6 | 217 | 241 | 228 | 230 | 192 | 229 | 253 | 307 | 227 | 236 |
| 4 | X7B403 | 26.8 | 22.6 | 16.5 | 21.0 | 205 | 238 | 222 | 215 | 205 | 219 | 245 | 280 | 260 | 232 |
| 5 | LAXMI-9495 | 26.0 | 21.8 | 16.3 | 20.7 | 202 | 236 | 235 | 207 | 197 | 212 | 217 | 275 | 229 | 223 |
| 6 | GK-3059 | 26.2 | 22.1 | 16.7 | 21.5 | 212 | 238 | 229 | 218 | 202 | 217 | 242 | 287 | 233 | 231 |
| 7 | PAC-745 | 25.2 | 21.3 | 15.4 | 20.4 | 197 | 228 | 211 | 198 | 195 | 221 | 237 | 282 | 216 | 221 |
| 8 | PHS-520247 | 22.7 | 22.1 | 15.3 | 21.3 | 208 | 258 | 235 | 227 | 207 | 221 | 232 | 272 | 265 | 236 |
| 9 | PFMH-9737 | 22.0 | 20.9 | 15.8 | 20.1 | 208 | 241 | 227 | 203 | 212 | 211 | 237 | 317 | 227 | 231 |
| 10 | JKMH-8003 | 24.2 | 23.1 | 15.5 | 20.9 | 170 | 216 | 195 | 202 | 200 | 188 | 210 | 280 | 223 | 209 |
| 11 | BISCO-4564 | 24.5 | 20.5 | 16.0 | 20.4 | 201 | 233 | 214 | 212 | 202 | 211 | 217 | 287 | 257 | 226 |
| 12 | KMH-3669 | 22.5 | 21.0 | 15.5 | 20.2 | 215 | 245 | 234 | 207 | 198 | 213 | 242 | 298 | 222 | 231 |
| 13 | KMHSUPER-244 | 23.5 | 22.9 | 15.8 | 20.5 | 189 | 237 | 218 | 197 | 217 | 214 | 232 | 270 | 234 | 223 |
| 14 | BL-2801 | 25.8 | 22.5 | 16.3 | 20.9 | 197 | 248 | 209 | 223 | 187 | 206 | 222 | 292 | 263 | 227 |
| 15 | HTCH-5401 | 24.4 | 20.8 | 16.2 | 20.9 | 203 | 249 | 220 | 208 | 163 | 198 | 230 | 280 | 281 | 226 |
| 16 | MCH-38 | 25.8 | 23.4 | 16.8 | 21.2 | 197 | 243 | 215 | 218 | 198 | 202 | 242 | 257 | 257 | 225 |
| CHECKS | | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 22.4 | 20.2 | 16.0 | 19.9 | 174 | 225 | 210 | 207 | 202 | 192 | 212 | 267 | 287 | 219 |
| 18 | SEEDTEC-2324 | 23.8 | 22.0 | 15.2 | 20.5 | 175 | 209 | 214 | 220 | 205 | 187 | 208 | 273 | 255 | 216 |
| 19 | HQPM-1 | 26.7 | 22.5 | 16.2 | 21.2 | 183 | 211 | 210 | 213 | 202 | 192 | 208 | 267 | 243 | 214 |
| 20 | HQPM-7 | 20.9 | 20.9 | 15.3 | 20.6 | 204 | 250 | 228 | 222 | 212 | 224 | 227 | 277 | 274 | 235 |
| | Loc. Mean | 24.4 | 21.9 | 15.8 | 20.7 | 195 | 233 | 219 | 213 | 198 | 208 | 228 | 281 | 249 | 225 |
| | C.D. (5%) | 5.09 | 2.01 | 1.18 | 1.10 | 8.95 | 12.89 | 7.51 | 29.08 | 33.65 | 6.08 | 17.15 | 32.35 | 11.44 | 11.75 |
| | C.V. (%) | 12.62 | 5.58 | 4.49 | 6.03 | 2.77 | 3.34 | 2.07 | 8.26 | 10.29 | 1.77 | 4.55 | 6.97 | 2.78 | 5.61 |
| | F (Prob.) | 0.55 | 0.10 | 0.13 | 0.36 | 0.00 | 0.00 | 0.00 | 0.65 | 0.34 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 |

TABLE No. 7 (Cont..)

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

TABLE No. 7 (Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | | | | | BANG POCB | BANG ADVA | BANG JKAG | BANG GANG | Zone Mean |
|----------|--------------|------------------|--------------|--------------|----------------------------|------|------|------|------|------|--------------|--------------|--------------|--------------|--------------|
| | | COIM | BANG ADVA | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | | | |
| 1 | BH-417135 | 73.1 | 79.6 | 76.1 | 57.5 | 56.4 | 63.1 | 64.2 | 56.8 | 66.0 | 75.0 | 65.6 | 62.2 | 74.2 | 64.1 |
| 2 | BH-407138 | 75.9 | 77.4 | 79.3 | 50.3 | 50.6 | 61.7 | 62.5 | 55.7 | 66.0 | 70.8 | 63.5 | 59.3 | 77.5 | 61.8 |
| 3 | X7B401 | 82.9 | 78.7 | 80.9 | 61.4 | 61.1 | 61.1 | 63.6 | 57.4 | 66.3 | 77.1 | 68.8 | 66.0 | 77.5 | 66.0 |
| 4 | X7B403 | 83.4 | 77.9 | 82.8 | 60.6 | 58.6 | 60.6 | 63.6 | 58.3 | 66.0 | 81.9 | 68.4 | 64.4 | 78.3 | 66.1 |
| 5 | LAXMI-9495 | 74.8 | 76.4 | 78.5 | 56.1 | 47.5 | 64.2 | 61.7 | 51.5 | 66.3 | 66.0 | 67.4 | 54.2 | 78.3 | 61.3 |
| 6 | GK-3059 | 82.0 | 79.3 | 81.1 | 62.2 | 56.4 | 61.4 | 60.8 | 56.5 | 66.0 | 65.3 | 67.4 | 63.5 | 78.3 | 63.8 |
| 7 | PAC-745 | 78.7 | 80.0 | 77.7 | 63.6 | 53.3 | 60.6 | 59.4 | 57.1 | 66.3 | 75.7 | 68.4 | 66.0 | 76.7 | 64.7 |
| 8 | PHS-520247 | 79.1 | 79.6 | 79.3 | 46.7 | 54.4 | 62.2 | 64.7 | 57.1 | 66.0 | 67.4 | 58.3 | 57.1 | 78.8 | 61.3 |
| 9 | PFMH-9737 | 80.5 | 78.7 | 80.7 | 63.6 | 57.5 | 60.3 | 59.4 | 56.3 | 66.0 | 72.2 | 67.4 | 66.3 | 78.3 | 64.7 |
| 10 | JKMH-8003 | 79.8 | 77.5 | 78.5 | 64.2 | 51.1 | 60.8 | 63.9 | 55.7 | 66.3 | 75.0 | 68.8 | 65.4 | 76.7 | 64.8 |
| 11 | BISCO-4564 | 79.6 | 79.0 | 79.3 | 55.3 | 57.2 | 60.3 | 60.8 | 58.9 | 66.3 | 55.6 | 69.1 | 58.3 | 78.3 | 62.0 |
| 12 | KMH-3669 | 80.2 | 77.8 | 78.1 | 58.3 | 54.2 | 62.5 | 58.9 | 58.6 | 66.3 | 80.6 | 66.3 | 58.0 | 78.3 | 64.2 |
| 13 | KMHSUPER-244 | 78.4 | 79.5 | 78.7 | 61.9 | 61.7 | 59.7 | 64.7 | 57.7 | 66.3 | 67.4 | 67.4 | 65.7 | 77.5 | 65.0 |
| 14 | BL-2801 | 80.2 | 76.6 | 78.6 | 60.3 | 57.2 | 60.8 | 60.3 | 57.7 | 66.3 | 76.4 | 69.1 | 66.0 | 77.5 | 65.2 |
| 15 | HTCH-5401 | 80.3 | 78.5 | 80.8 | 61.1 | 57.8 | 60.6 | 63.6 | 56.3 | 66.7 | 68.1 | 68.4 | 64.4 | 76.7 | 64.4 |
| 16 | MCH-38 | 80.1 | 78.6 | 80.0 | 60.6 | 53.3 | 60.8 | 60.6 | 59.5 | 66.3 | 72.9 | 68.4 | 65.7 | 78.3 | 64.6 |
| CHECKS | | | | | | | | | | | | | | | |
| 17 | BIO-9681 | 81.0 | 77.1 | 80.1 | 60.8 | 57.5 | 62.8 | 62.2 | 57.7 | 66.0 | 69.4 | 69.1 | 54.2 | 80.0 | 64.0 |
| 18 | SEEDTEC-2324 | 82.1 | 78.3 | 81.9 | 62.5 | 55.6 | 62.2 | 56.7 | 57.1 | 65.6 | 68.8 | 67.7 | 63.5 | 77.9 | 63.8 |
| 19 | HQPM-1 | 80.2 | 78.1 | 80.6 | 56.7 | 60.0 | 62.8 | 63.3 | 56.8 | 66.3 | 72.9 | 69.1 | 65.1 | 78.3 | 65.1 |
| 20 | HQPM-7 | 78.7 | 77.0 | 77.9 | 60.6 | 55.3 | 61.1 | 63.9 | 55.1 | 66.7 | 73.6 | 68.4 | 63.5 | 77.5 | 64.6 |
| | Loc. Mean | 79.5 | 78.3 | 79.6 | 59.2 | 55.8 | 61.5 | 61.9 | 56.9 | 66.2 | 71.6 | 67.3 | 62.4 | 77.8 | 64.1 |
| | C.D. (5%) | 1.2 | 4.7 | 3.0 | 7.1 | 5.6 | 3.1 | 8.4 | 5.0 | 1.0 | 15.8 | 3.8 | 3.8 | 3.2 | 2.7 |
| | C.V. (%) | 0.9 | 3.6 | 3.5 | 7.3 | 6.0 | 3.0 | 8.2 | 5.3 | 0.9 | 13.3 | 3.4 | 3.7 | 2.5 | 4.7 |
| | F (Prob.) | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.33 | 0.89 | 0.52 | 0.92 | 0.32 | 0.00 | 0.00 | 0.40 | 0.00 |

TABLE No. 8

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 1st YEAR, TRIAL No. TR65Z5 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|--------------|----|--|----|------|------|------|--------------|--------------|
| | | UDAI | R | BANS | R | CHHI | R | ZN 5 MEAN | R | RAIN GODH | R | UDAI | BANS | CHHI | ZN 5 MEAN | ZN 5 GODH |
| 1 | BH-407138 | 5696 | 11 | 5682 | 9 | 5374 | 8 | 5584 | 11 | 5019 | 7 | - | - | 20 | - | 29 |
| 2 | X 7B401 | 6274 | 7 | 7914 | 1 | 4873 | 10 | 6354 | 5 | 5379 | 6 | - | 28.6 | 8.9 | 10 | 38.2 |
| 3 | X 7B403 | 4616 | 14 | 5868 | 8 | 4943 | 9 | 5142 | 14 | 5446 | 5 | - | - | 10.4 | - | 39.9 |
| 4 | GK-3059 | 5004 | 13 | 6724 | 5 | 5490 | 6 | 5739 | 9 | 4764 | 10 | - | 9.2 | 22.6 | - | 22.4 |
| 5 | PAC-745 | 7664 | 2 | 7670 | 2 | 5438 | 7 | 6924 | 1 | 3588 | 14 | 14.5 | 24.6 | 21.5 | 19.9 | - |
| 6 | PHS-520247 | 6190 | 8 | 7478 | 4 | 6378 | 4 | 6682 | 2 | 4046 | 12 | - | 21.5 | 42.5 | 15.7 | 4 |
| 7 | SMH-4502 | 6019 | 9 | 5108 | 13 | 6486 | 2 | 5871 | 6 | 4765 | 9 | - | - | 44.9 | 1.6 | 22.4 |
| 8 | KMH-3669 | 5869 | 10 | 7549 | 3 | 5748 | 5 | 6388 | 4 | 5637 | 3 | - | 22.6 | 28.4 | 10.6 | 44.9 |
| 9 | KMH SUPER-244 | 6915 | 3 | 5224 | 12 | 7532 | 1 | 6557 | 3 | 5658 | 2 | 3.3 | - | 68.2 | 13.5 | 45.4 |
| 10 | MCH-38 | 5210 | 12 | 5274 | 11 | 6402 | 3 | 5629 | 10 | 5686 | 1 | - | - | 43 | - | 46.1 |
| CHECKS | | | | | | | | | | | | | | | | |
| 11 | BIO-9681 | 6695 | 4 | 6156 | 7 | 4477 | 12 | 5776 | 8 | 3892 | 13 | - | - | - | - | - |
| 12 | SEEDTEC-2324 | 6482 | 6 | 4778 | 14 | 4831 | 11 | 5364 | 13 | 5449 | 4 | - | - | 7.9 | - | 40 |
| 13 | HQPM-1 | 7675 | 1 | 5393 | 10 | 3597 | 14 | 5555 | 12 | 4836 | 8 | 14.6 | - | - | - | 24.3 |
| 14 | HQPM-7 | 6686 | 5 | 6444 | 6 | 4243 | 13 | 5791 | 7 | 4097 | 11 | - | 4.7 | - | 0.3 | 5.3 |
| | Location Mean | 6214 | | 6233 | | 5415 | | 5954 | | 4876 | | | | | | |
| | Mean Stand | 66 | | 62 | | 77 | | 68 | | 72 | | | | | | |
| | C.D. (5%) | 534 | | 361 | | 869 | | 588 | | 803 | | | | | | |
| | C.V. (%) | 5.11 | | 3.44 | | 9.54 | | - | | 9.79 | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | | | | | |
| | Plot Size | 9.6 | | 9.6 | | 12 | | - | | 9.6 | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 8-07 | | 14-07 | | - | | 13-07 | | | | | | |
| | Harvest Date | 4-10 | | 26-10 | | 9-11 | | - | | 8-10 | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | - | | | | | | |
| | Fertilizer Applied N | 90 | | 120 | | 120 | | - | | 100 | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 60 | | - | | 50 | | | | | | |
| | Fertilizer Applied K | - | | - | | 40 | | - | | 50 | | | | | | |

TABLE No. 8 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | |
|--------|---------------|---|------|------|-----------|-----------|---|------|-------|-----------|-----------|---|-------|-------|-----------|-----------|
| | | UDAI | BANS | CHHI | ZN 5 MEAN | ZN 5 GODH | UDAI | BANS | CHHI | ZN 5 MEAN | ZN 5 GODH | UDAI | BANS | CHHI | ZN 5 MEAN | ZN 5 GODH |
| 1 | BH-407138 | - | 18.9 | 11.3 | 4.1 | - | - | 5.4 | 49.4 | 0.5 | 3.8 | - | - | 26.7 | - | 22.5 |
| 2 | X 7B401 | - | 65.6 | 0.9 | 18.5 | - | - | 46.8 | 35.5 | 14.4 | 11.2 | - | 22.8 | 14.9 | 9.7 | 31.3 |
| 3 | X 7B403 | - | 22.8 | 2.3 | - | - | - | 8.8 | 37.4 | - | 12.6 | - | - | 16.5 | - | 32.9 |
| 4 | GK-3059 | - | 40.7 | 13.7 | 7 | - | - | 24.7 | 52.6 | 3.3 | - | - | 4.3 | 29.4 | - | 16.3 |
| 5 | PAC-745 | 18.2 | 60.5 | 12.6 | 29.1 | - | - | 42.2 | 51.2 | 24.6 | - | 14.6 | 19 | 28.2 | 19.6 | - |
| 6 | PHS-520247 | - | 56.5 | 32 | 24.6 | - | - | 38.7 | 77.3 | 20.3 | - | - | 16 | 50.3 | 15.4 | - |
| 7 | SMH-4502 | - | 6.9 | 34.3 | 9.5 | - | - | - | 80.3 | 5.7 | - | - | - | 52.9 | 1.4 | 16.3 |
| 8 | KMH-3669 | - | 58 | 19 | 19.1 | 3.5 | - | 40 | 59.8 | 15 | 16.6 | - | 17.1 | 35.5 | 10.3 | 37.6 |
| 9 | KMH SUPER-244 | 6.7 | 9.3 | 55.9 | 22.2 | 3.8 | - | - | 109.4 | 18 | 17 | 3.4 | - | 77.5 | 13.2 | 38.1 |
| 10 | MCH-38 | - | 10.4 | 32.5 | 4.9 | 4.4 | - | - | 78 | 1.3 | 17.6 | - | - | 50.9 | - | 38.8 |
| CHECKS | | | | | | | | | | | | | | | | |
| 11 | BIO-9681 | 3.3 | 28.8 | - | 7.7 | - | - | 14.2 | 24.5 | 4 | - | 0.1 | - | 5.5 | - | - |
| 12 | SEEDTEC-2324 | - | - | - | - | - | - | - | 34.3 | - | 12.7 | - | - | 13.9 | - | 33 |
| 13 | HQPM-1 | 18.4 | 12.9 | - | 3.6 | - | - | - | - | - | - | 14.8 | - | - | - | 18 |
| 14 | HQPM-7 | 3.2 | 34.9 | - | 8 | - | - | 19.5 | 17.9 | 4.2 | - | - | - | - | - | - |
| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | |
| | | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 | BH-407138 | 53.0 | 54.3 | 56.0 | 54.4 | 50.3 | 55.3 | 57.3 | 56.7 | 56.4 | 52.0 | 90.0 | 91.3 | 93.0 | 91.4 | 78.0 |
| 2 | X 7B401 | 54.7 | 51.0 | 54.3 | 53.3 | 52.3 | 56.7 | 54.0 | 56.3 | 55.7 | 53.0 | 88.0 | 87.3 | 92.0 | 89.1 | 78.3 |
| 3 | X 7B403 | 54.7 | 51.3 | 53.7 | 53.2 | 52.0 | 57.0 | 55.0 | 55.7 | 55.9 | 52.0 | 91.0 | 87.7 | 92.3 | 90.3 | 77.7 |
| 4 | GK-3059 | 55.3 | 52.0 | 55.3 | 54.2 | 53.3 | 57.3 | 55.7 | 56.7 | 56.6 | 54.3 | 91.3 | 87.0 | 96.3 | 91.6 | 78.3 |
| 5 | PAC-745 | 53.3 | 53.3 | 56.3 | 54.3 | 53.3 | 55.3 | 56.3 | 57.7 | 56.4 | 55.7 | 89.0 | 89.3 | 89.7 | 89.3 | 78.0 |
| 6 | PHS-520247 | 56.7 | 52.7 | 57.7 | 55.7 | 56.3 | 59.3 | 56.0 | 58.7 | 58.0 | 56.3 | 92.3 | 90.3 | 95.3 | 92.7 | 77.7 |
| 7 | SMH-4502 | 56.7 | 58.0 | 57.7 | 57.4 | 55.3 | 58.7 | 61.0 | 59.0 | 59.6 | 55.0 | 92.3 | 93.7 | 97.7 | 94.6 | 80.7 |
| 8 | KMH-3669 | 54.7 | 52.3 | 55.3 | 54.1 | 52.0 | 56.7 | 55.3 | 56.0 | 56.0 | 52.7 | 91.0 | 89.3 | 92.7 | 91.0 | 78.0 |
| 9 | KMH SUPER-244 | 53.3 | 54.7 | 53.7 | 53.9 | 51.7 | 56.0 | 58.0 | 55.7 | 56.6 | 52.7 | 90.0 | 91.3 | 95.7 | 92.3 | 76.3 |
| 10 | MCH-38 | 55.3 | 51.7 | 56.3 | 54.4 | 53.7 | 57.3 | 55.0 | 58.0 | 56.8 | 53.7 | 91.0 | 88.0 | 95.0 | 91.3 | 79.3 |
| CHECKS | | | | | | | | | | | | | | | | |
| 11 | BIO-9681 | 52.3 | 51.3 | 53.0 | 52.2 | 49.3 | 54.3 | 54.3 | 54.7 | 54.4 | 53.3 | 87.0 | 87.3 | 89.7 | 88.0 | 75.3 |
| 12 | SEEDTEC-2324 | 57.3 | 52.3 | 55.7 | 55.1 | 51.7 | 59.3 | 55.3 | 56.7 | 57.1 | 53.7 | 92.0 | 89.7 | 92.7 | 91.4 | 78.3 |
| 13 | HQPM-1 | 55.0 | 54.3 | 57.3 | 55.6 | 51.3 | 57.3 | 57.3 | 57.7 | 57.4 | 53.0 | 89.0 | 89.0 | 96.0 | 91.3 | 81.3 |
| 14 | HQPM-7 | 54.0 | 52.0 | 55.3 | 53.8 | 52.0 | 56.3 | 55.7 | 57.0 | 56.3 | 52.7 | 87.7 | 90.3 | 95.3 | 91.1 | 77.3 |
| | Loc. Mean | 54.7 | 53.0 | 55.5 | 54.4 | 52.5 | 56.9 | 56.2 | 56.9 | 56.7 | 53.6 | 90.12 | 89.40 | 93.81 | 91.11 | 78.2 |
| | C.D. (5%) | 0.97 | 1.62 | 1.38 | 2.10 | 1.29 | 1.01 | 1.82 | 1.41 | 1.95 | 1.32 | 1.79 | 2.15 | 1.50 | 2.64 | 2.51 |
| | C.V. (%) | 1.06 | 1.83 | 1.48 | 2.30 | 1.46 | 1.06 | 1.93 | 1.48 | 2.05 | 1.47 | 1.18 | 1.43 | 0.96 | 1.72 | 1.91 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.185 |

TABLE No. 8 (Cont..)

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

TABLE No. 8 (Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | Zone | | STAND AT HARVEST ('000/ha) | | | | |
|----------|---------------|------------------|------|------|------|------|----------------------------|------|------|--------------|------|
| | | UDAI | BANS | CHHI | Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 | BH-407138 | 77.6 | 72.7 | 89.7 | 80.0 | 73.7 | 56 | 61 | 59 | 58 | 63 |
| 2 | X 7B401 | 83.8 | 75.8 | 81.3 | 80.3 | 80.5 | 71 | 66 | 68 | 68 | 80 |
| 3 | X 7B403 | 83.7 | 73.5 | 80.1 | 79.1 | 82.6 | 72 | 64 | 65 | 67 | 88 |
| 4 | GK-3059 | 81.9 | 75.6 | 82.6 | 80.0 | 77.5 | 64 | 64 | 64 | 64 | 70 |
| 5 | PAC-745 | 77.0 | 75.8 | 72.2 | 75.0 | 73.2 | 73 | 65 | 69 | 69 | 81 |
| 6 | PHS-520247 | 76.6 | 77.8 | 80.0 | 78.1 | 72.5 | 68 | 66 | 57 | 64 | 68 |
| 7 | SMH-4502 | 80.0 | 72.8 | 72.0 | 74.9 | 71.7 | 79 | 66 | 64 | 70 | 69 |
| 8 | KMH-3669 | 82.7 | 76.9 | 79.2 | 79.6 | 74.0 | 64 | 66 | 58 | 62 | 66 |
| 9 | KMH SUPER-244 | 81.1 | 66.2 | 82.8 | 76.7 | 76.2 | 81 | 64 | 69 | 71 | 83 |
| 10 | MCH-38 | 82.1 | 68.8 | 83.3 | 78.1 | 80.6 | 67 | 65 | 69 | 67 | 78 |
| | CHECKS | | | | | | | | | | |
| 11 | BIO-9681 | 86.1 | 71.1 | 87.5 | 81.5 | 73.0 | 73 | 65 | 63 | 67 | 75 |
| 12 | SEEDTEC-2324 | 81.0 | 66.5 | 81.8 | 76.4 | 73.0 | 63 | 63 | 61 | 62 | 79 |
| 13 | HQPM-1 | 83.4 | 73.7 | 86.1 | 81.1 | 77.2 | 66 | 63 | 68 | 66 | 73 |
| 14 | HQPM-7 | 81.5 | 73.9 | 79.8 | 78.4 | 76.4 | 69 | 63 | 68 | 66 | 84 |
| | Loc. Mean | 81.3 | 72.9 | 81.3 | 78.5 | 75.9 | 69 | 64 | 64 | 66 | 75 |
| | C.D. (5%) | 4.54 | 2.45 | 1.03 | 6.71 | - | 5.97 | 2.83 | 5.48 | 6.50 | 7.39 |
| | C.V. (%) | 3.33 | 2.00 | 0.75 | 5.09 | - | 5.17 | 2.62 | 5.07 | 5.88 | 5.83 |
| | F (Prob.) | 0.01 | 0.00 | 0.00 | 0.62 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.00 |

TABLE No. 9

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI MEGHALAYA, KANGRA IN AET 1st YEAR, TRIAL No. TR66Z1 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|------|----|---|-------|------|------|---|------|------|-----|
| | | BAJA | | BARA | | KANG | | ZN 1 | | BAJA | | BARA | | KANG | | ZN 1 | |
| 1 | JH-31240 | 9683 | 9 | 2363 | 10 | 5488 | 6 | 5845 | 8 | 44.1 | 74.4 | 22.8 | 39.8 | - | - | - | - |
| 2 | JH-31242 | 11103 | 5 | 3096 | 5 | 4056 | 11 | 6085 | 7 | 65.3 | 128.5 | - | 45.5 | - | 1.9 | - | - |
| 3 | BH-406126 | 8271 | 12 | 2412 | 9 | 5385 | 7 | 5356 | 12 | 23.1 | 78 | 20.5 | 28.1 | - | - | - | - |
| 4 | BH-408005 | 8251 | 13 | 2636 | 8 | 3712 | 14 | 4866 | 13 | 22.8 | 94.6 | - | 16.4 | - | - | - | - |
| 5 | KLM-7 | 9373 | 10 | 1584 | 13 | 6323 | 3 | 5760 | 10 | 39.5 | 16.9 | 41.5 | 37.8 | - | - | - | - |
| 6 | EC-3160 | 9314 | 11 | 3324 | 4 | 5664 | 5 | 6101 | 6 | 38.6 | 145.3 | 26.7 | 45.9 | - | 9.4 | - | - |
| 7 | KH-717 | 9757 | 8 | 4556 | 2 | 6984 | 1 | 7099 | 2 | 45.2 | 236.3 | 56.3 | 69.8 | - | 50 | 10.4 | 1.7 |
| 8 | KH-9452 | 11974 | 2 | 4755 | 1 | 4767 | 9 | 7165 | 1 | 78.2 | 251 | 6.7 | 71.4 | 3.4 | 56.5 | - | 2.6 |
| 9 | HYBRID VMH-4060 | 12676 | 1 | 2847 | 7 | 5690 | 4 | 7071 | 3 | 88.7 | 110.1 | 27.3 | 69.1 | 9.4 | - | - | 1.3 |
| 10 | KMH-3712 | 11649 | 3 | 1972 | 12 | 3841 | 13 | 5821 | 9 | 73.4 | 45.6 | - | 39.2 | 0.6 | - | - | - |
| 11 | BL-2802 | 10228 | 7 | 1983 | 11 | 4935 | 8 | 5715 | 11 | 52.2 | 46.4 | 10.4 | 36.7 | - | - | - | - |
| 12 | MCH-37 | 10941 | 6 | 4032 | 3 | 3984 | 12 | 6319 | 5 | 62.9 | 197.6 | - | 51.1 | - | 32.7 | - | - |
| CHECKS | | | | | | | | | | | | | | | | | |
| 13 | NAVJOT | 6718 | 14 | 1355 | 14 | 4470 | 10 | 4181 | 14 | - | - | - | - | - | - | - | - |
| 14 | HM-9 | 11584 | 4 | 3038 | 6 | 6327 | 2 | 6983 | 4 | 72.4 | 124.2 | 41.5 | 67 | - | - | - | - |
| | Location Mean | 10109 | | 2854 | | 5116 | | 6026 | | | | | | | | | |
| | Mean Stand | 63 | | 50 | | 49 | | 54 | | | | | | | | | |
| | C.D. (5%) | 1991 | | 1140 | | 926 | | 1352 | | | | | | | | | |
| | C.V. (%) | 11.71 | | 23.76 | | 10.76 | | - | | | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | - | | | | | | | | | |
| | Plot Size | 8.4 | | 12 | | 7.2 | | - | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 1-07 | | 5-08 | | 18-06 | | - | | | | | | | | | |
| | Harvest Date | 28-10 | | - | | 6-10 | | - | | | | | | | | | |
| | Irrigation Nos | 3 | | - | | - | | - | | | | | | | | | |
| | Fertilizer Applied N | 120 | | - | | 120 | | - | | | | | | | | | |
| | Fertilizer Applied P | 60 | | - | | 60 | | - | | | | | | | | | |
| | Fertilizer Applied K | 40 | | - | | 40 | | - | | | | | | | | | |

TABLE No. 9 (Continued)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | DAYS TO 50% SILKING | | | | DAYS TO 75% DRY HUSK | | | |
|----------|------------------|-------------------------|------|------|--------------|---------------------|------|------|--------------|----------------------|-------|-------|--------------|
| | | BAJA | BARA | KANG | Zone Mean | BAJA | BARA | KANG | Zone Mean | BAJA | BARA | KANG | Zone Mean |
| 1 | JH-31240 | 55.0 | 63.3 | 55.3 | 57.9 | 57.7 | 66.3 | 58.0 | 60.7 | 100.7 | 114.7 | 100.7 | 105.3 |
| 2 | JH-31242 | 55.3 | 62.3 | 54.7 | 57.4 | 58.3 | 64.3 | 57.3 | 60.0 | 95.7 | 108.3 | 97.0 | 100.3 |
| 3 | BH-406126 | 54.0 | 64.0 | 52.7 | 56.9 | 56.7 | 66.0 | 55.3 | 59.3 | 113.7 | 115.0 | 100.0 | 109.6 |
| 4 | BH-408005 | 55.0 | 65.3 | 55.3 | 58.6 | 57.3 | 67.3 | 57.3 | 60.7 | 111.7 | 114.0 | 101.7 | 109.1 |
| 5 | KLM-7 | 53.7 | 62.0 | 57.0 | 57.6 | 56.3 | 64.0 | 59.3 | 59.9 | 95.3 | 108.0 | 96.7 | 100.0 |
| 6 | EC-3160 | 54.3 | 63.3 | 55.3 | 57.7 | 56.7 | 65.3 | 58.0 | 60.0 | 95.3 | 108.0 | 101.3 | 101.6 |
| 7 | KH-717 | 53.7 | 62.7 | 56.7 | 57.7 | 56.7 | 64.7 | 59.7 | 60.3 | 99.0 | 111.3 | 99.3 | 103.2 |
| 8 | KH-9452 | 61.3 | 63.0 | 55.0 | 59.8 | 63.3 | 65.0 | 58.0 | 62.1 | 102.7 | 109.0 | 96.7 | 102.8 |
| 9 | HYBRID VMH-4060 | 53.3 | 63.0 | 56.3 | 57.6 | 56.0 | 66.0 | 58.7 | 60.2 | 94.3 | 114.0 | 95.7 | 101.3 |
| 10 | KMH-3712 | 56.0 | 62.0 | 57.7 | 58.6 | 58.3 | 64.0 | 60.0 | 60.8 | 95.3 | 105.0 | 96.7 | 99.0 |
| 11 | BL-2802 | 61.7 | 65.0 | 54.3 | 60.3 | 64.3 | 67.0 | 57.3 | 62.9 | 97.7 | 114.0 | 94.7 | 102.1 |
| 12 | MCH-37 CHECKS | 53.7 | 63.7 | 56.0 | 57.8 | 56.3 | 66.7 | 58.0 | 60.3 | 101.7 | 113.7 | 97.3 | 104.2 |
| 13 | NAVJOT | 54.3 | 62.3 | 56.7 | 57.8 | 56.7 | 64.3 | 58.0 | 59.7 | 96.0 | 108.0 | 95.0 | 99.7 |
| 14 | HM-9 | 53.3 | 62.7 | 57.7 | 57.9 | 55.7 | 65.7 | 59.3 | 60.2 | 95.3 | 113.7 | 102.3 | 103.8 |
| | Loc. Mean | 55.3 | 63.2 | 55.8 | 58.1 | 57.9 | 65.5 | 58.2 | 60.5 | 99.6 | 111.2 | 98.2 | 103.0 |
| | C.D. (5%) | 1.09 | 1.09 | 1.07 | 3.31 | 1.28 | 1.09 | 1.06 | 3.15 | 2.43 | 1.20 | 1.12 | 5.82 |
| | C.V. (%) | 1.17 | 1.03 | 1.14 | 3.40 | 1.31 | 0.99 | 1.09 | 3.10 | 1.45 | 0.64 | 0.68 | 3.37 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 0.69 | 0.00 | 0.00 | 0.00 | 0.02 |

TABLE No. 9 (Continued)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | PLANT HEIGHT (cm) | | | | EAR HEIGHT (cm) | | | |
|----------|-----------------|-----------------------|------|------|--------------|-------------------|------|------|--------------|-----------------|------|------|--------------|
| | | BAJA | BARA | KANG | Zone Mean | BAJA | BARA | KANG | Zone Mean | BAJA | BARA | KANG | Zone Mean |
| 1 | JH-31240 | 23.4 | 34.0 | 27.5 | 28.3 | 180 | 144 | 238 | 187 | 92 | 64 | 124 | 94 |
| 2 | JH-31242 | 24.5 | 32.7 | 26.2 | 27.8 | 195 | 138 | 256 | 196 | 97 | 63 | 125 | 95 |
| 3 | BH-406126 | 27.8 | 33.0 | 26.4 | 29.1 | 186 | 114 | 264 | 188 | 95 | 50 | 119 | 88 |
| 4 | BH-408005 | 26.2 | 32.3 | 27.2 | 28.6 | 171 | 134 | 252 | 185 | 90 | 58 | 128 | 92 |
| 5 | KLM-7 | 23.5 | 31.3 | 28.9 | 27.9 | 173 | 132 | 264 | 189 | 77 | 56 | 125 | 86 |
| 6 | EC-3160 | 27.2 | 31.7 | 26.8 | 28.5 | 201 | 157 | 232 | 197 | 113 | 71 | 111 | 98 |
| 7 | KH-717 | 27.6 | 32.3 | 27.4 | 29.1 | 192 | 153 | 244 | 196 | 96 | 66 | 128 | 96 |
| 8 | KH-9452 | 24.1 | 33.7 | 24.7 | 27.5 | 177 | 139 | 257 | 191 | 93 | 63 | 121 | 93 |
| 9 | HYBRID VMH-4060 | 27.1 | 32.7 | 27.2 | 29.0 | 204 | 148 | 263 | 205 | 94 | 62 | 131 | 96 |
| 10 | KMH-3712 | 28.0 | 32.0 | 27.7 | 29.2 | 196 | 166 | 238 | 200 | 105 | 82 | 131 | 106 |
| 11 | BL-2802 | 23.7 | 33.3 | 26.3 | 27.8 | 195 | 147 | 225 | 189 | 89 | 59 | 114 | 87 |
| 12 | MCH-37 | 26.9 | 33.0 | 24.5 | 28.1 | 212 | 156 | 244 | 204 | 97 | 51 | 128 | 92 |
| | CHECKS | | | | | | | | | | | | |
| 13 | NAVJOT | 22.4 | 32.7 | 24.5 | 26.5 | 175 | 145 | 263 | 194 | 91 | 57 | 125 | 91 |
| 14 | HM-9 | 26.0 | 32.0 | 24.0 | 27.3 | 180 | 141 | 263 | 195 | 93 | 54 | 131 | 93 |
| | Loc. Mean | 25.6 | 32.6 | 26.4 | 28.2 | 188 | 144 | 250 | 194 | 94 | 61 | 124 | 93 |
| | C.D. (5%) | 1.27 | 1.97 | 1.23 | 2.51 | 18.1 | 23.7 | 15.8 | 23.7 | 20.5 | 15.1 | 8.8 | 11.7 |
| | C.V. (%) | 2.97 | 3.59 | 2.79 | 5.31 | 5.7 | 9.8 | 3.8 | 7.3 | 12.9 | 14.7 | 4.2 | 7.5 |
| | F (Prob.) | 0.00 | 0.32 | 0.00 | 0.63 | 0.00 | 0.02 | 0.00 | 0.86 | 0.28 | 0.02 | 0.00 | 0.17 |

TABLE No. 9 (Continued)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | STAND AT HARVEST ('000/ha) | | | |
|----------|-----------------|------------------|------|------|--------------|----------------------------|------|------|--------------|
| | | BAJA | BARA | KANG | Zone Mean | BAJA | BARA | KANG | Zone Mean |
| 1 | JH-31240 | 89.2 | 81.7 | 82.0 | 84.3 | 71 | 42 | 73 | 62 |
| 2 | JH-31242 | 89.0 | 79.3 | 79.0 | 82.4 | 80 | 45 | 68 | 64 |
| 3 | BH-406126 | 79.1 | 69.0 | 83.5 | 77.2 | 74 | 38 | 69 | 60 |
| 4 | BH-408005 | 86.3 | 74.0 | 84.5 | 81.6 | 74 | 33 | 66 | 58 |
| 5 | KLM-7 | 88.1 | 71.7 | 83.5 | 81.1 | 71 | 41 | 74 | 62 |
| 6 | EC-3160 | 86.9 | 82.0 | 81.5 | 83.5 | 73 | 41 | 68 | 61 |
| 7 | KH-717 | 83.0 | 79.0 | 84.0 | 82.0 | 72 | 43 | 68 | 61 |
| 8 | KH-9452 | 90.0 | 75.0 | 82.5 | 82.5 | 85 | 49 | 67 | 67 |
| 9 | HYBRID VMH-4060 | 91.1 | 73.0 | 84.0 | 82.7 | 74 | 43 | 71 | 63 |
| 10 | KMH-3712 | 86.0 | 66.3 | 79.5 | 77.3 | 75 | 41 | 68 | 61 |
| 11 | BL-2802 | 88.6 | 70.0 | 84.5 | 81.0 | 77 | 44 | 66 | 62 |
| 12 | MCH-37 | 80.0 | 68.3 | 83.5 | 77.3 | 75 | 39 | 68 | 61 |
| | CHECKS | | | | | | | | |
| 13 | NAVJOT | 87.8 | 74.0 | 83.5 | 81.8 | 70 | 44 | 66 | 60 |
| 14 | HM-9 | 88.5 | 72.0 | 79.0 | 79.8 | 78 | 38 | 69 | 62 |
| | Loc. Mean | 86.7 | 74.0 | 82.5 | 81.0 | 75 | 42 | 69 | 62 |
| | C.D. (5%) | 0.00 | 4.76 | 0.94 | 5.99 | 4.44 | 9.83 | 3.65 | 5.63 |
| | C.V. (%) | 0.00 | 3.84 | 0.68 | 4.40 | 3.53 | 14.1 | 3.17 | 5.44 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.28 | 0.00 | 0.33 |

TABLE No. 10

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DMR DELHI LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 1st YEAR, TRIAL No. TR66Z-2, 3, 4 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|--------------|----|-------|----|-------|----|-------|----|
| | | DELH | R | KARN | R | LUDH | R | PANT | R | KANP | R | ZN 2 MEAN | R | BAHR | R | DHOL | R | JASH | R |
| 1 | JH-31240 | 4736 | 5 | 7589 | 1 | 6445 | 7 | 8215 | 8 | 6240 | 9 | 6645 | 8 | 5150 | 8 | 4883 | 4 | 4821 | 8 |
| 2 | JH-31242 | 6228 | 1 | 6924 | 3 | 9254 | 1 | 9953 | 5 | 5775 | 13 | 7627 | 2 | 5985 | 3 | 4677 | 6 | 6270 | 2 |
| 3 | BH-406126 | 3274 | 12 | 5426 | 12 | 4130 | 13 | 6177 | 13 | 5946 | 12 | 4991 | 13 | 3379 | 13 | 3075 | 13 | 2401 | 13 |
| 4 | BH-408005 | 5152 | 4 | 6201 | 10 | 6081 | 10 | 7404 | 11 | 6520 | 5 | 6271 | 10 | 5230 | 7 | 4576 | 8 | 6221 | 3 |
| 5 | EC-3160 | 3823 | 11 | 6242 | 9 | 6427 | 8 | 7999 | 9 | 6421 | 6 | 6182 | 11 | 3434 | 12 | 3785 | 11 | 4320 | 9 |
| 6 | KH-717 | 4651 | 6 | 6636 | 5 | 6212 | 9 | 10108 | 4 | 6209 | 10 | 6763 | 6 | 5707 | 6 | 4319 | 10 | 5346 | 6 |
| 7 | KH-9452 | 5584 | 2 | 6246 | 8 | 6899 | 4 | 12294 | 2 | 6760 | 2 | 7557 | 3 | 5949 | 4 | 4628 | 7 | 4919 | 7 |
| 8 | HYBRID VMH-4060 | 4469 | 8 | 6641 | 4 | 6785 | 5 | 9590 | 6 | 6395 | 7 | 6776 | 5 | 4932 | 9 | 4818 | 5 | 2441 | 12 |
| 9 | KMH-3712 | 5432 | 3 | 6569 | 6 | 7962 | 3 | 13101 | 1 | 6748 | 3 | 7962 | 1 | 6419 | 1 | 5508 | 2 | 5598 | 4 |
| 10 | BL-2802 | 4611 | 7 | 6413 | 7 | 6647 | 6 | 11569 | 3 | 6074 | 11 | 7063 | 4 | 6078 | 2 | 5481 | 3 | 5389 | 5 |
| 11 | MCH-37 | 4241 | 9 | 6164 | 11 | 8404 | 2 | 7518 | 10 | 6769 | 1 | 6619 | 9 | 5885 | 5 | 6085 | 1 | 6336 | 1 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 12 | NAVJOT | 2827 | 13 | 5360 | 13 | 4214 | 12 | 6485 | 12 | 6271 | 8 | 5031 | 12 | 4479 | 11 | 3434 | 12 | 3385 | 11 |
| 13 | HM-9 | 3958 | 10 | 7419 | 2 | 6076 | 11 | 9168 | 7 | 6735 | 4 | 6671 | 7 | 4784 | 10 | 4483 | 9 | 3597 | 10 |
| | Location Mean | 4537 | | 6448 | | 6580 | | 9198 | | 6374 | | 6628 | | 5186 | | 4596 | | 4696 | |
| | Mean Stand | 59 | | 69 | | 71 | | 69 | | 75 | | 69 | | 66 | | 56 | | 53 | |
| | C.D. (5%) | 1071 | | 772 | | 1075 | | 3166 | | 212 | | 1259 | | 595 | | 1248 | | 151 | |
| | C.V. (%) | 13.98 | | 7.09 | | 9.67 | | 20.38 | | 1.97 | | - | | 6.8 | | 16.08 | | 1.9 | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | - | | 0 | | 0 | | 0 | |
| | Plot Size | 11.2 | | 12 | | 10.92 | | 12 | | 9.6 | | - | | 9.6 | | 12 | | 9.6 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-06 | | 29-06 | | 3-07 | | 1-08 | | 14-07 | | - | | 4-07 | | 8-07 | | 26-07 | |
| | Harvest Date | 13-10 | | 3-10 | | 8-10 | | 18-11 | | 6-11 | | - | | 14-10 | | - | | 12-11 | |
| | Irrigation Nos | 4 | | 4 | | 6 | | - | | 2 | | - | | - | | - | | - | |
| | Fertilizer Applied N | 150 | | 150 | | 125 | | 120 | | 80 | | - | | 120 | | 120 | | 120 | |
| | Fertilizer Applied P | 75 | | 60 | | 60 | | 60 | | 40 | | - | | 60 | | 60 | | 60 | |
| | Fertilizer Applied K | 75 | | 60 | | - | | 40 | | 40 | | - | | 60 | | 40 | | 60 | |

Table No. 10 (Continued)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

| S1 No | PEDIGREE | VARA | | RANC | | AMBI | | ZN 3 MEAN | | ARBH | | HYDE | | KARI | | KOLH | | MAND | |
|---------------|----------------------|------|----|-------|----|-------|----|--------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|
| | | R | | R | | R | | R | | R | | R | | R | | R | | R | |
| 1 | JH-31240 | 7232 | 4 | 8309 | 2 | 6500 | 3 | 6149 | 6 | 5417 | 7 | 7510 | 3 | 6454 | 6 | 5034 | 10 | 10017 | 1 |
| 2 | JH-31242 | 7816 | 3 | 7046 | 6 | 7141 | 2 | 6489 | 2 | 5644 | 6 | 6287 | 10 | 7649 | 1 | 7088 | 2 | 8489 | 7 |
| 3 | BH-406126 | 5480 | 11 | 6004 | 10 | 5360 | 9 | 4283 | 13 | 3331 | 13 | 5450 | 12 | 4068 | 12 | 3822 | 13 | 4358 | 13 |
| 4 | BH-408005 | 6799 | 7 | 5791 | 13 | 5111 | 11 | 5621 | 9 | 6452 | 4 | 6749 | 7 | 3697 | 13 | 4656 | 12 | 9208 | 5 |
| 5 | EC-3160 | 5540 | 10 | 5887 | 11 | 4749 | 12 | 4619 | 11 | 4909 | 11 | 6905 | 5 | 7291 | 2 | 6254 | 6 | 8388 | 8 |
| 6 | KH-717 | 6581 | 8 | 6755 | 9 | 5999 | 6 | 5784 | 7 | 5359 | 9 | 6698 | 8 | 6111 | 8 | 6479 | 5 | 9436 | 3 |
| 7 | KH-9452 | 8587 | 2 | 7638 | 5 | 5892 | 8 | 6269 | 5 | 6740 | 2 | 7878 | 2 | 6704 | 5 | 7460 | 1 | 7045 | 10 |
| 8 | HYBRID VMH-4060 | 7145 | 5 | 8123 | 3 | 6446 | 4 | 5651 | 8 | 5054 | 10 | 6669 | 9 | 5964 | 9 | 6730 | 3 | 9347 | 4 |
| 9 | KMH-3712 | 6289 | 9 | 9124 | 1 | 5947 | 7 | 6481 | 3 | 7346 | 1 | 8320 | 1 | 7236 | 3 | 5660 | 7 | 8611 | 6 |
| 10 | BL-2802 | 6829 | 6 | 7741 | 4 | 6333 | 5 | 6309 | 4 | 6497 | 3 | 6879 | 6 | 7233 | 4 | 5268 | 9 | 6886 | 11 |
| 11 | MCH-37 | 8924 | 1 | 6994 | 8 | 7360 | 1 | 6931 | 1 | 5694 | 5 | 7375 | 4 | 6342 | 7 | 6572 | 4 | 9790 | 2 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 12 | NAVJOT | 4953 | 13 | 5826 | 12 | 4556 | 13 | 4439 | 12 | 4015 | 12 | 4759 | 13 | 5174 | 10 | 4859 | 11 | 5332 | 12 |
| 13 | HM-9 | 5362 | 12 | 6996 | 7 | 5138 | 10 | 5060 | 10 | 5384 | 8 | 6234 | 11 | 4545 | 11 | 5446 | 8 | 8314 | 9 |
| | Location Mean | 6734 | | 7095 | | 5887 | | 5699 | | 5526 | | 6747 | | 6036 | | 5794 | | 8094 | |
| | Mean Stand | 74 | | 58 | | 76 | | 64 | | 60 | | 66 | | 73 | | 66 | | 63 | |
| | C.D. (5%) | 539 | | 1996 | | 995 | | 921 | | 1035 | | 1123 | | 409 | | 1151 | | 1035 | |
| | C.V. (%) | 4.74 | | 16.65 | | 10.01 | | - | | 11.09 | | 9.86 | | 4.01 | | 11.76 | | 7.57 | |
| | F (Prob) | 0 | | 0.003 | | 0 | | - | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | Plot Size | 9.6 | | 11.2 | | 12 | | - | | 12 | | 12 | | 12 | | 12 | | 11.2 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 9-07 | | 4-07 | | - | | 17-07 | | 6-07 | | 12-07 | | 11-07 | | 22-07 | |
| | Harvest Date | 8-10 | | 15-10 | | - | | - | | 10-11 | | 16-11 | | 18-10 | | 3-12 | | 26-11 | |
| | Irrigation Nos | 2 | | - | | - | | - | | 6 | | 2 | | - | | - | | 6 | |
| | Fertilizer Applied N | 100 | | - | | 120 | | - | | 150 | | 180 | | 200 | | 120 | | 150 | |
| | Fertilizer Applied P | 60 | | - | | 60 | | - | | 75 | | 60 | | 80 | | 60 | | 75 | |
| | Fertilizer Applied K | 40 | | - | | 40 | | - | | 37.5 | | 50 | | 60 | | 40 | | 40 | |

Table No. 10 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | | | | |
|----------|----------------------|--|----|------|----|------|----|---|------|-------|------|------|------|------|------|------|------|
| | | ZN 4 | | OV'L | | ZN 2 | | | DELH | KARN | LUDH | PANT | KANP | MEAN | BAHR | DHOL | JASH |
| | | COIM | R | MEAN | R | MEAN | R | | | | | | | | | | |
| 1 | JH-31240 | 10901 | 9 | 7556 | 8 | 6791 | 6 | 67.5 | 41.6 | 52.9 | 26.7 | - | 32.1 | 15 | 42.2 | 42.4 | |
| 2 | JH-31242 | 10980 | 8 | 7690 | 4 | 7248 | 4 | 120.3 | 29.2 | 119.6 | 53.5 | - | 51.6 | 33.6 | 36.2 | 85.3 | |
| 3 | BH-406126 | 8478 | 12 | 4918 | 13 | 4715 | 13 | 15.8 | 1.2 | - | - | - | - | - | - | - | |
| 4 | BH-408005 | 15251 | 1 | 7669 | 6 | 6535 | 9 | 82.2 | 15.7 | 44.3 | 14.2 | 4 | 24.6 | 16.8 | 33.3 | 83.8 | |
| 5 | EC-3160 | 10521 | 10 | 7378 | 10 | 6053 | 11 | 35.2 | 16.5 | 52.5 | 23.3 | 2.4 | 22.9 | - | 10.2 | 27.6 | |
| 6 | KH-717 | 11019 | 7 | 7517 | 9 | 6684 | 8 | 64.5 | 23.8 | 47.4 | 55.9 | - | 34.4 | 27.4 | 25.8 | 57.9 | |
| 7 | KH-9452 | 14032 | 3 | 8310 | 2 | 7368 | 2 | 97.5 | 16.5 | 63.7 | 89.6 | 7.8 | 50.2 | 32.8 | 34.8 | 45.3 | |
| 8 | HYBRID VMH-4060 | 12174 | 6 | 7656 | 7 | 6690 | 7 | 58.1 | 23.9 | 61 | 47.9 | 2 | 34.7 | 10.1 | 40.3 | - | |
| 9 | KMH-3712 | 14146 | 2 | 8553 | 1 | 7648 | 1 | 92.2 | 22.6 | 88.9 | 102 | 7.6 | 58.3 | 43.3 | 60.4 | 65.4 | |
| 10 | BL-2802 | 13371 | 5 | 7689 | 5 | 7018 | 5 | 63.1 | 19.7 | 57.7 | 78.4 | - | 40.4 | 35.7 | 59.6 | 59.2 | |
| 11 | MCH-37 | 13948 | 4 | 8287 | 3 | 7318 | 3 | 50 | 15 | 99.4 | 15.9 | 7.9 | 31.6 | 31.4 | 77.2 | 87.2 | |
| 12 | NAVJOT | 7621 | 13 | 5293 | 12 | 4915 | 12 | - | - | - | - | - | - | - | - | - | |
| 13 | HM-9 | 10401 | 11 | 6721 | 11 | 6120 | 10 | 40 | 38.4 | 44.2 | 41.4 | 7.4 | 32.6 | 6.8 | 30.6 | 6.3 | |
| | Location Mean | 11757 | | 7326 | | 6546 | | | | | | | | | | | |
| | Mean Stand | 64 | | 65 | | 66 | | | | | | | | | | | |
| | C.D. (5%) | 1174 | | 988 | | 1044 | | | | | | | | | | | |
| | C.V. (%) | 5.91 | | - | | - | | | | | | | | | | | |
| | F (Prob) | 0 | | | | | | | | | | | | | | | |
| | Plot Size | 9.6 | | - | | - | | | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 9-07 | | - | | - | | | | | | | | | | | |
| | Harvest Date | 4-11 | | - | | - | | | | | | | | | | | |
| | Irrigation Nos | 10 | | - | | - | | | | | | | | | | | |
| | Fertilizer Applied N | 150 | | - | | - | | | | | | | | | | | |
| | Fertilizer Applied P | 75 | | - | | - | | | | | | | | | | | |
| | Fertilizer Applied K | 75 | | - | | - | | | | | | | | | | | |

Table No. 10 (Continued)

| | | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | | | | | | |
|----|-----------------|---|------|------|------|------|------|------|------|------|-------|------|------|
| S1 | | ZN 3 | | | | | | | | | ZN 4 | OV'L | |
| No | PEDIGREE | VARA | RANC | AMBI | MEAN | ARBH | HYDE | KARI | KOLH | MAND | COIM | MEAN | MEAN |
| 1 | JH-31240 | 46 | 42.6 | 42.7 | 38.5 | 34.9 | 57.8 | 24.7 | 3.6 | 87.9 | 43 | 42.7 | 38.2 |
| 2 | JH-31242 | 57.8 | 20.9 | 56.7 | 46.2 | 40.6 | 32.1 | 47.8 | 45.9 | 59.2 | 44.1 | 45.3 | 47.5 |
| 3 | BH-406126 | 10.6 | 3.1 | 17.7 | - | - | 14.5 | - | - | - | 11.2 | - | - |
| 4 | BH-408005 | 37.3 | - | 12.2 | 26.6 | 60.7 | 41.8 | - | - | 72.7 | 100.1 | 44.9 | 33 |
| 5 | EC-3160 | 11.8 | 1 | 4.2 | 4.1 | 22.3 | 45.1 | 40.9 | 28.7 | 57.3 | 38.1 | 39.4 | 23.2 |
| 6 | KH-717 | 32.9 | 15.9 | 31.7 | 30.3 | 33.5 | 40.8 | 18.1 | 33.4 | 77 | 44.6 | 42 | 36 |
| 7 | KH-9452 | 73.3 | 31.1 | 29.3 | 41.2 | 67.9 | 65.6 | 29.6 | 53.5 | 32.1 | 84.1 | 57 | 49.9 |
| 8 | HYBRID VMH-4060 | 44.2 | 39.4 | 41.5 | 27.3 | 25.9 | 40.1 | 15.3 | 38.5 | 75.3 | 59.7 | 44.7 | 36.1 |
| 9 | KMH-3712 | 27 | 56.6 | 30.5 | 46 | 83 | 74.8 | 39.9 | 16.5 | 61.5 | 85.6 | 61.6 | 55.6 |
| 10 | BL-2802 | 37.9 | 32.9 | 39 | 42.1 | 61.8 | 44.6 | 39.8 | 8.4 | 29.2 | 75.5 | 45.3 | 42.8 |
| 11 | MCH-37 | 80.2 | 20.1 | 61.5 | 56.1 | 41.8 | 55 | 22.6 | 35.3 | 83.6 | 83 | 56.6 | 48.9 |
| | CHECKS | | | | | | | | | | | | |
| 12 | NAVJOT | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | HM-9 | 8.2 | 20.1 | 12.8 | 14 | 34.1 | 31 | - | 12.1 | 55.9 | 36.5 | 27 | 24.5 |

| | | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | | | | | | | |
|----|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | ZN 2 | | | | | | | | | ZN 3 | | | |
| No | PEDIGREE | DELH | KARN | LUDH | PANT | KANP | MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN |
| 1 | JH-31240 | 19.6 | 2.3 | 6.1 | - | - | - | 7.7 | 8.9 | 34 | 34.9 | 18.8 | 26.5 | 21.5 |
| 2 | JH-31242 | 57.3 | - | 52.3 | 8.6 | - | 14.3 | 25.1 | 4.3 | 74.3 | 45.8 | 0.7 | 39 | 28.2 |
| 3 | BH-406126 | - | - | - | - | - | - | - | - | - | 2.2 | - | 4.3 | - |
| 4 | BH-408005 | 30.2 | - | 0.1 | - | - | - | 9.3 | 2.1 | 72.9 | 26.8 | - | - | 11.1 |
| 5 | EC-3160 | - | - | 5.8 | - | - | - | - | - | 20.1 | 3.3 | - | - | - |
| 6 | KH-717 | 17.5 | - | 2.2 | 10.3 | - | 1.4 | 19.3 | - | 48.6 | 22.7 | - | 16.8 | 14.3 |
| 7 | KH-9452 | 41.1 | - | 13.6 | 34.1 | 0.4 | 13.3 | 24.3 | 3.2 | 36.7 | 60.1 | 9.2 | 14.7 | 23.9 |
| 8 | HYBRID VMH-4060 | 12.9 | - | 11.7 | 4.6 | - | 1.6 | 3.1 | 7.5 | - | 33.3 | 16.1 | 25.5 | 11.7 |
| 9 | KMH-3712 | 37.2 | - | 31 | 42.9 | 0.2 | 19.3 | 34.2 | 22.9 | 55.6 | 17.3 | 30.4 | 15.7 | 28.1 |
| 10 | BL-2802 | 16.5 | - | 9.4 | 26.2 | - | 5.9 | 27 | 22.3 | 49.8 | 27.4 | 10.6 | 23.2 | 24.7 |
| 11 | MCH-37 | 7.1 | - | 38.3 | - | 0.5 | - | 23 | 35.7 | 76.1 | 66.4 | - | 43.2 | 37 |
| | CHECKS | | | | | | | | | | | | | |
| 12 | NAVJOT | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | HM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table No. 10 (Continued)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | ZN 4 MEAN | OV'L MEAN | DAYS TO 50% POLLEN SHED | | | | |
|----------|-----------------|---|------|------|------|------|------|--------------|--------------|-------------------------|------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | DELH | KARN | LUDH | PANT | KANP |
| 1 | JH-31240 | 0.6 | 20.5 | 42 | - | 20.5 | 4.8 | 12.4 | 11 | 50.0 | 49.0 | 49.7 | 52.0 | 52.7 |
| 2 | JH-31242 | 4.8 | 0.9 | 68.3 | 30.2 | 2.1 | 5.6 | 14.4 | 18.4 | 51.3 | 49.7 | 49.7 | 52.0 | 53.7 |
| 3 | BH-406126 | - | - | - | - | - | - | - | - | 55.3 | 50.3 | 53.0 | 56.3 | 57.3 |
| 4 | BH-408005 | 19.8 | 8.3 | - | - | 10.8 | 46.6 | 14.1 | 6.8 | 54.0 | 49.3 | 55.3 | 57.0 | 54.7 |
| 5 | EC-3160 | - | 10.8 | 60.4 | 14.8 | 0.9 | 1.2 | 9.8 | - | 50.0 | 49.3 | 49.3 | 51.7 | 55.3 |
| 6 | KH-717 | - | 7.4 | 34.5 | 19 | 13.5 | 5.9 | 11.9 | 9.2 | 53.7 | 49.7 | 54.7 | 54.3 | 56.0 |
| 7 | KH-9452 | 25.2 | 26.4 | 47.5 | 37 | - | 34.9 | 23.6 | 20.4 | 54.3 | 49.0 | 54.3 | 55.7 | 57.0 |
| 8 | HYBRID VMH-4060 | - | 7 | 31.2 | 23.6 | 12.4 | 17 | 13.9 | 9.3 | 53.3 | 48.3 | 50.7 | 54.0 | 56.0 |
| 9 | KMH-3712 | 36.4 | 33.5 | 59.2 | 3.9 | 3.6 | 36 | 27.3 | 25 | 51.7 | 50.7 | 49.0 | 51.3 | 53.3 |
| 10 | BL-2802 | 20.7 | 10.3 | 59.1 | - | - | 28.6 | 14.4 | 14.7 | 53.0 | 50.3 | 51.7 | 56.0 | 52.7 |
| 11 | MCH-37 | 5.8 | 18.3 | 39.5 | 20.7 | 17.7 | 34.1 | 23.3 | 19.6 | 55.0 | 49.3 | 52.0 | 56.7 | 55.0 |
| CHECKS | | | | | | | | | | | | | | |
| 12 | NAVJOT | - | - | 13.8 | - | - | - | - | - | 50.3 | 46.3 | 50.0 | 52.0 | 55.3 |
| 13 | HM-9 | - | - | - | - | - | - | - | - | 51.3 | 48.7 | 49.7 | 51.3 | 54.7 |
| | Loc. Mean | | | | | | | | | 52.6 | 49.2 | 51.5 | 53.9 | 54.9 |
| | C.D. (5%) | | | | | | | | | 3.09 | 1.95 | 2.23 | 2.59 | 1.80 |
| | C.V. (%) | | | | | | | | | 3.49 | 2.35 | 2.57 | 2.85 | 1.94 |
| | F (Prob.) | | | | | | | | | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 |

Table No. 10 (Continued)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | Zone | | | | | |
|----------|------------------|-------------------------|------|------|------|------|------|------|--------------|------|------|------|------|------|
| | | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND |
| 1 | JH-31240 | 50.7 | 52.7 | 52.3 | 45.7 | 48.3 | 49.0 | 47.3 | 49.2 | 57.0 | 54.0 | 48.7 | 56.3 | 48.7 |
| 2 | JH-31242 | 51.3 | 55.3 | 52.7 | 45.7 | 47.0 | 49.0 | 47.3 | 49.5 | 58.3 | 54.3 | 49.3 | 54.7 | 48.7 |
| 3 | BH-406126 | 54.5 | 56.7 | 56.3 | 48.3 | 51.3 | 51.7 | 50.7 | 52.5 | 55.0 | 55.7 | 54.7 | 61.3 | 50.7 |
| 4 | BH-408005 | 54.1 | 60.7 | 57.3 | 53.3 | 54.3 | 52.0 | 53.3 | 55.2 | 56.7 | 54.7 | 54.7 | 59.3 | 51.3 |
| 5 | EC-3160 | 51.1 | 54.3 | 51.3 | 46.0 | 47.3 | 50.7 | 46.3 | 49.3 | 55.7 | 53.7 | 47.7 | 54.0 | 46.3 |
| 6 | KH-717 | 53.7 | 54.0 | 54.0 | 48.0 | 49.0 | 50.3 | 50.3 | 50.9 | 56.7 | 53.7 | 50.3 | 56.0 | 48.7 |
| 7 | KH-9452 | 54.1 | 55.7 | 55.7 | 49.7 | 51.0 | 50.7 | 52.0 | 52.4 | 56.3 | 53.3 | 50.7 | 57.7 | 51.7 |
| 8 | HYBRID VMH-4060 | 52.5 | 53.7 | 52.7 | 47.3 | 49.0 | 49.7 | 48.0 | 50.1 | 57.7 | 54.0 | 49.3 | 55.3 | 49.3 |
| 9 | KMH-3712 | 51.2 | 53.3 | 53.7 | 47.7 | 48.0 | 49.3 | 50.7 | 50.4 | 54.7 | 53.3 | 50.7 | 58.0 | 49.0 |
| 10 | BL-2802 | 52.7 | 54.3 | 53.7 | 49.0 | 51.0 | 51.7 | 52.0 | 51.9 | 56.7 | 55.7 | 52.7 | 61.0 | 52.0 |
| 11 | MCH-37 CHECKS | 53.6 | 54.3 | 53.7 | 49.3 | 50.3 | 50.3 | 51.0 | 51.5 | 57.0 | 55.0 | 50.3 | 57.0 | 51.3 |
| 12 | NAVJOT | 50.8 | 51.7 | 51.7 | 45.3 | 46.7 | 49.0 | 46.0 | 48.4 | 57.3 | 49.7 | 46.7 | 51.0 | 47.3 |
| 13 | HM-9 | 51.1 | 52.3 | 50.7 | 47.0 | 49.3 | 48.7 | 51.0 | 49.8 | 57.7 | 52.3 | 50.0 | 58.7 | 48.3 |
| | Loc. Mean | 52.4 | 54.5 | 53.5 | 47.9 | 49.4 | 50.2 | 49.7 | 50.9 | 56.7 | 53.8 | 50.4 | 56.9 | 49.5 |
| | C.D. (5%) | 1.65 | 2.63 | 2.13 | 1.19 | 1.36 | 2.44 | 0.73 | 1.21 | 2.11 | 1.55 | 1.78 | 4.87 | 2.03 |
| | C.V. (%) | 2.48 | 2.87 | 2.36 | 1.47 | 1.63 | 2.88 | 0.87 | 2.05 | 2.21 | 1.71 | 2.10 | 5.07 | 2.44 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.01 | 0.00 |

Table No. 10 (Continued)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | | | Zone | | | | |
|----------|------------------|-------------------------|--------------|--------------|---------------------|------|------|------|------|------|------|------|------|------|
| | | COIM | Zone Mean | OV'L Mean | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA |
| 1 | JH-31240 | 46.7 | 51.9 | 50.6 | 55.0 | 51.7 | 50.7 | 55.0 | 56.0 | 53.7 | 55.0 | 53.3 | 48.7 | 54.0 |
| 2 | JH-31242 | 48.0 | 52.2 | 51.0 | 55.3 | 52.0 | 50.7 | 55.7 | 58.0 | 54.3 | 57.3 | 53.7 | 47.7 | 52.3 |
| 3 | BH-406126 | 53.3 | 55.1 | 54.0 | 57.3 | 52.7 | 54.0 | 59.3 | 62.7 | 57.2 | 58.7 | 57.3 | 51.0 | 56.0 |
| 4 | BH-408005 | 55.0 | 55.3 | 54.9 | 57.7 | 51.7 | 56.3 | 60.0 | 60.3 | 57.2 | 62.7 | 59.3 | 56.0 | 59.0 |
| 5 | EC-3160 | 46.7 | 50.7 | 50.3 | 52.0 | 51.7 | 50.3 | 54.3 | 61.3 | 53.9 | 56.3 | 53.0 | 48.3 | 52.7 |
| 6 | KH-717 | 47.7 | 52.2 | 52.2 | 55.7 | 52.0 | 55.7 | 57.7 | 67.7 | 57.7 | 56.0 | 55.0 | 50.7 | 54.3 |
| 7 | KH-9452 | 52.0 | 53.6 | 53.3 | 56.7 | 51.3 | 55.3 | 59.0 | 62.3 | 56.9 | 57.7 | 56.7 | 51.7 | 56.0 |
| 8 | HYBRID VMH-4060 | 49.7 | 52.6 | 51.6 | 54.7 | 50.7 | 51.7 | 57.0 | 62.0 | 55.2 | 55.7 | 53.7 | 49.3 | 54.7 |
| 9 | KMH-3712 | 48.0 | 52.3 | 51.3 | 53.3 | 53.3 | 60.0 | 54.3 | 59.0 | 56.0 | 55.3 | 54.7 | 49.7 | 52.3 |
| 10 | BL-2802 | 52.3 | 55.1 | 53.3 | 55.0 | 52.7 | 52.7 | 59.7 | 58.0 | 55.6 | 56.7 | 54.7 | 51.3 | 55.0 |
| 11 | MCH-37 CHECKS | 51.0 | 53.6 | 52.9 | 57.7 | 51.3 | 53.0 | 60.0 | 60.7 | 56.5 | 56.7 | 55.0 | 55.3 | 55.0 |
| 12 | NAVJOT | 46.3 | 49.7 | 49.6 | 52.7 | 48.3 | 51.0 | 55.0 | 62.0 | 53.8 | 53.7 | 53.3 | 47.3 | 52.3 |
| 13 | HM-9 | 48.0 | 52.5 | 51.2 | 53.0 | 51.0 | 51.0 | 54.3 | 60.0 | 53.9 | 54.3 | 51.7 | 49.0 | 54.0 |
| | Loc. Mean | 49.6 | 52.8 | 52.0 | 55.1 | 51.6 | 53.3 | 57.0 | 60.8 | 55.5 | 56.6 | 54.7 | 50.5 | 54.4 |
| | C.D. (5%) | 0.86 | 1.78 | 0.92 | 3.68 | 1.82 | 8.65 | 2.97 | 6.31 | 2.55 | 2.62 | 1.99 | 1.92 | 1.86 |
| | C.V. (%) | 1.03 | 2.91 | 2.61 | 3.97 | 2.09 | 9.64 | 3.10 | 6.16 | 3.61 | 2.74 | 2.16 | 2.26 | 2.03 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.51 | 0.00 | 0.11 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 10 (Continued)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | Zone Mean | OV'L Mean |
|----------|-----------------|---------------------|------|--------------|------|------|------|------|------|------|--------------|--------------|
| | | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | | |
| 1 | JH-31240 | 53.5 | 49.7 | 52.4 | 58.0 | 58.0 | 50.7 | 57.3 | 51.0 | 48.7 | 53.9 | 53.3 |
| 2 | JH-31242 | 53.7 | 50.3 | 52.5 | 58.7 | 57.3 | 52.0 | 55.7 | 51.0 | 50.0 | 54.1 | 53.6 |
| 3 | BH-406126 | 55.0 | 53.0 | 55.2 | 56.0 | 58.3 | 57.0 | 62.3 | 52.7 | 54.7 | 56.8 | 56.4 |
| 4 | BH-408005 | 55.7 | 55.7 | 58.1 | 57.3 | 57.0 | 56.7 | 60.3 | 52.3 | 57.0 | 56.8 | 57.4 |
| 5 | EC-3160 | 54.7 | 49.3 | 52.4 | 56.7 | 55.3 | 50.3 | 55.0 | 48.0 | 48.7 | 52.3 | 52.8 |
| 6 | KH-717 | 54.7 | 53.0 | 53.9 | 57.3 | 55.3 | 53.0 | 57.0 | 50.7 | 49.7 | 53.8 | 55.0 |
| 7 | KH-9452 | 54.3 | 55.0 | 55.2 | 57.3 | 55.0 | 53.3 | 58.3 | 53.7 | 54.0 | 55.3 | 55.7 |
| 8 | HYBRID VMH-4060 | 54.0 | 50.7 | 53.0 | 58.7 | 55.7 | 51.7 | 56.3 | 51.0 | 52.0 | 54.2 | 54.1 |
| 9 | KMH-3712 | 53.3 | 53.0 | 53.1 | 56.0 | 55.3 | 53.0 | 59.0 | 50.7 | 50.0 | 54.0 | 54.3 |
| 10 | BL-2802 | 55.0 | 55.0 | 54.6 | 57.3 | 57.0 | 54.3 | 62.0 | 53.0 | 54.0 | 56.3 | 55.5 |
| 11 | MCH-37 | 54.3 | 54.0 | 55.1 | 58.3 | 56.7 | 52.7 | 58.0 | 53.0 | 53.0 | 55.3 | 55.6 |
| | CHECKS | | | | | | | | | | | |
| 12 | NAVJOT | 53.0 | 49.0 | 51.4 | 59.0 | 51.7 | 48.0 | 52.0 | 49.0 | 48.0 | 51.3 | 52.1 |
| 13 | HM-9 | 53.0 | 53.3 | 52.6 | 59.0 | 57.0 | 52.3 | 59.7 | 50.3 | 50.0 | 54.7 | 53.7 |
| | Loc. Mean | 54.2 | 52.4 | 53.8 | 57.7 | 56.1 | 52.7 | 57.9 | 51.3 | 51.5 | 54.5 | 54.6 |
| | C.D. (5%) | 2.03 | 0.96 | 1.37 | 2.10 | 1.42 | 2.00 | 4.85 | 2.29 | 0.74 | 1.87 | 1.12 |
| | C.V. (%) | 2.22 | 1.09 | 2.21 | 2.16 | 1.50 | 2.25 | 4.97 | 2.65 | 0.85 | 2.96 | 3.03 |
| | F (Prob.) | 0.22 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 10 (Continued)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | Zone | | | | | | | |
|----------|-----------------|----------------------|------|------|-------|-------|------|------|------|------|------|------|------|------|
| | | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean |
| 1 | JH-31240 | 88.7 | 83.3 | 83.7 | 104.3 | 86.7 | 89.3 | 82.3 | 88.7 | 91.0 | 89.7 | 93.0 | 81.0 | 87.6 |
| 2 | JH-31242 | 91.3 | 83.3 | 81.7 | 101.0 | 86.7 | 88.8 | 83.3 | 87.0 | 87.7 | 87.7 | 93.0 | 78.3 | 86.2 |
| 3 | BH-406126 | 90.7 | 83.3 | 80.7 | 99.0 | 89.7 | 88.7 | 83.7 | 88.0 | 90.0 | 89.7 | 94.0 | 85.7 | 88.5 |
| 4 | BH-408005 | 92.7 | 83.7 | 87.0 | 104.3 | 89.7 | 91.5 | 87.7 | 91.3 | 96.0 | 92.0 | 93.0 | 87.0 | 91.2 |
| 5 | EC-3160 | 87.7 | 83.0 | 82.3 | 99.7 | 66.0 | 83.7 | 82.0 | 91.3 | 90.0 | 87.7 | 94.3 | 79.7 | 87.5 |
| 6 | KH-717 | 91.0 | 83.3 | 87.0 | 104.3 | 88.7 | 90.9 | 86.7 | 89.3 | 89.7 | 88.7 | 94.0 | 87.0 | 89.2 |
| 7 | KH-9452 | 88.7 | 82.7 | 85.0 | 103.0 | 87.0 | 89.3 | 85.7 | 91.0 | 88.3 | 89.7 | 94.0 | 83.3 | 88.7 |
| 8 | HYBRID VMH-4060 | 86.3 | 83.7 | 85.3 | 107.0 | 89.7 | 90.4 | 84.7 | 89.7 | 86.7 | 95.0 | 95.3 | 86.7 | 89.7 |
| 9 | KMH-3712 | 89.3 | 84.7 | 81.0 | 104.0 | 88.3 | 89.5 | 85.0 | 91.0 | 90.3 | 85.7 | 93.7 | 82.3 | 88.0 |
| 10 | BL-2802 | 87.3 | 83.7 | 83.3 | 105.0 | 79.0 | 87.7 | 85.7 | 89.0 | 92.0 | 89.7 | 92.7 | 82.0 | 88.5 |
| 11 | MCH-37 | 87.7 | 84.0 | 85.3 | 110.3 | 88.7 | 91.2 | 86.7 | 90.3 | 93.7 | 89.3 | 93.0 | 84.0 | 89.5 |
| | CHECKS | | | | | | | | | | | | | |
| 12 | NAVJOT | 84.3 | 80.7 | 78.7 | 101.7 | 89.3 | 86.9 | 80.7 | 89.0 | 85.0 | 84.7 | 92.7 | 77.7 | 84.9 |
| 13 | HM-9 | 86.0 | 83.0 | 81.3 | 101.0 | 91.7 | 88.6 | 84.3 | 93.7 | 89.0 | 88.7 | 93.7 | 82.3 | 88.6 |
| | Loc. Mean | 88.6 | 83.3 | 83.3 | 103.4 | 86.2 | 89.0 | 84.5 | 89.9 | 89.9 | 89.1 | 93.6 | 82.8 | 88.3 |
| | C.D. (5%) | 5.58 | 2.52 | 2.86 | 3.77 | 19.99 | 4.39 | 2.21 | 4.12 | 1.66 | 2.34 | 2.53 | 0.76 | 2.19 |
| | C.V. (%) | 3.74 | 1.79 | 2.04 | 2.17 | 13.75 | 3.88 | 1.55 | 2.72 | 1.09 | 1.56 | 1.61 | 0.54 | 2.15 |
| | F (Prob.) | 0.17 | 0.37 | 0.00 | 0.00 | 0.49 | 0.08 | 0.00 | 0.18 | 0.00 | 0.00 | 0.65 | 0.00 | 0.00 |

Table No. 10 (Continued)

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

Table No. 10 (Continued)

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

Table No. 10 (Continued)

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

Table No. 10 (Continued)

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

Table No. 10 (Continued)

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

Table No. 10 (Continued)

| | | GRAIN SHELLING % | | | | | | | | | | | | | |
|--------|-----------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | Zone | | | | | | Zone | | | | | | | |
| No | PEDIGREE | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | JASH | VARA | RANC | AMBI | Mean | ARBH | HYDE |
| 1 | JH-31240 | 86.2 | 84.8 | 84.9 | 85.7 | 73.0 | 82.9 | 77.5 | 78.1 | 81.5 | 87.5 | 84.0 | 81.7 | 83.7 | 77.9 |
| 2 | JH-31242 | 83.6 | 83.9 | 85.6 | 83.3 | 73.5 | 82.0 | 78.4 | 78.8 | 77.5 | 86.2 | 83.3 | 80.8 | 81.9 | 81.2 |
| 3 | BH-406126 | 84.7 | 84.9 | 81.6 | 83.3 | 72.5 | 81.4 | 70.7 | 79.0 | 78.5 | 85.0 | 84.6 | 79.6 | 81.4 | 76.4 |
| 4 | BH-408005 | 83.0 | 83.9 | 82.3 | 83.3 | 75.0 | 81.5 | 76.4 | 80.1 | 78.0 | 85.7 | 83.7 | 80.8 | 83.0 | 75.6 |
| 5 | EC-3160 | 82.5 | 84.9 | 83.8 | 85.7 | 74.5 | 82.3 | 73.4 | 78.0 | 80.0 | 83.3 | 83.6 | 79.7 | 83.6 | 77.8 |
| 6 | KH-717 | 85.6 | 83.9 | 87.2 | 85.7 | 72.0 | 82.9 | 80.0 | 82.4 | 78.0 | 86.6 | 84.4 | 82.3 | 84.4 | 79.5 |
| 7 | KH-9452 | 85.5 | 78.3 | 82.6 | 85.7 | 76.5 | 81.7 | 77.1 | 77.3 | 79.0 | 87.3 | 83.8 | 80.9 | 85.0 | 77.6 |
| 8 | HYBRID VMH-4060 | 88.1 | 85.8 | 85.7 | 86.6 | 75.0 | 84.2 | 77.1 | 79.4 | 79.0 | 87.9 | 84.0 | 81.5 | 84.5 | 78.5 |
| 9 | KMH-3712 | 86.7 | 87.9 | 84.0 | 87.5 | 76.0 | 84.4 | 74.1 | 77.9 | 77.0 | 88.2 | 84.6 | 80.3 | 84.2 | 76.0 |
| 10 | BL-2802 | 83.9 | 79.8 | 80.8 | 85.7 | 72.5 | 80.5 | 76.4 | 78.2 | 75.0 | 87.5 | 82.3 | 79.9 | 79.6 | 75.0 |
| 11 | MCH-37 | 82.1 | 84.5 | 86.1 | 83.3 | 76.0 | 82.4 | 77.8 | 78.8 | 77.5 | 88.2 | 83.3 | 81.1 | 81.2 | 74.5 |
| CHECKS | | | | | | | | | | | | | | | |
| 12 | NAVJOT | 84.8 | 83.4 | 81.4 | 80.0 | 74.0 | 80.7 | 79.2 | 78.0 | 78.0 | 81.7 | 84.1 | 80.2 | 80.4 | 78.7 |
| 13 | HM-9 | 83.0 | 82.3 | 84.6 | 78.6 | 77.0 | 81.1 | 73.3 | 77.4 | 76.0 | 86.1 | 84.4 | 79.4 | 81.5 | 74.0 |
| | Loc. Mean | 84.6 | 83.7 | 83.9 | 84.2 | 74.4 | 82.2 | 76.2 | 78.7 | 78.1 | 86.2 | 83.9 | 80.6 | 82.6 | 77.1 |
| | C.D. (5%) | 1.00 | 2.62 | 1.16 | - | 1.93 | 2.50 | 2.77 | - | 0.00 | 1.53 | 2.67 | 2.21 | 2.54 | 2.56 |
| | C.V. (%) | 0.70 | 1.86 | 0.82 | - | 1.54 | 2.39 | 2.16 | - | 0.00 | 1.05 | 1.89 | 2.15 | 1.82 | 1.97 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | - | 0.00 | 0.00 | 0.91 | 0.26 | 0.00 | 0.00 |

Table No. 10 (Continued)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | Zone Mean | OV'L Mean | STAND AT HARVEST ('000/ha) | | | | | Zone Mean | BAHR | DHOL |
|----------|-----------------|------------------|------|------|------|--------------|--------------|----------------------------|------|------|------|------|--------------|------|------|
| | | KARI | KOLH | MAND | COIM | | | DELH | KARN | LUDH | PANT | KANP | | | |
| 1 | JH-31240 | 79.7 | 81.7 | 82.6 | 83.1 | 81.4 | 82.0 | 49 | 58 | 64 | 51 | 78 | 60 | 69 | 48 |
| 2 | JH-31242 | 70.7 | 85.0 | 82.8 | 83.2 | 80.8 | 81.2 | 58 | 58 | 71 | 63 | 77 | 65 | 73 | 50 |
| 3 | BH-406126 | 78.0 | 84.2 | 81.0 | 76.7 | 79.6 | 80.2 | 41 | 55 | 61 | 54 | 77 | 58 | 64 | 40 |
| 4 | BH-408005 | 72.0 | 84.8 | 82.4 | 80.5 | 79.7 | 80.6 | 30 | 53 | 60 | 48 | 78 | 54 | 61 | 38 |
| 5 | EC-3160 | 74.0 | 83.9 | 75.9 | 82.1 | 79.5 | 80.4 | 57 | 54 | 63 | 65 | 77 | 63 | 69 | 49 |
| 6 | KH-717 | 73.3 | 80.6 | 82.9 | 82.9 | 80.6 | 81.8 | 49 | 61 | 62 | 58 | 75 | 61 | 72 | 42 |
| 7 | KH-9452 | 73.7 | 85.2 | 81.5 | 78.5 | 80.2 | 80.9 | 56 | 63 | 70 | 62 | 78 | 66 | 74 | 48 |
| 8 | HYBRID VMH-4060 | 74.7 | 86.1 | 81.1 | 82.8 | 81.3 | 82.3 | 58 | 61 | 66 | 56 | 79 | 64 | 65 | 49 |
| 9 | KMH-3712 | 73.0 | 84.8 | 78.7 | 79.7 | 79.4 | 81.3 | 65 | 56 | 66 | 59 | 79 | 65 | 74 | 50 |
| 10 | BL-2802 | 71.3 | 81.0 | 76.0 | 74.3 | 76.2 | 78.7 | 48 | 61 | 66 | 60 | 76 | 62 | 72 | 48 |
| 11 | MCH-37 | 66.0 | 85.0 | 76.4 | 77.6 | 76.8 | 79.9 | 50 | 58 | 61 | 52 | 78 | 60 | 72 | 50 |
| | CHECKS | | | | | | | | | | | | | | |
| 12 | NAVJOT | 76.3 | 83.6 | 83.1 | 77.2 | 79.9 | 80.2 | 62 | 54 | 63 | 61 | 76 | 63 | 64 | 49 |
| 13 | HM-9 | 75.3 | 81.0 | 77.8 | 75.4 | 77.5 | 79.2 | 68 | 62 | 68 | 63 | 80 | 68 | 70 | 44 |
| | Loc. Mean | 73.7 | 83.6 | 80.2 | 79.5 | 79.5 | 80.7 | 53 | 58 | 65 | 58 | 78 | 62 | 69 | 47 |
| | C.D. (5%) | 4.77 | 3.44 | 3.28 | 1.15 | 2.55 | 1.42 | 14.2 | 5.0 | 5.0 | 10.6 | 2.4 | 5.9 | 3.6 | 5.6 |
| | C.V. (%) | 3.84 | 2.44 | 2.43 | 0.86 | 2.78 | 2.51 | 15.9 | 5.2 | 4.6 | 10.9 | 1.8 | 7.5 | 3.1 | 7.1 |
| | F (Prob.) | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 |

Table No. 10 (Continued)

| S1 No | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | Zone Mean | OV'L Mean | |
|----------|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|--------------|--------------|------|
| | | JASH | VARA | RANC | AMBI | ARBH | HYDE | KARI | KOLH | MAND | COIM | | | |
| 1 | JH-31240 | 55 | 73 | 59 | 58 | 60 | 53 | 60 | 60 | 54 | 55 | 66 | 58 | 59 |
| 2 | JH-31242 | 56 | 76 | 54 | 73 | 63 | 53 | 58 | 62 | 62 | 59 | 66 | 60 | 63 |
| 3 | BH-406126 | 56 | 71 | 60 | 65 | 59 | 45 | 54 | 61 | 40 | 50 | 67 | 53 | 56 |
| 4 | BH-408005 | 55 | 72 | 39 | 50 | 52 | 36 | 52 | 59 | 41 | 57 | 67 | 52 | 53 |
| 5 | EC-3160 | 54 | 77 | 40 | 61 | 58 | 48 | 53 | 60 | 66 | 57 | 66 | 58 | 60 |
| 6 | KH-717 | 54 | 76 | 52 | 58 | 59 | 45 | 54 | 60 | 56 | 55 | 67 | 56 | 59 |
| 7 | KH-9452 | 57 | 82 | 52 | 69 | 64 | 54 | 55 | 60 | 63 | 57 | 66 | 59 | 63 |
| 8 | HYBRID VMH-4060 | 55 | 80 | 55 | 59 | 60 | 55 | 51 | 61 | 55 | 57 | 66 | 57 | 60 |
| 9 | KMH-3712 | 56 | 79 | 55 | 68 | 64 | 55 | 57 | 61 | 57 | 57 | 66 | 59 | 62 |
| 10 | BL-2802 | 56 | 78 | 53 | 69 | 63 | 52 | 56 | 59 | 49 | 58 | 66 | 57 | 60 |
| 11 | MCH-37 | 54 | 78 | 54 | 62 | 62 | 51 | 56 | 61 | 51 | 58 | 66 | 57 | 59 |
| | CHECKS | | | | | | | | | | | | | |
| 12 | NAVJOT | 54 | 76 | 49 | 61 | 59 | 41 | 53 | 60 | 64 | 57 | 66 | 57 | 60 |
| 13 | HM-9 | 58 | 78 | 49 | 68 | 61 | 60 | 51 | 61 | 61 | 58 | 66 | 60 | 63 |
| | Loc. Mean | 55 | 77 | 52 | 63 | 60 | 50 | 55 | 60 | 55 | 57 | 66 | 57 | 60 |
| | C.D. (5%) | 3.7 | 6.6 | 9.1 | 12.0 | 4.3 | 8.0 | 3.4 | 3.5 | 14.0 | 4.7 | 0.9 | 4.9 | 2.8 |
| | C.V. (%) | 3.9 | 5.1 | 10.4 | 11.3 | 6.1 | 9.6 | 3.7 | 3.5 | 15.0 | 4.9 | 0.8 | 7.4 | 6.9 |
| | F (Prob.) | 0.42 | 0.07 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.90 | 0.01 | 0.11 | 0.74 | 0.06 | 0.00 |

TABLE No. 11

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA IN AET 1st YEAR, TRIAL No. TR66Z5 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | |
|---------------|----------------------|-------------------------------------|---|-------|---|-------|---|--------------|---|--------------|---|--|------|-------|--------------|--------------|---|
| | | UDAI | R | BANS | R | CHHI | R | ZN 5 MEAN | R | ZN 5 GODH | R | UDAI | BANS | CHHI | ZN 5 MEAN | ZN 5 GODH | |
| 1 | JH-31242 | 6098 | 5 | 5614 | 3 | 2973 | 6 | 4895 | 5 | 7036 | 2 | 59.7 | 13.7 | 50.3 | 36.8 | 35 | - |
| 2 | EH-1858 | 7874 | 1 | 5227 | 5 | 3472 | 5 | 5524 | 3 | 5819 | 4 | 106.3 | 5.8 | 75.5 | 54.4 | 11.7 | - |
| 3 | EH-1877 | 7614 | 2 | 5975 | 2 | 3632 | 3 | 5740 | 2 | 5620 | 5 | 99.5 | 21 | 83.6 | 60.4 | 7.8 | - |
| 4 | BH-406126 | 6538 | 3 | 4888 | 7 | 2292 | 8 | 4572 | 8 | 3712 | 8 | 71.3 | - | 15.8 | 27.8 | - | - |
| 5 | BH-408005 | 5796 | 7 | 4788 | 8 | 4776 | 2 | 5120 | 4 | 3222 | 9 | 51.8 | - | 141.4 | 43.1 | - | - |
| 6 | KMH-3712 | 5943 | 6 | 6270 | 1 | 5184 | 1 | 5799 | 1 | 7866 | 1 | 55.7 | 27 | 162 | 62.1 | 50.9 | - |
| 7 | BL-2802 | 5351 | 8 | 5451 | 4 | 3590 | 4 | 4797 | 6 | 6083 | 3 | 40.2 | 10.4 | 81.5 | 34.1 | 16.7 | - |
| CHECKS | | | | | | | | | | | | | | | | | |
| 8 | NAVJOT | 3817 | 9 | 4939 | 6 | 1978 | 9 | 3578 | 9 | 5212 | 6 | - | - | - | - | - | - |
| 9 | HM-9 | 6503 | 4 | 4324 | 9 | 2965 | 7 | 4598 | 7 | 4331 | 7 | 70.4 | - | 49.9 | 28.5 | - | - |
| | Location Mean | 6170 | | 5275 | | 3429 | | 4958 | | 5434 | | | | | | | |
| | Mean Stand | 60 | | 60 | | 79 | | 66 | | 57 | | | | | | | |
| | C.D. (5%) | 925 | | 461 | | 501 | | 629 | | 1420 | | | | | | | |
| | C.V. (%) | 8.61 | | 5.03 | | 8.39 | | - | | 15.02 | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | | | | | | |
| | Plot Size | 9.6 | | 9.6 | | 12 | | - | | 9.6 | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 8-07 | | 14-07 | | - | | 14-07 | | | | | | | |
| | Harvest Date | 1-10 | | 25-10 | | 9-11 | | - | | 9-10 | | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | - | | | | | | | |
| | Fertilizer Applied N | 90 | | 120 | | 120 | | - | | 100 | | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 60 | | - | | 50 | | | | | | | |
| | Fertilizer Applied K | - | | - | | 40 | | - | | 50 | | | | | | | |

TABLE No. 11 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | GODH | GRAIN YIELD % SUPER. | | | OVER HM-9 | |
|----------|-----------|-------------------------|------|------|--------------|------|----------------------|------|------|--------------|--------------|
| | | UDAI | BANS | CHHI | Zone Mean | | UDAI | BANS | CHHI | ZN 5 MEAN | ZN 5 GODH |
| 1 | JH-31242 | 54.7 | 47.7 | 52.7 | 51.7 | 49.3 | - | 29.8 | 0.3 | 6.5 | 62.5 |
| 2 | EH-1858 | 51.0 | 48.0 | 55.0 | 51.3 | 51.3 | 21.1 | 20.9 | 17.1 | 20.2 | 34.4 |
| 3 | EH-1877 | 51.0 | 46.7 | 54.7 | 50.8 | 50.7 | 17.1 | 38.2 | 22.5 | 24.9 | 29.8 |
| 4 | BH-406126 | 56.3 | 50.7 | 56.0 | 54.3 | 52.3 | 0.5 | 13 | - | - | - |
| 5 | BH-408005 | 60.0 | 48.3 | 55.7 | 54.7 | 54.7 | - | 10.7 | 61.1 | 11.4 | - |
| 6 | KMH-3712 | 54.7 | 49.3 | 52.0 | 52.0 | 49.7 | - | 45 | 74.8 | 26.1 | 81.6 |
| 7 | BL-2802 | 56.0 | 48.3 | 56.0 | 53.4 | 52.0 | - | 26.1 | 21.1 | 4.3 | 40.4 |
| CHECKS | | | | | | | | | | | |
| 8 | NAVJOT | 53.3 | 46.0 | 51.0 | 50.1 | 47.7 | - | 14.2 | - | - | 20.3 |
| 9 | HM-9 | 55.3 | 49.0 | 52.0 | 52.1 | 49.0 | - | - | - | - | - |
| | Loc. Mean | 54.7 | 48.2 | 53.9 | 52.3 | 50.7 | | | | | |
| | C.D. (5%) | 1.15 | 1.75 | 1.37 | 3.05 | 1.30 | | | | | |
| | C.V. (%) | 1.21 | 2.10 | 1.47 | 3.37 | 1.48 | | | | | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | | | | | |
| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | GODH | DAYS TO 75% DRY HUSK | | | Zone | |
| | | UDAI | BANS | CHHI | Zone Mean | | UDAI | BANS | CHHI | Mean | GODH |
| 1 | JH-31242 | 56.7 | 50.7 | 54.7 | 54.0 | 50.7 | 88.7 | 76.7 | 85.7 | 83.7 | 77.7 |
| 2 | EH-1858 | 52.0 | 51.3 | 55.7 | 53.0 | 51.3 | 90.7 | 79.0 | 87.0 | 85.6 | 79.7 |
| 3 | EH-1877 | 52.3 | 50.0 | 56.0 | 52.8 | 51.0 | 90.7 | 73.7 | 87.7 | 84.0 | 78.0 |
| 4 | BH-406126 | 58.3 | 54.0 | 57.7 | 56.7 | 53.3 | 89.7 | 80.7 | 88.0 | 86.1 | 76.7 |
| 5 | BH-408005 | 62.7 | 51.7 | 56.3 | 56.9 | 54.3 | 93.7 | 75.7 | 89.3 | 86.2 | 75.3 |
| 6 | KMH-3712 | 55.7 | 53.3 | 52.0 | 53.7 | 49.7 | 88.7 | 80.0 | 89.3 | 86.0 | 72.7 |
| 7 | BL-2802 | 57.3 | 51.3 | 56.3 | 55.0 | 52.0 | 84.3 | 78.3 | 87.3 | 83.3 | 76.7 |
| CHECKS | | | | | | | | | | | |
| 8 | NAVJOT | 56.7 | 49.7 | 53.0 | 53.1 | 49.7 | 86.0 | 75.7 | 82.7 | 81.4 | 77.3 |
| 9 | HM-9 | 57.3 | 52.0 | 54.0 | 54.4 | 50.7 | 91.0 | 80.0 | 86.7 | 85.9 | 75.0 |
| | Loc. Mean | 56.6 | 51.6 | 55.1 | 54.4 | 51.4 | 89.3 | 77.7 | 87.1 | 84.7 | 76.6 |
| | C.D. (5%) | 0.93 | 1.89 | 1.15 | 3.56 | 1.05 | 1.94 | 2.47 | 1.38 | 3.77 | 1.15 |
| | C.V. (%) | 0.95 | 2.12 | 1.20 | 3.78 | 1.18 | 1.26 | 1.84 | 0.91 | 2.57 | 0.87 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 |

TABLE No. 11 (Cont..)

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

TABLE No. 12

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

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

GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-5

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

TABLE No. 12 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | Zone | DAYS TO 50% SILKING | | | | Zone |
|----------|----------------|-------------------------|-------|-------|------|-------|-----------------------|------|------|------|------|
| | | ALMO | BAJA | BARA | KANG | Mean | ALMO | BAJA | BARA | KANG | Mean |
| 1 | COMP.R-2006-1 | 62.3 | 59.8 | 56.8 | 50.7 | 57.4 | 63.5 | 62.8 | 59.0 | 53.3 | 59.6 |
| 2 | UMC-10 | 55.3 | 54.8 | 56.3 | 49.7 | 54.0 | 56.5 | 56.8 | 58.5 | 52.7 | 56.1 |
| 3 | KML-9 | 63.0 | 59.0 | 56.0 | 47.7 | 56.4 | 63.5 | 62.0 | 58.3 | 50.7 | 58.6 |
| 4 | KML-15 | 55.8 | 56.8 | 56.5 | 49.7 | 54.7 | 56.8 | 58.8 | 58.5 | 52.7 | 56.7 |
| | CHECKS | | | | | | | | | | |
| 5 | PARKASH | 55.3 | 56.8 | 58.0 | 48.0 | 54.5 | 55.3 | 58.8 | 60.3 | 51.3 | 56.4 |
| 6 | PRATAP MAKKA-4 | 56.5 | 55.8 | 57.3 | 48.3 | 54.5 | 57.5 | 58.3 | 59.5 | 52.3 | 56.9 |
| 7 | PRATAP MAKKA-5 | 56.0 | 55.3 | 57.3 | 49.7 | 54.5 | 57.0 | 57.8 | 60.0 | 52.3 | 56.8 |
| | Loc. Mean | 57.7 | 56.9 | 56.9 | 49.1 | 55.1 | 58.6 | 59.3 | 59.1 | 52.2 | 57.3 |
| | C.D. (5%) | 1.06 | 2.47 | 7.05 | 1.01 | 2.78 | 1.01 | 2.84 | 7.08 | 1.03 | 2.89 |
| | C.V. (%) | 1.23 | 2.92 | 8.35 | 1.16 | 3.39 | 1.16 | 3.23 | 8.06 | 1.11 | 3.39 |
| | F (Prob.) | 0.00 | 0.00 | 1.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.99 | 0.00 | 0.15 |
| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | Zone | MOISTURE % AT HARVEST | | | | Zone |
| | | ALMO | BAJA | BARA | KANG | Mean | ALMO | BAJA | BARA | KANG | Mean |
| 1 | COMP.R-2006-1 | 110.3 | 105.8 | 98.0 | 84.7 | 99.7 | 37.2 | 27.8 | 21.5 | 26.2 | 28.2 |
| 2 | UMC-10 | 95.3 | 93.5 | 99.3 | 86.3 | 93.6 | 31.3 | 20.9 | 21.8 | 24.8 | 24.7 |
| 3 | KML-9 | 110.5 | 104.5 | 98.3 | 86.7 | 100.0 | 37.7 | 26.8 | 22.0 | 25.7 | 28.0 |
| 4 | KML-15 | 101.0 | 99.8 | 98.0 | 85.7 | 96.1 | 32.8 | 24.5 | 20.8 | 26.1 | 26.0 |
| | CHECKS | | | | | | | | | | |
| 5 | PARKASH | 98.0 | 90.0 | 101.0 | 84.7 | 93.4 | 29.3 | 19.6 | 21.8 | 25.5 | 24.0 |
| 6 | PRATAP MAKKA-4 | 97.8 | 92.8 | 99.0 | 85.3 | 93.7 | 32.3 | 25.6 | 21.0 | 25.0 | 26.0 |
| 7 | PRATAP MAKKA-5 | 98.3 | 96.3 | 98.8 | 85.7 | 94.7 | 29.1 | 23.8 | 22.0 | 24.7 | 24.9 |
| | Loc. Mean | 101.6 | 97.5 | 98.9 | 85.6 | 95.9 | 32.8 | 24.1 | 21.5 | 25.4 | 26.0 |
| | C.D. (5%) | 1.54 | 2.21 | 8.80 | 1.68 | 5.73 | 1.64 | 1.51 | 1.01 | 1.90 | 2.85 |
| | C.V. (%) | 1.02 | 1.53 | 5.99 | 1.10 | 4.02 | 3.37 | 4.22 | 3.15 | 4.20 | 7.39 |
| | F (Prob.) | 0.00 | 0.00 | 0.99 | 0.15 | 0.09 | 0.00 | 0.00 | 0.11 | 0.50 | 0.04 |

TABLE No. 12 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | | Zone Mean | EAR HEIGHT (cm) | | | | Zone Mean |
|----------|----------------|-------------------|------|------|--------------|--------------|----------------------------|------|------|------|--------------|
| | | ALMO | BAJA | KANG | Zone Mean | | ALMO | BAJA | BARA | KANG | |
| 1 | COMP.R-2006-1 | 257 | 188 | 204 | 216 | 139 | 88 | 56 | 118 | 100 | |
| 2 | UMC-10 | 264 | 179 | 215 | 219 | 155 | 89 | 60 | 106 | 102 | |
| 3 | KML-9 | 231 | 168 | 232 | 210 | 125 | 91 | 59 | 112 | 97 | |
| 4 | KML-15 | 245 | 168 | 239 | 217 | 127 | 83 | 56 | 122 | 97 | |
| | CHECKS | | | | | | | | | | |
| 5 | PARKASH | 262 | 186 | 228 | 225 | 148 | 96 | 59 | 102 | 101 | |
| 6 | PRATAP MAKKA-4 | 255 | 177 | 235 | 222 | 141 | 91 | 56 | 110 | 99 | |
| 7 | PRATAP MAKKA-5 | 268 | 189 | 234 | 230 | 155 | 94 | 55 | 114 | 104 | |
| | Loc. Mean | 255 | 179 | 227 | 220 | 141 | 90 | 57 | 112 | 100 | |
| | C.D. (5%) | 8.7 | 20.9 | 10.7 | 20.8 | 9.8 | 16.8 | 12.2 | 9.6 | 11.6 | |
| | C.V. (%) | 2.3 | 7.9 | 2.7 | 5.3 | 4.7 | 12.5 | 14.3 | 4.8 | 7.8 | |
| | F (Prob.) | 0.00 | 0.22 | 0.00 | 0.52 | 0.00 | 0.77 | 0.95 | 0.01 | 0.79 | |
| Sl No | PEDIGREE | GRAIN SHELLING % | | | | Zone Mean | STAND AT HARVEST ('000/ha) | | | | Zone Mean |
| | | ALMO | BAJA | BARA | KANG | | ALMO | BAJA | BARA | KANG | |
| 1 | COMP.R-2006-1 | 84.4 | 79.5 | 77.8 | 85.0 | 81.7 | 59 | 70 | 45 | 74 | 62 |
| 2 | UMC-10 | 84.9 | 78.0 | 80.5 | 84.0 | 81.8 | 60 | 72 | 48 | 73 | 63 |
| 3 | KML-9 | 87.0 | 79.7 | 77.8 | 81.5 | 81.5 | 60 | 68 | 41 | 69 | 60 |
| 4 | KML-15 | 82.3 | 77.6 | 80.5 | 80.5 | 80.2 | 60 | 70 | 48 | 74 | 63 |
| | CHECKS | | | | | | | | | | |
| 5 | PARKASH | 87.1 | 82.2 | 79.5 | 82.5 | 82.8 | 56 | 73 | 46 | 72 | 62 |
| 6 | PRATAP MAKKA-4 | 87.9 | 78.6 | 79.8 | 81.5 | 82.0 | 57 | 70 | 42 | 68 | 59 |
| 7 | PRATAP MAKKA-5 | 86.5 | 81.1 | 80.0 | 83.5 | 82.8 | 56 | 68 | 46 | 70 | 60 |
| | Loc. Mean | 85.7 | 79.5 | 79.4 | 82.6 | 81.8 | 58 | 70 | 45 | 71 | 61 |
| | C.D. (5%) | 1.44 | 0.00 | 7.58 | 1.91 | 2.35 | 4.1 | 7.3 | 11.5 | 5.1 | 2.8 |
| | C.V. (%) | 1.13 | 0.00 | 6.43 | 1.30 | 1.93 | 4.7 | 7.0 | 17.2 | 4.0 | 3.1 |
| | F (Prob.) | 0.00 | 0.00 | 0.97 | 0.00 | 0.35 | 0.11 | 0.68 | 0.80 | 0.12 | 0.03 |

TABLE No. 13

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

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

Table No. 13 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-4 | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-5 | | | | | |
|-------|----------------|---|------|------|-------|-----------|-----------|---|------|------|------|-----------|-----------|
| | | DELH | KARN | PANT | KANP | ZN 2 MEAN | RAIN LUDH | DELH | KARN | PANT | KANP | ZN 2 MEAN | RAIN LUDH |
| 1 | COMP.R-2006-1 | 46.8 | 13.8 | 31.4 | 84.7 | 41.5 | 20.9 | 16 | 10.5 | 45.6 | - | 15.9 | 14.8 |
| 2 | COMP.R-2007-1 | 39.1 | 53.1 | 66.9 | 102.7 | 65.9 | 26.9 | 9.9 | 48.6 | 84.8 | 6.3 | 35.9 | 20.5 |
| 3 | UMC-10 | - | 8.9 | 22.4 | 84.7 | 20.4 | 21.2 | - | 5.7 | 35.6 | - | - | 15.1 |
| 4 | UMC-11 | 7.8 | 10.3 | 25.1 | 74.1 | 28.8 | 23.6 | - | 7.1 | 38.5 | - | 5.5 | 17.4 |
| 5 | UMC-12 | 31.2 | 20.1 | 5 | 76.1 | 29.1 | 21.2 | 3.6 | 16.6 | 16.4 | - | 5.8 | 15.2 |
| 6 | KML-9 | - | - | 11 | 82.8 | 18.7 | - | - | - | 23 | - | - | - |
| | CHECKS | | | | | | | | | | | | |
| 7 | PARKASH | 102 | 12.8 | 45.3 | 50.9 | 49.1 | 65.8 | 59.6 | 9.4 | 60.9 | - | 22.2 | 57.5 |
| 8 | PRATAP MAKKA-4 | - | - | - | - | - | - | - | - | 10.8 | - | - | - |
| 9 | PRATAP MAKKA-5 | 26.5 | 3 | - | 90.7 | 22.1 | 5.3 | - | - | - | - | - | - |
| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | DAYS TO 50% SILKING | | | | | |
| | | DELH | KARN | PANT | KANP | Zone Mean | RAIN LUDH | DELH | KARN | PANT | KANP | Zone Mean | RAIN LUDH |
| 1 | COMP.R-2006-1 | 53.3 | 51.3 | 55.8 | 55.0 | 53.8 | 50.0 | 51.0 | 53.5 | 59.0 | 60.0 | 55.9 | 51.0 |
| 2 | COMP.R-2007-1 | 53.0 | 50.5 | 54.8 | 54.7 | 53.2 | 50.8 | 56.0 | 52.8 | 57.5 | 59.7 | 56.5 | 51.8 |
| 3 | UMC-10 | 47.3 | 42.8 | 50.3 | 51.7 | 48.0 | 49.5 | 50.3 | 45.3 | 52.5 | 57.3 | 51.4 | 50.5 |
| 4 | UMC-11 | 48.7 | 45.0 | 50.5 | 55.3 | 49.9 | 49.5 | 51.0 | 47.0 | 53.0 | 60.7 | 52.9 | 50.5 |
| 5 | UMC-12 | 47.7 | 44.0 | 50.3 | 50.7 | 48.1 | 50.3 | 51.0 | 46.0 | 52.5 | 56.3 | 51.5 | 51.3 |
| 6 | KML-9 | 52.7 | 52.5 | 57.5 | 53.7 | 54.1 | 50.3 | 52.3 | 54.5 | 59.8 | 59.0 | 56.4 | 51.3 |
| | CHECKS | | | | | | | | | | | | |
| 7 | PARKASH | 47.0 | 43.8 | 49.8 | 51.7 | 48.0 | 49.3 | 53.0 | 46.0 | 51.8 | 57.0 | 51.9 | 50.3 |
| 8 | PRATAP MAKKA-4 | 49.7 | 47.0 | 50.5 | 51.7 | 49.7 | 49.5 | 55.7 | 49.5 | 52.8 | 57.0 | 53.7 | 50.5 |
| 9 | PRATAP MAKKA-5 | 48.7 | 46.3 | 50.3 | 54.7 | 50.0 | 49.5 | 53.0 | 48.5 | 53.0 | 59.7 | 53.5 | 50.5 |
| | Loc. Mean | 49.8 | 47.0 | 52.2 | 53.2 | 50.5 | 49.8 | 52.6 | 49.2 | 54.6 | 58.5 | 53.7 | 50.8 |
| | C.D. (5%) | 3.58 | 3.19 | 1.75 | 0.91 | 2.08 | 0.93 | 6.35 | 3.18 | 2.10 | 1.15 | 2.97 | 0.93 |
| | C.V. (%) | 4.16 | 4.65 | 2.30 | 0.99 | 2.82 | 1.28 | 6.98 | 4.42 | 2.64 | 1.13 | 3.78 | 1.26 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |

Table No. 13 (Continued)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | Zone Mean | RAIN LUDH | MOISTURE % AT HARVEST | | | | Zone Mean | RAIN LUDH | PLANT HEIGHT (cm) | | | | Zone Mean | RAIN LUDH |
|--------|----------------|----------------------|-------|-------|-------|-----------|-----------|-----------------------|------|------|------|-----------|-----------|----------------------------|-------|-------|-------|-----------|-----------|
| | | DELH | KARN | PANT | KANP | | | DELH | KARN | PANT | KANP | | | DELH | KARN | PANT | KANP | | |
| 1 | COMP.R-2006-1 | 90.3 | 81.5 | 102.3 | 79.3 | 88.4 | 80.0 | 40.8 | 32.5 | 31.4 | 34.9 | 39.9 | 185.3 | 191.3 | 238.0 | 180.7 | 198.8 | 205 | |
| 2 | COMP.R-2007-1 | 90.0 | 81.5 | 102.3 | 78.3 | 88.0 | 81.0 | 39.6 | 31.7 | 26.3 | 32.5 | 40.0 | 173.3 | 196.3 | 228.5 | 209.3 | 201.9 | 193 | |
| 3 | UMC-10 | 82.0 | 74.8 | 101.0 | 77.7 | 83.9 | 79.8 | 34.5 | 30.3 | 24.4 | 29.7 | 28.2 | 169.3 | 192.5 | 216.5 | 196.3 | 193.7 | 189 | |
| 4 | UMC-11 | 81.3 | 77.8 | 99.8 | 79.3 | 84.5 | 79.8 | 40.0 | 30.7 | 25.5 | 32.0 | 30.0 | 165.7 | 183.8 | 225.0 | 194.3 | 192.2 | 178 | |
| 5 | UMC-12 | 85.3 | 78.0 | 98.3 | 76.7 | 84.6 | 80.5 | 32.5 | 30.8 | 23.0 | 28.8 | 29.6 | 178.0 | 188.8 | 225.0 | 195.3 | 196.8 | 185 | |
| 6 | KML-9 | 90.7 | 81.8 | 100.8 | 79.0 | 88.0 | 80.8 | 42.5 | 33.8 | 31.3 | 35.8 | 43.8 | 171.3 | 168.8 | 197.0 | 170.0 | 176.8 | 161 | |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 7 | PARKASH | 90.0 | 76.0 | 100.3 | 77.0 | 85.8 | 79.3 | 36.4 | 30.5 | 23.8 | 30.2 | 30.5 | 187.3 | 191.8 | 215.0 | 205.3 | 199.9 | 186 | |
| 8 | PRATAP MAKKA-4 | 85.0 | 78.0 | 99.5 | 78.0 | 85.1 | 80.0 | 35.1 | 32.4 | 26.4 | 31.3 | 32.6 | 160.7 | 177.0 | 214.0 | 181.0 | 183.2 | 183 | |
| 9 | PRATAP MAKKA-5 | 85.7 | 77.5 | 98.8 | 79.0 | 85.2 | 79.8 | 35.4 | 31.8 | 25.8 | 31.0 | 29.7 | 162.7 | 210.5 | 229.0 | 198.0 | 200.0 | 205 | |
| | Loc. Mean | 86.7 | 78.5 | 100.3 | 78.3 | 85.9 | 80.1 | 37.4 | 31.6 | 26.4 | 31.8 | 33.8 | 172.6 | 188.9 | 220.9 | 192.3 | 193.7 | 187 | |
| | C.D. (5%) | 2.70 | 2.96 | 2.25 | 2.70 | 2.77 | 1.09 | 5.96 | 0.46 | 2.99 | 2.87 | 0.39 | 22.0 | 14.8 | 15.8 | 1.0 | 13.0 | 19.1 | |
| | C.V. (%) | 1.80 | 2.59 | 1.53 | 1.99 | 2.21 | 0.93 | 9.20 | 0.99 | 7.77 | 5.21 | 0.79 | 7.3 | 5.4 | 4.9 | 0.3 | 4.6 | 7.0 | |
| | F (Prob.) | 0.00 | 0.00 | 0.01 | 0.34 | 0.01 | 0.06 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.01 | 0.0 | |
| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | | Zone Mean | RAIN LUDH | GRAIN SHELLING % | | | | Zone Mean | RAIN LUDH | STAND AT HARVEST ('000/ha) | | | | Zone Mean | RAIN LUDH |
| | | DELH | KARN | PANT | KANP | | | DELH | KARN | PANT | KANP | | | DELH | KARN | PANT | KANP | | |
| 1 | COMP.R-2006-1 | 96.0 | 91.3 | 111.5 | 80.0 | 94.7 | 104 | 86.5 | 82.7 | 85.1 | 73.5 | 81.9 | 81.9 | 55 | 58 | 58 | 79 | 62 | 58 |
| 2 | COMP.R-2007-1 | 86.0 | 98.8 | 99.5 | 107.0 | 97.8 | 81 | 84.4 | 86.4 | 86.7 | 75.0 | 83.1 | 84.3 | 64 | 56 | 63 | 81 | 66 | 56 |
| 3 | UMC-10 | 78.0 | 93.3 | 95.5 | 80.7 | 86.9 | 90 | 84.6 | 83.0 | 83.3 | 74.0 | 81.2 | 88.0 | 63 | 57 | 60 | 78 | 65 | 62 |
| 4 | UMC-11 | 74.7 | 86.3 | 92.5 | 71.3 | 81.2 | 90 | 81.9 | 83.3 | 86.7 | 72.5 | 81.1 | 86.6 | 47 | 56 | 59 | 77 | 60 | 60 |
| 5 | UMC-12 | 88.7 | 102.5 | 90.5 | 81.0 | 90.7 | 90 | 85.0 | 82.8 | 85.7 | 73.0 | 81.6 | 85.1 | 48 | 55 | 60 | 77 | 60 | 61 |
| 6 | KML-9 | 81.0 | 80.0 | 95.3 | 59.0 | 78.8 | 84 | 86.2 | 82.5 | 82.5 | 73.5 | 81.2 | 86.2 | 51 | 54 | 60 | 53 | 54 | 56 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 7 | PARKASH | 98.7 | 92.5 | 102.0 | 101.3 | 98.6 | 99 | 84.4 | 82.7 | 87.1 | 76.0 | 82.6 | 87.8 | 64 | 59 | 63 | 81 | 67 | 64 |
| 8 | PRATAP MAKKA-4 | 82.3 | 84.3 | 94.0 | 63.3 | 81.0 | 95 | 82.3 | 87.1 | 87.1 | 47.5 | 76.0 | 86.4 | 59 | 57 | 57 | 76 | 62 | 58 |
| 9 | PRATAP MAKKA-5 | 84.3 | 112.0 | 102.5 | 85.3 | 96.0 | 111 | 84.1 | 79.0 | 83.3 | 74.5 | 80.2 | 87.2 | 48 | 56 | 60 | 80 | 61 | 54 |
| | Loc. Mean | 85.5 | 93.4 | 98.1 | 81.0 | 89.5 | 94 | 84.4 | 83.3 | 85.3 | 71.1 | 81.0 | 85.9 | 55 | 56 | 60 | 76 | 62 | 59 |
| | C.D. (5%) | 20.1 | 14.0 | 8.9 | 2.2 | 12.2 | 19.2 | 1.8 | 1.0 | - | 14.4 | 7.2 | 0.79 | 10.0 | 4.5 | 6.0 | 22.8 | 7.5 | 5.3 |
| | C.V. (%) | 13.6 | 10.3 | 6.2 | 1.6 | 9.3 | 14.0 | 1.2 | 0.8 | - | 11.7 | 6.1 | 0.63 | 10.5 | 5.5 | 6.9 | 17.4 | 8.3 | 6.1 |
| | F (Prob.) | 0.28 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 0.00 | 0.02 | 0.69 | 0.00 | 0.00 | 0.46 | 0.52 | 0.29 | 0.07 | 0.0 |

TABLE No. 14

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 1st YEAR, TRIAL No. TR67Z-3,4 DURING KHARIF (2009).

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|------|---|-------|---|-------|---|
| S1 | | | | | | | | | | | | | | ZN 3 | | | | | |
| No | PEDIGREE | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R | ARBH | R | HYDE | R |
| 1 | COMP.R-2006-1 | 5560 | 4 | 3808 | 4 | 5226 | 1 | 3620 | 5 | 6275 | 1 | 5689 | 3 | 5030 | 3 | 5863 | 1 | 5224 | 3 |
| 2 | COMP.R-2007-1 | 6970 | 1 | 4631 | 3 | 4854 | 2 | 5373 | 1 | 5948 | 2 | 5663 | 4 | 5573 | 1 | 5382 | 3 | 5243 | 2 |
| 3 | UMC-10 | 6278 | 2 | 3739 | 5 | 3853 | 6 | 4526 | 3 | 5803 | 3 | 5973 | 2 | 5029 | 4 | 5373 | 4 | 4822 | 6 |
| 4 | UMC-11 | 5830 | 3 | 4977 | 2 | 4619 | 3 | 2958 | 8 | 4795 | 8 | 5573 | 5 | 4792 | 5 | 5296 | 5 | 5324 | 1 |
| 5 | KML-9 | 5015 | 6 | 3583 | 7 | 4096 | 5 | 3758 | 4 | 5784 | 4 | 5512 | 6 | 4625 | 6 | 5420 | 2 | 4749 | 7 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 6 | PARKASH | 5361 | 5 | 5044 | 1 | 4411 | 4 | 5169 | 2 | 5451 | 6 | 6266 | 1 | 5284 | 2 | 5213 | 6 | 4956 | 5 |
| 7 | PRATAP MAKKA-4 | 4066 | 8 | 3709 | 6 | 3312 | 7 | 3309 | 6 | 5682 | 5 | 4693 | 8 | 4129 | 7 | 4541 | 8 | 5042 | 4 |
| 8 | PRATAP MAKKA-5 | 4541 | 7 | 3385 | 8 | 3145 | 8 | 3099 | 7 | 5266 | 7 | 5082 | 7 | 4086 | 8 | 4778 | 7 | 4326 | 8 |
| | Location Mean | 5453 | | 4109 | | 4190 | | 3976 | | 5625 | | 5556 | | 4818 | | 5233 | | 4961 | |
| | Mean Stand | 67 | | 53 | | 52 | | 68 | | 56 | | 69 | | 61 | | 62 | | 66 | |
| | C.D. (5%) | 441 | | 857 | | 130 | | 363 | | 984 | | 664 | | 573 | | 554 | | 837 | |
| | C.V. (%) | 5.48 | | 14.13 | | 2.1 | | 6.19 | | 11.86 | | 8.1 | | - | | 7.18 | | 11.45 | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0.005 | | 0 | | - | | 0.002 | | 0.165 | |
| | Plot Size | 9.6 | | 12 | | 9.6 | | 9.6 | | 11.2 | | 9.6 | | - | | 12 | | 12 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 4-07 | | 7-07 | | 27-07 | | 9-07 | | 7-07 | | 18-07 | | - | | 17-07 | | 6-07 | |
| | Harvest Date | 13-10 | | - | | 7-11 | | 15-10 | | 19-10 | | - | | - | | 10-11 | | 16-11 | |
| | Irrigation Nos | - | | - | | - | | 1 | | - | | - | | - | | 6 | | 2 | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 100 | | - | | 80 | | - | | 150 | | 180 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 50 | | - | | 75 | | 60 | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | - | | 30 | | - | | 37.5 | | 50 | |

TABLE No. 14 (Cont..)

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

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

TABLE No. 14 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-4 | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--|
| S1 | ZN 3 | | | | | | | | | | | | |
| No PEDIGREE | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN | ARBH | HYDE | KARI | KOLH | MAND | |
| 1 COMP.R-2006-1 | 36.7 | 2.7 | 57.8 | 9.4 | 10.4 | 21.2 | 21.8 | 29.1 | 3.6 | 80.8 | 12 | 22.5 | |
| 2 COMP.R-2007-1 | 71.4 | 24.9 | 46.5 | 62.4 | 4.7 | 20.7 | 35 | 18.5 | 4 | 72 | 12.9 | 19.5 | |
| 3 UMC-10 | 54.4 | 0.8 | 16.3 | 36.8 | 2.1 | 27.3 | 21.8 | 18.3 | - | - | 32.7 | - | |
| 4 UMC-11 | 43.4 | 34.2 | 39.5 | - | - | 18.7 | 16.1 | 16.6 | 5.6 | 78.7 | 23.6 | 13.6 | |
| 5 KML-9 | 23.3 | - | 23.7 | 13.6 | 1.8 | 17.4 | 12 | 19.4 | - | - | 20.4 | - | |
| CHECKS | | | | | | | | | | | | | |
| 6 PARKASH | 31.8 | 36 | 33.2 | 56.2 | - | 33.5 | 28 | 14.8 | - | 53.5 | 32.9 | 9.3 | |
| 7 PRATAP MAKKA-4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8 PRATAP MAKKA-5 | 11.7 | - | - | - | - | 8.3 | - | 5.2 | - | - | 18.7 | 2.2 | |

| GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-4 | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--|
| S1 | ZN 4 | | | ZN 3 | | | | | | | | | |
| No PEDIGREE | COIM | MEAN | OV'L | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN | ARBH | HYDE | |
| 1 COMP.R-2006-1 | 32.7 | 27.3 | 25 | 22.4 | 12.5 | 66.2 | 16.8 | 19.2 | 12 | 23.1 | 22.7 | 20.7 | |
| 2 COMP.R-2007-1 | 50.8 | 28.8 | 31.5 | 53.5 | 36.8 | 54.3 | 73.4 | 13 | 11.4 | 36.4 | 12.7 | 21.2 | |
| 3 UMC-10 | 6.7 | 6.2 | 12.9 | 38.2 | 10.5 | 22.5 | 46 | 10.2 | 17.5 | 23.1 | 12.5 | 11.5 | |
| 4 UMC-11 | 12 | 20.6 | 18.7 | 28.4 | 47 | 46.9 | - | - | 9.7 | 17.3 | 10.8 | 23.1 | |
| 5 KML-9 | 17.9 | 6.4 | 8.8 | 10.4 | 5.8 | 30.2 | 21.3 | 9.8 | 8.5 | 13.2 | 13.5 | 9.8 | |
| CHECKS | | | | | | | | | | | | | |
| 6 PARKASH | 3 | 15.1 | 20.6 | 18 | 49 | 40.2 | 66.8 | 3.5 | 23.3 | 29.3 | 9.1 | 14.6 | |
| 7 PRATAP MAKKA-4 | - | - | - | - | 9.6 | 5.3 | 6.8 | 7.9 | - | 1 | - | 16.5 | |
| 8 PRATAP MAKKA-5 | 4.9 | 1.8 | 0.6 | - | - | - | - | - | - | - | - | - | |

TABLE No. 14 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-5 | | | | | ZN 4 MEAN | OV'L MEAN | DAYS TO 50% POLLEN SHED | | | | | | Zone Mean |
|----------|----------------|--|------|------|------|------|--------------|--------------|-------------------------|------|------|------|------|------|--------------|
| | | KARI | KOLH | MAND | COIM | BAHR | | | DHOL | JASH | VARA | RANC | AMBI | | |
| 1 | COMP.R-2006-1 | 107.6 | - | 19.9 | 26.5 | 25.1 | 24.2 | 53.8 | 57.5 | 52.5 | 57.8 | 51.0 | 52.8 | 54.2 | |
| 2 | COMP.R-2007-1 | 97.4 | - | 17 | 43.8 | 26.5 | 30.7 | 50.8 | 56.8 | 49.5 | 53.0 | 51.0 | 52.5 | 52.3 | |
| 3 | UMC-10 | - | 11.7 | - | 1.7 | 4.3 | 12.2 | 49.3 | 48.3 | 42.8 | 46.8 | 45.8 | 47.0 | 46.6 | |
| 4 | UMC-11 | 105.1 | 4.1 | 11.2 | 6.8 | 18.5 | 18 | 48.3 | 49.8 | 42.5 | 50.3 | 44.3 | 50.8 | 47.6 | |
| 5 | KML-9 | 3.4 | 1.4 | - | 12.4 | 4.6 | 8.2 | 51.0 | 58.3 | 52.5 | 54.5 | 49.3 | 52.8 | 53.0 | |
| CHECKS | | | | | | | | | | | | | | | |
| 6 | PARKASH | 76.2 | 11.9 | 7 | - | 13.1 | 19.9 | 46.5 | 49.3 | 42.5 | 50.0 | 45.8 | 49.3 | 47.2 | |
| 7 | PRATAP MAKKA-4 | 14.8 | - | - | - | - | - | 50.5 | 49.8 | 43.5 | 49.3 | 45.5 | 49.8 | 48.0 | |
| 8 | PRATAP MAKKA-5 | - | - | - | - | - | - | 50.5 | 48.8 | 43.3 | 48.0 | 45.3 | 48.0 | 47.3 | |
| | Loc. Mean | | | | | | | 50.1 | 52.3 | 46.1 | 51.2 | 47.2 | 50.3 | 49.5 | |
| | C.D. (5%) | | | | | | | 1.26 | 1.73 | 1.45 | 2.73 | 3.54 | 0.80 | 1.92 | |
| | C.V. (%) | | | | | | | 1.71 | 2.24 | 2.14 | 3.63 | 5.10 | 1.08 | 3.30 | |
| | F (Prob.) | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | Zone Mean | OV'L Mean | DAYS TO 50% SILKING | | | | | |
|----------|----------------|-------------------------|------|------|------|------|--------------|--------------|---------------------|------|------|------|------|------|
| | | ARBH | HYDE | KARI | KOLH | MAND | | | COIM | BAHR | DHOL | JASH | VARA | RANC |
| 1 | COMP.R-2006-1 | 57.8 | 45.3 | 53.8 | 53.3 | 52.5 | 53.3 | 52.6 | 53.4 | 55.8 | 58.8 | 55.0 | 61.5 | 55.0 |
| 2 | COMP.R-2007-1 | 57.0 | 47.5 | 51.3 | 53.0 | 51.8 | 52.8 | 52.2 | 52.2 | 50.3 | 57.8 | 52.3 | 57.5 | 55.0 |
| 3 | UMC-10 | 50.3 | 49.3 | 46.0 | 49.5 | 44.8 | 45.8 | 47.6 | 47.1 | 51.0 | 49.3 | 44.8 | 52.0 | 49.8 |
| 4 | UMC-11 | 51.3 | 50.3 | 45.3 | 49.8 | 45.3 | 45.8 | 47.9 | 47.8 | 50.3 | 50.8 | 44.8 | 56.3 | 48.3 |
| 5 | KML-9 | 57.5 | 51.5 | 54.8 | 53.3 | 52.5 | 53.3 | 53.8 | 53.4 | 53.0 | 59.3 | 55.3 | 59.8 | 53.3 |
| CHECKS | | | | | | | | | | | | | | |
| 6 | PARKASH | 51.8 | 49.3 | 47.3 | 50.0 | 47.0 | 46.0 | 48.5 | 47.9 | 48.5 | 50.3 | 44.5 | 53.5 | 49.8 |
| 7 | PRATAP MAKKA-4 | 51.5 | 49.3 | 46.0 | 51.0 | 46.3 | 46.0 | 48.3 | 48.2 | 52.5 | 50.8 | 45.5 | 55.3 | 49.5 |
| 8 | PRATAP MAKKA-5 | 50.5 | 48.8 | 46.5 | 49.0 | 44.8 | 47.0 | 47.8 | 47.5 | 52.8 | 49.8 | 45.0 | 54.3 | 49.3 |
| | Loc. Mean | 53.4 | 48.9 | 48.8 | 51.1 | 48.1 | 48.7 | 49.8 | 49.7 | 51.8 | 53.3 | 48.4 | 56.3 | 51.2 |
| | C.D. (5%) | 1.27 | 1.79 | 1.16 | 2.02 | 1.48 | 0.55 | 2.26 | 1.44 | 3.09 | 1.77 | 1.61 | 2.91 | 3.54 |
| | C.V. (%) | 1.61 | 2.50 | 1.62 | 2.69 | 2.09 | 0.76 | 3.87 | 3.55 | 4.06 | 2.26 | 2.27 | 3.52 | 4.70 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 14 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | Zone Mean | OV'L Mean | DAYS TO 75% DRY HUSK | | |
|----------|----------------|----------------------|--------------|------|--------------|------|------|------|------|------|--------------|--------------|----------------------|------|--|
| | | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | BAHR | | | DHOL | JASH | |
| 1 | COMP.R-2006-1 | 55.8 | 57.0 | 58.8 | 49.0 | 56.0 | 54.5 | 53.8 | 55.3 | 54.5 | 55.8 | 90.0 | 92.5 | 94.5 | |
| 2 | COMP.R-2007-1 | 55.3 | 54.7 | 58.3 | 52.0 | 53.5 | 54.0 | 53.5 | 54.8 | 54.3 | 54.5 | 84.0 | 93.8 | 91.8 | |
| 3 | UMC-10 | 49.5 | 49.4 | 50.5 | 50.8 | 47.8 | 50.5 | 46.3 | 47.8 | 48.9 | 49.1 | 78.0 | 84.3 | 83.5 | |
| 4 | UMC-11 | 53.3 | 50.6 | 52.5 | 50.8 | 47.3 | 50.8 | 46.5 | 47.8 | 49.3 | 49.9 | 80.5 | 85.3 | 84.8 | |
| 5 | KML-9 | 55.3 | 56.0 | 58.3 | 53.0 | 56.8 | 54.3 | 54.5 | 55.3 | 55.3 | 55.6 | 86.5 | 89.8 | 91.8 | |
| | CHECKS | | | | | | | | | | | | | | |
| 6 | PARKASH | 52.0 | 49.8 | 51.3 | 51.8 | 48.5 | 51.0 | 49.0 | 48.0 | 49.9 | 49.8 | 79.3 | 87.3 | 87.0 | |
| 7 | PRATAP MAKKA-4 | 52.8 | 51.0 | 52.0 | 51.5 | 47.5 | 52.0 | 48.3 | 48.0 | 49.9 | 50.5 | 86.3 | 84.0 | 83.3 | |
| 8 | PRATAP MAKKA-5 | 51.0 | 50.3 | 51.0 | 51.0 | 48.0 | 50.0 | 46.0 | 49.0 | 49.2 | 49.8 | 85.3 | 82.5 | 83.8 | |
| | Loc. Mean | 53.1 | 52.3 | 54.1 | 51.2 | 50.7 | 52.1 | 49.7 | 50.7 | 51.4 | 51.9 | 83.7 | 87.4 | 87.5 | |
| | C.D. (5%) | 0.97 | 2.11 | 0.98 | 1.74 | 1.41 | 2.02 | 1.83 | 0.55 | 2.00 | 1.40 | 4.88 | 1.61 | 2.10 | |
| | C.V. (%) | 1.24 | 3.43 | 1.24 | 2.31 | 1.90 | 2.64 | 2.51 | 0.73 | 3.32 | 3.32 | 3.96 | 1.25 | 1.63 | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | |
| | | VARA | RANC | AMBI | Zone Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | OV'L Mean | | |
| 1 | COMP.R-2006-1 | 92.0 | 92.7 | 90.0 | 91.9 | 92.3 | 85.8 | 76.3 | 90.5 | 95.0 | 102.0 | 90.3 | 91.1 | | |
| 2 | COMP.R-2007-1 | 90.3 | 92.3 | 86.5 | 89.8 | 94.0 | 86.5 | 75.5 | 90.3 | 98.3 | 102.0 | 91.1 | 90.4 | | |
| 3 | UMC-10 | 86.8 | 90.8 | 79.5 | 83.8 | 84.5 | 86.8 | 71.8 | 85.0 | 87.0 | 96.0 | 85.2 | 84.5 | | |
| 4 | UMC-11 | 89.8 | 90.5 | 81.3 | 85.3 | 85.5 | 85.3 | 73.3 | 87.0 | 89.3 | 97.0 | 86.2 | 85.8 | | |
| 5 | KML-9 | 91.0 | 91.8 | 86.0 | 89.5 | 90.5 | 87.0 | 74.3 | 88.5 | 88.5 | 102.0 | 88.5 | 89.0 | | |
| | CHECKS | | | | | | | | | | | | | | |
| 6 | PARKASH | 88.3 | 91.5 | 83.8 | 86.2 | 88.3 | 87.0 | 73.8 | 85.3 | 90.3 | 96.0 | 86.8 | 86.5 | | |
| 7 | PRATAP MAKKA-4 | 87.8 | 90.3 | 82.3 | 85.6 | 86.3 | 88.0 | 72.3 | 86.5 | 89.0 | 96.0 | 86.3 | 86.0 | | |
| 8 | PRATAP MAKKA-5 | 88.3 | 90.5 | 80.3 | 85.1 | 87.0 | 85.3 | 72.0 | 83.8 | 88.5 | 98.0 | 85.8 | 85.4 | | |
| | Loc. Mean | 89.3 | 91.3 | 83.7 | 87.1 | 88.5 | 86.4 | 73.6 | 87.1 | 90.7 | 98.6 | 87.5 | 87.3 | | |
| | C.D. (5%) | 2.52 | 1.27 | 0.83 | 2.49 | 2.65 | 0.76 | 1.38 | 3.98 | 3.72 | 0.60 | 2.07 | 1.58 | | |
| | C.V. (%) | 1.92 | 0.95 | 0.67 | 2.43 | 2.03 | 0.60 | 1.27 | 3.11 | 2.79 | 0.41 | 2.02 | 2.23 | | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | | |

TABLE No. 14 (Cont..)

| MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | |
|-----------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| S1 | | Zone | | | | | | | | | | | Zone | OV'L | | |
| No | PEDIGREE | BAHR | DHOL | JASH | VARA | RANC | Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | Mean | |
| 1 | COMP.R-2006-1 | 24.4 | 24.3 | 17.4 | 26.9 | 20.8 | 22.7 | 28.9 | 29.5 | 14.8 | 13.3 | 17.7 | 21.1 | 20.9 | 21.7 | |
| 2 | COMP.R-2007-1 | 23.6 | 23.8 | 17.1 | 28.6 | 19.5 | 22.5 | 26.9 | 28.4 | 13.3 | 13.2 | 17.9 | 20.0 | 19.9 | 21.1 | |
| 3 | UMC-10 | 21.4 | 17.3 | 17.0 | 27.9 | 20.2 | 20.7 | 22.1 | 28.6 | 13.3 | 13.5 | 16.9 | 16.9 | 18.5 | 19.5 | |
| 4 | UMC-11 | 20.9 | 16.4 | 16.6 | 29.0 | 22.3 | 21.0 | 22.9 | 28.5 | 14.3 | 13.3 | 18.5 | 15.2 | 18.7 | 19.8 | |
| 5 | KML-9 | 24.2 | 27.8 | 17.9 | 28.9 | 20.7 | 23.9 | 31.3 | 30.7 | 12.0 | 15.5 | 17.9 | 19.8 | 21.2 | 22.4 | |
| CHECKS | | | | | | | | | | | | | | | | |
| 6 | PARKASH | 22.3 | 16.0 | 17.0 | 27.0 | 21.6 | 20.8 | 23.7 | 29.1 | 14.3 | 13.0 | 16.3 | 17.8 | 19.0 | 19.8 | |
| 7 | PRATAP MAKKA-4 | 24.8 | 18.2 | 16.4 | 26.7 | 20.8 | 21.4 | 19.3 | 29.1 | 13.0 | 14.1 | 17.0 | 17.2 | 18.2 | 19.7 | |
| 8 | PRATAP MAKKA-5 | 23.2 | 17.3 | 16.4 | 26.7 | 21.2 | 20.9 | 18.0 | 29.2 | 14.5 | 12.7 | 18.1 | 16.7 | 18.2 | 19.4 | |
| | Loc. Mean | 23.1 | 20.1 | 17.0 | 27.7 | 20.9 | 21.7 | 24.1 | 29.1 | 13.7 | 13.5 | 17.5 | 18.0 | 19.3 | 20.4 | |
| | C.D. (5%) | 0.70 | 0.00 | 0.22 | 1.97 | 1.16 | 2.71 | 1.14 | 2.18 | 1.28 | 0.57 | 0.82 | 0.43 | 2.33 | 1.65 | |
| | C.V. (%) | 2.07 | 0.00 | 0.87 | 4.85 | 3.79 | 9.60 | 3.20 | 5.10 | 6.37 | 2.84 | 3.18 | 1.62 | 10.28 | 9.52 | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.20 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | |
| PLANT HEIGHT (cm) | | | | | | | | | | | | | | | | |
| S1 | | Zone | | | | | | | | | | | Zone | OV'L | | |
| No | PEDIGREE | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | Mean |
| 1 | COMP.R-2006-1 | 194 | 161 | 149 | 218 | 200 | 241 | 194 | 192 | 217 | 218 | 210 | 189 | 193 | 203 | 198 |
| 2 | COMP.R-2007-1 | 210 | 179 | 144 | 203 | 187 | 202 | 187 | 205 | 234 | 219 | 221 | 185 | 198 | 210 | 199 |
| 3 | UMC-10 | 210 | 163 | 145 | 208 | 195 | 204 | 187 | 184 | 211 | 192 | 200 | 172 | 186 | 191 | 189 |
| 4 | UMC-11 | 208 | 158 | 139 | 205 | 188 | 197 | 182 | 177 | 203 | 190 | 205 | 179 | 195 | 191 | 187 |
| 5 | KML-9 | 190 | 153 | 118 | 195 | 192 | 216 | 177 | 151 | 202 | 174 | 198 | 156 | 189 | 178 | 178 |
| CHECKS | | | | | | | | | | | | | | | | |
| 6 | PARKASH | 207 | 168 | 122 | 210 | 178 | 232 | 186 | 185 | 218 | 207 | 203 | 177 | 197 | 198 | 192 |
| 7 | PRATAP MAKKA-4 | 198 | 163 | 122 | 218 | 185 | 210 | 183 | 172 | 217 | 187 | 193 | 166 | 190 | 187 | 185 |
| 8 | PRATAP MAKKA-5 | 208 | 183 | 124 | 218 | 186 | 223 | 190 | 194 | 215 | 200 | 200 | 177 | 195 | 197 | 193 |
| | Loc. Mean | 203 | 166 | 133 | 209 | 189 | 215 | 186 | 182 | 215 | 198 | 204 | 175 | 193 | 194 | 190 |
| | C.D. (5%) | 13.7 | 15.9 | 5.7 | 10.6 | 25.1 | 8.3 | 12.0 | 9.3 | 17.4 | 8.6 | 25.6 | 22.4 | 5.0 | 8.0 | 7.3 |
| | C.V. (%) | 4.6 | 6.5 | 2.9 | 3.5 | 9.0 | 2.6 | 5.5 | 3.5 | 5.5 | 2.9 | 8.6 | 8.7 | 1.8 | 3.5 | 4.7 |
| | F (Prob.) | 0.03 | 0.01 | 0.00 | 0.00 | 0.71 | 0.00 | 0.22 | 0.00 | 0.03 | 0.00 | 0.45 | 0.12 | 0.00 | 0.00 | 0.00 |

TABLE No. 14 (Cont..)

| | | EAR HEIGHT (cm) | | | | | | | | | | | | Zone | OV'L | |
|--------|----------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone | ARBH | HYDE | KARI | KOLH | MAND | COIM | Mean | Mean |
| No | PEDIGREE | | | | | | | Mean | | | | | | | | |
| 1 | COMP.R-2006-1 | 105 | 78 | 64 | 130 | 91 | 66 | 89 | 101 | 95 | 86 | 104 | 89 | 112 | 98 | 93 |
| 2 | COMP.R-2007-1 | 108 | 85 | 51 | 108 | 91 | 88 | 89 | 102 | 88 | 82 | 106 | 91 | 107 | 96 | 92 |
| 3 | UMC-10 | 119 | 79 | 56 | 115 | 95 | 91 | 93 | 95 | 93 | 82 | 101 | 83 | 106 | 93 | 93 |
| 4 | UMC-11 | 116 | 70 | 54 | 123 | 90 | 74 | 88 | 91 | 81 | 70 | 99 | 90 | 105 | 89 | 88 |
| 5 | KML-9 | 108 | 83 | 46 | 125 | 96 | 67 | 87 | 90 | 88 | 76 | 101 | 79 | 101 | 89 | 88 |
| CHECKS | | | | | | | | | | | | | | | | |
| 6 | PARKASH | 110 | 86 | 45 | 133 | 90 | 78 | 90 | 102 | 97 | 74 | 106 | 90 | 114 | 97 | 94 |
| 7 | PRATAP MAKKA-4 | 113 | 78 | 42 | 140 | 87 | 75 | 89 | 94 | 84 | 70 | 96 | 88 | 102 | 89 | 89 |
| 8 | PRATAP MAKKA-5 | 130 | 91 | 47 | 125 | 87 | 71 | 92 | 108 | 87 | 75 | 101 | 92 | 106 | 95 | 93 |
| | Loc. Mean | 114 | 81 | 51 | 125 | 91 | 76 | 90 | 98 | 89 | 77 | 102 | 87 | 107 | 93 | 91 |
| | C.D. (5%) | 17.9 | 16.1 | 4.6 | 10.2 | 13.4 | 5.5 | 9.6 | 8.6 | 15.5 | 7.0 | 21.4 | 16.1 | 3.3 | 4.5 | 5.2 |
| | C.V. (%) | 10.7 | 13.5 | 6.2 | 5.6 | 10.0 | 4.9 | 9.1 | 6.0 | 11.8 | 6.2 | 14.3 | 12.5 | 2.1 | 4.1 | 6.9 |
| | F (Prob.) | 0.16 | 0.25 | 0.00 | 0.00 | 0.85 | 0.00 | 0.94 | 0.00 | 0.38 | 0.00 | 0.97 | 0.66 | 0.00 | 0.00 | 0.12 |

| | | GRAIN SHELLING % | | | | | | | | | | | | Zone | OV'L |
|--------|----------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | BAHR | JASH | VARA | RANC | AMBI | Zone | ARBH | KARI | KOLH | MAND | COIM | Zone | Mean | Mean |
| No | PEDIGREE | | | | | | Mean | | | | | | Mean | | |
| 1 | COMP.R-2006-1 | 76.4 | 78.4 | 77.5 | 84.9 | 83.0 | 80.0 | 80.1 | 70.5 | 84.4 | 76.4 | 78.0 | 77.9 | 79.0 | |
| 2 | COMP.R-2007-1 | 79.5 | 78.3 | 78.0 | 85.7 | 85.4 | 81.4 | 84.7 | 75.0 | 83.3 | 83.0 | 78.9 | 81.0 | 81.2 | |
| 3 | UMC-10 | 83.2 | 78.9 | 77.5 | 83.3 | 85.3 | 81.6 | 84.0 | 78.0 | 84.6 | 80.8 | 79.9 | 81.4 | 81.5 | |
| 4 | UMC-11 | 83.3 | 80.4 | 75.8 | 85.4 | 83.3 | 81.6 | 83.4 | 81.3 | 87.6 | 80.6 | 84.0 | 83.4 | 82.5 | |
| 5 | KML-9 | 78.7 | 77.7 | 74.8 | 86.6 | 85.9 | 80.7 | 83.8 | 73.3 | 85.2 | 78.6 | 81.6 | 80.5 | 80.6 | |
| CHECKS | | | | | | | | | | | | | | | |
| 6 | PARKASH | 78.4 | 80.1 | 79.0 | 84.5 | 84.5 | 81.3 | 84.1 | 77.5 | 88.0 | 84.7 | 81.1 | 83.1 | 82.2 | |
| 7 | PRATAP MAKKA-4 | 79.1 | 78.7 | 77.8 | 85.4 | 84.3 | 81.0 | 81.1 | 76.5 | 86.0 | 83.2 | 85.2 | 82.4 | 81.7 | |
| 8 | PRATAP MAKKA-5 | 80.2 | 78.9 | 78.3 | 85.7 | 85.5 | 81.7 | 82.6 | 78.3 | 86.8 | 82.3 | 83.1 | 82.6 | 82.1 | |
| | Loc. Mean | 79.8 | 78.9 | 77.3 | 85.2 | 84.6 | 81.2 | 83.0 | 76.3 | 85.7 | 81.2 | 81.5 | 81.5 | 81.3 | |
| | C.D. (5%) | 2.27 | 0.59 | 2.01 | 1.91 | 2.60 | 1.93 | 1.75 | 3.78 | 0.57 | 1.04 | 0.80 | 2.42 | 1.56 | |
| | C.V. (%) | 1.94 | 0.51 | 1.77 | 1.53 | 2.09 | 1.83 | 1.44 | 3.37 | 0.46 | 0.87 | 0.67 | 2.29 | 2.15 | |
| | F (Prob.) | 0.00 | 0.00 | 0.01 | 0.07 | 0.22 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

TABLE No. 14 (Cont..)

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

TABLE No. 15

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

| S1 No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | ZN 3 | | | | | | |
|----------|----------------------|-------------------------------------|---|-------|---|-------|---|------|---|------|---|-------|---|------|---|-------|---|-------|---|--|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R | UDAI | R | BANS | R | |
| 1 | FH-3463 | 4614 | 3 | 2846 | 4 | 4533 | 2 | 3195 | 4 | 6266 | 4 | 4070 | 4 | 4254 | 4 | 5025 | 2 | 3988 | 3 | |
| 2 | FQH-55 CHECKS | 5555 | 1 | 3293 | 2 | 4858 | 1 | 5107 | 2 | 7305 | 1 | 4284 | 3 | 5067 | 2 | 4519 | 4 | 4078 | 2 | |
| 3 | VIVEK QPM-9 | 4534 | 4 | 2961 | 3 | 4347 | 4 | 4613 | 3 | 7126 | 2 | 4664 | 1 | 4708 | 3 | 5275 | 1 | 5496 | 1 | |
| 4 | PARKASH | 5186 | 2 | 3592 | 1 | 4498 | 3 | 6235 | 1 | 6596 | 3 | 4585 | 2 | 5115 | 1 | 4939 | 3 | 3211 | 4 | |
| | Location Mean | 4972 | | 3173 | | 4559 | | 4788 | | 6823 | | 4401 | | 4786 | | 4940 | | 4193 | | |
| | Mean Stand | 101 | | 75 | | 54 | | 74 | | 62 | | 95 | | 77 | | 96 | | 62 | | |
| | C.D. (5%) | 267 | | 364 | | 103 | | 426 | | 812 | | 720 | | 448 | | 1161 | | 270 | | |
| | C.V. (%) | 4.34 | | 9.26 | | 1.82 | | 7.18 | | 9.61 | | 13.22 | | - | | 11.2 | | 5.21 | | |
| | F (Prob) | 0 | | 0.011 | | 0.026 | | 0 | | 0.04 | | 0.056 | | | | 0.709 | | 0 | | |
| | Plot Size | 14.4 | | 18 | | 9.6 | | 9.6 | | 11.2 | | 14.4 | | - | | 14.4 | | 9.6 | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 3-07 | | 9-07 | | 25-07 | | 5-07 | | 5-07 | | 7-07 | | - | | 24-09 | | 8-07 | | |
| | Harvest Date | 13-10 | | - | | 9-11 | | 6-10 | | 9-10 | | - | | - | | 14-09 | | 23-10 | | |
| | Irrigation Nos | - | | - | | - | | 1 | | - | | - | | - | | 2 | | 2 | | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 100 | | - | | 80 | | - | | 90 | | 90 | | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 50 | | - | | 60 | | 40 | | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | - | | 30 | | - | | - | | - | | |

TABLE No. 15 (Cont..)

| Sl No | PEDIGREE | CHHI | R | ZN 5 | | OV'L | | RAIN | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9 | | | | | | | |
|---------------|----------------------|-------|---|------|---|------|---|-------|---|--|------|------|------|------|------|-----------|------|
| | | | | MEAN | R | MEAN | R | GODH | R | BAHR | DHOL | JASH | VARA | RANC | AMBI | ZN 3 MEAN | UDAI |
| 1 | FH-3463 | 4154 | 4 | 4389 | 2 | 4299 | 4 | 5207 | 2 | 1.8 | - | 4.3 | - | - | - | - | - |
| 2 | FQH-55 | 4256 | 3 | 4284 | 3 | 4806 | 3 | 5635 | 1 | 22.5 | 11.2 | 11.7 | 10.7 | 2.5 | - | 7.6 | - |
| CHECKS | | | | | | | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 4762 | 1 | 5178 | 1 | 4864 | 1 | 4910 | 4 | - | - | - | - | - | - | - | - |
| 4 | PARKASH | 4486 | 2 | 4212 | 4 | 4814 | 2 | 5130 | 3 | 14.4 | 21.3 | 3.5 | 35.2 | - | - | 8.7 | - |
| | Location Mean | 4414 | | 4516 | | 4696 | | 5220 | | | | | | | | | |
| | Mean Stand | 104 | | 88 | | 80 | | 101 | | | | | | | | | |
| | C.D. (5%) | 360 | | 597 | | 498 | | 853 | | | | | | | | | |
| | C.V. (%) | 6.58 | | - | | - | | 13.2 | | | | | | | | | |
| | F (Prob) | 0.564 | | | | | | 0.469 | | | | | | | | | |
| | Plot Size | 18 | | - | | - | | 14.4 | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 14-07 | | - | | - | | 13-07 | | | | | | | | | |
| | Harvest Date | 20-11 | | - | | - | | 7-10 | | | | | | | | | |
| | Irrigation Nos | - | | - | | - | | - | | | | | | | | | |
| | Fertilizer Applied N | 120 | | - | | - | | 100 | | | | | | | | | |
| | Fertilizer Applied P | 60 | | - | | - | | 50 | | | | | | | | | |
| | Fertilizer Applied K | 40 | | - | | - | | 50 | | | | | | | | | |

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

TABLE No. 15 (Cont..)

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

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | DAYS TO 50% SILKING | | | | | | Zone | | | | |
|--------|-------------|-------------------------|-----------|-----------|------|---------------------|------|------|------|------|------|-----------|------|------|------|-----------|
| | | CHHI | Zone Mean | OV'L Mean | GODH | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean | UDAI | BANS | CHHI | Zone Mean |
| 1 | FH-3463 | 48.7 | 44.2 | 44.3 | 44.7 | 51.2 | 48.7 | 44.8 | 51.3 | 45.2 | 44.3 | 47.6 | 47.3 | 42.2 | 49.7 | 46.4 |
| 2 | FQH-55 | 48.7 | 45.1 | 45.3 | 45.3 | 48.3 | 49.5 | 46.2 | 51.2 | 47.7 | 47.2 | 48.3 | 50.3 | 41.7 | 49.5 | 47.2 |
| CHECKS | | | | | | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 47.8 | 42.4 | 43.1 | 44.0 | 46.3 | 49.2 | 44.2 | 49.8 | 45.2 | 44.0 | 46.4 | 46.0 | 39.5 | 48.7 | 44.7 |
| 4 | PARKASH | 50.0 | 45.3 | 46.1 | 46.0 | 50.3 | 49.7 | 45.5 | 52.7 | 47.8 | 47.3 | 48.9 | 49.3 | 41.5 | 50.7 | 47.2 |
| | Loc. Mean | 48.8 | 44.2 | 44.7 | 45.0 | 49.0 | 49.3 | 45.2 | 51.3 | 46.5 | 45.7 | 47.8 | 48.3 | 41.2 | 49.6 | 46.4 |
| | C.D. (5%) | 0.62 | 2.00 | 0.96 | 0.96 | 1.46 | 0.87 | 0.91 | 1.34 | 2.58 | 1.30 | 1.31 | 1.29 | 1.14 | 0.56 | 1.93 |
| | C.V. (%) | 1.03 | 2.27 | 2.20 | 1.74 | 2.42 | 1.44 | 1.63 | 2.13 | 4.52 | 2.31 | 2.22 | 1.34 | 2.26 | 0.92 | 2.09 |
| | F (Prob.) | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.06 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.06 |

TABLE No. 15 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | DAYS TO 75% DRY HUSK | | | | | | Zone | | | | Zone | | OV'L | |
|-------|-------------|---------------------|------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | Mean | GODH | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean | UDAI | BANS | CHHI | Mean | Mean | GODH | |
| 1 | FH-3463 | 47.2 | 45.3 | 80.8 | 87.8 | 81.3 | 86.5 | 85.4 | 76.7 | 83.1 | 76.7 | 74.7 | 82.2 | 77.8 | 81.3 | 72.7 | |
| 2 | FQH-55 | 47.9 | 46.2 | 81.0 | 80.3 | 80.7 | 86.0 | 84.0 | 71.0 | 80.5 | 81.7 | 70.5 | 80.5 | 77.6 | 79.5 | 73.5 | |
| | CHECKS | | | | | | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 45.9 | 45.5 | 75.3 | 86.5 | 78.2 | 85.0 | 84.0 | 70.5 | 79.9 | 75.3 | 72.5 | 80.5 | 76.1 | 78.6 | 71.8 | |
| 4 | PARKASH | 48.3 | 47.8 | 79.3 | 88.0 | 81.3 | 91.2 | 84.8 | 71.2 | 82.6 | 78.7 | 70.7 | 81.8 | 77.1 | 80.8 | 74.2 | |
| | Loc. Mean | 47.3 | 46.2 | 79.1 | 85.7 | 80.4 | 87.2 | 84.6 | 72.3 | 81.5 | 78.1 | 72.1 | 81.3 | 77.1 | 80.1 | 73.0 | |
| | C.D. (5%) | 0.95 | 0.83 | 2.59 | 1.61 | 1.44 | 1.56 | 0.51 | 0.89 | 2.70 | 6.13 | 1.53 | 0.65 | 4.56 | 2.11 | 1.57 | |
| | C.V. (%) | 2.07 | 1.46 | 2.66 | 1.53 | 1.45 | 1.45 | 0.49 | 1.00 | 2.69 | 3.93 | 1.73 | 0.65 | 2.96 | 2.70 | 1.74 | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.16 | 0.00 | 0.00 | 0.80 | 0.06 | 0.03 | |

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | | Zone | | | | | | OV'L | | | PLANT HEIGHT (cm) | | |
|-------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|--|--|
| | | BAHR | DHOL | JASH | VARA | RANC | Mean | UDAI | BANS | CHHI | Mean | Mean | GODH | BAHR | DHOL | JASH | | |
| 1 | FH-3463 | 21.2 | 19.0 | 15.8 | 28.9 | 21.2 | 21.2 | 23.9 | 15.2 | 12.7 | 17.3 | 19.7 | 34.5 | 200 | 153 | 147 | | |
| 2 | FQH-55 | 22.0 | 19.1 | 15.8 | 30.1 | 21.4 | 21.7 | 21.8 | 15.2 | 12.7 | 16.6 | 19.8 | 33.2 | 194 | 144 | 144 | | |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 25.9 | 19.0 | 15.2 | 26.6 | 21.7 | 21.7 | 20.9 | 16.0 | 11.2 | 16.0 | 19.6 | 29.0 | 207 | 157 | 162 | | |
| 4 | PARKASH | 20.0 | 18.9 | 16.1 | 29.8 | 21.7 | 21.3 | 23.2 | 15.0 | 13.1 | 17.1 | 19.7 | 34.0 | 188 | 154 | 156 | | |
| | Loc. Mean | 22.3 | 19.0 | 15.7 | 28.8 | 21.5 | 21.5 | 22.4 | 15.3 | 12.5 | 16.7 | 19.7 | 32.7 | 197 | 152 | 152 | | |
| | C.D. (5%) | 2.13 | - | 0.17 | 0.37 | 0.20 | 2.06 | 2.03 | 0.23 | 0.59 | 1.86 | 1.35 | 3.89 | 9.0 | 8.2 | 5.9 | | |
| | C.V. (%) | 7.78 | - | 0.85 | 1.06 | 0.75 | 6.95 | 4.54 | 1.23 | 3.87 | 5.57 | 6.61 | 9.68 | 3.7 | 4.4 | 3.2 | | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.04 | 0.00 | 0.00 | 0.41 | 0.99 | 0.03 | 0.00 | 0.02 | 0.00 | | |

TABLE No. 15 (Cont..)

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

| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | | | GRAIN SHELLING % | | | | | Zone | | | | |
|-------|-------------|-----------------|-----------|------|------|-------|------------------|-----------|------|------|------|------|------|------|-----------|------|
| | | AMBI | Zone Mean | UDAI | BANS | CHHI | Zone Mean | OV'L Mean | GODH | BAHR | JASH | VARA | RANC | AMBI | Zone Mean | UDAI |
| 1 | FH-3463 | 65.7 | 72.5 | 70.0 | 55.2 | 72.7 | 66.0 | 70.3 | 67 | 78.1 | 79.5 | 75.8 | 76.0 | 83.8 | 78.6 | 81.7 |
| 2 | FQH-55 | 67.2 | 68.0 | 73.3 | 46.7 | 73.5 | 64.5 | 66.8 | 66 | 79.3 | 81.1 | 76.3 | 84.4 | 82.7 | 80.7 | 82.0 |
| | CHECKS | | | | | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 78.0 | 81.3 | 85.0 | 76.1 | 76.8 | 79.3 | 80.6 | 73 | 77.7 | 79.9 | 76.5 | 83.1 | 86.1 | 80.6 | 82.1 |
| 4 | PARKASH | 93.8 | 90.3 | 76.7 | 68.5 | 100.7 | 81.9 | 87.5 | 93 | 80.0 | 80.1 | 80.3 | 84.5 | 86.9 | 82.4 | 81.9 |
| | Loc. Mean | 76.2 | 78.0 | 76.3 | 61.6 | 80.9 | 72.9 | 76.3 | 75 | 78.7 | 80.2 | 77.2 | 82.0 | 84.9 | 80.6 | 81.9 |
| | C.D. (5%) | 6.2 | 8.1 | 7.5 | 2.4 | 9.1 | 17.3 | 6.7 | 7.5 | 0.60 | 0.32 | 0.78 | 2.23 | 3.63 | 2.62 | 0.44 |
| | C.V. (%) | 6.6 | 8.4 | 4.9 | 3.1 | 9.1 | 11.9 | 9.1 | 8.2 | 0.62 | 0.32 | 0.83 | 2.21 | 3.47 | 2.36 | 0.27 |
| | F (Prob.) | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.06 | 0.25 |

TABLE No. 15 (Cont..)

| | | GRAIN SHELLING % | | | | STAND AT HARVEST ('000/ha) | | | | | | |
|----|-------------|----------------------------|------|------|------|----------------------------|------|------|------|------|------|------|
| S1 | | | | Zone | OV'L | | | | | | | |
| No | PEDIGREE | BANS | CHHI | Mean | Mean | GODH | BAHR | DHOL | JASH | VARA | RANC | AMBI |
| 1 | FH-3463 | 69.5 | 80.8 | 77.3 | 78.1 | 75.9 | 67 | 40 | 56 | 79 | 54 | 62 |
| 2 | FQH-55 | 75.4 | 86.6 | 81.3 | 81.0 | 79.6 | 72 | 43 | 54 | 72 | 57 | 68 |
| | CHECKS | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 79.3 | 86.2 | 82.5 | 81.4 | 79.3 | 70 | 42 | 57 | 80 | 54 | 72 |
| 4 | PARKASH | 69.7 | 91.4 | 81.0 | 81.8 | 81.7 | 70 | 40 | 59 | 77 | 56 | 63 |
| | Loc. Mean | 73.5 | 86.2 | 80.5 | 80.6 | 79.1 | 70 | 41 | 56 | 77 | 55 | 66 |
| | C.D. (5%) | 0.76 | 0.50 | 7.24 | 2.65 | 1.35 | 2.6 | 4.4 | 2.4 | 4.8 | 4.4 | 5.9 |
| | C.V. (%) | 0.84 | 0.47 | 4.50 | 3.16 | 1.38 | 3.1 | 8.7 | 3.5 | 5.1 | 6.5 | 7.2 |
| | F (Prob.) | 0.00 | 0.00 | 0.40 | 0.04 | 0.00 | 0.0 | 0.5 | 0.0 | 0.0 | 0.5 | 0.0 |
| | | STAND AT HARVEST ('000/ha) | | | | | | | | | | |
| S1 | | | | Zone | OV'L | | | | | | | |
| No | PEDIGREE | UDAI | BANS | CHHI | Mean | Mean | GODH | | | | | |
| 1 | FH-3463 | 66 | 65 | 60 | 64 | 61 | 66 | | | | | |
| 2 | FQH-55 | 69 | 64 | 61 | 65 | 62 | 69 | | | | | |
| | CHECKS | | | | | | | | | | | |
| 3 | VIVEK QPM-9 | 64 | 65 | 56 | 62 | 62 | 75 | | | | | |
| 4 | PARKASH | 67 | 64 | 55 | 62 | 61 | 70 | | | | | |
| | Loc. Mean | 67 | 65 | 58 | 63 | 62 | 70 | | | | | |
| | C.D. (5%) | 7.6 | 1.5 | 5.5 | 4.0 | 2.7 | 5.26 | | | | | |
| | C.V. (%) | 5.7 | 1.8 | 7.7 | 3.1 | 4.4 | 6.11 | | | | | |
| | F (Prob.) | 0.5 | 0.1 | 0.1 | 0.3 | 0.7 | 0.02 | | | | | |

TABLE No. 16

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

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | |
|--|----------------------|-------------------------------------|------|-------|------|-------|------|-------|---|-------|---|-------|---|-------|---|------|---|------|
| S1 | | | | | | | | | | | | | | | | ZN 4 | | |
| No | PEDIGREE | ARB1 | R | ARB2 | R | HYDE | R | KARI | R | KOLH | R | MAND | R | COIM | R | MEAN | R | |
| 1 | FH-3463 | 6412 | 1 | 6830 | 1 | 7972 | 3 | 3923 | 5 | 7322 | 2 | 8452 | 1 | 10623 | 1 | 7362 | 2 | |
| 2 | FH-3464 | 5848 | 3 | 5960 | 2 | 7709 | 4 | 4527 | 2 | 7027 | 5 | 8218 | 2 | 10478 | 3 | 7110 | 3 | |
| 3 | FH-3473 | 4053 | 5 | 4785 | 5 | 7319 | 5 | 4165 | 3 | 7183 | 4 | 7396 | 4 | 10501 | 2 | 6486 | 5 | |
| 4 | FQH-55 | 5898 | 2 | 5341 | 4 | 9246 | 1 | 6088 | 1 | 7320 | 3 | 7625 | 3 | 10425 | 4 | 7420 | 1 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 5 | VIVEK QPM-9 | 5397 | 4 | 5856 | 3 | 8523 | 2 | 3940 | 4 | 7514 | 1 | 7391 | 5 | 10180 | 5 | 6972 | 4 | |
| | Location Mean | 5522 | | 5754 | | 8154 | | 4529 | | 7273 | | 7816 | | 10441 | | 7070 | | |
| | Mean Stand | 91 | | 99 | | 76 | | 111 | | 99 | | 93 | | 95 | | 95 | | |
| | C.D. (5%) | 723 | | 717 | | 1124 | | 270 | | 922 | | 871 | | 662 | | 756 | | |
| | C.V. (%) | 8.42 | | 8.01 | | 8.86 | | 3.83 | | 8.14 | | 7.16 | | 4.07 | | - | | |
| | F (Prob) | 0 | | 0.001 | | 0.023 | | 0 | | 0.944 | | 0.051 | | 0.423 | | | | |
| | Plot Size | 18 | | 18 | | 12 | | 18 | | 14.4 | | 16.8 | | 14.4 | | - | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 17-07 | | 17-07 | | 6-07 | | 12-07 | | 19-07 | | 22-07 | | 9-07 | | - | | |
| | Harvest Date | 3-11 | | 3-11 | | 5-11 | | 9-10 | | 4-12 | | 30-11 | | 5-11 | | - | | |
| | Irrigation Nos | 6 | | 6 | | 2 | | - | | - | | 6 | | 10 | | - | | |
| | Fertilizer Applied N | 150 | | 150 | | 180 | | 200 | | 100 | | 150 | | 150 | | - | | |
| | Fertilizer Applied P | 75 | | 75 | | 60 | | 80 | | 50 | | 75 | | 75 | | - | | |
| | Fertilizer Applied K | 37.5 | | 37.5 | | 50 | | 60 | | 30 | | 40 | | 75 | | - | | |
| GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9 | | | | | | | | | | | | | | | | | | |
| S1 | | | | | | | | | | | | | | | | ZN 4 | | |
| No | PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | | | | | | | | | | MEAN |
| 1 | FH-3463 | 18.8 | 16.6 | - | - | - | 14.4 | 4.3 | | | | | | | | | | 5.6 |
| 2 | FH-3464 | 8.3 | 1.8 | - | 14.9 | - | 11.2 | 2.9 | | | | | | | | | | 2 |
| 3 | FH-3473 | - | - | - | 5.7 | - | 0.1 | 3.1 | | | | | | | | | | - |
| 4 | FQH-55 | 9.3 | - | 8.5 | 54.5 | - | 3.2 | 2.4 | | | | | | | | | | 6.4 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 5 | VIVEK QPM-9 | - | - | - | - | - | - | - | | | | | | | | | | - |

TABLE No. 16 (Cont..)

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

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

TABLE No. 16 (Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | PLANT HEIGHT (cm) | | | | EAR HEIGHT (cm) | | | | | | |
|----------|------------------|-----------------------|------|------|--------------|-------------------|------|------|------|-----------------|------|------|--------------|--------------|------|------|
| | | KOLH | MAND | COIM | Zone Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | ARB1 | ARB2 | HYDE |
| 1 | FH-3463 | 14.4 | 16.4 | 17.1 | 20.0 | 170 | 164 | 208 | 178 | 196 | 163 | 195 | 182 | 81 | 90 | 78 |
| 2 | FH-3464 | 14.0 | 17.3 | 16.7 | 20.7 | 161 | 158 | 203 | 185 | 189 | 158 | 193 | 178 | 72 | 85 | 73 |
| 3 | FH-3473 | 12.6 | 16.5 | 16.9 | 18.5 | 137 | 127 | 231 | 157 | 178 | 164 | 160 | 165 | 65 | 86 | 74 |
| 4 | FQH-55 CHECKS | 13.9 | 16.6 | 16.7 | 18.5 | 163 | 163 | 207 | 178 | 206 | 161 | 198 | 182 | 82 | 86 | 76 |
| 5 | VIVEK QPM-9 | 12.6 | 16.7 | 16.6 | 17.8 | 172 | 167 | 208 | 180 | 188 | 175 | 201 | 184 | 85 | 90 | 81 |
| | Loc. Mean | 13.5 | 16.7 | 16.8 | 19.1 | 160 | 156 | 211 | 176 | 191 | 164 | 190 | 178 | 77 | 87 | 76 |
| | C.D. (5%) | 0.43 | 0.76 | 0.28 | 1.75 | 14.0 | 5.6 | 30.4 | 6.8 | 18.8 | 10.5 | 6.9 | 12.0 | 8.4 | 5.9 | 8.6 |
| | C.V. (%) | 2.05 | 2.95 | 1.07 | 8.32 | 5.7 | 2.3 | 9.3 | 2.5 | 6.4 | 4.2 | 2.4 | 6.1 | 7.1 | 4.4 | 7.3 |
| | F (Prob.) | 0.00 | 0.17 | 0.01 | 0.01 | 0.00 | 0.00 | 0.32 | 0.00 | 0.06 | 0.05 | 0.00 | 0.02 | 0.00 | 0.22 | 0.31 |
| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | | GRAIN SHELLING % | | | | | | | | | | |
| | | KARI | KOLH | MAND | COIM | Zone Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | | |
| 1 | FH-3463 | 81 | 90 | 83 | 95 | 85 | 82.2 | 83.1 | 76.4 | 77.8 | 84.6 | 84.0 | 79.8 | 81.1 | | |
| 2 | FH-3464 | 80 | 89 | 80 | 86 | 81 | 84.5 | 84.0 | 75.8 | 76.0 | 86.0 | 85.1 | 83.3 | 82.1 | | |
| 3 | FH-3473 | 76 | 90 | 81 | 81 | 79 | 81.3 | 82.3 | 77.9 | 77.8 | 86.5 | 82.3 | 81.1 | 81.3 | | |
| 4 | FQH-55 CHECKS | 78 | 90 | 80 | 95 | 84 | 83.7 | 82.8 | 79.7 | 78.5 | 84.2 | 85.4 | 82.2 | 82.3 | | |
| 5 | VIVEK QPM-9 | 86 | 95 | 88 | 105 | 90 | 84.6 | 82.5 | 80.6 | 76.3 | 86.7 | 85.2 | 83.9 | 82.8 | | |
| | Loc. Mean | 80 | 91 | 82 | 92 | 84 | 83.2 | 82.9 | 78.1 | 77.3 | 85.6 | 84.4 | 82.1 | 81.9 | | |
| | C.D. (5%) | 3.4 | 16.7 | 13.0 | 3.8 | 3.9 | 0.78 | 1.92 | 1.18 | 3.10 | 1.82 | 0.75 | 0.68 | 1.44 | | |
| | C.V. (%) | 2.8 | 12.0 | 10.2 | 2.7 | 4.2 | 0.61 | 1.51 | 0.98 | 2.61 | 1.38 | 0.57 | 0.54 | 1.59 | | |
| | F (Prob.) | 0.00 | 0.93 | 0.60 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.38 | 0.03 | 0.00 | 0.00 | 0.11 | | |

TABLE No. 16 (Cont..)

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

TABLE No. 17

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT ARBHAVI(1), ARBHAVI(2), HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 2nd YEAR, TRIAL No. TR69Z4 DURING KHARIF (2009).

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | |
|----|----------------------|-------------------------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|------|---|
| S1 | | | | | | | | | | | | | | | | ZN 4 | |
| No | PEDIGREE | ARB1 | R | ARB2 | R | HYDE | R | KARI | R | KOLH | R | MAND | R | COIM | R | MEAN | R |
| 1 | MCH-36 | 6920 | 2 | 6662 | 1 | 6034 | 5 | 6821 | 3 | 7661 | 1 | 11887 | 2 | 14822 | 1 | 8687 | 2 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 2 | BIO-9681 | 3937 | 5 | 5270 | 4 | 7536 | 1 | 4781 | 5 | 6346 | 4 | 8348 | 5 | 11671 | 3 | 6841 | 5 |
| 3 | SEEDTEC-2324 | 6930 | 1 | 6351 | 2 | 6853 | 4 | 6934 | 2 | 7505 | 2 | 12452 | 1 | 14361 | 2 | 8769 | 1 |
| 4 | HQPM-1 | 4942 | 4 | 5113 | 5 | 7315 | 2 | 7604 | 1 | 6173 | 5 | 9058 | 4 | 9422 | 5 | 7090 | 4 |
| 5 | HQPM-7 | 5829 | 3 | 5441 | 3 | 7028 | 3 | 5587 | 4 | 6827 | 3 | 11003 | 3 | 10424 | 4 | 7448 | 3 |
| | Location Mean | 5711 | | 5768 | | 6953 | | 6346 | | 6902 | | 10550 | | 12140 | | 7767 | |
| | Mean Stand | 90 | | 91 | | 105 | | 114 | | 118 | | 77 | | 95 | | 99 | |
| | C.D. (5%) | 1595 | | 1896 | | 789 | | 335 | | 1324 | | 1104 | | 854 | | 1128 | |
| | C.V. (%) | 17.94 | | 21.13 | | 7.29 | | 3.39 | | 12.33 | | 6.73 | | 4.52 | | - | |
| | F (Prob) | 0 | | 0.001 | | 0.015 | | 0 | | 0.088 | | 0 | | 0 | | - | |
| | Plot Size | 18 | | 18 | | 18 | | 18 | | 18 | | 14 | | 14.4 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 6-08 | | 6-08 | | 6-07 | | 12-07 | | 12-07 | | 22-07 | | 9-07 | | - | |
| | Harvest Date | 15-12 | | 15-12 | | 22-11 | | 18-10 | | 7-12 | | 30-11 | | 4-11 | | - | |
| | Irrigation Nos | 5 | | 5 | | 2 | | - | | - | | 6 | | 10 | | - | |
| | Fertilizer Applied N | 150 | | 150 | | 180 | | 200 | | 120 | | 150 | | 150 | | - | |
| | Fertilizer Applied P | 75 | | 75 | | 60 | | 80 | | 60 | | 75 | | 75 | | - | |
| | Fertilizer Applied K | 37.5 | | 37.5 | | 50 | | 60 | | 40 | | 40 | | 75 | | - | |

| | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | | ZN 4 | OV'L |
|----|--------------|---|------|------|------|------|------|------|------|------|------|
| S1 | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | MEAN | MEAN | |
| 1 | MCH-36 | 75.8 | 26.4 | - | 42.6 | 20.7 | 42.4 | 27 | 27 | 27 | |
| | CHECKS | | | | | | | | | | |
| 2 | BIO-9681 | - | - | - | - | - | - | - | - | - | |
| 3 | SEEDTEC-2324 | 76 | 20.5 | - | 45 | 18.3 | 49.2 | 23 | 28.2 | 28.2 | |
| 4 | HQPM-1 | 25.5 | - | - | 59 | - | 8.5 | - | 3.6 | 3.6 | |
| 5 | HQPM-7 | 48 | 3.3 | - | 16.9 | 7.6 | 31.8 | - | 8.9 | 8.9 | |

TABLE No.17 (Cont..)

| GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324 | | | | | | | | | |
|---|------------------|------|------|------|------|------|------|------|------|
| S1 | | | | | | | | ZN 4 | |
| No | PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | MEAN |
| 1 | MCH-36 CHECKS | - | 4.9 | - | - | 2.1 | - | 3.2 | - |
| 2 | BIO-9681 | - | - | 10 | - | - | - | - | - |
| 3 | SEEDTEC-2324 | - | - | - | - | - | - | - | - |
| 4 | HQPM-1 | - | - | 6.7 | 9.7 | - | - | - | - |
| 5 | HQPM-7 | - | - | 2.6 | - | - | - | - | - |
| GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | | | |
| S1 | | | | | | | | ZN 4 | |
| No | PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | MEAN |
| 1 | MCH-36 CHECKS | 40 | 30.3 | - | - | 24.1 | 31.2 | 57.3 | 22.5 |
| 2 | BIO-9681 | - | 3.1 | 3 | - | 2.8 | - | 23.9 | - |
| 3 | SEEDTEC-2324 | 40.2 | 24.2 | - | - | 21.6 | 37.5 | 52.4 | 23.7 |
| 4 | HQPM-1 | - | - | - | - | - | - | - | - |
| 5 | HQPM-7 | 17.9 | 6.4 | - | - | 10.6 | 21.5 | 10.6 | 5.1 |
| GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | |
| S1 | | | | | | | | ZN 4 | |
| No | PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | MEAN |
| 1 | MCH-36 CHECKS | 18.7 | 22.4 | - | 22.1 | 12.2 | 8 | 42.2 | 16.6 |
| 2 | BIO-9681 | - | - | 7.2 | - | - | - | 12 | - |
| 3 | SEEDTEC-2324 | 18.9 | 16.7 | - | 24.1 | 9.9 | 13.2 | 37.8 | 17.7 |
| 4 | HQPM-1 | - | - | 4.1 | 36.1 | - | - | - | - |
| 5 | HQPM-7 | - | - | - | - | - | - | - | - |

TABLE No.17 (Cont..)

| SI No. PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | Zone Mean | DAYS TO 50% SILKING | | | | | | | Zone Mean |
|--------------------|-------------------------|------|------|------|------|------|------|--------------|---------------------|------|------|------|------|------|------|--------------|
| | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | |
| 1 MCH-36 CHECKS | 55.3 | 54.8 | 53.5 | 51.3 | 59.3 | 51.8 | 57.0 | 54.7 | 56.0 | 55.8 | 55.5 | 53.0 | 60.3 | 53.8 | 59.0 | 56.2 |
| 2 BIO-9681 | 55.5 | 54.8 | 50.0 | 49.5 | 58.0 | 48.3 | 54.0 | 52.9 | 56.5 | 55.8 | 52.8 | 51.8 | 59.0 | 50.5 | 56.0 | 54.6 |
| 3 SEEDTEC-2324 | 54.8 | 55.3 | 53.8 | 51.5 | 59.5 | 51.5 | 56.8 | 54.7 | 55.8 | 56.3 | 55.8 | 53.8 | 60.5 | 53.5 | 58.8 | 56.3 |
| 4 HQPM-1 | 54.8 | 55.0 | 53.5 | 50.8 | 59.8 | 51.8 | 56.8 | 54.6 | 55.8 | 56.0 | 56.3 | 52.8 | 60.8 | 53.5 | 58.8 | 56.3 |
| 5 HQPM-7 | 55.3 | 55.3 | 53.0 | 50.3 | 60.8 | 52.0 | 56.8 | 54.8 | 56.3 | 56.5 | 55.8 | 52.3 | 61.8 | 53.5 | 58.8 | 56.4 |
| Loc. Mean | 55.1 | 55.0 | 52.8 | 50.7 | 59.5 | 51.1 | 56.3 | 54.3 | 56.1 | 56.1 | 55.2 | 52.7 | 60.5 | 53.0 | 58.3 | 56.0 |
| C.D. (5%) | 1.77 | 1.27 | 0.99 | 1.23 | 2.28 | 0.96 | 0.86 | 0.85 | 1.68 | 1.37 | 0.97 | 1.09 | 2.28 | 1.27 | 0.86 | 0.81 |
| C.V. (%) | 2.08 | 1.50 | 1.22 | 1.58 | 2.49 | 1.23 | 0.99 | 1.43 | 1.95 | 1.59 | 1.15 | 1.34 | 2.45 | 1.56 | 0.95 | 1.31 |
| F (Prob.) | 0.84 | 0.83 | 0.00 | 0.03 | 0.20 | 0.00 | 0.00 | 0.00 | 0.83 | 0.71 | 0.00 | 0.02 | 0.20 | 0.00 | 0.00 | 0.00 |

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

TABLE No.17 (Cont..)

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

| S1 No. PEDIGREE | GRAIN SHELLING % | | | | | | | | Zone Mean | STAND AT HARVEST ('000/ha) | | | | | | | | Zone Mean |
|--------------------|------------------|------|------|------|------|------|------|------|--------------|----------------------------|------|------|------|------|------|------|--|--------------|
| | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | ARB1 | | ARB2 | HYDE | KARI | KOLH | MAND | COIM | | | |
| 1 MCH-36 CHECKS | 83.6 | 83.9 | 76.3 | 69.8 | 82.8 | 81.2 | 79.5 | 79.6 | 58 | 55 | 58 | 65 | 67 | 55 | 66 | 60 | | |
| 2 BIO-9681 | 83.4 | 82.5 | 78.4 | 75.5 | 83.6 | 76.7 | 80.8 | 80.1 | 40 | 39 | 60 | 63 | 64 | 54 | 66 | 55 | | |
| 3 SEEDTEC-2324 | 85.0 | 82.2 | 76.1 | 68.0 | 84.8 | 81.7 | 78.2 | 79.4 | 58 | 57 | 58 | 62 | 66 | 54 | 66 | 60 | | |
| 4 HQPM-1 | 84.2 | 81.8 | 80.0 | 71.5 | 82.9 | 87.1 | 78.6 | 80.9 | 46 | 49 | 56 | 62 | 64 | 54 | 66 | 57 | | |
| 5 HQPM-7 | 84.5 | 84.2 | 78.1 | 70.8 | 83.0 | 82.9 | 78.3 | 80.2 | 49 | 51 | 59 | 64 | 66 | 57 | 66 | 59 | | |
| Loc. Mean | 84.1 | 82.9 | 77.8 | 71.1 | 83.4 | 81.9 | 79.1 | 80.0 | 50 | 50 | 58 | 63 | 66 | 55 | 66 | 58 | | |
| C.D. (5%) | 1.04 | 0.93 | 1.33 | 4.84 | 1.86 | 0.85 | 0.59 | 2.27 | 4.96 | 5.14 | 5.33 | 2.24 | 4.05 | 3.22 | 0.91 | 4.08 | | |
| C.V. (%) | 0.81 | 0.73 | 1.11 | 4.42 | 1.45 | 0.68 | 0.49 | 2.57 | 6.44 | 6.62 | 5.94 | 2.30 | 4.01 | 3.81 | 0.89 | 6.33 | | |
| F (Prob.) | 0.03 | 0.00 | 0.00 | 0.06 | 0.16 | 0.00 | 0.00 | 0.70 | 0.00 | 0.00 | 0.45 | 0.13 | 0.64 | 0.16 | 0.68 | 0.06 | | |

TABLE No. 18

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

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

TABLE No.18 (Cont..)

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

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

TABLE No.18 (Cont..)

| SI No. PEDIGREE | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | |
|--------------------|-----------------------|------|------|--------------|------|----------------------|-------|-------|--------------|-------|
| | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 X6B 269 | 58.7 | 57.5 | 56.8 | 57.6 | 54.8 | 91.3 | 97.5 | 92.8 | 93.9 | 88.5 |
| 2 MDMH-101 | 56.0 | 56.0 | 55.5 | 55.8 | 52.3 | 89.0 | 92.5 | 95.5 | 92.3 | 84.8 |
| CHECKS | | | | | | | | | | |
| 3 BIO-9681 | 53.0 | 56.0 | 54.0 | 54.3 | 50.5 | 86.0 | 96.5 | 87.8 | 90.1 | 83.0 |
| 4 SEEDTEC-2324 | 56.3 | 57.0 | 56.0 | 56.4 | 54.8 | 89.3 | 95.3 | 92.3 | 92.3 | 86.3 |
| 5 HQPM-1 | 54.7 | 56.8 | 55.5 | 55.6 | 54.0 | 87.3 | 95.3 | 96.3 | 92.9 | 84.8 |
| 6 HQPM-7 | 53.7 | 56.0 | 55.8 | 55.1 | 52.0 | 85.7 | 94.0 | 93.0 | 90.9 | 83.0 |
| Loc. Mean | 55.4 | 56.5 | 55.6 | 55.8 | 53.0 | 88.1 | 95.2 | 92.9 | 92.1 | 85.0 |
| C.D. (5%) | 0.92 | 1.78 | 0.84 | 1.64 | 1.36 | 1.72 | 2.10 | 0.76 | 4.31 | 1.39 |
| C.V. (%) | 0.91 | 2.09 | 1.00 | 1.61 | 1.70 | 1.07 | 1.47 | 0.54 | 2.57 | 1.09 |
| F (Prob.) | 0.00 | 0.37 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 |
| | | | | | | | | | | |
| SI No. PEDIGREE | MOISTURE % AT HARVEST | | | | | PLANT HEIGHT (cm) | | | | |
| | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 X6B 269 | 22.9 | 16.6 | 17.0 | 18.8 | 20.5 | 248.3 | 214.1 | 218.8 | 227.1 | 197 |
| 2 MDMH-101 | 23.5 | 16.0 | 18.1 | 19.2 | 22.5 | 210.0 | 200.9 | 211.3 | 207.4 | 183 |
| CHECKS | | | | | | | | | | |
| 3 BIO-9681 | 21.1 | 15.9 | 12.9 | 16.6 | 12.9 | 193.3 | 202.8 | 174.0 | 190.1 | 192 |
| 4 SEEDTEC-2324 | 23.3 | 16.3 | 17.8 | 19.1 | 20.5 | 200.0 | 197.7 | 202.8 | 200.1 | 188 |
| 5 HQPM-1 | 22.4 | 16.0 | 17.4 | 18.6 | 18.4 | 205.0 | 176.2 | 192.3 | 191.2 | 190 |
| 6 HQPM-7 | 22.6 | 15.8 | 14.9 | 17.7 | 17.7 | 216.7 | 205.9 | 210.0 | 210.9 | 194 |
| Loc. Mean | 22.6 | 16.1 | 16.3 | 18.3 | 18.7 | 212.2 | 199.6 | 201.5 | 204.4 | 191 |
| C.D. (5%) | 1.47 | 0.29 | 0.64 | 1.82 | 2.10 | 15.6 | 5.7 | 13.6 | 19.2 | 15.52 |
| C.V. (%) | 3.58 | 1.20 | 2.61 | 5.46 | 7.44 | 4.0 | 1.9 | 4.5 | 5.2 | 5.40 |
| F (Prob.) | 0.05 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.52 |

TABLE No.18 (Cont..)

| SI No. PEDIGREE | EAR HEIGHT (cm) | | | | | GRAIN SHELLING % | | | | |
|--------------------|----------------------------|-------|-------|--------------|-------|------------------|-------|-------|--------------|------|
| | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 X6B 269 | 116.7 | 98.2 | 102.8 | 105.9 | 99 | 82.42 | 77.64 | 83.10 | 81.05 | 76.0 |
| 2 MDMH-101 | 95.0 | 81.7 | 107.0 | 94.6 | 88 | 82.27 | 75.85 | 80.80 | 79.64 | 79.2 |
| CHECKS | | | | | | | | | | |
| 3 BIO-9681 | 81.7 | 96.1 | 79.5 | 85.8 | 95 | 81.90 | 70.70 | 85.55 | 79.38 | 75.5 |
| 4 SEEDTEC-2324 | 91.7 | 109.4 | 107.8 | 102.9 | 102 | 82.17 | 73.49 | 89.70 | 81.79 | 78.6 |
| 5 HQPM-1 | 95.0 | 82.9 | 95.0 | 91.0 | 103 | 83.25 | 73.74 | 85.15 | 80.71 | 79.9 |
| 6 HQPM-7 | 93.3 | 86.5 | 104.5 | 94.8 | 100 | 81.39 | 69.58 | 82.65 | 77.87 | 76.5 |
| Loc. Mean | 95.6 | 92.4 | 99.4 | 95.8 | 98 | 82.23 | 73.50 | 84.49 | 80.07 | 77.6 |
| C.D. (5%) | 8.4 | 2.8 | 6.3 | 18.0 | 13.80 | 1.65 | 0.97 | 1.04 | 4.67 | 2.96 |
| C.V. (%) | 4.8 | 2.0 | 4.2 | 10.3 | 9.37 | 1.10 | 0.87 | 0.82 | 3.21 | 2.53 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.22 | 0.25 | 0.31 | 0.00 | 0.00 | 0.52 | 0.03 |
| | STAND AT HARVEST ('000/ha) | | | | | | | | | |
| SI No. PEDIGREE | UDAI | BANS | CHHI | Zone Mean | | | | | | |
| 1 X6B 269 | 74.3 | 65.8 | 66.2 | 68.8 | | | | | | |
| 2 MDMH-101 | 75.2 | 65.6 | 61.0 | 67.3 | | | | | | |
| CHECKS | | | | | | | | | | |
| 3 BIO-9681 | 77.8 | 65.6 | 66.7 | 70.0 | | | | | | |
| 4 SEEDTEC-2324 | 74.3 | 65.6 | 64.4 | 68.1 | | | | | | |
| 5 HQPM-1 | 78.9 | 64.4 | 65.6 | 69.6 | | | | | | |
| 6 HQPM-7 | 77.3 | 64.2 | 68.2 | 69.9 | | | | | | |
| Loc. Mean | 76.3 | 65.2 | 65.3 | 69.0 | | | | | | |
| C.D. (5%) | 4.48 | 1.55 | 3.43 | 3.36 | | | | | | |
| C.V. (%) | 3.23 | 1.58 | 3.48 | 2.68 | | | | | | |
| F (Prob.) | 0.18 | 0.16 | 0.01 | 0.43 | | | | | | |

TABLE No. 19

PERFORMANCE OF MEDIUM MATURING COMPOSITES AT BAJAURA, BARAPANI MEGHALAYA, UDHAMPUR(R), KANGRA
IN AET 2nd YEAR, TRIAL No. TR70Z1 DURING KHARIF (2009).

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

Table No. 19 (Continued)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | GRAIN YIELD % SUPERIORITY OVER THE HM-10 | | | | | |
|----------|----------------------------|---|------|------|--------------|--------------|--|------|------|------|--------------|--------------|
| | | BAJA | BARA | KANG | ZN 1 MEAN | OV'L MEAN | ZN 1 UDHA | BAJA | BARA | KANG | ZN 1 MEAN | ZN 1 UDHA |
| 1 | BH-4062 (RETEST) CHECKS | - | - | 9 | - | - | - | - | - | 5.7 | - | 6.9 |
| 2 | HM-8 | - | 4 | 8.7 | 2.6 | 2.6 | - | - | 12.9 | 5.4 | - | 7.8 |
| 3 | HM-9 | - | - | - | - | - | - | - | 8.6 | - | - | 9.3 |
| 4 | HM-10 | 6.3 | - | 3.1 | 3.6 | 3.6 | - | - | - | - | - | - |

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 75% DRY HUSK | | | | | MOISTURE % AT HARVEST | | | | |
|----------|----------------------------|-------------------------|------|------|--------------|------|----------------------|-------|------|--------------|------|-----------------------|------|------|--------------|------|
| | | BAJA | BARA | KANG | Zone Mean | UDHA | BAJA | BARA | KANG | Zone Mean | UDHA | BAJA | BARA | KANG | Zone Mean | UDHA |
| 1 | BH-4062 (RETEST) CHECKS | 65.7 | 61.4 | 53.3 | 60.1 | 58.7 | 106.8 | 104.4 | 92.3 | 101.2 | 95.0 | 23.3 | 22.0 | 25.1 | 23.5 | 27.1 |
| 2 | HM-8 | 57.7 | 61.8 | 55.5 | 58.3 | 57.5 | 112.5 | 104.6 | 90.3 | 102.5 | 94.2 | 23.4 | 22.8 | 25.8 | 24.0 | 27.6 |
| 3 | HM-9 | 56.5 | 62.8 | 52.0 | 57.1 | 54.8 | 114.0 | 105.4 | 93.3 | 104.2 | 93.2 | 20.9 | 22.6 | 25.2 | 22.9 | 27.2 |
| 4 | HM-10 | 59.2 | 62.0 | 54.0 | 58.4 | 57.2 | 110.2 | 104.2 | 86.5 | 100.3 | 94.0 | 20.6 | 22.4 | 25.8 | 22.9 | 26.5 |
| | Loc. Mean | 59.8 | 62.0 | 53.7 | 58.5 | 57.0 | 110.9 | 104.7 | 90.6 | 102.0 | 94.1 | 22.1 | 22.5 | 25.5 | 23.3 | 27.1 |
| | C.D. (5%) | 1.23 | 3.93 | 1.14 | 5.41 | 0.91 | 2.19 | 5.00 | 1.31 | 4.51 | 1.47 | 1.48 | 1.57 | 1.29 | 1.88 | 1.46 |
| | C.V. (%) | 1.67 | 4.60 | 1.33 | 4.63 | 1.30 | 1.60 | 3.47 | 0.91 | 2.21 | 1.27 | 5.45 | 5.06 | 3.17 | 4.03 | 4.39 |
| | F (Prob.) | 0.00 | 0.89 | 0.00 | 0.62 | 0.00 | 0.00 | 0.96 | 0.00 | 0.26 | 0.11 | 0.00 | 0.72 | 0.46 | 0.48 | 0.46 |

Table No. 19 (Continued)

| SI No. PEDIGREE | PLANT HEIGHT (cm) | | | | | EAR HEIGHT (cm) | | | | |
|------------------------------|-------------------|-------|-------|--------------|-------|----------------------------|-------|------|--------------|-------|
| | BAJA | BARA | KANG | Zone Mean | UDHA | BAJA | BARA | KANG | Zone Mean | UDHA |
| 1 BH-4062 (RETEST) CHECKS | 174 | 148 | 236 | 186 | 213 | 89 | 68 | 124 | 93 | 106 |
| 2 HM-8 | 142 | 147 | 239 | 176 | 187 | 65 | 70 | 116 | 83 | 92 |
| 3 HM-9 | 140 | 157 | 233 | 176 | 190 | 70 | 69 | 121 | 87 | 85 |
| 4 HM-10 | 158 | 141 | 244 | 181 | 210 | 73 | 71 | 119 | 88 | 102 |
| Loc. Mean | 153 | 148 | 238 | 180 | 200 | 74 | 69 | 120 | 88 | 96 |
| C.D. (5%) | 8.92 | 28.01 | 13.56 | 22.52 | 23.17 | 8.02 | 10.34 | 6.29 | 11.81 | 15.32 |
| C.V. (%) | 4.73 | 13.71 | 3.57 | 6.27 | 9.43 | 8.79 | 10.83 | 3.28 | 6.73 | 12.95 |
| F (Prob.) | 0.00 | 0.66 | 0.35 | 0.70 | 0.07 | 0.00 | 0.90 | 0.09 | 0.30 | 0.04 |
| SI No. PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | |
| | BAJA | BARA | KANG | Zone Mean | UDHA | BAJA | BARA | KANG | Zone Mean | UDHA |
| 1 BH-4062 (RETEST) CHECKS | 84.3 | 77.4 | 84.5 | 82.1 | 79.2 | 70 | 42 | 54 | 55 | 46 |
| 2 HM-8 | 83.5 | 80.4 | 79.0 | 81.0 | 80.6 | 61 | 42 | 57 | 53 | 43 |
| 3 HM-9 | 86.7 | 80.0 | 84.0 | 83.6 | 81.1 | 71 | 45 | 54 | 57 | 46 |
| 4 HM-10 | 85.5 | 80.8 | 81.0 | 82.4 | 80.2 | 71 | 43 | 53 | 56 | 47 |
| Loc. Mean | 85.0 | 79.7 | 82.1 | 82.3 | 80.3 | 68 | 43 | 55 | 55 | 45 |
| C.D. (5%) | 0.00 | 2.06 | 0.98 | 3.89 | 0.80 | 5.52 | 7.18 | 2.56 | 6.39 | 8.30 |
| C.V. (%) | 0.00 | 1.88 | 0.75 | 2.37 | 0.81 | 6.59 | 12.14 | 2.93 | 5.80 | 14.92 |
| F (Prob.) | 0.00 | 0.02 | 0.00 | 0.49 | 0.00 | 0.00 | 0.81 | 0.05 | 0.66 | 0.76 |

TABLE No. 20

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

| GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | |
|-------------------------------------|-------------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|------|---|
| S1 | GRain YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | ZN 2 | |
| No | PEDIGREE | DELH | R | KARN | R | LUDH | R | PANT | R | KANP | R | MEAN | R |
| 1 | JH-31153 | 6734 | 2 | 7941 | 6 | 8332 | 1 | 10024 | 2 | 6989 | 7 | 8004 | 3 |
| 2 | CP-828 | 5808 | 3 | 10473 | 1 | 7952 | 3 | 8780 | 4 | 7736 | 2 | 8150 | 2 |
| 3 | KDMH-1001 | 4161 | 7 | 9128 | 3 | 7274 | 5 | 8097 | 6 | 7705 | 3 | 7273 | 5 |
| 4 | BISCO-111 | 4763 | 5 | 7810 | 7 | 7973 | 2 | 9202 | 3 | 7752 | 1 | 7500 | 4 |
| 5 | BISCO-555 | 7132 | 1 | 9729 | 2 | 7466 | 4 | 10209 | 1 | 7042 | 5 | 8316 | 1 |
| CHECKS | | | | | | | | | | | | | |
| 6 | HM-8 | 5672 | 4 | 9064 | 4 | 6845 | 6 | 7453 | 8 | 6708 | 8 | 7149 | 6 |
| 7 | HM-9 | 4477 | 6 | 7774 | 8 | 6609 | 7 | 7567 | 7 | 7176 | 4 | 6721 | 7 |
| 8 | MALVIYA MAKKA | 3559 | 8 | 8162 | 5 | 5459 | 8 | 8566 | 5 | 6997 | 6 | 6549 | 8 |
| | Location Mean | 5288 | | 8760 | | 7239 | | 8737 | | 7263 | | 7458 | |
| | Mean Stand | 96 | | 121 | | 99 | | 99 | | 113 | | 106 | |
| | C.D. (5%) | 374 | | 1101 | | 848 | | 2274 | | 476 | | 1015 | |
| | C.V. (%) | 4.8 | | 8.52 | | 7.95 | | 17.65 | | 3.71 | | - | |
| | F (Prob) | 0 | | 0.001 | | 0 | | 0.064 | | 0 | | - | |
| | Plot Size | 16.8 | | 12 | | 16.38 | | 18 | | 14.4 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | |
| | Sowing Date | 7-06 | | 29-06 | | 13-07 | | 1-08 | | 14-07 | | - | |
| | Harvest Date | 10-08 | | 1-10 | | 20-10 | | 18-11 | | 6-11 | | - | |
| | Irrigation Nos | 4 | | 5 | | 6 | | - | | 2 | | - | |
| | Fertilizer Applie | 150 | | 150 | | 125 | | 120 | | 80 | | - | |
| | Fertilizer Applie | 75 | | 60 | | 60 | | 60 | | 40 | | - | |
| | Fertilizer Applie | 75 | | 60 | | - | | 40 | | 40 | | - | |

TABLE No. 20 (Cont..)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM-8 ZN 2 | | | | | MEAN | GRAIN YIELD % SUPERIORITY OVER THE HM-9 ZN 2 | | | | | MEAN |
|----------|---------------|---|------|------|------|------|--------------|--|------|------|------|------|------|
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-31153 | 18.7 | - | 21.7 | 34.5 | 4.2 | 12 | 50.4 | 2.1 | 26.1 | 32.5 | - | 19.1 |
| 2 | CP-828 | 2.4 | 15.5 | 16.2 | 17.8 | 15.3 | 14 | 29.7 | 34.7 | 20.3 | 16 | 7.8 | 21.3 |
| 3 | KDMH-1001 | - | 0.7 | 6.3 | 8.6 | 14.9 | 1.7 | - | 17.4 | 10.1 | 7 | 7.4 | 8.2 |
| 4 | BISCO-111 | - | - | 16.5 | 23.5 | 15.6 | 4.9 | 6.4 | 0.5 | 20.6 | 21.6 | 8 | 11.6 |
| 5 | BISCO-555 | 25.7 | 7.3 | 9.1 | 37 | 5 | 16.3 | 59.3 | 25.1 | 13 | 34.9 | - | 23.7 |
| CHECKS | | | | | | | | | | | | | |
| 6 | HM-8 | - | - | - | - | - | - | 26.7 | 16.6 | 3.6 | - | - | 6.4 |
| 7 | HM-9 | - | - | - | 1.5 | 7 | - | - | - | - | - | - | - |
| 8 | MALVIYA MAKKA | - | - | - | 14.9 | 4.3 | - | - | 5 | - | 13.2 | - | - |
| S1 No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | Zone Mean | GRAIN YIELD % SUPERIORITY OVER THE MALVIYA MAKKA ZN 2 | | | | | MEAN |
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-31153 | 50.5 | 46.0 | 47.3 | 51.0 | 50.3 | 49.0 | 89.2 | - | 52.6 | 17 | - | 22.2 |
| 2 | CP-828 | 55.8 | 52.3 | 51.0 | 54.5 | 52.7 | 53.2 | 63.2 | 28.3 | 45.7 | 2.5 | 10.6 | 24.4 |
| 3 | KDMH-1001 | 54.8 | 51.0 | 48.3 | 53.5 | 48.7 | 51.2 | 16.9 | 11.8 | 33.2 | - | 10.1 | 11.1 |
| 4 | BISCO-111 | 54.5 | 49.8 | 50.5 | 52.8 | 51.0 | 51.7 | 33.8 | - | 46 | 7.4 | 10.8 | 14.5 |
| 5 | BISCO-555 | 53.5 | 51.3 | 49.8 | 51.8 | 49.7 | 51.2 | 100.4 | 19.2 | 36.8 | 19.2 | 0.6 | 27 |
| CHECKS | | | | | | | | | | | | | |
| 6 | HM-8 | 52.3 | 50.8 | 49.3 | 53.0 | 49.7 | 51.0 | 59.4 | 11 | 25.4 | - | - | 9.2 |
| 7 | HM-9 | 54.3 | 49.3 | 47.0 | 52.3 | 49.7 | 50.5 | 25.8 | - | 21.1 | - | 2.6 | 2.6 |
| 8 | MALVIYA MAKKA | 52.0 | 47.8 | 46.3 | 51.5 | 52.7 | 50.0 | - | - | - | - | - | - |
| | Loc. Mean | 53.4 | 49.8 | 48.7 | 52.5 | 50.5 | 51.0 | | | | | | |
| | C.D. (5%) | 1.77 | 2.79 | 1.07 | 1.92 | 3.09 | 1.59 | | | | | | |
| | C.V. (%) | 2.25 | 3.81 | 1.50 | 2.49 | 3.49 | 2.41 | | | | | | |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.02 | 0.12 | 0.00 | | | | | | |

TABLE No. 20 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | Zone Mean | DAYS TO 75% DRY HUSK | | | | | Zone Mean |
|----------|---------------|-----------------------|------|------|-------|------|--------------|----------------------|-------|-------|-------|-------|--------------|
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-31153 | 54.8 | 48.0 | 48.0 | 53.8 | 55.3 | 52.0 | 91.3 | 80.5 | 79.8 | 100.5 | 87.0 | 87.8 |
| 2 | CP-828 | 58.5 | 55.3 | 52.3 | 58.3 | 58.0 | 56.5 | 93.0 | 84.8 | 81.8 | 103.3 | 89.0 | 90.4 |
| 3 | KDMH-1001 | 55.3 | 53.0 | 49.3 | 49.3 | 53.7 | 52.1 | 88.8 | 85.0 | 81.0 | 102.0 | 86.3 | 88.6 |
| 4 | BISCO-111 | 58.0 | 52.5 | 51.5 | 56.8 | 56.3 | 55.0 | 94.0 | 82.3 | 81.8 | 101.8 | 89.0 | 89.8 |
| 5 | BISCO-555 | 55.8 | 53.8 | 50.8 | 55.0 | 55.0 | 54.1 | 84.5 | 84.0 | 81.5 | 100.5 | 87.7 | 87.6 |
| | CHECKS | | | | | | | | | | | | |
| 6 | HM-8 | 55.5 | 53.3 | 50.3 | 56.0 | 54.7 | 53.9 | 86.5 | 84.5 | 80.5 | 100.8 | 86.7 | 87.8 |
| 7 | HM-9 | 57.5 | 51.5 | 48.0 | 55.8 | 55.7 | 53.7 | 90.3 | 83.3 | 80.0 | 102.5 | 88.0 | 88.8 |
| 8 | MALVIYA MAKKA | 54.0 | 50.5 | 47.3 | 54.0 | 55.0 | 52.2 | 86.8 | 83.0 | 79.3 | 100.0 | 89.0 | 87.6 |
| | Loc. Mean | 56.2 | 52.2 | 49.7 | 54.8 | 55.5 | 53.7 | 89.4 | 83.4 | 80.7 | 101.4 | 87.8 | 88.5 |
| | C.D. (5%) | 2.90 | 3.04 | 1.16 | 8.00 | 4.15 | 1.75 | 4.16 | 3.39 | 0.93 | 1.81 | 2.29 | 2.19 |
| | C.V. (%) | 3.51 | 3.96 | 1.59 | 9.91 | 4.28 | 2.52 | 3.17 | 2.77 | 0.78 | 1.22 | 1.49 | 1.91 |
| | F (Prob.) | 0.03 | 0.00 | 0.00 | 0.47 | 0.55 | 0.00 | 0.00 | 0.16 | 0.00 | 0.01 | 0.11 | 0.10 |
| | | | | | | | | | | | | | |
| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | | Zone Mean | PLANT HEIGHT (cm) | | | | | Zone Mean |
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-31153 | 35.3 | 30.6 | 32.1 | 25.4 | 15.0 | 27.7 | 180 | 198 | 180 | 223 | 226 | 201 |
| 2 | CP-828 | 38.8 | 27.0 | 27.6 | 29.0 | 15.0 | 27.5 | 189 | 206 | 194 | 250 | 242 | 216 |
| 3 | KDMH-1001 | 39.9 | 30.2 | 25.4 | 28.0 | 15.0 | 27.7 | 195 | 206 | 191 | 239 | 205 | 207 |
| 4 | BISCO-111 | 45.1 | 32.0 | 34.1 | 26.0 | 15.0 | 30.4 | 171 | 204 | 180 | 235 | 205 | 199 |
| 5 | BISCO-555 | 39.8 | 30.4 | 28.0 | 26.2 | 15.0 | 27.9 | 223 | 219 | 194 | 259 | 210 | 221 |
| | CHECKS | | | | | | | | | | | | |
| 6 | HM-8 | 38.7 | 30.8 | 30.3 | 30.9 | 15.0 | 29.1 | 180 | 178 | 176 | 192 | 195 | 184 |
| 7 | HM-9 | 38.0 | 27.8 | 27.2 | 32.2 | 15.0 | 28.0 | 181 | 186 | 166 | 225 | 195 | 190 |
| 8 | MALVIYA MAKKA | 36.6 | 29.6 | 25.5 | 26.8 | 15.0 | 26.7 | 179 | 180 | 179 | 205 | 145 | 178 |
| | Loc. Mean | 39.0 | 29.8 | 28.7 | 28.0 | 15.0 | 28.1 | 187 | 197 | 183 | 228 | 203 | 199 |
| | C.D. (5%) | 2.32 | 0.81 | 1.50 | 4.02- | | 2.92 | 15.15 | 10.41 | 12.51 | 28.13 | 28.94 | 17.33 |
| | C.V. (%) | 4.04 | 1.85 | 3.55 | 9.74- | | 8.01 | 5.51 | 3.60 | 4.66 | 8.38 | 8.15 | 6.71 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.02- | | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 20 (Cont..)

| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | | | Zone Mean | GRAIN SHELLING % | | | | | Zone Mean |
|----------------------------|---------------|-----------------|-------|-------|------|-------|--------------|------------------|------|-------|------|------|--------------|
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-31153 | 95 | 108 | 99 | 98 | 103 | 101 | 87.6 | 79.9 | 87.7 | 85.2 | 72.0 | 82.5 |
| 2 | CP-828 | 91 | 126 | 100 | 101 | 102 | 104 | 79.1 | 78.8 | 84.4 | 85.9 | 74.5 | 80.5 |
| 3 | KDMH-1001 | 97 | 112 | 80 | 88 | 97 | 95 | 83.1 | 83.8 | 86.1 | 84.3 | 75.0 | 82.5 |
| 4 | BISCO-111 | 99 | 122 | 98 | 101 | 115 | 107 | 86.0 | 82.8 | 88.4 | 84.6 | 75.5 | 83.4 |
| 5 | BISCO-555 | 133 | 128 | 105 | 102 | 105 | 115 | 81.6 | 76.0 | 85.3 | 84.0 | 73.0 | 80.0 |
| CHECKS | | | | | | | | | | | | | |
| 6 | HM-8 | 95 | 99 | 85 | 90 | 91 | 92 | 84.3 | 82.8 | 85.7 | 85.7 | 72.0 | 82.1 |
| 7 | HM-9 | 100 | 111 | 85 | 86 | 128 | 102 | 81.8 | 77.5 | 87.3 | 83.3 | 74.0 | 80.8 |
| 8 | MALVIYA MAKKA | 89 | 100 | 90 | 79 | 81 | 88 | 84.2 | 77.0 | 87.8 | 84.6 | 72.5 | 81.2 |
| | Loc. Mean | 100 | 113 | 93 | 93 | 103 | 100 | 83.5 | 79.8 | 86.6 | 84.7 | 73.6 | 81.6 |
| | C.D. (5%) | 9.32 | 16.76 | 18.04 | 8.06 | 36.48 | 11.15 | 1.85 | 0.96 | 0.98- | | 0.80 | 2.39 |
| | C.V. (%) | 6.35 | 10.08 | 13.24 | 5.89 | 20.26 | 8.58 | 1.51 | 0.82 | 0.77- | | 0.62 | 2.26 |
| | F (Prob.) | 0.00 | 0.01 | 0.09 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00- | | 0.00 | 0.08 |
| STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | |
| Sl No | PEDIGREE | DELH | KARN | LUDH | PANT | KANP | Zone Mean | | | | | | |
| 1 | JH-31153 | 173 | 104 | 61 | 57 | 79 | 95 | | | | | | |
| 2 | CP-828 | 144 | 100 | 63 | 49 | 80 | 87 | | | | | | |
| 3 | KDMH-1001 | 166 | 94 | 58 | 48 | 79 | 89 | | | | | | |
| 4 | BISCO-111 | 165 | 104 | 62 | 57 | 80 | 94 | | | | | | |
| 5 | BISCO-555 | 146 | 102 | 60 | 57 | 78 | 89 | | | | | | |
| CHECKS | | | | | | | | | | | | | |
| 6 | HM-8 | 163 | 100 | 60 | 55 | 77 | 91 | | | | | | |
| 7 | HM-9 | 155 | 103 | 61 | 57 | 79 | 91 | | | | | | |
| 8 | MALVIYA MAKKA | 174 | 99 | 58 | 58 | 78 | 93 | | | | | | |
| | Loc. Mean | 161 | 101 | 61 | 55 | 79 | 91 | | | | | | |
| | C.D. (5%) | 39 | 12 | 6 | 6 | 2 | 7 | | | | | | |
| | C.V. (%) | 17 | 8 | 6 | 8 | 1 | 6 | | | | | | |
| | F (Prob.) | 0.65 | 0.63 | 0.57 | 0.01 | 0.03 | 0.37 | | | | | | |

TABLE No. 21

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR IN AET 2nd YEAR, TRIAL No. TR70Z3 DURING KHARIF (2009).

| | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | ZN 3 | |
|----|-------------------|-------------------------------------|---|------|---|-------|---|-------|---|-------|---|-------|---|------|---|
| S1 | PEDIGREE | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R |
| 1 | JH-31153 | 7442 | 1 | 5598 | 3 | 6246 | 3 | 6942 | 3 | 7820 | 3 | 6415 | 1 | 6744 | 2 |
| 2 | BISCO-111 | 6290 | 2 | 5730 | 2 | 6662 | 2 | 6181 | 4 | 7830 | 2 | 6096 | 4 | 6465 | 4 |
| 3 | CP-838 | 6086 | 3 | 5758 | 1 | 6721 | 1 | 10777 | 1 | 8617 | 1 | 6252 | 3 | 7368 | 1 |
| | CHECKS | | | | | | | | | | | | | | |
| 4 | HM-8 | 5820 | 4 | 5070 | 4 | 5355 | 5 | 10357 | 2 | 7685 | 4 | 5695 | 5 | 6664 | 3 |
| 5 | HM-9 | 4907 | 6 | 3968 | 5 | 5825 | 4 | 4886 | 6 | 6432 | 5 | 6263 | 2 | 5380 | 5 |
| 6 | MALVIYA MAKKA-2 | 5567 | 5 | 3862 | 6 | 4814 | 6 | 5669 | 5 | 6361 | 6 | 5214 | 6 | 5248 | 6 |
| | Location Mean | 6018 | | 4998 | | 5937 | | 7469 | | 7457 | | 5989 | | 6311 | |
| | Mean Stand | 101 | | 90 | | 82 | | 109 | | 90 | | 103 | | 96 | |
| | C.D. (5%) | 314 | | 543 | | 94 | | 460 | | 964 | | 1070 | | 574 | |
| | C.V. (%) | 3.44 | | 7.17 | | 1.05 | | 4.06 | | 8.52 | | 11.78 | | - | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0.006 | | 0.037 | | | |
| | Plot Size | 14.4 | | 18 | | 14.4 | | 9.6 | | 16.8 | | 18 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 4-07 | | 7-07 | | 27-07 | | 1-07 | | 8-07 | | 18-07 | | - | |
| | Harvest Date | 15-10 | | - | | 7-11 | | 16-10 | | 19-10 | | - | | - | |
| | Irrigation Nos | - | | - | | - | | 2 | | - | | - | | - | |
| | Fertilizer Applie | 120 | | 120 | | 120 | | 100 | | - | | 120 | | - | |
| | Fertilizer Applie | 60 | | 60 | | 60 | | 60 | | - | | 60 | | - | |
| | Fertilizer Applie | 60 | | 40 | | 60 | | 40 | | - | | 40 | | - | |

TABLE No. 21...

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

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

Table No. 21 (Continued)

| SI No. PEDIGREE | DAYS TO 50% SILKING | | | | | | | DAYS TO 75% DRY HUSK | | | | | | |
|--------------------|-----------------------|------|------|------|------|------|--------------|----------------------|-------|------|------|-------|------|--------------|
| | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
| 1 JH-31153 | 54.3 | 52.0 | 48.3 | 58.3 | 52.3 | 47.8 | 52.1 | 281.0 | 88.8 | 89.5 | 95.3 | 98.3 | 87.5 | 90.1 |
| 2 BISCO-111 | 57.5 | 55.0 | 51.3 | 62.0 | 54.3 | 50.0 | 55.0 | 285.3 | 88.3 | 91.0 | 96.5 | 99.0 | 92.8 | 92.1 |
| 3 CP-838 CHECKS | 55.5 | 53.5 | 50.8 | 62.8 | 53.0 | 53.0 | 54.8 | 286.8 | 88.3 | 92.0 | 95.8 | 99.5 | 90.3 | 92.1 |
| 4 HM-8 | 56.5 | 55.8 | 53.0 | 56.5 | 54.8 | 55.3 | 55.3 | 283.3 | 88.3 | 90.0 | 93.8 | 99.5 | 91.5 | 91.0 |
| 5 HM-9 | 54.5 | 52.8 | 50.5 | 60.8 | 54.8 | 51.8 | 54.2 | 284.8 | 88.0 | 91.0 | 96.8 | 98.8 | 90.3 | 91.6 |
| 6 MALVIYA MAKKA-2 | 52.5 | 51.8 | 47.8 | 56.5 | 51.5 | 50.0 | 51.7 | 282.8 | 86.3 | 88.5 | 94.5 | 97.0 | 86.8 | 89.3 |
| Loc. Mean | 55.1 | 53.5 | 50.3 | 59.5 | 53.4 | 51.3 | 53.8 | 284.0 | 88.0 | 90.3 | 95.4 | 98.7 | 89.8 | 91.0 |
| C.D. (5%) | 1.00 | 1.04 | 1.95 | 1.59 | 1.74 | 2.11 | 1.81 | 02.56 | 2.03 | 1.97 | 1.75 | 1.28 | 0.95 | 1.32 |
| C.V. (%) | 1.21 | 1.29 | 2.58 | 1.78 | 2.16 | 2.73 | 2.83 | 02.02 | 1.53 | 1.45 | 1.22 | 0.86 | 0.70 | 1.22 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.20 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 |
| SI No. PEDIGREE | MOISTURE % AT HARVEST | | | | | | | PLANT HEIGHT (cm) | | | | | | |
| | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean |
| 1 JH-31153 | 4.0 | 20.5 | 17.1 | 26.1 | 19.8 | 21.5 | 21.5 | 207 | 166 | 152 | 225 | 180 | 217 | 191 |
| 2 BISCO-111 | 6.0 | 18.9 | 17.2 | 28.2 | 19.1 | 21.9 | 21.9 | 212 | 164 | 140 | 215 | 192 | 224 | 191 |
| 3 CP-838 CHECKS | 6.6 | 21.6 | 17.3 | 31.2 | 20.2 | 23.4 | 23.4 | 223 | 178 | 149 | 238 | 186 | 225 | 200 |
| 4 HM-8 | 3.9 | 21.2 | 16.8 | 23.7 | 20.8 | 21.3 | 21.3 | 197 | 160 | 125 | 218 | 192 | 209 | 183 |
| 5 HM-9 | 4.1 | 18.2 | 16.9 | 27.6 | 19.7 | 21.3 | 21.3 | 191 | 155 | 143 | 213 | 192 | 208 | 184 |
| 6 MALVIYA MAKKA-2 | 4.0 | 18.9 | 16.7 | 30.2 | 20.3 | 22.0 | 22.0 | 205 | 158 | 127 | 215 | 196 | 182 | 181 |
| Loc. Mean | 4.7 | 19.9 | 17.0 | 27.8 | 20.0 | 21.9 | 21.9 | 206 | 163 | 140 | 220 | 190 | 211 | 188 |
| C.D. (5%) | .21- | | 0.27 | 0.50 | 0.89 | 1.88 | 1.88 | 4.01 | 12.44 | 6.69 | 3.60 | 11.55 | 7.83 | 10.38 |
| C.V. (%) | .56- | | 1.04 | 1.18 | 2.95 | 6.52 | 6.52 | 4.52 | 5.05 | 3.18 | 1.08 | 4.04 | 2.47 | 4.64 |
| F (Prob.) | .00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.23 | 0.23 | 0.00 | 0.02 | 0.00 | 0.00 | 0.11 | 0.00 | 0.01 |

TABLE No. 21...

| SI No. PEDIGREE | EAR HEIGHT (cm) | | | | | | | GRAIN SHELLING % | | | | | | |
|--------------------|----------------------------|-------|------|------|-------|-------|--------------|------------------|------|------|------|------|--------------|--|
| | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean | BAHR | JASH | VARA | RANC | AMBI | Zone Mean | |
| 1 JH-31153 | 118 | 89 | 64 | 118 | 81 | 72 | 90 | 80.4 | 79.9 | 78.8 | 88.2 | 85.0 | 82.4 | |
| 2 BISCO-111 | 117 | 84 | 52 | 125 | 99 | 72 | 91 | 77.0 | 79.8 | 74.8 | 87.9 | 84.3 | 80.7 | |
| 3 CP-838 | 111 | 77 | 49 | 128 | 89 | 75 | 88 | 77.9 | 77.9 | 76.0 | 88.8 | 83.7 | 80.8 | |
| CHECKS | | | | | | | | | | | | | | |
| 4 HM-8 | 112 | 79 | 43 | 125 | 94 | 65 | 86 | 79.4 | 78.8 | 75.3 | 88.6 | 85.0 | 81.4 | |
| 5 HM-9 | 111 | 77 | 51 | 103 | 92 | 69 | 84 | 72.7 | 78.0 | 74.5 | 85.7 | 83.5 | 78.9 | |
| 6 MALVIYA MAKKA-2 | 110 | 81 | 51 | 110 | 93 | 66 | 85 | 80.0 | 79.7 | 76.8 | 86.6 | 84.3 | 81.5 | |
| Loc. Mean | 113 | 81 | 52 | 118 | 91 | 70 | 87 | 77.9 | 79.0 | 76.0 | 87.6 | 84.3 | 80.9 | |
| C.D. (5%) | 15.62 | 14.11 | 7.00 | 4.53 | 11.50 | 7.68 | 6.96 | 1.55 | 0.81 | 0.66 | 1.38 | 1.90 | 1.65 | |
| C.V. (%) | 9.17 | 11.56 | 8.99 | 2.55 | 8.36 | 7.28 | 6.69 | 1.32 | 0.68 | 0.58 | 1.04 | 1.50 | 1.55 | |
| F (Prob.) | 0.84 | 0.45 | 0.00 | 0.00 | 0.10 | 0.13 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.01 | |
| | ----- | | | | | | | | | | | | | |
| SI No. PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | Zone Mean | | | | | | |
| | BAHR | DHOL | JASH | VARA | RANC | AMBI | BAHR | | DHOL | JASH | VARA | RANC | AMBI | |
| 1 JH-31153 | 72 | 50 | 57 | 114 | 60 | 63 | 69 | | | | | | | |
| 2 BISCO-111 | 70 | 49 | 57 | 110 | 52 | 60 | 66 | | | | | | | |
| 3 CP-838 | 68 | 48 | 57 | 112 | 49 | 47 | 63 | | | | | | | |
| CHECKS | | | | | | | | | | | | | | |
| 4 HM-8 | 71 | 50 | 58 | 112 | 51 | 57 | 66 | | | | | | | |
| 5 HM-9 | 68 | 52 | 57 | 114 | 57 | 66 | 69 | | | | | | | |
| 6 MALVIYA MAKKA-2 | 70 | 51 | 57 | 117 | 54 | 52 | 67 | | | | | | | |
| Loc. Mean | 70 | 50 | 57 | 113 | 54 | 57 | 67 | | | | | | | |
| C.D. (5%) | 2.72 | 4.29 | 1.81 | 4.68 | 8.09 | 9.87 | 3.73 | | | | | | | |
| C.V. (%) | 2.58 | 5.68 | 2.10 | 2.74 | 9.98 | 11.44 | 4.70 | | | | | | | |
| F (Prob.) | 0.05 | 0.50 | 0.84 | 0.11 | 0.10 | 0.01 | 0.04 | | | | | | | |

TABLE No. 22

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT HYDERABAD, KARIMNAGAR, ARBHAVI(1), ARBHAVI(2), MANDYA, COIMBATORE, KOLHAPUR, KAVERI SEEDS HYDERABAD IN AET 2nd YEAR, TRIAL No. TR70Z4 DURING KHARIF (2009).

| GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|------|---|
| S1 | | | | | | | | | | | | | | | | | | | |
| No | PEDIGREE | ARB1 | R | ARB2 | R | HYDE | R | KARI | R | KOLH | R | MAND | R | COIM | R | HYDE | R | ZN 4 | R |
| | | | | | | KAVE | | MEAN | | | | | | | | | | | |
| 1 | BH-4062 (RETEST) | 6733 | 3 | 7249 | 3 | 7345 | 1 | 4748 | 1 | 8884 | 2 | 10096 | 2 | 11146 | 3 | 7845 | 3 | 8006 | 2 |
| 2 | BISCO-111 | 7481 | 2 | 8097 | 1 | 6645 | 2 | 4205 | 4 | 9252 | 1 | 10180 | 1 | 11666 | 2 | 8384 | 2 | 8239 | 1 |
| 3 | KAVERI-25K60 CHECKS | 7774 | 1 | 7331 | 2 | 5990 | 3 | 4266 | 3 | 5586 | 6 | 9395 | 3 | 12951 | 1 | 10705 | 1 | 8000 | 3 |
| 4 | HM-8 | 5897 | 4 | 6489 | 5 | 4525 | 6 | 4506 | 2 | 6500 | 4 | 7707 | 5 | 9849 | 5 | 7547 | 4 | 6627 | 5 |
| 5 | HM-9 | 5848 | 5 | 7053 | 4 | 5456 | 4 | 3874 | 5 | 6182 | 5 | 8132 | 4 | 10624 | 4 | 6712 | 5 | 6735 | 4 |
| 6 | MALVIYA MAKKA-2 | 4223 | 6 | 3690 | 6 | 5218 | 5 | 3701 | 6 | 7182 | 3 | 7572 | 6 | 8746 | 6 | 6269 | 6 | 5825 | 6 |
| | Location Mean | 6326 | | 6652 | | 5863 | | 4217 | | 7264 | | 8847 | | 10830 | | 7910 | | 7239 | |
| | Mean Stand | 99 | | 100 | | 93 | | 110 | | 100 | | 81 | | 96 | | 84 | | 95 | |
| | C.D. (5%) | 957 | | 1534 | | 1560 | | 323 | | 1624 | | 855 | | 717 | | 979 | | 1069 | |
| | C.V. (%) | 9.98 | | 15.21 | | 17.55 | | 5.05 | | 14.74 | | 6.38 | | 4.36 | | 8.16 | | - | |
| | F (Prob) | 0 | | 0 | | 0.003 | | 0 | | 0 | | 0 | | 0 | | 0.002 | | | |
| | Plot Size | 18 | | 18 | | 18 | | 18 | | 18 | | 14 | | 14.4 | | 14.4 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 17-07 | | 17-07 | | 6-07 | | 12-07 | | 7-11 | | 22-07 | | 9-07 | | 23-06 | | - | |
| | Harvest Date | 6-11 | | 6-11 | | 16-11 | | 18-10 | | 12-02 | | 30-11 | | 4-11 | | 10-10 | | - | |
| | Irrigation Nos | 6 | | 6 | | 2 | | - | | - | | 6 | | 10 | | 8 | | - | |
| | Fertilizer Applie | 150 | | 150 | | 180 | | 200 | | 120 | | 150 | | 150 | | 150 | | - | |
| | Fertilizer Applie | 75 | | 75 | | 60 | | 80 | | 60 | | 75 | | 75 | | 60 | | - | |
| | Fertilizer Applie | 37.5 | | 37.5 | | 50 | | 60 | | 40 | | 40 | | 75 | | 60 | | - | |

TABLE No. 22 (Cont..)

| ----- | | | | | | | | | | | |
|--|------------------|------|-------|------|------|------|------|------|------|------|------|
| GRAIN YIELD % SUPERIORITY OVER THE HM-8 | | | | | | | | | | | |
| S1 | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | HYDE | ZN 4 | |
| No | PEDIGREE | | | | | | | | KAVE | MEAN | |
| 1 | BH-4062 (RETEST) | 14.2 | 11.7 | 62.3 | 5.4 | 36.7 | 31 | 13.2 | 4 | 20.8 | |
| 2 | BISCO-111 | 26.9 | 24.8 | 46.9 | - | 42.3 | 32.1 | 18.5 | 11.1 | 24.3 | |
| 3 | KAVERI-25K60 | 31.8 | 13 | 32.4 | - | - | 21.9 | 31.5 | 41.8 | 20.7 | |
| CHECKS | | | | | | | | | | | |
| 4 | HM-8 | - | - | - | - | - | - | - | - | - | |
| 5 | HM-9 | - | 8.7 | 20.6 | - | - | 5.5 | 7.9 | - | 1.6 | |
| 6 | MALVIYA MAKKA-2 | - | - | 15.3 | - | 10.5 | - | - | - | - | |
| ----- | | | | | | | | | | | |
| GRAIN YIELD % SUPERIORITY OVER THE HM-9 | | | | | | | | | | | |
| S1 | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | HYDE | ZN 4 | OV'L |
| No | PEDIGREE | | | | | | | | KAVE | MEAN | MEAN |
| 1 | BH-4062 (RETEST) | 15.1 | 2.8 | 34.6 | 22.5 | 43.7 | 24.1 | 4.9 | 16.9 | 18.9 | 18.9 |
| 2 | BISCO-111 | 27.9 | 14.8 | 21.8 | 8.5 | 49.7 | 25.2 | 9.8 | 24.9 | 22.3 | 22.3 |
| 3 | KAVERI-25K60 | 32.9 | 3.9 | 9.8 | 10.1 | - | 15.5 | 21.9 | 59.5 | 18.8 | 18.8 |
| CHECKS | | | | | | | | | | | |
| 4 | HM-8 | 0.8 | - | - | 16.3 | 5.2 | - | - | 12.4 | - | - |
| 5 | HM-9 | - | - | - | - | - | - | - | - | - | - |
| 6 | MALVIYA MAKKA-2 | - | - | - | - | 16.2 | - | - | - | - | - |
| ----- | | | | | | | | | | | |
| GRAIN YIELD % SUPERIORITY OVER THE MALVIYA MAKKA-2 | | | | | | | | | | | |
| S1 | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | HYDE | ZN 4 | |
| No | PEDIGREE | | | | | | | | KAVE | MEAN | |
| 1 | BH-4062 (RETEST) | 59.4 | 96.5 | 40.8 | 28.3 | 23.7 | 33.3 | 27.4 | 25.1 | 37.4 | |
| 2 | BISCO-111 | 77.2 | 119.4 | 27.4 | 13.6 | 28.8 | 34.4 | 33.4 | 33.7 | 41.4 | |
| 3 | KAVERI-25K60 | 84.1 | 98.7 | 14.8 | 15.3 | - | 24.1 | 48.1 | 70.7 | 37.3 | |
| CHECKS | | | | | | | | | | | |
| 4 | HM-8 | 39.6 | 75.8 | - | 21.8 | - | 1.8 | 12.6 | 20.4 | 13.8 | |
| 5 | HM-9 | 38.5 | 91.1 | 4.6 | 4.7 | - | 7.4 | 21.5 | 7.1 | 15.6 | |
| 6 | MALVIYA MAKKA-2 | - | - | - | - | - | - | - | - | - | |
| ----- | | | | | | | | | | | |

Table No. 22 (Continued)

| DAYS TO 50% POLLEN SHED | | | | | | | | | |
|-------------------------|------------------|------|------|------|------|------|------|------|------|
| SI | | | | | | | | HYDE | Zone |
| No. PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | KAVE | Mean |
| 1 | BH-4062 (RETEST) | 57.8 | 57.5 | 50.8 | 53.3 | 58.5 | 52.8 | 52.5 | 54.8 |
| 2 | BISCO-111 | 55.5 | 55.5 | 53.5 | 51.8 | 51.0 | 49.8 | 50.5 | 52.4 |
| 3 | KAVERI-25K60 | 57.0 | 57.3 | 53.3 | 51.3 | 56.5 | 52.5 | 52.8 | 54.3 |
| CHECKS | | | | | | | | | |
| 4 | HM-8 | 56.5 | 57.5 | 53.5 | 51.3 | 57.0 | 52.5 | 52.3 | 54.3 |
| 5 | HM-9 | 55.5 | 56.8 | 51.8 | 49.3 | 53.8 | 48.8 | 49.5 | 52.1 |
| 6 | MALVIYA MAKKA-2 | 53.3 | 52.5 | 54.8 | 46.5 | 47.3 | 46.5 | 46.0 | 49.6 |
| | Loc. Mean | 55.9 | 56.2 | 52.9 | 50.5 | 54.0 | 50.5 | 50.6 | 52.9 |
| | C.D. (5%) | 1.78 | 1.48 | 2.31 | 1.97 | 5.00 | 1.09 | 0.50 | 1.63 |
| | C.V. (%) | 2.12 | 1.75 | 2.89 | 2.59 | 6.14 | 1.43 | 0.66 | 3.04 |
| | F (Prob.) | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DAYS TO 50% SILKING | | | | | | | | | |
| SI | | | | | | | | HYDE | Zone |
| No. PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | KAVE | Mean |
| 1 | BH-4062 (RETEST) | 58.8 | 59.0 | 53.3 | 55.3 | 59.5 | 55.0 | 54.8 | 56.7 |
| 2 | BISCO-111 | 56.5 | 57.0 | 56.0 | 54.0 | 52.0 | 51.8 | 52.5 | 54.3 |
| 3 | KAVERI-25K60 | 58.5 | 58.5 | 55.8 | 53.0 | 57.5 | 54.8 | 54.8 | 56.0 |
| CHECKS | | | | | | | | | |
| 4 | HM-8 | 57.8 | 58.5 | 55.8 | 53.8 | 58.0 | 55.0 | 54.3 | 56.0 |
| 5 | HM-9 | 56.5 | 57.3 | 54.3 | 52.0 | 54.8 | 50.8 | 51.5 | 53.9 |
| 6 | MALVIYA MAKKA-2 | 55.0 | 54.0 | 55.3 | 48.5 | 48.3 | 48.5 | 48.0 | 51.4 |
| | Loc. Mean | 57.2 | 57.4 | 55.0 | 52.8 | 55.0 | 52.6 | 52.6 | 54.7 |
| | C.D. (5%) | 1.89 | 1.38 | 1.68 | 1.65 | 5.00 | 1.43 | 0.57 | 1.56 |
| | C.V. (%) | 2.19 | 1.60 | 2.02 | 2.08 | 6.03 | 1.80 | 0.72 | 2.80 |
| | F (Prob.) | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 22 (Continued)

| SI No. PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | HYDE KAVE | Zone Mean |
|--------------------------|-----------------------|-------|------|------|------|------|-------|--------------|--------------|
| | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | | |
| 1 BH-4062 (RETEST) | 92.5 | 92.0 | 95.5 | 79.8 | 97.5 | 94.5 | 105.0 | 94.5 | 93.9 |
| 2 BISCO-111 | 93.3 | 93.0 | 97.5 | 80.0 | 92.3 | 94.0 | 100.0 | 92.8 | 92.8 |
| 3 KAVERI-25K60 CHECKS | 93.8 | 93.8 | 98.8 | 77.3 | 95.5 | 96.3 | 105.0 | 96.0 | 94.5 |
| 4 HM-8 | 93.3 | 91.3 | 98.5 | 78.3 | 96.0 | 92.0 | 105.0 | 94.8 | 93.6 |
| 5 HM-9 | 93.3 | 92.8 | 96.3 | 77.8 | 94.5 | 92.0 | 100.0 | 93.0 | 92.4 |
| 6 MALVIYA MAKKA-2 | 88.3 | 88.0 | 98.3 | 77.5 | 90.0 | 87.0 | 98.5 | 89.0 | 89.6 |
| Loc. Mean | 92.4 | 91.8 | 97.5 | 78.4 | 94.3 | 92.6 | 102.3 | 93.3 | 92.8 |
| C.D. (5%) | 1.05 | 2.75 | 2.36 | 0.99 | 3.97 | 5.51 | 0.62 | 2.62 | 1.70 |
| C.V. (%) | 0.75 | 1.98 | 1.61 | 0.84 | 2.79 | 3.95 | 0.40 | 1.87 | 1.81 |
| F (Prob.) | 0.00 | 0.01 | 0.05 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 |
| SI No. PEDIGREE | MOISTURE % AT HARVEST | | | | | | | HYDE KAVE | Zone Mean |
| | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | | |
| 1 BH-4062 (RETEST) | 36.9 | 34.2 | 29.7 | 14.8 | 15.0 | 16.5 | 18.6 | 12.6 | 22.3 |
| 2 BISCO-111 | 34.3 | 31.3 | 34.3 | 14.0 | 14.4 | 17.0 | 19.2 | 11.7 | 22.0 |
| 3 KAVERI-25K60 CHECKS | 33.1 | 35.8 | 34.9 | 14.3 | 14.0 | 16.3 | 18.7 | 12.1 | 22.4 |
| 4 HM-8 | 35.0 | 33.3 | 36.2 | 13.5 | 14.5 | 17.6 | 19.7 | 12.1 | 22.7 |
| 5 HM-9 | 28.7 | 25.6 | 27.2 | 13.8 | 14.9 | 16.8 | 17.6 | 12.2 | 19.6 |
| 6 MALVIYA MAKKA-2 | 26.4 | 25.0 | 30.8 | 13.3 | 13.9 | 16.5 | 18.1 | 12.2 | 19.5 |
| Loc. Mean | 32.4 | 30.9 | 32.2 | 13.9 | 14.4 | 16.8 | 18.6 | 12.1 | 21.4 |
| C.D. (5%) | 2.86 | 5.58 | 1.68 | 1.04 | 0.62 | 0.56 | 1.38 | 1.03 | 2.22 |
| C.V. (%) | 5.85 | 11.99 | 3.46 | 4.97 | 2.83 | 2.22 | 4.93 | 5.63 | 10.21 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.08 | 0.01 | 0.00 | 0.06 | 0.56 | 0.01 |

Table No. 22 (Continued)

| PLANT HEIGHT (cm) | | | | | | | | | |
|--------------------------|------|------|-------|------|-------|-------|-------|--------------|--------------|
| SI No. PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | HYDE KAVE | Zone Mean |
| 1 BH-4062 (RETEST) | 202 | 113 | 218 | 234 | 203 | 203 | 220 | 225 | 202 |
| 2 BISCO-111 | 173 | 100 | 229 | 213 | 175 | 182 | 201 | 215 | 186 |
| 3 KAVERI-25K60 CHECKS | 196 | 95 | 223 | 231 | 181 | 201 | 225 | 237 | 199 |
| 4 HM-8 | 165 | 90 | 205 | 180 | 164 | 183 | 181 | 201 | 171 |
| 5 HM-9 | 162 | 85 | 220 | 201 | 168 | 177 | 197 | 203 | 177 |
| 6 MALVIYA MAKKA-2 | 171 | 65 | 201 | 187 | 180 | 168 | 193 | 194 | 170 |
| Loc. Mean | 178 | 91 | 216 | 208 | 178 | 185 | 203 | 212 | 184 |
| C.D. (5%) | 4.88 | 7.39 | 24.42 | 5.10 | 27.98 | 15.83 | 6.83 | 13.78 | 8.82 |
| C.V. (%) | 1.82 | 5.37 | 7.51 | 1.63 | 10.41 | 5.67 | 2.23 | 4.31 | 4.72 |
| F (Prob.) | 0.00 | 0.00 | 0.18 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| EAR HEIGHT (cm) | | | | | | | | | |
| SI No. PEDIGREE | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | HYDE KAVE | Zone Mean |
| 1 BH-4062 (RETEST) | 109 | 117 | 95 | 95 | 115 | 101 | 131 | 89 | 106 |
| 2 BISCO-111 | 95 | 101 | 96 | 84 | 98 | 97 | 141 | 83 | 99 |
| 3 KAVERI-25K60 CHECKS | 89 | 92 | 88 | 80 | 104 | 100 | 123 | 83 | 95 |
| 4 HM-8 | 88 | 86 | 91 | 69 | 78 | 95 | 112 | 79 | 87 |
| 5 HM-9 | 82 | 87 | 85 | 68 | 89 | 93 | 114 | 70 | 86 |
| 6 MALVIYA MAKKA-2 | 89 | 76 | 80 | 64 | 100 | 84 | 107 | 74 | 84 |
| Loc. Mean | 92 | 93 | 89 | 77 | 97 | 95 | 121 | 80 | 93 |
| C.D. (5%) | 4.33 | 3.62 | 13.52 | 5.09 | 19.46 | 11.67 | 23.51 | 9.91 | 6.26 |
| C.V. (%) | 3.13 | 2.58 | 10.08 | 4.39 | 13.30 | 8.17 | 12.87 | 8.26 | 6.64 |
| F (Prob.) | 0.00 | 0.00 | 0.17 | 0.00 | 0.02 | 0.07 | 0.06 | 0.01 | 0.00 |

Table No. 22 (Continued)

| GRAIN SHELLING % | | | | | | | | | | |
|----------------------------|------------------------|------|------|------|------|------|------|------|------|------|
| SI | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Zone | |
| No. PEDIGREE | | | | | | | | | Mean | |
| 1 | BH-4062 (RETEST) | 81.8 | 82.1 | 82.8 | 63.0 | 86.3 | 80.7 | 75.1 | 78.8 | |
| 2 | BISCO-111 | 84.7 | 84.3 | 74.2 | 67.0 | 84.3 | 81.0 | 81.3 | 79.5 | |
| 3 | KAVERI-25K60 CHECKS | 82.6 | 82.8 | 73.7 | 71.3 | 83.2 | 79.7 | 79.1 | 78.9 | |
| 4 | HM-8 | 83.4 | 82.0 | 73.4 | 72.0 | 84.7 | 80.2 | 77.3 | 79.0 | |
| 5 | HM-9 | 82.0 | 84.7 | 72.9 | 73.0 | 84.2 | 78.9 | 78.0 | 79.1 | |
| 6 | MALVIYA MAKKA-2 | 84.1 | 82.2 | 78.5 | 75.3 | 84.8 | 83.0 | 82.6 | 81.5 | |
| | Loc. Mean | 83.1 | 83.0 | 75.9 | 70.3 | 84.6 | 80.6 | 78.9 | 79.5 | |
| | C.D. (5%) | 1.85 | 1.28 | 1.27 | 5.70 | 3.35 | 1.23 | 0.44 | 2.86 | |
| | C.V. (%) | 1.48 | 1.02 | 1.11 | 5.39 | 2.63 | 1.02 | 0.37 | 3.30 | |
| | F (Prob.) | 0.02 | 0.00 | 0.00 | 0.00 | 0.57 | 0.00 | 0.00 | 0.40 | |
| STAND AT HARVEST ('000/ha) | | | | | | | | | | |
| SI | | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | HYDE | Zone |
| No. PEDIGREE | | | | | | | | | KAVE | Mean |
| 1 | BH-4062 (RETEST) | 59 | 58 | 59 | 62 | 61 | 58 | 67 | 62 | 61 |
| 2 | BISCO-111 | 59 | 64 | 55 | 61 | 66 | 57 | 66 | 60 | 61 |
| 3 | KAVERI-25K60 CHECKS | 57 | 49 | 48 | 61 | 39 | 57 | 66 | 52 | 54 |
| 4 | HM-8 | 50 | 50 | 49 | 61 | 47 | 60 | 66 | 55 | 55 |
| 5 | HM-9 | 57 | 56 | 51 | 59 | 57 | 56 | 67 | 61 | 58 |
| 6 | MALVIYA MAKKA-2 | 50 | 54 | 49 | 62 | 65 | 58 | 66 | 59 | 58 |
| | Loc. Mean | 55 | 55 | 52 | 61 | 56 | 58 | 66 | 58 | 58 |
| | C.D. (5%) | 5 | 5 | 6 | 3 | 14 | 4 | 1 | 6 | 4 |
| | C.V. (%) | 6 | 7 | 7 | 3 | 17 | 5 | 1 | 7 | 7 |
| | F (Prob.) | 0.00 | 0.00 | 0.01 | 0.31 | 0.00 | 0.52 | 0.45 | 0.01 | 0.00 |

TABLE No. 23

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR70Z5 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HM-8 | | | | | | |
|---------------|-------------------|-------------------------------------|---|-------|---|-------|---|------|---|---|------|------|------|------|--------------|------|
| | | UDAI | R | BANS | R | CHHI | R | MEAN | R | RAIN GODH R | UDAI | BANS | CHHI | MEAN | RAIN GODH | |
| 1 | BISCO-555 | 6341 | 4 | 4344 | 4 | 4332 | 2 | 5006 | 3 | 5580 | 2 | - | - | 9 | - | 5.1 |
| 2 | BISCO-855 | 9767 | 1 | 5296 | 2 | 4661 | 1 | 6575 | 1 | 7454 | 1 | 47.2 | 19.6 | 17.3 | 31.2 | 40.4 |
| CHECKS | | | | | | | | | | | | | | | | |
| 3 | HM-8 | 6634 | 3 | 4428 | 3 | 3973 | 4 | 5012 | 2 | 5309 | 3 | - | - | - | - | - |
| 4 | HM-9 | 6800 | 2 | 3595 | 5 | 2958 | 5 | 4451 | 5 | 4632 | 5 | 2.5 | - | - | - | - |
| 5 | MALVIYA MAKKA-2 | 5316 | 5 | 5516 | 1 | 4071 | 3 | 4968 | 4 | 4834 | 4 | - | 24.6 | 2.5 | - | - |
| | Location Mean | 6972 | | 4636 | | 3999 | | 5202 | | 5562 | | | | | | |
| | Mean Stand | 79 | | 94 | | 118 | | 97 | | 107 | | | | | | |
| | C.D. (5%) | 837 | | 212 | | 807 | | 618 | | 1543 | | | | | | |
| | C.V. (%) | 6.22 | | 2.94 | | 12.96 | | - | | 17.82 | | | | | | |
| | F (Prob) | 0 | | 0 | | 0.004 | | | | 0.004 | | | | | | |
| | Plot Size | 14.4 | | 14.4 | | 18 | | - | | 14.4 | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 8-07 | | 14-07 | | - | | 14-07 | | | | | | |
| | Harvest Date | 30-09 | | 25-10 | | 20-11 | | - | | 10-08 | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | - | | | | | | |
| | Fertilizer Applie | 90 | | 120 | | 120 | | - | | 100 | | | | | | |
| | Fertilizer Applie | 60 | | 40 | | 60 | | - | | 50 | | | | | | |
| | Fertilizer Applie | - | | - | | 40 | | - | | 50 | | | | | | |

TABLE NO. 23 (Cont..)

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

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

TABLE NO. 23 (Cont..)

| SI No. PEDIGREE | DAYS TO 75% DRY HUSK | | | | | MOISTURE % AT HARVEST | | | | |
|--------------------|----------------------|------|------|--------------|-------|-----------------------|------|-------|--------------|-------|
| | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 BISCO-555 | 85.3 | 86.3 | 88.5 | 86.7 | 81.0 | 21.3 | 16.6 | 13.8 | 17.2 | 33.4 |
| 2 BISCO-855 | 89.7 | 83.8 | 87.8 | 87.1 | 79.3 | 21.7 | 16.8 | 16.4 | 18.3 | 37.0 |
| CHECKS | | | | | | | | | | |
| 3 HM-8 | 89.3 | 85.3 | 88.3 | 87.6 | 80.0 | 23.2 | 16.0 | 12.6 | 17.3 | 36.7 |
| 4 HM-9 | 89.7 | 86.5 | 87.3 | 87.8 | 80.8 | 22.0 | 16.0 | 12.6 | 16.8 | 37.1 |
| 5 MALVIYA MAKKA-2 | 86.7 | 84.0 | 86.5 | 85.7 | 80.3 | 23.0 | 16.4 | 15.9 | 18.4 | 35.5 |
| Loc. Mean | 88.1 | 85.2 | 87.7 | 87.0 | 80.3 | 22.2 | 16.3 | 14.3 | 17.6 | 35.9 |
| C.D. (5%) | 1.58 | 1.82 | 1.27 | 2.73 | 1.57 | 1.77 | 0.29 | 0.91 | 2.15 | 3.06 |
| C.V. (%) | 0.95 | 1.39 | 0.94 | 1.67 | 1.27 | 4.24 | 1.15 | 4.12 | 6.50 | 5.54 |
| F (Prob.) | 0.00 | 0.02 | 0.03 | 0.47 | 0.19 | 0.13 | 0.00 | 0.00 | 0.40 | 0.10 |
| | | | | | | | | | | |
| SI No. PEDIGREE | PLANT HEIGHT (cm) | | | | | EAR HEIGHT (cm) | | | | |
| | UDAI | BANS | CHHI | Zone Mean | GODH | UDAI | BANS | CHHI | Zone Mean | GODH |
| 1 BISCO-555 | 209 | 194 | 204 | 202 | 183 | 93.3 | 95.7 | 107.8 | 98.9 | 93 |
| 2 BISCO-855 | 220 | 183 | 207 | 203 | 178 | 103.3 | 91.5 | 101.0 | 98.6 | 90 |
| CHECKS | | | | | | | | | | |
| 3 HM-8 | 192 | 167 | 196 | 185 | 178 | 88.3 | 91.7 | 101.5 | 93.8 | 93 |
| 4 HM-9 | 170 | 163 | 201 | 178 | 162 | 85.0 | 64.1 | 94.0 | 81.0 | 84 |
| 5 MALVIYA MAKKA-2 | 193 | 173 | 193 | 187 | 169 | 85.0 | 87.6 | 95.0 | 89.2 | 89 |
| Loc. Mean | 197 | 176 | 200 | 191 | 174 | 91.0 | 86.1 | 99.9 | 92.3 | 90 |
| C.D. (5%) | 25.12 | 5.98 | 5.93 | 17.12 | 23.47 | 20.19 | 5.53 | 10.46 | 12.14 | 14.14 |
| C.V. (%) | 6.78 | 2.20 | 1.92 | 4.76 | 8.77 | 11.78 | 4.17 | 6.80 | 6.98 | 10.22 |
| F (Prob.) | 0.02 | 0.00 | 0.00 | 0.03 | 0.35 | 0.28 | 0.00 | 0.08 | 0.04 | 0.58 |

TABLE NO. 23 (Cont..)

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

TABLE No. 24

PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT UDAIPUR, GODHRA BANSWARA, CHHINDIWARA IN AET 2nd YEAR,
TRIAL No. TR71Z5 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PARKASH | | | | |
|----------|----------------------|--|------|-------|--------------|--|------|--------------|--------------|--|------|------|--------------|--|
| | | UDAI | R | BANS | R | CHHI | R | ZN 5 MEAN | R | UDAI | BANS | CHHI | ZN 5 MEAN | |
| 1 | JH-31110 CHECKS | 5579 | 2 | 4814 | 1 | 4647 | 1 | 5013 | 1 | - | 22.8 | 14.7 | 7.3 | |
| 2 | PARKASH | 6051 | 1 | 3919 | 4 | 4050 | 4 | 4673 | 2 | - | - | - | - | |
| 3 | PRATAP MAKKA-4 | 5295 | 3 | 4041 | 2 | 4384 | 2 | 4573 | 3 | - | 3.1 | 8.2 | - | |
| 4 | PRATAP MAKKA-5 | 4898 | 4 | 3975 | 3 | 4105 | 3 | 4326 | 4 | - | 1.4 | 1.4 | - | |
| | Location Mean | 5456 | | 4187 | | 4297 | | 4647 | | | | | | |
| | Mean Stand | 103 | | 93 | | 114 | | 103 | | | | | | |
| | C.D. (5%) | 861 | | 118 | | 255 | | 411 | | | | | | |
| | C.V. (%) | 7.52 | | 2.28 | | 4.79 | | - | | | | | | |
| | F (Prob) | 0.01 | | 0 | | 0.005 | | | | | | | | |
| | Plot Size | 14.4 | | 14.4 | | 18 | | - | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 8-07 | | 14-07 | | - | | | | | | |
| | Harvest Date | 14-09 | | 23-10 | | 20-11 | | - | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | | | | | |
| | Fertilizer Applied N | 90 | | 90 | | 120 | | - | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 60 | | - | | | | | | |
| | Fertilizer Applied K | - | | - | | 40 | | - | | | | | | |
| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-4 | | | | GRAIN YIELD % SUPERIORITY OVER THE PRATAP MAKKA-5 | | | | | | | | |
| | | UDAI | BANS | CHHI | ZN 5 MEAN | UDAI | BANS | CHHI | ZN 5 MEAN | | | | | |
| 1 | JH-31110 CHECKS | 5.4 | 19.1 | 6 | 9.6 | 13.9 | 21.1 | 13.2 | 15.9 | | | | | |
| 2 | PARKASH | 14.3 | - | - | 2.2 | 23.5 | - | - | 8 | | | | | |
| 3 | PRATAP MAKKA-4 | - | - | - | - | 8.1 | 1.6 | 6.8 | 5.7 | | | | | |
| 4 | PRATAP MAKKA-5 | - | - | - | - | - | - | - | - | | | | | |

Table No. 24 (Continued)

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

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

| SI No. PEDIGREE | EAR HEIGHT (cm) | | | | GRAIN SHELLING % | | | | STAND AT HARVEST ('000/ha) | | | |
|----------------------|-----------------|------|-------|--------------|------------------|------|------|--------------|----------------------------|------|------|--------------|
| | UDAI | BANS | CHHI | Zone Mean | UDAI | BANS | CHHI | Zone Mean | UDAI | BANS | CHHI | Zone Mean |
| 1 JH-31110 CHECKS | 103 | 68 | 95 | 89 | 83.2 | 74.5 | 86.3 | 81.3 | 75 | 65 | 64 | 68 |
| 2 PARKASH | 103 | 74 | 90 | 89 | 83.7 | 69.1 | 87.7 | 80.2 | 75 | 64 | 66 | 69 |
| 3 PRATAP MAKKA-4 | 90 | 75 | 95 | 87 | 81.8 | 74.4 | 88.2 | 81.5 | 66 | 64 | 63 | 64 |
| 4 PRATAP MAKKA-5 | 98 | 85 | 94 | 92 | 82.6 | 71.9 | 91.5 | 82.0 | 69 | 65 | 61 | 65 |
| Loc. Mean | 99 | 75 | 93 | 89 | 82.8 | 72.5 | 88.4 | 81.2 | 71 | 65 | 63 | 66 |
| C.D. (5%) | 11.17 | 3.53 | 13.14 | 12.23 | 2.57 | 1.38 | 0.67 | 4.53 | 7.93 | 1.44 | 3.86 | 5.12 |
| C.V. (%) | 5.66 | 3.80 | 11.44 | 6.86 | 1.55 | 1.55 | 0.62 | 2.79 | 5.56 | 1.81 | 4.96 | 3.86 |
| F (Prob.) | 0.08 | 0.00 | 0.84 | 0.75 | 0.37 | 0.00 | 0.00 | 0.80 | 0.06 | 0.50 | 0.05 | 0.17 |

TABLE No. 25

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, UDHAMPUR(R), KANGRA IN AET 2nd YEAR, TRIAL No. TR72Z1 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-21 | | | | |
|-------|----------------------|-------------------------------------|---|-------|---|-------|---|-----------|---|-----------|---|--|------|------|-----------|-----------|
| | | ALMO | R | BAJA | R | KANG | R | ZN 1 MEAN | R | RAIN UDHA | R | ALMO | BAJA | KANG | ZN 1 MEAN | RAIN UDHA |
| 1 | FH-3356 (RETEST) | 9561 | 2 | 6928 | 1 | 7026 | 2 | 7839 | 1 | 3106 | 1 | 1.5 | 25.6 | 24.8 | 14.3 | 47.6 |
| 2 | FQH-38 CHECKS | 10080 | 1 | 6367 | 4 | 6096 | 5 | 7514 | 2 | 2116 | 4 | 7 | 15.5 | 8.3 | 9.6 | 0.5 |
| 3 | VIVEK HYBRID-21 | 9423 | 3 | 5515 | 5 | 5628 | 6 | 6855 | 5 | 2105 | 5 | - | - | - | - | - |
| 4 | VIVEK HYBRID-17 | 7812 | 6 | 4864 | 6 | 6220 | 4 | 6298 | 6 | 2064 | 6 | - | - | 10.5 | - | - |
| 5 | VIVEK QPM-9 | 8398 | 5 | 6588 | 2 | 7489 | 1 | 7492 | 3 | 2329 | 3 | - | 19.5 | 33.1 | 9.3 | 10.6 |
| 6 | VIVEK HYBRID-9 | 8588 | 4 | 6444 | 3 | 6981 | 3 | 7338 | 4 | 2516 | 2 | - | 16.8 | 24 | 7 | 19.5 |
| | Location Mean | 8977 | | 6118 | | 6573 | | 7223 | | 2373 | | | | | | |
| | Mean Stand | 89 | | 89 | | 83 | | 87 | | 80 | | | | | | |
| | C.D. (5%) | 528 | | 933 | | 422 | | 628 | | 601 | | | | | | |
| | C.V. (%) | 3.88 | | 10.06 | | 4.23 | | - | | 16.71 | | | | | | |
| | F (Prob) | 0 | | 0.006 | | 0 | | - | | 0.017 | | | | | | |
| | Plot Size | 14.4 | | 12.6 | | 12 | | - | | 18 | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | |
| | Sowing Date | 1-07 | | 29-06 | | 18-06 | | - | | 11-07 | | | | | | |
| | Harvest Date | 24-10 | | 28-10 | | 6-10 | | - | | 23-10 | | | | | | |
| | Irrigation Nos | - | | 3 | | - | | - | | - | | | | | | |
| | Fertilizer Applied N | 80 | | 120 | | 120 | | - | | 80 | | | | | | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | - | | 60 | | | | | | |
| | Fertilizer Applied K | 40 | | 40 | | 40 | | - | | 40 | | | | | | |

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

Table No. 25 (Continued)

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

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

Table No. 25 (Continued)

| SI No. PEDIGREE | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | | |
|--------------------|-----------------------|------|------|------|--------------|------|----------------------|------|-------|--------------|--------------|------|
| | ALMO | BAJA | BARA | KANG | Zone Mean | UDHA | ALMO | BAJA | BARA | KANG | Zone Mean | UDHA |
| 1 FH-3356 (RETEST) | 54.8 | 56.8 | 53.5 | 55.0 | 55.0 | 51.8 | 97.8 | 97.3 | 90.3 | 93.8 | 94.8 | 87.8 |
| 2 FQH-38 | 54.3 | 55.0 | 52.3 | 54.8 | 54.1 | 51.0 | 97.0 | 94.3 | 88.5 | 96.3 | 94.0 | 87.8 |
| CHECKS | | | | | | | | | | | | |
| 3 VIVEK HYBRID-21 | 54.0 | 55.5 | 54.0 | 58.8 | 55.6 | 50.3 | 96.0 | 95.3 | 90.5 | 96.3 | 94.5 | 87.3 |
| 4 VIVEK HYBRID-17 | 50.5 | 53.5 | 52.8 | 59.3 | 54.0 | 50.3 | 92.8 | 93.3 | 89.8 | 97.5 | 93.3 | 87.0 |
| 5 VIVEK QPM-9 | 52.5 | 53.8 | 53.8 | 60.0 | 55.0 | 50.8 | 95.0 | 94.3 | 89.8 | 98.3 | 94.3 | 86.8 |
| 6 VIVEK HYBRID-9 | 52.5 | 53.3 | 53.8 | 58.0 | 54.4 | 50.8 | 96.0 | 94.5 | 90.3 | 97.5 | 94.6 | 88.0 |
| Loc. Mean | 53.1 | 54.6 | 53.3 | 57.6 | 54.7 | 50.8 | 95.8 | 94.8 | 89.8 | 96.6 | 94.2 | 87.4 |
| C.D. (5%) | 0.81 | 2.35 | 2.10 | 1.39 | 2.50 | 1.38 | 1.15 | 1.52 | 2.88 | 1.43 | 2.28 | 1.30 |
| C.V. (%) | 1.01 | 2.85 | 2.61 | 1.60 | 3.03 | 1.81 | 0.79 | 1.07 | 2.13 | 0.98 | 1.61 | 0.99 |
| F (Prob.) | 0.00 | 0.04 | 0.47 | 0.00 | 0.73 | 0.26 | 0.00 | 0.00 | 0.72 | 0.00 | 0.79 | 0.32 |
| | MOISTURE % AT HARVEST | | | | | | PLANT HEIGHT (cm) | | | | | |
| SI No. PEDIGREE | ALMO | BAJA | BARA | KANG | Zone Mean | UDHA | ALMO | BAJA | KANG | Zone Mean | UDHA | |
| 1 FH-3356 (RETEST) | 36.9 | 21.8 | 22.3 | 26.7 | 26.9 | 27.6 | 226 | 130 | 209 | 188 | 165 | |
| 2 FQH-38 | 35.8 | 21.0 | 23.8 | 28.0 | 27.1 | 27.2 | 251 | 143 | 217 | 204 | 161 | |
| CHECKS | | | | | | | | | | | | |
| 3 VIVEK HYBRID-21 | 37.0 | 20.2 | 22.0 | 26.5 | 26.4 | 29.0 | 245 | 146 | 212 | 201 | 163 | |
| 4 VIVEK HYBRID-17 | 33.3 | 20.5 | 23.8 | 27.0 | 26.1 | 28.4 | 227 | 125 | 205 | 186 | 150 | |
| 5 VIVEK QPM-9 | 35.7 | 20.9 | 23.8 | 27.5 | 26.9 | 28.5 | 239 | 152 | 204 | 198 | 150 | |
| 6 VIVEK HYBRID-9 | 34.8 | 22.8 | 22.5 | 25.5 | 26.4 | 27.0 | 236 | 151 | 201 | 196 | 148 | |
| Loc. Mean | 35.6 | 21.2 | 23.0 | 26.9 | 26.6 | 27.9 | 237 | 141 | 208 | 196 | 156 | |
| C.D. (5%) | 1.62 | 0.83 | 2.02 | 1.04 | 1.65 | 1.15 | 7.31 | 9.01 | 15.01 | 13.42 | 19.89 | |
| C.V. (%) | 3.03 | 2.62 | 5.83 | 2.57 | 4.12 | 2.73 | 2.04 | 4.24 | 4.79 | 3.77 | 8.47 | |
| F (Prob.) | 0.00 | 0.00 | 0.23 | 0.00 | 0.77 | 0.01 | 0.00 | 0.00 | 0.26 | 0.08 | 0.30 | |

Table No. 25 (Continued)

| SI No. PEDIGREE | EAR HEIGHT (cm) | | | | | | GRAIN SHELLING % | | | | | |
|--------------------|----------------------------|------|-------|------|--------------|-------|------------------|------|------|------|--------------|------|
| | ALMO | BAJA | BARA | KANG | Zone Mean | UDHA | ALMO | BAJA | BARA | KANG | Zone Mean | UDHA |
| 1 FH-3356 (RETEST) | 109 | 51 | 51 | 94 | 76 | 54 | 86.0 | 81.2 | 77.8 | 78.5 | 80.9 | 83.9 |
| 2 FQH-38 | 116 | 56 | 50 | 94 | 79 | 70 | 87.1 | 85.0 | 77.5 | 83.0 | 83.1 | 84.0 |
| CHECKS | | | | | | | | | | | | |
| 3 VIVEK HYBRID-21 | 114 | 55 | 60 | 89 | 79 | 70 | 86.0 | 81.4 | 81.5 | 83.5 | 83.1 | 84.0 |
| 4 VIVEK HYBRID-17 | 111 | 54 | 52 | 84 | 75 | 58 | 86.9 | 81.8 | 81.3 | 83.0 | 83.2 | 84.6 |
| 5 VIVEK QPM-9 | 115 | 66 | 54 | 98 | 83 | 69 | 86.6 | 87.6 | 80.3 | 79.5 | 83.5 | 83.5 |
| 6 VIVEK HYBRID-9 | 114 | 54 | 49 | 87 | 76 | 61 | 85.9 | 84.6 | 82.5 | 80.5 | 83.4 | 83.3 |
| Loc. Mean | 113 | 56 | 53 | 91 | 78 | 64 | 86.4 | 83.6 | 80.1 | 81.3 | 82.9 | 83.9 |
| C.D. (5%) | 6.77 | 6.20 | 13.29 | 5.86 | 5.53 | 13.20 | 0.85- | | 5.18 | 1.44 | 2.95 | 0.70 |
| C.V. (%) | 3.97 | 7.34 | 16.73 | 4.28 | 4.70 | 13.79 | 0.66- | | 4.29 | 1.17 | 2.36 | 0.55 |
| F (Prob.) | 0.24 | 0.00 | 0.62 | 0.00 | 0.07 | 0.06 | 0.03- | | 0.26 | 0.00 | 0.43 | 0.02 |
| | STAND AT HARVEST ('000/ha) | | | | | | | | | | | |
| SI No. PEDIGREE | ALMO | BAJA | BARA | KANG | Zone Mean | UDHA | | | | | | |
| 1 FH-3356 (RETEST) | 64 | 68 | 35 | 71 | 60 | 44 | | | | | | |
| 2 FQH-38 | 63 | 71 | 37 | 68 | 60 | 41 | | | | | | |
| CHECKS | | | | | | | | | | | | |
| 3 VIVEK HYBRID-21 | 64 | 71 | 36 | 67 | 59 | 43 | | | | | | |
| 4 VIVEK HYBRID-17 | 64 | 73 | 35 | 70 | 60 | 46 | | | | | | |
| 5 VIVEK QPM-9 | 58 | 71 | 36 | 70 | 59 | 44 | | | | | | |
| 6 VIVEK HYBRID-9 | 58 | 69 | 41 | 68 | 59 | 49 | | | | | | |
| Loc. Mean | 62 | 70 | 37 | 69 | 59 | 44 | | | | | | |
| C.D. (5%) | 2.72 | 4.44 | 6.90 | 2.94 | 3.60 | 7.72 | | | | | | |
| C.V. (%) | 2.92 | 4.18 | 12.46 | 2.82 | 4.02 | 11.58 | | | | | | |
| F (Prob.) | 0.00 | 0.32 | 0.48 | 0.05 | 0.92 | 0.35 | | | | | | |

TABLE No. 26

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

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

TABLE No. 26 (Cont.)

| S1 No | PEDIGREE | KOLH | R | MAND | R | COIM | R | ZN 4 MEAN | R | OV'L MEAN | R | ZN 2 LUDH | R |
|----------|----------------------|-------|---|-------|---|-------|---|--------------|---|--------------|---|--------------|---|
| 1 | FQH-38 CHECKS | 7325 | 4 | 8943 | 2 | 10780 | 2 | 6140 | 2 | 6111 | 2 | 5710 | 4 |
| 2 | VIVEK QPM-9 | 7995 | 1 | 6607 | 5 | 9979 | 4 | 5322 | 5 | 5535 | 5 | 6669 | 2 |
| 3 | VIVEK HYBRID-9 | 7676 | 3 | 7435 | 4 | 10574 | 3 | 5889 | 3 | 5945 | 3 | 7941 | 1 |
| 4 | VIVEK HYBRID-21 | 7803 | 2 | 7558 | 3 | 11373 | 1 | 6200 | 1 | 6212 | 1 | 6386 | 3 |
| 5 | VIVEK HYBRID-17 | 7023 | 5 | 9034 | 1 | 9489 | 5 | 5766 | 4 | 5668 | 4 | 5681 | 5 |
| | Location Mean | 7564 | | 7915 | | 10439 | | 5864 | | 5894 | | 6477 | |
| | Mean Stand | 113 | | 94 | | 96 | | 103 | | 101 | | 101 | |
| | C.D. (5%) | 865 | | 782 | | 541 | | 580 | | 748 | | 943 | |
| | C.V. (%) | 7.34 | | 6.35 | | 3.33 | | - | | - | | 9.36 | |
| | F (Prob) | 0.129 | | 0 | | 0 | | | | | | 0.001 | |
| | Plot Size | 14.4 | | 16.8 | | 14.4 | | - | | - | | 16.38 | |
| | AGRONOMY DATA | | | | | | | | | | | | |
| | Sowing Date | 19-07 | | 24-10 | | 9-07 | | - | | - | | 24-07 | |
| | Harvest Date | 4-12 | | 12-08 | | 4-11 | | - | | - | | 27-10 | |
| | Irrigation Nos | - | | 6 | | 10 | | - | | - | | - | |
| | Fertilizer Applied N | 100 | | 150 | | 150 | | - | | - | | 80 | |
| | Fertilizer Applied P | 50 | | 75 | | 75 | | - | | - | | 40 | |
| | Fertilizer Applied K | 30 | | 40 | | 75 | | - | | - | | - | |

TABLE No. 26 (Cont.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9 | | | | | | | | | | | ZN 4 MEAN | OV'L MEAN | ZN 2 LUDH | |
|-------|-----------------|--|------|------|------|-----------|------|------|------|------|------|------|-----------|-----------|-----------|------|
| | | DELH | KARN | PANT | KANP | ZN 2 MEAN | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | | | | COIM |
| 1 | FQH-38 CHECKS | - | 15.4 | 8.7 | - | 2.6 | 20.3 | 6.7 | 34.4 | 52.6 | - | 35.4 | 8 | 15.4 | 10.4 | - |
| 2 | VIVEK QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | VIVEK HYBRID-9 | 20.8 | 5.7 | - | - | 2.3 | 20.4 | 5.6 | 84.3 | - | - | 12.5 | 6 | 10.7 | 7.4 | 19.1 |
| 4 | VIVEK HYBRID-21 | 11.6 | 3.4 | 5.2 | 4.3 | 5.5 | 19.9 | 17.2 | 81.4 | 25.1 | - | 14.4 | 14 | 16.5 | 12.2 | - |
| 5 | VIVEK HYBRID-17 | - | - | - | - | - | 11.9 | 5.3 | 58.3 | 5.2 | - | 36.7 | - | 8.3 | 2.4 | - |

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-9 | | | | | | | | | | | ZN 4 MEAN | OV'L MEAN | ZN 2 LUDH | |
|-------|-----------------|---|------|------|------|-----------|------|------|------|------|------|------|-----------|-----------|-----------|------|
| | | DELH | KARN | PANT | KANP | ZN 2 MEAN | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | | | | COIM |
| 1 | FQH-38 CHECKS | - | 9.1 | 14.4 | - | 0.3 | - | 1.1 | - | 55.7 | - | 20.3 | 1.9 | 4.3 | 2.8 | - |
| 2 | VIVEK QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | VIVEK HYBRID-9 | - | - | 5.2 | 1 | - | - | - | - | 2.1 | 4.2 | - | - | - | - | - |
| 4 | VIVEK HYBRID-21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | VIVEK HYBRID-17 | - | - | 10.7 | 5.4 | 3.1 | - | 11 | - | 27.7 | 1.7 | 1.7 | 7.6 | 5.3 | 4.5 | - |

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-21 | | | | | | | | | | | ZN 4 MEAN | OV'L MEAN | ZN 2 LUDH | |
|-------|-----------------|--|------|------|------|-----------|------|------|------|------|------|------|-----------|-----------|-----------|------|
| | | DELH | KARN | PANT | KANP | ZN 2 MEAN | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | | | | COIM |
| 1 | FQH-38 CHECKS | - | 11.6 | 3.3 | - | - | 0.4 | - | - | 22 | - | 18.3 | - | - | - | - |
| 2 | VIVEK QPM-9 | - | - | - | - | - | - | - | - | - | 2.5 | - | - | - | - | 4.4 |
| 3 | VIVEK HYBRID-9 | 8.2 | 2.3 | - | - | - | 0.4 | - | 1.6 | - | - | - | - | - | - | 24.4 |
| 4 | VIVEK HYBRID-21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | VIVEK HYBRID-17 | - | - | - | - | - | - | - | - | - | - | 19.5 | - | - | - | - |

TABLE No. 26 (Cont.)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-17 | | | | | | | | | | | ZN 4 MEAN | OV'L MEAN | ZN 2 LUDH | |
|----------|------------------|--|------|------|-------|--------------|------|------|------|------|------|------|--------------|--------------|--------------|------|
| | | DELH | KARN | PANT | KANP | ZN 2 MEAN | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | | | | COIM |
| 1 | FQH-38 CHECKS | 0.9 | 30.9 | 9.3 | 1.1 | 10.3 | 7.5 | 1.3 | - | 45 | 4.3 | - | 13.6 | 6.5 | 7.8 | 0.5 |
| 2 | VIVEK QPM-9 | 12 | 13.4 | 0.5 | 9.9 | 7.5 | - | - | - | - | 13.8 | - | 5.2 | - | - | 17.4 |
| 3 | VIVEK HYBRID-9 | 35.3 | 19.9 | - | 8.8 | 10 | 7.5 | 0.3 | 16.5 | - | 9.3 | - | 11.4 | 2.1 | 4.9 | 39.8 |
| 4 | VIVEK HYBRID-21 | 25 | 17.2 | 5.8 | 14.7 | 13.4 | 7.1 | 11.4 | 14.6 | 18.8 | 11.1 | - | 19.9 | 7.5 | 9.6 | 12.4 |
| 5 | VIVEK HYBRID-17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | Zone Mean | OV'L Mean | LUDH | |
| | | DELH | KARN | PANT | KANP | Zone Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | | | | COIM |
| 1 | FQH-38 CHECKS | 42.7 | 40.5 | 47.5 | 63.7 | 48.6 | 48.5 | 49.0 | 44.3 | 43.5 | 48.0 | 46.5 | 44.0 | 46.3 | 47.1 | 44.3 |
| 2 | VIVEK QPM-9 | 45.3 | 39.3 | 48.3 | 51.0 | 46.0 | 47.8 | 48.5 | 45.0 | 43.0 | 47.8 | 46.0 | 44.0 | 46.0 | 46.0 | 45.5 |
| 3 | VIVEK HYBRID-9 | 44.0 | 39.8 | 46.0 | 53.3 | 45.8 | 47.8 | 48.3 | 45.0 | 44.8 | 47.3 | 46.5 | 43.8 | 46.2 | 46.0 | 46.5 |
| 4 | VIVEK HYBRID-21 | 43.3 | 39.8 | 46.0 | 48.3 | 44.4 | 48.3 | 48.5 | 46.8 | 43.8 | 48.3 | 46.8 | 44.0 | 46.6 | 45.8 | 44.5 |
| 5 | VIVEK HYBRID-17 | 44.0 | 38.5 | 46.0 | 65.7 | 48.5 | 48.0 | 48.5 | 44.3 | 43.0 | 47.3 | 45.5 | 43.3 | 45.7 | 46.7 | 44.5 |
| | Loc. Mean | 43.9 | 39.6 | 46.8 | 56.4 | 46.6 | 48.1 | 48.6 | 45.1 | 43.6 | 47.7 | 46.3 | 43.8 | 46.1 | 46.3 | 45.1 |
| | C.D. (5%) | 2.85 | 2.31 | 1.69 | 27.45 | 6.25 | 1.43 | 1.05 | 2.15 | 1.06 | 1.19 | 1.26 | 0.67 | 0.55 | 2.15 | 0.87 |
| | C.V. (%) | 3.44 | 3.79 | 2.34 | 25.85 | 8.70 | 1.93 | 1.41 | 3.09 | 1.58 | 1.62 | 1.77 | 1.00 | 1.08 | 5.38 | 1.25 |
| | F (Prob.) | 0.35 | 0.46 | 0.03 | 0.53 | 0.53 | 0.74 | 0.64 | 0.14 | 0.02 | 0.31 | 0.26 | 0.13 | 0.03 | 0.70 | 0.00 |

TABLE No. 26 (Cont.)

| | | DAYS TO 50% SILKING | | | | | | | | | | | | | | |
|-------|-----------------|----------------------|------|------|-------|-----------|------|------|------|------|------|------|------|-----------|-----------|------|
| SI No | PEDIGREE | DELH | KARN | PANT | KANP | Zone Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | OV'L Mean | LUDH |
| 1 | FQH-38 CHECKS | 47.3 | 42.8 | 49.5 | 55.7 | 48.8 | 49.8 | 50.0 | 45.8 | 45.5 | 49.0 | 48.5 | 46.0 | 47.8 | 48.2 | 45.3 |
| 2 | VIVEK QPM-9 | 49.0 | 41.8 | 50.3 | 56.0 | 49.3 | 49.0 | 49.3 | 46.5 | 45.0 | 48.8 | 48.0 | 45.8 | 47.5 | 48.1 | 46.5 |
| 3 | VIVEK HYBRID-9 | 47.0 | 42.0 | 48.0 | 56.3 | 48.3 | 48.5 | 49.3 | 47.3 | 46.3 | 48.3 | 48.5 | 45.5 | 47.6 | 47.9 | 47.5 |
| 4 | VIVEK HYBRID-21 | 46.3 | 41.8 | 48.8 | 54.0 | 47.7 | 49.5 | 49.8 | 49.0 | 45.3 | 49.3 | 49.0 | 45.8 | 48.2 | 48.0 | 45.5 |
| 5 | VIVEK HYBRID-17 | 47.7 | 40.5 | 48.0 | 38.8 | 43.7 | 49.0 | 49.3 | 46.5 | 45.0 | 48.3 | 47.8 | 45.3 | 47.3 | 46.0 | 45.5 |
| | Loc. Mean | 47.5 | 41.8 | 48.9 | 52.2 | 47.6 | 49.2 | 49.5 | 47.0 | 45.4 | 48.7 | 48.4 | 45.7 | 47.7 | 47.6 | 46.1 |
| | C.D. (5%) | 2.51 | 2.26 | 1.84 | 23.85 | 5.59 | 1.27 | 0.97 | 2.45 | 1.27 | 1.19 | 1.21 | 0.67 | 0.61 | 1.97 | 0.87 |
| | C.V. (%) | 2.81 | 3.52 | 2.44 | 24.28 | 7.63 | 1.68 | 1.28 | 3.38 | 1.81 | 1.59 | 1.62 | 0.96 | 1.15 | 4.81 | 1.22 |
| | F (Prob.) | 0.25 | 0.35 | 0.08 | 0.44 | 0.27 | 0.30 | 0.34 | 0.11 | 0.24 | 0.31 | 0.25 | 0.22 | 0.04 | 0.15 | 0.00 |
| | | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | |
| SI No | PEDIGREE | DELH | KARN | PANT | KANP | Zone Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | OV'L Mean | LUDH |
| 1 | FQH-38 CHECKS | 71.7 | 72.5 | 99.0 | 77.7 | 80.2 | 79.3 | 82.3 | 82.0 | 69.5 | 81.0 | 91.8 | 85.8 | 81.6 | 81.1 | 75.8 |
| 2 | VIVEK QPM-9 | 71.0 | 71.0 | 98.3 | 77.7 | 79.5 | 82.0 | 83.3 | 82.8 | 68.8 | 80.8 | 92.0 | 85.8 | 82.2 | 81.2 | 76.8 |
| 3 | VIVEK HYBRID-9 | 79.3 | 72.5 | 98.3 | 79.0 | 82.3 | 84.3 | 85.5 | 81.5 | 69.0 | 80.5 | 93.3 | 85.5 | 82.8 | 82.6 | 77.8 |
| 4 | VIVEK HYBRID-21 | 71.0 | 72.5 | 98.8 | 75.3 | 79.4 | 81.8 | 81.8 | 83.8 | 69.3 | 81.5 | 93.5 | 85.8 | 82.5 | 81.3 | 76.3 |
| 5 | VIVEK HYBRID-17 | 74.3 | 72.8 | 97.8 | 77.0 | 80.5 | 81.0 | 82.5 | 81.5 | 69.3 | 80.3 | 93.3 | 85.3 | 81.9 | 81.3 | 76.0 |
| | Loc. Mean | 73.5 | 72.3 | 98.4 | 77.3 | 80.4 | 81.7 | 83.1 | 82.3 | 69.2 | 80.8 | 92.8 | 85.6 | 82.2 | 81.5 | 76.5 |
| | C.D. (5%) | 4.66 | 3.17 | 2.34 | 1.31 | 2.78 | 2.54 | 1.83 | 1.57 | 1.15 | 1.45 | 1.88 | 0.84 | 1.09 | 1.17 | 1.16 |
| | C.V. (%) | 3.37 | 2.85 | 1.55 | 0.90 | 2.25 | 2.02 | 1.43 | 1.24 | 1.08 | 1.17 | 1.32 | 0.64 | 1.21 | 1.67 | 0.98 |
| | F (Prob.) | 0.01 | 0.76 | 0.80 | 0.00 | 0.22 | 0.01 | 0.01 | 0.04 | 0.68 | 0.43 | 0.20 | 0.63 | 0.24 | 0.08 | 0.02 |

TABLE No. 26 (Cont.)

| MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|-------|-------|-------|------|-----------|------|-------|-------|------|-------|-------|------|-----------|-----------|-------|
| SI No | PEDIGREE | DELH | KARN | PANT | KANP | Zone Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Zone Mean | OV'L Mean | LUDH |
| 1 | FQH-38 CHECKS | 26.4 | 25.3 | 33.3 | 15.0 | 25.0 | 14.9 | 22.0 | 28.3 | 15.5 | 13.3 | 14.2 | 15.4 | 17.6 | 20.3 | 26.3 |
| 2 | VIVEK QPM-9 | 29.1 | 25.2 | 33.6 | 15.0 | 25.7 | 15.1 | 15.3 | 28.5 | 14.0 | 13.1 | 14.9 | 14.7 | 16.5 | 19.9 | 27.8 |
| 3 | VIVEK HYBRID-9 | 34.5 | 22.0 | 33.8 | 15.0 | 26.3 | 15.3 | 16.2 | 27.1 | 12.8 | 13.3 | 15.6 | 15.5 | 16.5 | 20.1 | 28.0 |
| 4 | VIVEK HYBRID-21 | 23.8 | 25.0 | 31.7 | 15.0 | 23.9 | 14.9 | 16.8 | 24.5 | 12.3 | 13.1 | 15.7 | 15.9 | 16.2 | 19.0 | 29.6 |
| 5 | VIVEK HYBRID-17 | 27.0 | 25.0 | 28.5 | 15.0 | 23.9 | 15.5 | 16.3 | 23.7 | 13.3 | 13.4 | 16.7 | 15.2 | 16.3 | 19.0 | 26.8 |
| | Loc. Mean | 28.2 | 24.5 | 32.2 | 15.0 | 24.9 | 15.2 | 17.3 | 26.4 | 13.6 | 13.2 | 15.4 | 15.3 | 16.6 | 19.6 | 27.7 |
| | C.D. (5%) | 6.93 | 0.63 | 4.59- | | 3.81 | 0.49 | 3.18 | 2.49 | 1.15 | 0.47 | 1.53 | 0.36 | 1.58 | 1.58 | 0.32 |
| | C.V. (%) | 13.06 | 1.68 | 9.26- | | 9.90 | 2.10 | 11.90 | 6.12 | 5.51 | 2.33 | 6.45 | 1.51 | 8.64 | 9.36 | 0.75 |
| | F (Prob.) | 0.06 | 0.00 | 0.12- | | 0.55 | 0.05 | 0.00 | 0.00 | 0.00 | 0.66 | 0.04 | 0.00 | 0.34 | 0.31 | 0.00 |
| PLANT HEIGHT (cm) | | | | | | | | | | | | | | | | |
| SI No | PEDIGREE | DELH | KARN | PANT | KANP | ZN 2 Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | ZN 4 Mean | OV'L Mean | LUDH |
| 1 | FQH-38 CHECKS | 143 | 169 | 223 | 181 | 179 | 183 | 173 | 210 | 182 | 210 | 179 | 193 | 190 | 186 | 161 |
| 2 | VIVEK QPM-9 | 148 | 171 | 218 | 181 | 179 | 184 | 173 | 221 | 187 | 198 | 178 | 214 | 193 | 188 | 175 |
| 3 | VIVEK HYBRID-9 | 147 | 161 | 215 | 190 | 178 | 185 | 177 | 209 | 184 | 189 | 175 | 194 | 187 | 184 | 165 |
| 4 | VIVEK HYBRID-21 | 133 | 165 | 213 | 172 | 171 | 186 | 176 | 210 | 174 | 186 | 174 | 200 | 186 | 181 | 159 |
| 5 | VIVEK HYBRID-17 | 134 | 165 | 203 | 176 | 169 | 182 | 175 | 194 | 174 | 173 | 170 | 192 | 180 | 176 | 161 |
| | Loc. Mean | 141 | 166 | 214 | 180 | 175 | 184 | 175 | 209 | 180 | 191 | 175 | 199 | 187 | 183 | 164 |
| | C.D. (5%) | 26.10 | 10.73 | 15.66 | 1.68 | 7.42 | 2.58 | 5.49 | 15.86 | 6.40 | 14.60 | 14.60 | 4.95 | 7.03 | 4.97 | 15.68 |
| | C.V. (%) | 9.84 | 4.19 | 4.75 | 0.50 | 2.75 | 0.91 | 2.04 | 4.93 | 2.31 | 4.96 | 5.41 | 1.62 | 3.40 | 3.15 | 6.20 |
| | F (Prob.) | 0.57 | 0.38 | 0.14 | 0.00 | 0.03 | 0.04 | 0.53 | 0.05 | 0.00 | 0.00 | 0.71 | 0.00 | 0.01 | 0.00 | 0.24 |

TABLE No. 26 (Cont.)

| SI | EAR HEIGHT (cm) | | | | ZN 2 | | | | ZN 4 | | | | OV'L | | | |
|----|----------------------------|-------|-------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| No | PEDIGREE | DELH | KARN | PANT | KANP | Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Mean | Mean | LUDH |
| 1 | FQH-38 CHECKS | 56 | 68 | 64 | 60 | 62 | 83 | 78 | 54 | 68 | 88 | 88 | 94 | 79 | 73 | 61 |
| 2 | VIVEK QPM-9 | 68 | 72 | 79 | 72 | 73 | 88 | 81 | 60 | 85 | 93 | 87 | 105 | 85 | 81 | 83 |
| 3 | VIVEK HYBRID-9 | 57 | 65 | 78 | 76 | 69 | 87 | 81 | 69 | 82 | 98 | 88 | 120 | 89 | 82 | 66 |
| 4 | VIVEK HYBRID-21 | 57 | 65 | 66 | 79 | 67 | 84 | 82 | 62 | 82 | 88 | 84 | 93 | 82 | 76 | 65 |
| 5 | VIVEK HYBRID-17 | 60 | 70 | 76 | 60 | 66 | 86 | 81 | 70 | 79 | 75 | 87 | 96 | 82 | 76 | 71 |
| | Loc. Mean | 60 | 68 | 73 | 69 | 67 | 86 | 81 | 63 | 79 | 88 | 87 | 102 | 83 | 78 | 69 |
| | C.D. (5%) | 5.73 | 12.55 | 8.50 | 1.42 | 8.91 | 4.53 | 5.03 | 7.82 | 5.33 | 17.90 | 9.88 | 35.55 | 6.20 | 4.79 | 12.6 |
| | C.V. (%) | 2.83 | 12.03 | 7.61 | 1.08 | 8.58 | 3.44 | 4.06 | 8.07 | 4.38 | 13.20 | 7.40 | 22.69 | 6.73 | 7.16 | 11.8 |
| | F (Prob.) | 0.81 | 0.70 | 0.01 | 0.00 | 0.19 | 0.21 | 0.39 | 0.00 | 0.00 | 0.15 | 0.85 | 0.45 | 0.02 | 0.00 | 0.03 |
| SI | GRAIN SHELLING % | | | | Zone | | | | ZN 4 | | | | Zone | | OV'L | |
| No | PEDIGREE | DELH | KARN | PANT | KANP | Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Mean | Mean | LUDH |
| 1 | FQH-38 CHECKS | 83.6 | 86.8 | 83.3 | 73.5 | 81.8 | 81.4 | 81.4 | 72.8 | 80.5 | 87.2 | 87.0 | 86.5 | 82.4 | 82.2 | 87.9 |
| 2 | VIVEK QPM-9 | 82.6 | 83.1 | 86.1 | 75.0 | 81.7 | 80.6 | 81.3 | 71.8 | 77.8 | 86.6 | 77.5 | 83.0 | 79.8 | 80.5 | 87.7 |
| 3 | VIVEK HYBRID-9 | 81.9 | 83.9 | 86.1 | 72.5 | 81.1 | 81.2 | 80.8 | 75.9 | 80.0 | 85.4 | 84.3 | 83.9 | 81.6 | 81.5 | 85.4 |
| 4 | VIVEK HYBRID-21 | 84.0 | 88.7 | 86.7 | 72.0 | 82.8 | 81.7 | 81.6 | 77.7 | 81.8 | 86.3 | 83.1 | 86.6 | 82.7 | 82.7 | 88.1 |
| 5 | VIVEK HYBRID-17 | 83.7 | 83.4 | 85.9 | 72.0 | 81.2 | 80.6 | 80.6 | 73.7 | 69.3 | 86.2 | 86.2 | 83.6 | 80.0 | 80.5 | 87.6 |
| | Loc. Mean | 83.1 | 85.2 | 85.6 | 73.0 | 81.7 | 81.1 | 81.2 | 74.4 | 77.9 | 86.3 | 83.6 | 84.7 | 81.3 | 81.5 | 87.3 |
| | C.D. (5%) | 2.02 | 0.52 | - | 1.15 | 2.55 | 1.26 | 1.22 | 2.15 | 3.00 | 1.53 | 0.95 | 0.88 | 2.71 | 1.88 | 0.48 |
| | C.V. (%) | 1.29 | 0.39 | - | 0.84 | 2.03 | 1.01 | 0.98 | 1.88 | 2.50 | 1.15 | 0.73 | 0.68 | 3.02 | 2.68 | 0.36 |
| | F (Prob.) | 0.19 | 0.00 | 0.00 | 0.00 | 0.63 | 0.30 | 0.42 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.11 | 0.07 | 0.00 |
| SI | STAND AT HARVEST ('000/ha) | | | | ZN 2 | | | | ZN 4 | | | | OV'L | | | |
| No | PEDIGREE | DELH | KARN | PANT | KANP | Mean | ARB1 | ARB2 | HYDE | KARI | KOLH | MAND | COIM | Mean | Mean | LUDH |
| 1 | FQH-38 CHECKS | 59 | 53 | 59 | 76 | 62 | 60 | 56 | 52 | 62 | 80 | 55 | 66 | 62 | 62 | 63 |
| 2 | VIVEK QPM-9 | 50 | 50 | 58 | 77 | 59 | 52 | 54 | 56 | 62 | 83 | 56 | 66 | 61 | 60 | 63 |
| 3 | VIVEK HYBRID-9 | 49 | 50 | 57 | 75 | 58 | 55 | 57 | 60 | 63 | 77 | 56 | 67 | 62 | 60 | 60 |
| 4 | VIVEK HYBRID-21 | 52 | 49 | 58 | 75 | 59 | 56 | 61 | 55 | 62 | 72 | 56 | 66 | 61 | 60 | 60 |
| 5 | VIVEK HYBRID-17 | 50 | 52 | 55 | 75 | 58 | 56 | 59 | 54 | 63 | 79 | 56 | 66 | 62 | 61 | 64 |
| | Loc. Mean | 52 | 51 | 58 | 76 | 59 | 56 | 57 | 55 | 63 | 78 | 56 | 66 | 62 | 61 | 62 |
| | C.D. (5%) | 11.99 | 2.51 | 5.23 | 0.98 | 3.09 | 6.90 | 7.07 | 4.96 | 1.34 | 13.54 | 2.42 | 0.59 | 2.95 | 2.1 | 5.9 |
| | C.V. (%) | 12.19 | 3.20 | 5.90 | 0.69 | 3.40 | 8.03 | 8.00 | 5.82 | 1.39 | 11.22 | 2.82 | 0.57 | 4.34 | 4.1 | 6.2 |
| | F (Prob.) | 0.36 | 0.09 | 0.69 | 0.00 | 0.11 | 0.16 | 0.28 | 0.06 | 0.34 | 0.49 | 0.85 | 0.63 | 0.99 | 0.6 | 0.5 |

TABLE No. 27

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR, TRIAL No. TR72Z-3, 5 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | ZN 3 | |
|----------|----------------------------|-------------------------------------|---|-------|---|-------|---|------|---|-------|---|-------|---|------|---|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R |
| 1 | FH-3358 (RETEST) CHECKS | 5635 | 1 | 7360 | 1 | 4440 | 1 | 5918 | 1 | 6873 | 3 | 5896 | 1 | 6020 | 1 |
| 2 | VIVEK HYBRID-17 | 4791 | 2 | 6024 | 4 | 3285 | 4 | 5020 | 3 | 6269 | 5 | 4446 | 5 | 4973 | 5 |
| 3 | VIVEK QPM-9 | 4522 | 3 | 7041 | 2 | 3441 | 3 | 4741 | 4 | 6763 | 4 | 5365 | 3 | 5312 | 2 |
| 4 | VIVEK HYBRID-9 | 3669 | 5 | 6740 | 3 | 3234 | 5 | 4089 | 5 | 6879 | 2 | 5506 | 2 | 5020 | 4 |
| 5 | VIVEK HYBRID-21 | 3940 | 4 | 5855 | 5 | 3504 | 2 | 5197 | 2 | 7811 | 1 | 5192 | 4 | 5250 | 3 |
| | Location Mean | 4511 | | 6604 | | 3581 | | 4993 | | 6919 | | 5281 | | 5315 | |
| | Mean Stand | 97 | | 89 | | 82 | | 108 | | 99 | | 102 | | 96 | |
| | C.D. (5%) | 491 | | 603 | | 159 | | 355 | | 990 | | 1104 | | 617 | |
| | C.V. (%) | 7 | | 5.87 | | 2.86 | | 4.56 | | 9.2 | | 13.43 | | - | |
| | F (Prob) | 0 | | 0.012 | | 0 | | 0 | | 0.09 | | 0.017 | | - | |
| | Plot Size | 14.4 | | 12 | | 14.4 | | 14.4 | | 16.8 | | 14.4 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 4-07 | | 8-07 | | 27-07 | | 2-07 | | 5-07 | | 17-07 | | - | |
| | Harvest Date | 12-10 | | - | | 11-11 | | 5-10 | | 10-10 | | - | | - | |
| | Irrigation Nos | - | | - | | - | | 1 | | - | | - | | - | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 100 | | - | | 80 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 50 | | - | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | - | | 30 | | - | |

Table No. 27 (Continued)

| S1 No | PEDIGREE | UDAI | R | BANS | R | CHHI | R | ZN 5 MEAN | R | OV'L MEAN | R | RAIN GODH | R |
|----------|----------------------------|-------|---|-------|---|-------|---|--------------|---|--------------|---|--------------|---|
| 1 | FH-3358 (RETEST) CHECKS | 6889 | 2 | 4453 | 2 | 5861 | 1 | 5734 | 1 | 5925 | 1 | 6236 | 1 |
| 2 | VIVEK HYBRID-17 | 5611 | 4 | 2951 | 5 | 3652 | 5 | 4072 | 5 | 4672 | 5 | 5256 | 3 |
| 3 | VIVEK QPM-9 | 5545 | 5 | 3777 | 4 | 4614 | 3 | 4645 | 4 | 5090 | 4 | 5208 | 4 |
| 4 | VIVEK HYBRID-9 | 6791 | 3 | 4496 | 1 | 4626 | 2 | 5304 | 2 | 5114 | 3 | 5442 | 2 |
| 5 | VIVEK HYBRID-21 | 7161 | 1 | 3977 | 3 | 4244 | 4 | 5128 | 3 | 5209 | 2 | 5121 | 5 |
| | Location Mean | 6400 | | 3931 | | 4599 | | 4977 | | 5202 | | 5453 | |
| | Mean Stand | 99 | | 93 | | 121 | | 104 | | 99 | | 109 | |
| | C.D. (5%) | 524 | | 330 | | 475 | | 443 | | 559 | | 1774 | |
| | C.V. (%) | 4.24 | | 5.4 | | 6.64 | | - | | - | | 20.91 | |
| | F (Prob) | 0.007 | | 0 | | 0 | | | | | | 0.624 | |
| | Plot Size | 14.4 | | 14.4 | | 18 | | - | | - | | 14.4 | |
| | AGRONOMY DATA | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 8-07 | | 14-07 | | - | | - | | 24-07 | |
| | Harvest Date | 15-09 | | 23-10 | | 20-11 | | - | | - | | 26-10 | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | - | | - | |
| | Fertilizer Applied N | 90 | | 90 | | 120 | | - | | - | | 100 | |
| | Fertilizer Applied P | 60 | | 40 | | 60 | | - | | - | | 50 | |
| | Fertilizer Applied K | - | | - | | 40 | | - | | - | | 50 | |

Table No. 27 (Continued)

| | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-17 | | | | | | | | | | | | |
|----|----------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | ZN 3 | | | | | | | | | | ZN 5 | OV'L | ZN 5 |
| No | PEDIGREE | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | GODH |
| 1 | FH-3358 (RETEST) CHECKS | 17.6 | 22.2 | 35.2 | 17.9 | 9.6 | 32.6 | 21.1 | 22.8 | 50.9 | 60.5 | 40.8 | 26.8 | 18.7 |
| 2 | VIVEK HYBRID-17 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | VIVEK QPM-9 | - | 16.9 | 4.7 | - | 7.9 | 20.7 | 6.8 | - | 28 | 26.3 | 14.1 | 8.9 | - |
| 4 | VIVEK HYBRID-9 | - | 11.9 | - | - | 9.7 | 23.8 | 0.9 | 21 | 52.3 | 26.7 | 30.3 | 9.5 | 3.5 |
| 5 | VIVEK HYBRID-21 | - | - | 6.7 | 3.5 | 24.6 | 16.8 | 5.6 | 27.6 | 34.7 | 16.2 | 25.9 | 11.5 | - |
| | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9 | | | | | | | | | | | | |
| S1 | | ZN 3 | | | | | | | | | | ZN 5 | OV'L | ZN 5 |
| No | PEDIGREE | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | GODH |
| 1 | FH-3358 (RETEST) CHECKS | 24.6 | 4.5 | 29 | 24.8 | 1.6 | 9.9 | 13.3 | 24.2 | 17.9 | 27 | 23.4 | 16.4 | 19.7 |
| 2 | VIVEK HYBRID-17 | 5.9 | - | - | 5.9 | - | - | - | 1.2 | - | - | - | - | 0.9 |
| 3 | VIVEK QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | VIVEK HYBRID-9 | - | - | - | - | 1.7 | 2.6 | - | 22.5 | 19 | 0.3 | 14.2 | 0.5 | 4.5 |
| 5 | VIVEK HYBRID-21 | - | - | 1.8 | 9.6 | 15.5 | - | - | 29.1 | 5.3 | - | 10.4 | 2.3 | - |
| | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-9 | | | | | | | | | | | | |
| S1 | | ZN 3 | | | | | | | | | | ZN 5 | OV'L | ZN 5 |
| No | PEDIGREE | BAHR | DHOL | JASH | VARA | RANC | AMBI | MEAN | UDAI | BANS | CHHI | MEAN | MEAN | GODH |
| 1 | FH-3358 (RETEST) CHECKS | 53.6 | 9.2 | 37.3 | 44.7 | - | 7.1 | 19.9 | 1.4 | - | 26.7 | 8.1 | 15.8 | 14.6 |
| 2 | VIVEK HYBRID-17 | 30.6 | - | 1.6 | 22.8 | - | - | - | - | - | - | - | - | - |
| 3 | VIVEK QPM-9 | 23.2 | 4.5 | 6.4 | 15.9 | - | - | 5.8 | - | - | - | - | - | - |
| 4 | VIVEK HYBRID-9 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | VIVEK HYBRID-21 | 7.4 | - | 8.3 | 27.1 | 13.5 | - | 4.6 | 5.4 | - | - | - | 1.8 | - |

Table No. 27 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-21 | | | | | | | | | | | OV'L MEAN | ZN 5 GODH |
|-----------|----------------------------|--|------|------|------|------|------|--------------|------|------|------|--------------|--------------|--------------|
| | | BAHR | DHOL | JASH | VARA | RANC | AMBI | ZN 3 MEAN | UDAI | BANS | CHHI | ZN 5 MEAN | | |
| 1 | FH-3358 (RETEST) CHECKS | 43 | 25.7 | 26.7 | 13.9 | - | 13.6 | 14.7 | - | 12 | 38.1 | 11.8 | 13.7 | 21.8 |
| 2 | VIVEK HYBRID-17 | 21.6 | 2.9 | - | - | - | - | - | - | - | - | - | - | 2.6 |
| 3 | VIVEK QPM-9 | 14.8 | 20.3 | - | - | - | 3.3 | 1.2 | - | - | 8.7 | - | - | 1.7 |
| 4 | VIVEK HYBRID-9 | - | 15.1 | - | - | - | 6 | - | - | 13.1 | 9 | 3.4 | - | 6.3 |
| 5 | VIVEK HYBRID-21 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SI No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | OV'L Mean | GODH |
| | | BAHR | DHOL | JASH | VARA | RANC | AMBI | Zone Mean | UDAI | BANS | CHHI | Zone Mean | | |
| 1 | FH-3358 (RETEST) CHECKS | 49.3 | 47.5 | 42.8 | 44.5 | 42.5 | 44.5 | 45.2 | 47.3 | 42.5 | 47.0 | 45.6 | 45.3 | 43.8 |
| 2 | VIVEK HYBRID-17 | 43.3 | 46.5 | 40.0 | 40.8 | 40.3 | 43.0 | 42.3 | 42.7 | 41.3 | 46.3 | 43.4 | 42.7 | 42.0 |
| 3 | VIVEK QPM-9 | 47.5 | 46.5 | 41.0 | 42.0 | 40.0 | 42.3 | 43.2 | 43.3 | 39.8 | 46.3 | 43.1 | 43.2 | 42.8 |
| 4 | VIVEK HYBRID-9 | 50.0 | 48.0 | 40.8 | 42.5 | 41.3 | 43.5 | 44.3 | 44.3 | 40.0 | 47.0 | 43.8 | 44.1 | 42.8 |
| 5 | VIVEK HYBRID-21 | 45.8 | 47.5 | 41.5 | 43.0 | 41.3 | 46.3 | 44.2 | 44.3 | 38.8 | 47.3 | 43.4 | 44.0 | 41.8 |
| | Loc. Mean | 47.2 | 47.2 | 41.2 | 42.6 | 41.1 | 43.9 | 43.8 | 44.4 | 40.5 | 46.8 | 43.9 | 43.9 | 42.6 |
| | C.D. (5%) | 0.78 | 1.93 | 1.02 | 0.91 | 1.50 | 1.10 | 1.40 | 1.94 | 1.53 | 0.58 | 2.10 | 1.10 | 0.99 |
| | C.V. (%) | 1.08 | 2.65 | 1.61 | 1.39 | 2.36 | 1.62 | 2.66 | 2.33 | 2.46 | 0.81 | 2.54 | 2.61 | 1.52 |
| | F (Prob.) | 0.00 | 0.38 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.13 | 0.00 | 0.01 |

Table No. 27 (Continued)

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

Table No. 27 (Continued)

| | | MOISTURE % AT HARVEST | | | | | | | | | | | | |
|--------------|----------------------------|-----------------------|-------|--------|------|-------|------|-------|-------|------|------|-------|-------|-------|
| SI | | | | | | | Zone | | | | Zone | OV'L | | |
| No. PEDIGREE | | BAHR | DHOL | JASH | VARA | RANC | Mean | UDAI | BANS | CHHI | Mean | Mean | GODH | |
| 1 | FH-3358 (RETEST) CHECKS | 22.2 | 16.2 | 16.2 | 24.0 | 21.5 | 20.0 | 21.6 | 15.9 | 12.3 | 16.6 | 18.7 | 20.7 | |
| 2 | VIVEK HYBRID-17 | 19.6 | 16.0 | 15.9 | 22.1 | 21.8 | 19.1 | 23.6 | 15.4 | 12.0 | 17.0 | 18.3 | 25.2 | |
| 3 | VIVEK QPM-9 | 21.0 | 15.7 | 15.9 | 23.8 | 21.7 | 19.6 | 20.9 | 15.5 | 11.3 | 15.9 | 18.2 | 24.5 | |
| 4 | VIVEK HYBRID-9 | 23.9 | 17.4 | 15.9 | 23.9 | 22.6 | 20.7 | 22.4 | 16.0 | 11.6 | 16.6 | 19.2 | 24.5 | |
| 5 | VIVEK HYBRID-21 | 22.6 | 17.8 | 15.9 | 24.6 | 22.3 | 20.6 | 23.6 | 15.4 | 12.1 | 17.0 | 19.3 | 28.6 | |
| | Loc. Mean | 21.8 | 16.6 | 15.9 | 23.7 | 22.0 | 20.0 | 22.4 | 15.6 | 11.8 | 16.6 | 18.7 | 24.7 | |
| | C.D. (5%) | 0.61 | 0.00 | 0.26 | 0.88 | 0.56 | 0.99 | 1.83 | 0.42 | 0.34 | 1.34 | 0.80 | 1.60 | |
| | C.V. (%) | 1.81 | 0.00 | 1.06 | 2.41 | 1.66 | 3.71 | 4.34 | 1.73 | 1.84 | 4.29 | 4.19 | 4.21 | |
| | F (Prob.) | 0.00 | 0.00 | 0.04 | 0.00 | 0.01 | 0.01 | 0.04 | 0.02 | 0.00 | 0.41 | 0.03 | 0.00 | |
| | | PLANT HEIGHT (cm) | | | | | | | | | | | | |
| SI | | | | | | | ZN 3 | | | | ZN 5 | OV'L | | |
| No. PEDIGREE | | BAHR | DHOL | JASH | VARA | RANC | AMBI | Mean | UDAI | BANS | CHHI | Mean | Mean | GODH |
| 1 | FH-3358 (RETEST) CHECKS | 156 | 127 | 107 | 175 | 169 | 232 | 161 | 170 | 136 | 154 | 153 | 158 | 137 |
| 2 | VIVEK HYBRID-17 | 160 | 154 | 133 | 188 | 173 | 214 | 170 | 208 | 150 | 177 | 178 | 173 | 154 |
| 3 | VIVEK QPM-9 | 196 | 171 | 135 | 210 | 183 | 233 | 188 | 210 | 178 | 182 | 190 | 189 | 161 |
| 4 | VIVEK HYBRID-9 | 169 | 158 | 456 | 213 | 189 | 224 | 235 | 212 | 149 | 178 | 179 | 216 | 164 |
| 5 | VIVEK HYBRID-21 | 182 | 149 | 120 | 198 | 190 | 208 | 174 | 192 | 136 | 179 | 169 | 172 | 158 |
| | Loc. Mean | 172 | 152 | 190 | 197 | 181 | 222 | 186 | 198 | 150 | 174 | 174 | 182 | 155 |
| | C.D. (5%) | 10.99 | 10.50 | 448.55 | 7.24 | 14.09 | 2.11 | 72.49 | 14.84 | 6.64 | 6.97 | 17.11 | 47.48 | 12.13 |
| | C.V. (%) | 4.14 | 4.49 | 152.94 | 2.39 | 5.06 | 0.62 | 32.42 | 3.97 | 2.88 | 2.60 | 5.22 | 27.20 | 5.09 |
| | F (Prob.) | 0.00 | 0.00 | 0.42 | 0.00 | 0.02 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.01 | 0.15 | 0.00 |

Table No. 27 (Continued)

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

TABLE No. 28

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, DMR DELHI ,LUDHIANA, PANTNAGAR, KANPUR, KARNAL, BAHARAICH, VARANASI, DHOLI, JASHIPUR, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, MANDYA, KOLHAPUR, UDAIPUR, GODHRA, BANSWARA, CHHINDIWARA IN IET & AET 1st YEAR, TRIAL No. TRQPM1 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|----|------|----|-----------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-----------|----|
| | | ALMO | | BAJA | | ZN 1 MEAN | | DELH | | KARN | | LUDH | | PANT | | KANP | | ZN 2 MEAN | |
| 1 | HQPM-20 | 4645 | 12 | 6997 | 5 | 5821 | 10 | 3056 | 2 | 4652 | 9 | 4727 | 10 | 7020 | 7 | 8020 | 7 | 5495 | 7 |
| 2 | HQPM-21 | 6550 | 3 | 6768 | 7 | 6659 | 4 | 1682 | 8 | 4744 | 7 | 5005 | 9 | 7497 | 6 | 7685 | 8 | 5323 | 8 |
| 3 | BAUQH-8-9-201 | 5575 | 9 | 6295 | 8 | 5935 | 8 | 2385 | 5 | 4637 | 10 | 5886 | 5 | 6082 | 11 | 7258 | 10 | 5250 | 9 |
| 4 | BAUSYN-8-9-501 | 5522 | 10 | 5819 | 12 | 5670 | 12 | 1583 | 11 | 4518 | 11 | 4534 | 12 | 6519 | 9 | 8784 | 5 | 5188 | 10 |
| 5 | BAUSYN-8-9-502 | 5759 | 7 | 5955 | 11 | 5857 | 9 | 1954 | 7 | 5038 | 3 | 4719 | 11 | 6407 | 10 | 6049 | 12 | 4833 | 11 |
| 6 | ECQ-3152 | 5347 | 11 | 6218 | 9 | 5782 | 11 | 2768 | 3 | 4830 | 5 | 6811 | 2 | 7800 | 5 | 8864 | 3 | 6215 | 2 |
| 7 | VEHQ-3019 | 6920 | 2 | 7937 | 3 | 7429 | 3 | 1666 | 9 | 5183 | 2 | 5285 | 7 | 7922 | 3 | 9311 | 1 | 5873 | 5 |
| 8 | BQPMH-282 | 6161 | 5 | 6081 | 10 | 6121 | 7 | 1658 | 10 | 3966 | 12 | 5186 | 8 | 5674 | 12 | 7360 | 9 | 4769 | 12 |
| 9 | JHQPM-304 | 5706 | 8 | 7494 | 4 | 6600 | 5 | 2329 | 6 | 5334 | 1 | 5774 | 6 | 7852 | 4 | 6655 | 11 | 5589 | 6 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | HQPM-1 | 7533 | 1 | 8588 | 2 | 8060 | 1 | 1468 | 12 | 4963 | 4 | 6114 | 4 | 8783 | 2 | 8429 | 6 | 5951 | 4 |
| 11 | HQPM-5 | 5947 | 6 | 6852 | 6 | 6400 | 6 | 2481 | 4 | 4813 | 6 | 7135 | 1 | 6944 | 8 | 8791 | 4 | 6033 | 3 |
| 12 | HQPM-7 | 6344 | 4 | 8620 | 1 | 7482 | 2 | 3221 | 1 | 4714 | 8 | 6384 | 3 | 9614 | 1 | 8897 | 2 | 6566 | 1 |
| | Location Mean | 6001 | | 6969 | | 6485 | | 2188 | | 4783 | | 5630 | | 7343 | | 8009 | | 5590 | |
| | Mean Stand | 21 | | 33 | | 27 | | 31 | | 39 | | 34 | | 36 | | 37 | | 35 | |
| | C.D. (5%) | 1047 | | 729 | | 888 | | 377 | | 741 | | 1339 | | 1493 | | 652 | | 920 | |
| | C.V. (%) | 10.28 | | 7.26 | | - | | 11.96 | | 10.75 | | 16.51 | | 14.12 | | 4.79 | | - | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0.02 | | 0.003 | | 0.001 | | 0 | | - | |
| | Plot Size | 3.6 | | 4.2 | | - | | 5.6 | | 6 | | 4.8 | | 6 | | 4.8 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 9-07 | | 1-07 | | - | | 7-06 | | 29-06 | | 10-07 | | 1-08 | | 14-07 | | - | |
| | Harvest Date | 14-11 | | 3-11 | | - | | 14-10 | | 2-10 | | 23-10 | | 18-11 | | 6-11 | | - | |
| | Irrigation Nos | - | | 3 | | - | | 4 | | 4 | | 6 | | - | | 2 | | - | |
| | Fertilizer Applied N | 100 | | 120 | | - | | 150 | | 150 | | - | | 120 | | 80 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 75 | | 60 | | - | | 60 | | 40 | | - | |
| | Fertilizer Applied K | 40 | | 40 | | - | | 75 | | 60 | | - | | 40 | | 40 | | - | |

TABLE No. 28 (Continued)

| Sl No PEDIGREE | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|-------------------------------------|----|------|----|-------|----|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|
| | | BAHR | R | DHOL | R | JASH | R | VARA | R | RANC | R | AMBI | R | MEAN | R | ARBH | R | HYDE | R |
| 1 | HQPM-20 | 5006 | 9 | 3352 | 7 | 6422 | 1 | 6325 | 7 | 5229 | 11 | 3974 | 4 | 5051 | 6 | 5652 | 9 | 5593 | 6 |
| 2 | HQPM-21 | 4829 | 11 | 3016 | 10 | 4750 | 9 | 6179 | 8 | 6264 | 6 | 4069 | 3 | 4851 | 8 | 6043 | 4 | 5560 | 7 |
| 3 | BAUQH-8-9-201 | 6049 | 5 | 2905 | 11 | 4700 | 10 | 6173 | 9 | 5613 | 10 | 3755 | 6 | 4866 | 7 | 5225 | 11 | 4986 | 10 |
| 4 | BAUSYN-8-9-501 | 4852 | 10 | 3612 | 5 | 4842 | 8 | 5549 | 10 | 5799 | 9 | 3739 | 7 | 4732 | 10 | 5542 | 10 | 5328 | 9 |
| 5 | BAUSYN-8-9-502 | 4782 | 12 | 2797 | 12 | 4924 | 7 | 5289 | 11 | 4876 | 12 | 3650 | 9 | 4386 | 12 | 5892 | 7 | 5817 | 5 |
| 6 | ECQ-3152 | 5063 | 8 | 3255 | 8 | 3773 | 12 | 6663 | 5 | 6030 | 7 | 3774 | 5 | 4760 | 9 | 5931 | 6 | 6472 | 1 |
| 7 | VEHQ-3019 | 6116 | 3 | 4031 | 3 | 5503 | 4 | 6935 | 2 | 6898 | 3 | 3606 | 10 | 5515 | 5 | 6616 | 2 | 5557 | 8 |
| 8 | BQPMH-282 | 5819 | 6 | 3216 | 9 | 4325 | 11 | 4569 | 12 | 5904 | 8 | 3389 | 12 | 4537 | 11 | 5046 | 12 | 6004 | 2 |
| 9 | JHQPM-304 | 6971 | 2 | 4052 | 2 | 6266 | 2 | 6759 | 4 | 6412 | 5 | 4089 | 2 | 5758 | 1 | 6029 | 5 | 4899 | 11 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | HQPM-1 | 5515 | 7 | 4018 | 4 | 5128 | 6 | 8085 | 1 | 6823 | 4 | 3656 | 8 | 5538 | 4 | 6415 | 3 | 5937 | 4 |
| 11 | HQPM-5 | 7107 | 1 | 3563 | 6 | 5242 | 5 | 6658 | 6 | 7196 | 2 | 3604 | 11 | 5561 | 3 | 5830 | 8 | 4535 | 12 |
| 12 | HQPM-7 | 6078 | 4 | 4277 | 1 | 5641 | 3 | 6830 | 3 | 7230 | 1 | 4275 | 1 | 5722 | 2 | 8937 | 1 | 5978 | 3 |
| | Location Mean | 5682 | | 3508 | | 5126 | | 6335 | | 6189 | | 3798 | | 5106 | | 6096 | | 5556 | |
| | Mean Stand | 32 | | 29 | | 25 | | 36 | | 29 | | 34 | | 31 | | 39 | | 32 | |
| | C.D. (5%) | 529 | | 637 | | 745 | | 775 | | 1184 | | 1001 | | 812 | | 1184 | | 970 | |
| | C.V. (%) | 6.47 | | 2.61 | | 10.09 | | 8.49 | | 13.29 | | 18.29 | | - | | 13.49 | | 12.13 | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0.09 | | 0.298 | | - | | 0 | | 0.007 | |
| | Plot Size | 4.8 | | 6 | | 4.8 | | 4.8 | | 5.6 | | 6 | | - | | 6 | | 6 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-04 | | 7-07 | | 27-07 | | 1-07 | | 9-07 | | 17-07 | | - | | 17-07 | | 6-07 | |
| | Harvest Date | 14-10 | | - | | 8-11 | | 11-10 | | 20-10 | | - | | - | | 5-11 | | 12-11 | |
| | Irrigation Nos | - | | - | | - | | 2 | | - | | - | | - | | 6 | | 2 | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 100 | | - | | 120 | | - | | 150 | | 180 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 60 | | - | | 75 | | 60 | |
| | Fertilizer Applied K | 60 | | 40 | | 60 | | 40 | | - | | 40 | | - | | 37.5 | | 50 | |

TABLE No. 28 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | ZN 5 | | OV'L | |
|---------------|----------------------|-------------------------------------|----|-------|----|------|----|-------|----|-------|----|-------|----|-------|----|------|----|------|----|
| | | KOLH | R | MAND | R | MEAN | R | UDAI | R | BANS | R | GODH | R | CHHI | R | MEAN | R | MEAN | R |
| 1 | HQPM-20 | 5696 | 12 | 6927 | 10 | 5967 | 12 | 6156 | 5 | 3637 | 10 | 4314 | 10 | 3787 | 5 | 4474 | 6 | 5295 | 8 |
| 2 | HQPM-21 | 7197 | 4 | 6810 | 11 | 6402 | 6 | 6797 | 2 | 4091 | 6 | 4735 | 6 | 3450 | 8 | 4768 | 3 | 5415 | 7 |
| 3 | BAUQH-8-9-201 | 6151 | 10 | 7621 | 8 | 5996 | 11 | 4494 | 9 | 3858 | 9 | 4299 | 11 | 2561 | 12 | 3803 | 12 | 5072 | 10 |
| 4 | BAUSYN-8-9-501 | 6378 | 9 | 8220 | 5 | 6367 | 7 | 4433 | 11 | 4110 | 5 | 4623 | 7 | 3255 | 10 | 4105 | 10 | 5122 | 9 |
| 5 | BAUSYN-8-9-502 | 6080 | 11 | 6401 | 12 | 6047 | 10 | 4493 | 10 | 4820 | 1 | 4331 | 9 | 3585 | 7 | 4307 | 8 | 4934 | 12 |
| 6 | ECQ-3152 | 7810 | 1 | 9323 | 4 | 7384 | 2 | 3990 | 12 | 4762 | 2 | 5039 | 3 | 3835 | 3 | 4406 | 7 | 5636 | 5 |
| 7 | VEHQ-3019 | 7365 | 3 | 9569 | 3 | 7277 | 3 | 7307 | 1 | 4371 | 3 | 4607 | 8 | 4248 | 1 | 5134 | 1 | 6046 | 2 |
| 8 | BQPMH-282 | 6749 | 7 | 7885 | 6 | 6421 | 5 | 4680 | 8 | 4016 | 7 | 3225 | 12 | 3807 | 4 | 3932 | 11 | 4987 | 11 |
| 9 | JHQPM-304 | 6482 | 8 | 7461 | 9 | 6218 | 9 | 5077 | 7 | 3325 | 12 | 4858 | 5 | 3609 | 6 | 4217 | 9 | 5592 | 6 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | HQPM-1 | 6811 | 6 | 9709 | 2 | 7218 | 4 | 6081 | 6 | 3534 | 11 | 5044 | 2 | 3440 | 9 | 4525 | 5 | 6003 | 3 |
| 11 | HQPM-5 | 7073 | 5 | 7753 | 7 | 6298 | 8 | 6319 | 4 | 4204 | 4 | 5555 | 1 | 2977 | 11 | 4764 | 4 | 5742 | 4 |
| 12 | HQPM-7 | 7550 | 2 | 10627 | 1 | 8273 | 1 | 6679 | 3 | 3938 | 8 | 4919 | 4 | 4096 | 2 | 4908 | 2 | 6421 | 1 |
| | Location Mean | 6779 | | 8192 | | 6656 | | 5542 | | 4055 | | 4629 | | 3554 | | 4445 | | 5522 | |
| | Mean Stand | 39 | | 33 | | 36 | | 33 | | 29 | | 36 | | 41 | | 35 | | 33 | |
| | C.D. (5%) | 1327 | | 917 | | 1100 | | 613 | | 437 | | 688 | | 431 | | 542 | | 848 | |
| | C.V. (%) | 13.59 | | 7.77 | | - | | 6.51 | | 7.48 | | 10.32 | | 7.13 | | - | | - | |
| | F (Prob) | 0.06 | | 0 | | - | | 0 | | 0 | | 0.001 | | 0 | | - | | - | |
| | Plot Size | 6 | | 5.6 | | - | | 4.8 | | 4.8 | | 4.8 | | 6 | | - | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-11 | | 22-07 | | - | | 28-06 | | 8-07 | | 13-07 | | 14-07 | | - | | - | |
| | Harvest Date | 3-12 | | 1-12 | | - | | 9-10 | | 25-10 | | 8-10 | | 11-11 | | - | | - | |
| | Irrigation Nos | - | | 6 | | - | | 2 | | 2 | | - | | - | | - | | - | |
| | Fertilizer Applied N | 120 | | 150 | | - | | 90 | | 120 | | 100 | | 120 | | - | | - | |
| | Fertilizer Applied P | 60 | | 75 | | - | | 60 | | 40 | | 50 | | 60 | | - | | - | |
| | Fertilizer Applied K | 40 | | 40 | | - | | - | | - | | 50 | | 40 | | - | | - | |

TABLE No. 28 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | | | | | | | | | | | | |
|-------|----------------|---|------|------|------|-----------|------|-----------|------|------|------|------|-----------|-----------|-----------|------|------|------|------|------|
| | | ALMO | | BAJA | | ZN 1 MEAN | | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | | BAHR | DHOL | JASH | VARA | RANC | AMBI |
| 1 | HQPM-20 | - | - | - | - | 108.2 | - | - | - | - | - | - | - | - | - | 25.2 | - | - | - | 8.7 |
| 2 | HQPM-21 | - | - | - | - | 14.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.3 |
| 3 | BAUQH-8-9-201 | - | - | - | - | 62.5 | - | - | - | - | - | 9.7 | - | - | - | - | - | - | - | 2.7 |
| 4 | BAUSYN-8-9-501 | - | - | - | - | 7.9 | - | - | - | 4.2 | - | - | - | - | - | - | - | - | - | 2.3 |
| 5 | BAUSYN-8-9-502 | - | - | - | - | 33.2 | 1.5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | ECQ-3152 | - | - | - | - | 88.6 | - | 11.4 | - | 5.2 | 4.4 | - | - | - | - | - | - | - | - | 3.2 |
| 7 | VEHQ-3019 | - | - | - | - | 13.5 | 4.4 | - | - | 10.5 | - | 10.9 | 0.3 | 7.3 | - | - | - | 1.1 | - | - |
| 8 | BQPMH-282 | - | - | - | - | 13 | - | - | - | - | - | 5.5 | - | - | - | - | - | - | - | - |
| 9 | JHQPM-304 | - | - | - | - | 58.7 | 7.5 | - | - | - | - | 26.4 | 0.8 | 22.2 | - | - | - | - | - | 11.8 |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | HQPM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | HQPM-5 | - | - | - | - | 69 | - | 16.7 | - | 4.3 | 1.4 | 28.9 | - | 2.2 | - | - | - | 5.5 | - | - |
| 12 | HQPM-7 | - | 0.4 | - | - | 119.5 | - | 4.4 | 9.5 | 5.6 | 10.3 | 10.2 | 6.4 | 10 | - | - | - | 6 | 16.9 | - |
| Sl No | PEDIGREE | ZN 3 MEAN | | ARBH | HYDE | KOLH | MAND | ZN 4 MEAN | | UDAI | BANS | GODH | CHHI | ZN 5 MEAN | OV'L MEAN | | | | | |
| 1 | HQPM-20 | - | - | - | - | - | - | - | 1.2 | 2.9 | - | 10.1 | - | - | - | - | - | - | - | - |
| 2 | HQPM-21 | - | - | - | - | 5.7 | - | - | 11.8 | 15.8 | - | 0.3 | 5.4 | - | - | - | - | - | - | - |
| 3 | BAUQH-8-9-201 | - | - | - | - | - | - | - | - | 9.2 | - | - | - | - | - | - | - | - | - | - |
| 4 | BAUSYN-8-9-501 | - | - | - | - | - | - | - | - | 16.3 | - | - | - | - | - | - | - | - | - | - |
| 5 | BAUSYN-8-9-502 | - | - | - | - | - | - | - | - | 36.4 | - | 4.2 | - | - | - | - | - | - | - | - |
| 6 | ECQ-3152 | - | - | - | 9 | 14.7 | - | 2.3 | - | 34.7 | - | 11.5 | - | - | - | - | - | - | - | - |
| 7 | VEHQ-3019 | - | 3.1 | - | - | 8.1 | - | 0.8 | 20.2 | 23.7 | - | 23.5 | 13.5 | 0.7 | - | - | - | - | - | - |
| 8 | BQPMH-282 | - | - | - | 1.1 | - | - | - | - | 13.6 | - | 10.7 | - | - | - | - | - | - | - | - |
| 9 | JHQPM-304 | 4 | - | - | - | - | - | - | - | - | - | 4.9 | - | - | - | - | - | - | - | - |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | HQPM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | HQPM-5 | 0.4 | - | - | - | 3.9 | - | - | 3.9 | 19 | 10.1 | - | 5.3 | - | - | - | - | - | - | - |
| 12 | HQPM-7 | 3.3 | 39.3 | 0.7 | 10.9 | 9.5 | 14.6 | 9.8 | 11.5 | - | - | 19.1 | 8.5 | 7 | - | - | - | - | - | - |

TABLE No. 28 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-5 | | | | | | | | | | | | | | | | | | |
|----------|---------------------|---|------|------|------|--------------|------|--------------|------|------|------|------|--------------|--------------|--------------|------|------|------|------|------|
| | | ALMO | | BAJA | | ZN 1 MEAN | | DELH | KARN | LUDH | PANT | KANP | ZN 2 MEAN | | BAHR | DHOL | JASH | VARA | RANC | AMBI |
| 1 | HQPM-20 | - | 2.1 | - | 23.2 | - | - | - | 1.1 | - | - | - | - | - | - | 22.5 | - | - | - | 10.3 |
| 2 | HQPM-21 | 10.1 | - | 4.1 | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | 12.9 |
| 3 | BAUQH-8-9-201 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 |
| 4 | BAUSYN-8-9-501 | - | - | - | - | - | - | - | - | - | - | - | - | 1.4 | - | - | - | - | - | 3.8 |
| 5 | BAUSYN-8-9-502 | - | - | - | - | 4.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 |
| 6 | ECQ-3152 | - | - | - | 11.6 | 0.3 | - | - | 12.3 | 0.8 | 3 | - | - | - | - | - | 0.1 | - | - | 4.7 |
| 7 | VEHQ-3019 | 16.4 | 15.8 | 16.1 | - | 7.7 | - | - | 14.1 | 5.9 | - | - | - | 13.1 | 5 | - | 4.2 | - | - | 0.1 |
| 8 | BQPMH-282 | 3.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | JHQPM-304 CHECKS | - | 9.4 | 3.1 | - | 10.8 | - | - | 13.1 | - | - | - | - | 13.7 | 19.5 | - | 1.5 | - | - | 13.5 |
| 10 | HQPM-1 | 26.7 | 25.3 | 26 | - | 3.1 | - | - | 26.5 | - | - | - | - | 12.8 | - | - | 21.4 | - | - | 1.5 |
| 11 | HQPM-5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | HQPM-7 | 6.7 | 25.8 | 16.9 | 29.9 | - | - | - | 38.4 | 1.2 | 8.8 | - | - | 20 | 7.6 | - | 2.6 | 0.5 | - | 18.6 |
| Sl No | PEDIGREE | ZN 3 MEAN | | ARBH | HYDE | KOLH | MAND | ZN 4 MEAN | | UDAI | BANS | GODH | CHHI | ZN 5 MEAN | OV'L MEAN | | | | | |
| 1 | HQPM-20 | - | - | - | 23.3 | - | - | - | - | - | - | - | 27.2 | - | - | | | | | |
| 2 | HQPM-21 | - | 3.7 | - | 22.6 | 1.7 | - | 1.7 | 7.6 | - | - | - | 15.9 | 0.1 | - | | | | | |
| 3 | BAUQH-8-9-201 | - | - | - | 9.9 | - | - | - | - | - | - | - | - | - | - | | | | | |
| 4 | BAUSYN-8-9-501 | - | - | - | 17.5 | - | 6 | 1.1 | - | - | - | 9.3 | - | - | - | | | | | |
| 5 | BAUSYN-8-9-502 | - | 1.1 | - | 28.3 | - | - | - | - | 14.7 | - | - | 20.4 | - | - | | | | | |
| 6 | ECQ-3152 | - | 1.7 | - | 42.7 | 10.4 | 20.2 | 17.2 | - | 13.3 | - | - | 28.8 | - | - | | | | | |
| 7 | VEHQ-3019 | - | 13.5 | - | 22.5 | 4.1 | 23.4 | 15.5 | 15.6 | 4 | - | - | 42.7 | 7.8 | 5.3 | | | | | |
| 8 | BQPMH-282 | - | - | - | 32.4 | - | 1.7 | 2 | - | - | - | - | 27.9 | - | - | | | | | |
| 9 | JHQPM-304 CHECKS | 3.5 | 3.4 | - | 8 | - | - | - | - | - | - | - | 21.2 | - | - | | | | | |
| 10 | HQPM-1 | - | 10 | - | 30.9 | - | 25.2 | 14.6 | - | - | - | - | 15.5 | - | 4.6 | | | | | |
| 11 | HQPM-5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | |
| 12 | HQPM-7 | 2.9 | 53.3 | - | 31.8 | 6.7 | 37.1 | 31.4 | 5.7 | - | - | - | 37.6 | 3 | 11.8 | | | | | |

TABLE No. 28 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | | | | | |
|-------|----------------|---|------|------|------|------|------|---------------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | ZN 2 | | | OTHER REGIONS | | | | | | | | |
| | | ALMO | BAJA | MEAN | DELH | KARN | LUDH | PANT | KANP | MEAN | BAHR | DHOL | JASH | VARA | RANC | AMBI |
| 1 | HQPM-20 | - | - | - | - | - | - | - | - | - | - | - | 13.9 | - | - | - |
| 2 | HQPM-21 | 3.3 | - | - | - | 0.6 | - | - | - | - | - | - | - | - | - | - |
| 3 | BAUQH-8-9-201 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | BAUSYN-8-9-501 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | BAUSYN-8-9-502 | - | - | - | - | 6.9 | - | - | - | - | - | - | - | - | - | - |
| 6 | ECQ-3152 | - | - | - | - | 2.5 | 6.7 | - | - | - | - | - | - | - | - | - |
| 7 | VEHQ-3019 | 9.1 | - | - | - | 9.9 | - | - | 4.7 | - | 0.6 | - | - | 1.5 | - | - |
| 8 | BQPMH-282 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | JHQPM-304 | - | - | - | - | 13.1 | - | - | - | - | 14.7 | - | 11.1 | - | - | - |
| | CHECKS | | | | | | | | | | | | | | | |
| 10 | HQPM-1 | 18.7 | - | 7.7 | - | 5.3 | - | - | - | - | - | - | - | 18.4 | - | - |
| 11 | HQPM-5 | - | - | - | - | 2.1 | 11.8 | - | - | - | 16.9 | - | - | - | - | - |
| 12 | HQPM-7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | | |
|-------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 3 | | | ZN 4 | | | ZN 5 | | | OV'L | | |
| | | MEAN | ARBH | HYDE | KOLH | MAND | MEAN | UDAI | BANS | GODH | CHHI | MEAN | MEAN |
| 1 | HQPM-20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | HQPM-21 | - | - | - | - | - | - | 1.8 | 3.9 | - | - | - | - |
| 3 | BAUQH-8-9-201 | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | BAUSYN-8-9-501 | - | - | - | - | - | - | - | 4.4 | - | - | - | - |
| 5 | BAUSYN-8-9-502 | - | - | - | - | - | - | - | 22.4 | - | - | - | - |
| 6 | ECQ-3152 | - | - | 8.3 | 3.4 | - | - | - | 20.9 | 2.4 | - | - | - |
| 7 | VEHQ-3019 | - | - | - | - | - | - | 9.4 | 11 | - | 3.7 | 4.6 | - |
| 8 | BQPMH-282 | - | - | 0.4 | - | - | - | - | 2 | - | - | - | - |
| 9 | JHQPM-304 | 0.6 | - | - | - | - | - | - | - | - | - | - | - |
| | CHECKS | | | | | | | | | | | | |
| 10 | HQPM-1 | - | - | - | - | - | - | - | - | 2.5 | - | - | - |
| 11 | HQPM-5 | - | - | - | - | - | - | - | 6.7 | 12.9 | - | - | - |
| 12 | HQPM-7 | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE No. 28 (Continued)

DAYS TO 50% POLLEN SHED

| SI | Zone | | | | | | | | Zone | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| No. PEDIGREE | ALMO | BAJA | Mean | DELH | KARN | LUDH | PANT | KANP | Mean | BAHR | DHOL | JASH | VARA | |
| 1 HQPM-20 | 54.0 | 59.0 | 56.5 | 55.8 | 45.8 | 51.8 | 54.8 | 40.7 | 49.7 | 52.8 | 53.8 | 50.8 | 49.3 | |
| 2 HQPM-21 | 53.3 | 59.3 | 56.3 | 55.8 | 46.5 | 53.3 | 53.0 | 52.3 | 52.2 | 52.8 | 51.3 | 49.0 | 50.0 | |
| 3 BAUQH-8-9-201 | 53.7 | 59.5 | 56.6 | 56.3 | 47.0 | 51.8 | 52.8 | 54.3 | 52.4 | 51.5 | 50.3 | 46.5 | 50.8 | |
| 4 BAUSYN-8-9-501 | 53.7 | 56.0 | 54.8 | 56.0 | 45.8 | 51.5 | 53.0 | 52.3 | 51.7 | 51.3 | 50.5 | 45.8 | 51.8 | |
| 5 BAUSYN-8-9-502 | 52.7 | 57.8 | 55.2 | 54.8 | 45.8 | 50.3 | 53.0 | 48.3 | 50.4 | 50.3 | 50.5 | 46.3 | 50.5 | |
| 6 ECQ-3152 | 58.3 | 61.3 | 59.8 | 55.0 | 48.3 | 53.8 | 55.0 | 55.3 | 53.5 | 55.8 | 53.5 | 53.0 | 52.3 | |
| 7 VEHQ-3019 | 56.3 | 62.8 | 59.5 | 56.8 | 48.3 | 54.5 | 56.8 | 53.7 | 54.0 | 54.8 | 54.0 | 51.5 | 52.3 | |
| 8 BQPMH-282 | 56.3 | 59.8 | 58.0 | 57.5 | 48.5 | 53.5 | 55.8 | 52.3 | 53.5 | 54.5 | 54.8 | 53.3 | 54.5 | |
| 9 JHQPM-304 | 57.0 | 66.8 | 61.9 | 56.8 | 48.5 | 56.3 | 56.8 | 52.7 | 54.2 | 55.5 | 55.5 | 53.8 | 56.8 | |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 55.7 | 55.5 | 55.6 | 58.3 | 48.8 | 53.5 | 54.0 | 49.7 | 52.8 | 53.3 | 54.5 | 51.5 | 53.5 | |
| 11 HQPM-5 | 57.7 | 61.8 | 59.7 | 56.0 | 48.3 | 54.8 | 56.0 | 52.3 | 53.5 | 54.8 | 53.5 | 51.5 | 52.8 | |
| 12 HQPM-7 | 56.3 | 57.3 | 56.8 | 54.8 | 49.3 | 52.8 | 54.0 | 53.3 | 52.8 | 54.5 | 54.3 | 51.8 | 51.5 | |
| Loc. Mean | 55.4 | 59.7 | 57.6 | 56.1 | 47.5 | 53.1 | 54.6 | 51.4 | 52.6 | 53.5 | 53.0 | 50.4 | 52.1 | |
| C.D. (5%) | 1.42 | 2.28 | 4.15 | 1.51 | 2.33 | 2.72 | 1.62 | 12.1 | 2.33 | 1.14 | 1.29 | 1.45 | 1.36 | |
| C.V. (%) | 1.51 | 2.66 | 3.28 | 1.87 | 3.41 | 3.56 | 2.07 | 13.9 | 3.48 | 1.48 | 1.69 | 2.00 | 1.81 | |
| F (Prob.) | 0.00 | 0.00 | 0.05 | 0.00 | 0.02 | 0.01 | 0.00 | 0.58 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ----- | | | | | | | | | | | | | | |
| SI | Zone | | | | | | | Zone | | | | Zone | OV'L | |
| No. PEDIGREE | RANC | AMBI | Mean | ARBH | HYDE | KOLH | MAND | Mean | UDAI | BANS | GODH | CHHI | Mean | Mean |
| 1 HQPM-20 | 49.0 | 50.0 | 50.9 | 54.3 | 58.0 | 55.3 | 51.0 | 54.6 | 52.3 | 50.5 | 50.0 | 52.3 | 51.3 | 51.9 |
| 2 HQPM-21 | 49.0 | 53.0 | 50.8 | 54.8 | 56.5 | 53.8 | 49.3 | 53.6 | 50.3 | 48.8 | 49.5 | 51.3 | 50.0 | 52.0 |
| 3 BAUQH-8-9-201 | 49.3 | 50.3 | 49.8 | 53.3 | 55.8 | 51.0 | 49.0 | 52.3 | 51.0 | 49.3 | 48.0 | 52.0 | 50.1 | 51.6 |
| 4 BAUSYN-8-9-501 | 50.0 | 51.3 | 50.1 | 53.8 | 55.3 | 51.5 | 48.5 | 52.3 | 50.7 | 50.5 | 48.3 | 51.7 | 50.3 | 51.4 |
| 5 BAUSYN-8-9-502 | 48.8 | 51.0 | 49.5 | 52.8 | 54.0 | 50.3 | 47.3 | 51.1 | 48.7 | 50.0 | 47.3 | 51.0 | 49.2 | 50.5 |
| 6 ECQ-3152 | 51.5 | 53.5 | 53.3 | 55.8 | 58.0 | 56.0 | 51.3 | 55.3 | 54.3 | 54.0 | 51.5 | 55.3 | 53.8 | 54.4 |
| 7 VEHQ-3019 | 52.5 | 52.3 | 52.9 | 55.8 | 59.0 | 58.0 | 52.5 | 56.3 | 54.7 | 53.8 | 51.5 | 54.3 | 53.6 | 54.6 |
| 8 BQPMH-282 | 52.8 | 55.3 | 54.2 | 54.8 | 56.3 | 56.0 | 51.0 | 54.5 | 55.0 | 50.8 | 52.5 | 55.3 | 53.4 | 54.3 |
| 9 JHQPM-304 | 54.0 | 54.0 | 54.9 | 55.3 | 58.5 | 58.3 | 53.8 | 56.4 | 56.0 | 52.3 | 54.3 | 58.0 | 55.1 | 55.7 |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 52.0 | 54.8 | 53.3 | 55.0 | 58.5 | 57.3 | 52.5 | 55.8 | 54.3 | 51.8 | 51.8 | 54.0 | 53.0 | 53.8 |
| 11 HQPM-5 | 54.0 | 54.0 | 53.4 | 56.8 | 59.3 | 59.3 | 53.3 | 57.1 | 55.3 | 51.3 | 52.0 | 57.3 | 54.0 | 54.8 |
| 12 HQPM-7 | 52.0 | 53.8 | 53.0 | 56.0 | 58.3 | 57.8 | 52.0 | 56.0 | 54.0 | 53.8 | 39.8 | 54.0 | 50.4 | 53.4 |
| Loc. Mean | 51.2 | 52.8 | 52.2 | 54.8 | 57.3 | 55.4 | 50.9 | 54.6 | 53.1 | 51.4 | 49.7 | 53.9 | 52.0 | 53.2 |
| C.D. (5%) | 1.81 | 1.39 | 1.23 | 1.48 | 2.31 | 2.91 | 1.47 | 1.37 | 1.41 | 1.22 | 9.88 | 1.32 | 2.90 | 0.96 |
| C.V. (%) | 2.45 | 1.84 | 2.04 | 1.88 | 2.80 | 3.65 | 2.00 | 1.74 | 1.57 | 1.65 | 13.82 | 1.44 | 3.88 | 2.98 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 |

TABLE No. 28 (Continued)

DAYS TO 50% SILKING

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

TABLE No. 28 (Continued)

DAYS TO 50% DRY HUSK

| SI No. PEDIGREE | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | |
|--------------------|-------|-------|--------------|------|-------|-------|-------|--------------|--------------|------|------|------|--------------|--------------|
| 1 HQPM-20 | 105.0 | 99.8 | 102.4 | 90.8 | 80.5 | 87.5 | 102.0 | 90.7 | 90.3 | 84.5 | 89.0 | 96.3 | 94.3 | |
| 2 HQPM-21 | 102.7 | 102.3 | 102.5 | 87.0 | 80.5 | 88.3 | 101.8 | 91.3 | 89.8 | 84.5 | 86.5 | 94.8 | 90.5 | |
| 3 BAUQH-8-9-201 | 102.7 | 100.5 | 101.6 | 88.3 | 82.0 | 86.0 | 102.8 | 93.0 | 90.4 | 83.3 | 85.8 | 93.8 | 90.5 | |
| 4 BAUSYN-8-9-501 | 101.7 | 95.8 | 98.7 | 90.5 | 81.8 | 87.3 | 104.0 | 92.0 | 91.1 | 84.5 | 86.0 | 91.8 | 91.8 | |
| 5 BAUSYN-8-9-502 | 102.3 | 102.3 | 102.3 | 89.3 | 81.3 | 86.3 | 100.8 | 87.7 | 89.0 | 83.8 | 86.5 | 94.8 | 94.3 | |
| 6 ECQ-3152 | 102.7 | 99.3 | 101.0 | 91.0 | 80.5 | 88.3 | 101.5 | 92.0 | 90.7 | 84.0 | 84.8 | 93.0 | 90.5 | |
| 7 VEHQ-3019 | 106.0 | 108.3 | 107.1 | 92.8 | 81.3 | 90.3 | 103.5 | 92.0 | 92.0 | 87.3 | 89.0 | 97.3 | 91.5 | |
| 8 BQPMH-282 | 103.0 | 100.8 | 101.9 | 90.3 | 82.0 | 87.5 | 103.0 | 90.3 | 90.6 | 86.0 | 89.3 | 95.5 | 96.3 | |
| 9 JHQPM-304 | 106.7 | 107.0 | 106.8 | 92.5 | 81.5 | 89.3 | 103.0 | 92.7 | 91.8 | 87.3 | 88.8 | 97.3 | 94.0 | |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 106.7 | 103.0 | 104.8 | 87.5 | 80.8 | 88.0 | 102.3 | 89.7 | 89.6 | 86.0 | 89.3 | 97.5 | 98.5 | |
| 11 HQPM-5 | 104.3 | 99.3 | 101.8 | 91.5 | 83.3 | 89.8 | 103.8 | 90.0 | 91.7 | 84.5 | 88.8 | 94.5 | 90.8 | |
| 12 HQPM-7 | 107.0 | 98.5 | 102.8 | 89.3 | 82.8 | 87.3 | 103.5 | 90.7 | 90.7 | 86.3 | 90.0 | 96.0 | 91.5 | |
| Loc. Mean | 104.2 | 101.4 | 102.8 | 90.0 | 81.5 | 88.0 | 102.6 | 91.0 | 90.6 | 85.1 | 87.8 | 95.2 | 92.9 | |
| C.D. (5%) | 2.29 | 1.88 | 4.78 | 4.54 | 2.66 | 3.34 | 2.21 | 3.55 | 1.44 | 1.34 | 1.71 | 1.98 | 1.62 | |
| C.V. (%) | 1.30 | 1.29 | 2.11 | 3.51 | 2.27 | 2.64 | 1.49 | 2.30 | 1.25 | 1.10 | 1.36 | 1.45 | 1.22 | |
| F (Prob.) | 0.00 | 0.00 | 0.08 | 0.24 | 0.51 | 0.30 | 0.12 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| SI No. PEDIGREE | RANC | AMBI | Zone Mean | ARBH | HYDE | KOLH | MAND | Zone Mean | UDAI | BANS | GODH | CHHI | Zone Mean | OV'L Mean |
| 1 HQPM-20 | 95.7 | 92.5 | 92.0 | 88.8 | 99.5 | 96.3 | 103.0 | 96.9 | 84.7 | 82.5 | 81.0 | 87.7 | 84.0 | 92.0 |
| 2 HQPM-21 | 96.3 | 93.3 | 91.0 | 88.5 | 96.8 | 94.5 | 98.3 | 94.5 | 84.3 | 80.0 | 79.3 | 85.0 | 82.1 | 90.8 |
| 3 BAUQH-8-9-201 | 96.3 | 91.5 | 90.2 | 87.8 | 97.8 | 92.8 | 97.8 | 94.0 | 82.7 | 82.0 | 76.8 | 86.3 | 81.9 | 90.5 |
| 4 BAUSYN-8-9-501 | 96.5 | 92.3 | 90.5 | 87.5 | 97.3 | 92.3 | 97.0 | 93.5 | 81.3 | 83.0 | 79.8 | 85.7 | 82.4 | 90.4 |
| 5 BAUSYN-8-9-502 | 95.8 | 92.0 | 91.2 | 88.0 | 95.8 | 92.0 | 96.0 | 92.9 | 82.0 | 81.5 | 79.5 | 86.3 | 82.3 | 90.4 |
| 6 ECQ-3152 | 97.3 | 94.0 | 90.6 | 88.0 | 99.0 | 97.0 | 99.5 | 95.9 | 81.7 | 85.0 | 76.8 | 89.0 | 83.1 | 91.2 |
| 7 VEHQ-3019 | 98.0 | 92.5 | 92.6 | 88.3 | 100.8 | 96.5 | 109.8 | 98.8 | 85.0 | 86.5 | 82.5 | 91.0 | 86.3 | 93.8 |
| 8 BQPMH-282 | 98.3 | 95.0 | 93.4 | 87.5 | 100.3 | 97.0 | 102.0 | 96.7 | 83.7 | 82.5 | 79.3 | 89.3 | 83.7 | 92.3 |
| 9 JHQPM-304 | 98.0 | 93.8 | 93.2 | 87.8 | 100.3 | 97.0 | 103.8 | 97.2 | 84.0 | 83.5 | 79.8 | 90.7 | 84.5 | 93.3 |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 97.5 | 94.3 | 93.8 | 88.0 | 99.8 | 98.3 | 104.3 | 97.6 | 84.7 | 84.5 | 81.5 | 90.3 | 85.3 | 93.0 |
| 11 HQPM-5 | 97.3 | 94.0 | 91.6 | 88.5 | 103.0 | 100.3 | 106.3 | 99.5 | 86.0 | 85.0 | 81.8 | 90.0 | 85.7 | 93.0 |
| 12 HQPM-7 | 98.0 | 94.3 | 92.7 | 87.3 | 96.5 | 98.8 | 103.8 | 96.6 | 85.7 | 84.5 | 79.5 | 90.3 | 85.0 | 92.4 |
| Loc. Mean | 97.1 | 93.3 | 91.9 | 88.0 | 98.9 | 96.0 | 101.8 | 96.2 | 83.8 | 83.4 | 79.8 | 88.5 | 83.9 | 91.9 |
| C.D. (5%) | 1.08 | 1.37 | 1.44 | 1.48 | 1.53 | 3.64 | 3.80 | 2.84 | 2.26 | 1.53 | 4.77 | 1.63 | 1.80 | 0.99 |
| C.V. (%) | 0.78 | 1.02 | 1.35 | 1.17 | 1.07 | 2.63 | 2.60 | 2.06 | 1.59 | 1.28 | 4.16 | 1.09 | 1.49 | 1.78 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 |

TABLE No. 28 (Continued)

MOISTURE

| SI No. PEDIGREE | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | RANC | Zone Mean |
|--------------------|------|------|--------------|-------|--------------|------|------|------|--------------|--------------|--------------|------|------|------|--------------|
| 1 HQPM-20 | 26.2 | 21.0 | 23.6 | 31.5 | 25.4 | 22.5 | 26.0 | 15.0 | 24.1 | 20.9 | 19.5 | 16.9 | 27.8 | 21.2 | 21.2 |
| 2 HQPM-21 | 26.1 | 22.4 | 24.2 | 31.2 | 25.7 | 23.1 | 26.2 | 15.0 | 24.2 | 21.8 | 17.5 | 16.6 | 25.9 | 19.5 | 20.3 |
| 3 BAUQH-8-9-201 | 27.3 | 22.6 | 25.0 | 35.5 | 26.5 | 22.9 | 28.9 | 15.0 | 25.7 | 22.3 | 17.3 | 16.6 | 26.2 | 19.2 | 20.3 |
| 4 BAUSYN-8-9-501 | 27.9 | 22.8 | 25.4 | 36.7 | 28.4 | 23.4 | 24.1 | 15.0 | 25.5 | 21.9 | 17.2 | 17.0 | 24.8 | 19.4 | 20.0 |
| 5 BAUSYN-8-9-502 | 26.1 | 20.5 | 23.3 | 29.8 | 26.1 | 21.0 | 27.7 | 15.0 | 23.9 | 20.5 | 19.4 | 17.0 | 24.8 | 21.3 | 20.6 |
| 6 ECQ-3152 | 28.2 | 23.9 | 26.0 | 38.4 | 30.8 | 25.4 | 26.9 | 15.0 | 27.3 | 23.6 | 16.8 | 16.5 | 27.4 | 20.7 | 21.0 |
| 7 VEHQ-3019 | 29.8 | 23.6 | 26.7 | 38.1 | 27.3 | 28.7 | 32.8 | 15.0 | 28.4 | 22.6 | 18.7 | 16.6 | 29.6 | 20.1 | 21.5 |
| 8 BQPMH-282 | 27.4 | 24.0 | 25.7 | 37.6 | 27.0 | 26.3 | 33.5 | 15.0 | 27.9 | 22.8 | 17.4 | 16.8 | 28.8 | 19.1 | 21.0 |
| 9 JHQPM-304 | 30.3 | 22.4 | 26.3 | 36.7 | 27.0 | 27.9 | 30.0 | 15.0 | 27.3 | 22.7 | 23.2 | 17.0 | 29.5 | 20.7 | 22.6 |
| CHECKS | | | | | | | | | | | | | | | |
| 10 HQPM-1 | 27.1 | 24.5 | 25.8 | 42.8 | 27.8 | 27.0 | 30.3 | 15.0 | 28.6 | 22.9 | 21.8 | 17.5 | 30.7 | 19.2 | 22.4 |
| 11 HQPM-5 | 29.4 | 25.8 | 27.6 | 41.9 | 31.3 | 28.7 | 31.0 | 15.0 | 29.6 | 22.8 | 24.8 | 17.1 | 26.1 | 19.3 | 22.0 |
| 12 HQPM-7 | 29.9 | 23.0 | 26.4 | 33.4 | 28.9 | 26.8 | 30.4 | 15.0 | 26.9 | 21.5 | 19.9 | 17.4 | 29.0 | 19.6 | 21.5 |
| Loc. Mean | 28.0 | 23.0 | 25.5 | 36.1 | 27.7 | 25.3 | 29.0 | 15.0 | 26.6 | 22.2 | 19.5 | 16.9 | 27.5 | 19.9 | 21.2 |
| C.D. (5%) | 1.59 | 1.59 | 2.41 | 2.14- | - | 1.65 | 2.08 | - | 2.65 | 0.79 | - | 0.17 | 0.79 | 0.52 | 1.88 |
| C.V. (%) | 3.35 | 4.79 | 4.30 | 4.12- | - | 4.55 | 4.99 | - | 7.80 | 2.49 | - | 0.70 | 1.99 | 1.81 | 6.97 |
| F (Prob.) | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 |
| SI No. PEDIGREE | ARBH | HYDE | KOLH | MAND | Zone Mean | UDAI | BANS | GODH | CHHI | Zone Mean | OV'L Mean | | | | |
| 1 HQPM-20 | 29.2 | 31.5 | 13.8 | 16.4 | 22.7 | 18.6 | 16.6 | 27.3 | 17.2 | 19.9 | 22.2 | | | | |
| 2 HQPM-21 | 31.0 | 29.7 | 13.1 | 16.6 | 22.6 | 21.7 | 16.6 | 24.2 | 16.4 | 19.7 | 22.0 | | | | |
| 3 BAUQH-8-9-201 | 33.5 | 32.1 | 15.4 | 16.4 | 24.3 | 21.1 | 16.2 | 31.9 | 18.9 | 22.0 | 23.3 | | | | |
| 4 BAUSYN-8-9-501 | 31.0 | 29.6 | 12.6 | 16.6 | 22.4 | 18.8 | 16.5 | 25.2 | 19.1 | 19.9 | 22.4 | | | | |
| 5 BAUSYN-8-9-502 | 32.5 | 29.2 | 14.6 | 16.2 | 23.1 | 22.1 | 16.5 | 23.7 | 16.1 | 19.6 | 22.0 | | | | |
| 6 ECQ-3152 | 34.6 | 26.9 | 14.8 | 16.8 | 23.3 | 20.8 | 16.1 | 24.7 | 19.5 | 20.3 | 23.4 | | | | |
| 7 VEHQ-3019 | 33.9 | 29.1 | 14.0 | 16.8 | 23.4 | 24.0 | 16.2 | 32.8 | 17.9 | 22.7 | 24.4 | | | | |
| 8 BQPMH-282 | 29.1 | 30.5 | 14.5 | 16.4 | 22.6 | 21.7 | 15.9 | 35.2 | 15.3 | 22.0 | 23.7 | | | | |
| 9 JHQPM-304 | 38.1 | 26.1 | 15.4 | 16.6 | 24.0 | 21.5 | 15.8 | 31.3 | 19.4 | 22.0 | 24.3 | | | | |
| CHECKS | | | | | | | | | | | | | | | |
| 10 HQPM-1 | 40.4 | 28.2 | 13.5 | 16.4 | 24.6 | 21.0 | 16.1 | 33.8 | 17.9 | 22.2 | 24.7 | | | | |
| 11 HQPM-5 | 45.7 | 32.7 | 15.0 | 16.9 | 27.6 | 23.6 | 15.7 | 28.0 | 18.3 | 21.4 | 25.4 | | | | |
| 12 HQPM-7 | 37.2 | 29.3 | 13.9 | 16.2 | 24.1 | 21.0 | 15.9 | 26.4 | 19.3 | 20.6 | 23.7 | | | | |
| Loc. Mean | 34.7 | 29.6 | 14.2 | 16.5 | 23.7 | 21.3 | 16.1 | 28.7 | 17.9 | 21.0 | 23.4 | | | | |
| C.D. (5%) | 3.07 | 2.14 | 0.69 | 0.31 | 3.81 | 0.45 | 0.31 | 3.63 | 1.82 | 3.34 | 1.25 | | | | |
| C.V. (%) | 6.15 | 5.04 | 3.40 | 1.32 | 11.1 | 1.24 | 1.34 | 8.80 | 6.01 | 11.0 | 8.58 | | | | |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | | | | |

TABLE No. 28 (Continued)

PLANT HEIGHT CM

| SI No. PEDIGREE | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | |
|--------------------|------|------|--------------|------|------|------|------|--------------|--------------|------|------|------|--------------|--------------|
| 1 HQPM-20 | 233 | 180 | 206 | 149 | 193 | 170 | 232 | 182 | 185 | 190 | 158 | 157 | 188 | |
| 2 HQPM-21 | 245 | 177 | 211 | 140 | 196 | 160 | 225 | 195 | 183 | 170 | 154 | 137 | 190 | |
| 3 BAUQH-8-9-201 | 239 | 189 | 214 | 139 | 208 | 169 | 230 | 185 | 186 | 177 | 161 | 128 | 210 | |
| 4 BAUSYN-8-9-501 | 247 | 184 | 216 | 140 | 180 | 169 | 205 | 192 | 177 | 195 | 159 | 138 | 188 | |
| 5 BAUSYN-8-9-502 | 243 | 170 | 206 | 143 | 193 | 171 | 240 | 184 | 186 | 188 | 155 | 149 | 190 | |
| 6 ECQ-3152 | 257 | 177 | 217 | 157 | 193 | 165 | 234 | 190 | 188 | 181 | 160 | 136 | 205 | |
| 7 VEHQ-3019 | 259 | 177 | 218 | 144 | 200 | 169 | 235 | 195 | 188 | 178 | 154 | 146 | 195 | |
| 8 BQPMH-282 | 255 | 183 | 219 | 133 | 200 | 171 | 225 | 180 | 182 | 166 | 164 | 127 | 208 | |
| 9 JHQPM-304 | 258 | 200 | 229 | 151 | 199 | 175 | 250 | 192 | 193 | 195 | 179 | 152 | 193 | |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 240 | 182 | 211 | 138 | 189 | 170 | 233 | 185 | 183 | 180 | 152 | 138 | 190 | |
| 11 HQPM-5 | 254 | 184 | 219 | 156 | 208 | 180 | 235 | 192 | 194 | 199 | 167 | 143 | 213 | |
| 12 HQPM-7 | 248 | 179 | 214 | 163 | 204 | 185 | 243 | 191 | 197 | 188 | 169 | 138 | 210 | |
| Loc. Mean | 248 | 182 | 215 | 146 | 197 | 171 | 232 | 189 | 187 | 184 | 161 | 141 | 198 | |
| C.D. (5%) | 7.9 | 12.6 | 15.8 | 12.9 | 17.1 | 14.9 | 19.2 | 1.5 | 8.4 | 16.8 | 9.6 | 6.3 | 6.2 | |
| C.V. (%) | 1.9 | 4.8 | 3.3 | 6.1 | 6.1 | 6.0 | 5.8 | 0.5 | 3.5 | 6.4 | 4.2 | 3.1 | 2.2 | |
| F (Prob.) | 0.00 | 0.01 | 0.24 | 0.00 | 0.09 | 0.15 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | |
| SI No. PEDIGREE | RANC | AMBI | Zone Mean | ARBH | HYDE | KOLH | MAND | Zone Mean | UDAI | BANS | GODH | CHHI | Zone Mean | OV'L Mean |
| 1 HQPM-20 | 196 | 212 | 183 | 190 | 218 | 188 | 193 | 197 | 213 | 173 | 169 | 191 | 187 | 189 |
| 2 HQPM-21 | 187 | 210 | 175 | 183 | 216 | 201 | 188 | 197 | 203 | 176 | 164 | 198 | 185 | 186 |
| 3 BAUQH-8-9-201 | 191 | 208 | 179 | 184 | 221 | 215 | 190 | 203 | 202 | 167 | 168 | 190 | 182 | 189 |
| 4 BAUSYN-8-9-501 | 185 | 204 | 178 | 186 | 225 | 219 | 191 | 205 | 183 | 164 | 162 | 199 | 177 | 186 |
| 5 BAUSYN-8-9-502 | 191 | 213 | 181 | 183 | 208 | 194 | 186 | 193 | 198 | 172 | 167 | 184 | 180 | 187 |
| 6 ECQ-3152 | 187 | 182 | 175 | 186 | 220 | 214 | 184 | 201 | 225 | 178 | 166 | 192 | 190 | 190 |
| 7 VEHQ-3019 | 190 | 186 | 175 | 188 | 197 | 193 | 194 | 193 | 205 | 184 | 163 | 192 | 186 | 188 |
| 8 BQPMH-282 | 186 | 206 | 176 | 185 | 203 | 199 | 172 | 189 | 190 | 175 | 159 | 207 | 183 | 185 |
| 9 JHQPM-304 | 212 | 231 | 193 | 181 | 234 | 205 | 202 | 205 | 230 | 181 | 175 | 203 | 197 | 200 |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 188 | 222 | 179 | 180 | 226 | 196 | 187 | 197 | 212 | 169 | 163 | 177 | 180 | 187 |
| 11 HQPM-5 | 200 | 215 | 189 | 189 | 233 | 205 | 194 | 205 | 208 | 184 | 176 | 188 | 189 | 196 |
| 12 HQPM-7 | 210 | 250 | 194 | 184 | 229 | 205 | 197 | 204 | 208 | 179 | 180 | 208 | 194 | 198 |
| Loc. Mean | 194 | 212 | 181 | 185 | 219 | 203 | 190 | 199 | 207 | 175 | 168 | 194 | 186 | 190 |
| C.D. (5%) | 13.3 | 4.3 | 11.1 | 1.6 | 23.8 | 30.9 | 18.0 | 10.9 | 9.9 | 4.6 | 10.5 | 21.7 | 11.6 | 4.9 |
| C.V. (%) | 4.8 | 1.4 | 5.3 | 0.6 | 7.6 | 10.6 | 6.6 | 3.8 | 2.8 | 1.8 | 4.3 | 6.6 | 4.3 | 4.3 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.63 | 0.18 | 0.04 | 0.00 | 0.00 | 0.01 | 0.17 | 0.04 | 0.00 |

TABLE No. 28 (Continued)

EAR HEIGHT CM

| SI No. PEDIGREE | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | |
|--------------------|------|------|--------------|------|------|------|------|--------------|--------------|------|------|------|--------------|--------------|
| 1 HQPM-20 | 106 | 79 | 93 | 52 | 98 | 69 | 91 | 66 | 75 | 78 | 61 | 48 | 80 | |
| 2 HQPM-21 | 125 | 83 | 104 | 55 | 105 | 79 | 102 | 81 | 84 | 83 | 69 | 47 | 100 | |
| 3 BAUQH-8-9-201 | 129 | 95 | 112 | 61 | 115 | 83 | 100 | 75 | 87 | 96 | 72 | 43 | 110 | |
| 4 BAUSYN-8-9-501 | 128 | 82 | 105 | 63 | 103 | 79 | 97 | 81 | 84 | 103 | 74 | 54 | 88 | |
| 5 BAUSYN-8-9-502 | 126 | 80 | 103 | 61 | 105 | 76 | 110 | 65 | 84 | 92 | 71 | 50 | 100 | |
| 6 ECQ-3152 | 134 | 82 | 108 | 75 | 106 | 83 | 98 | 85 | 89 | 74 | 72 | 43 | 113 | |
| 7 VEHQ-3019 | 135 | 81 | 108 | 54 | 119 | 88 | 99 | 77 | 87 | 92 | 67 | 49 | 95 | |
| 8 BQPMH-282 | 133 | 86 | 109 | 73 | 123 | 90 | 107 | 71 | 93 | 91 | 79 | 50 | 113 | |
| 9 JHQPM-304 | 154 | 96 | 125 | 84 | 119 | 101 | 130 | 75 | 102 | 112 | 92 | 61 | 100 | |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 126 | 84 | 105 | 63 | 105 | 78 | 101 | 71 | 83 | 88 | 65 | 45 | 93 | |
| 11 HQPM-5 | 131 | 89 | 110 | 72 | 111 | 86 | 111 | 79 | 92 | 110 | 78 | 52 | 118 | |
| 12 HQPM-7 | 128 | 73 | 101 | 66 | 108 | 84 | 133 | 85 | 95 | 78 | 79 | 49 | 105 | |
| Loc. Mean | 130 | 84 | 107 | 65 | 110 | 83 | 107 | 76 | 88 | 91 | 73 | 49 | 101 | |
| C.D. (5%) | 11.3 | 9.0 | 14.2 | 12.4 | 15.5 | 15.3 | 25.9 | 3.2 | 8.8 | 13.3 | 10.3 | 5.6 | 3.4 | |
| C.V. (%) | 5.2 | 7.4 | 6.0 | 13.2 | 9.8 | 12.8 | 16.9 | 2.5 | 7.9 | 10.1 | 9.8 | 8.0 | 2.4 | |
| F (Prob.) | 0.00 | 0.00 | 0.05 | 0.00 | 0.06 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| SI No. PEDIGREE | RANC | AMBI | Zone Mean | ARBH | HYDE | KOLH | MAND | Zone Mean | UDAI | BANS | GODH | CHHI | Zone Mean | OV'L Mean |
| 1 HQPM-20 | 73 | 56 | 66 | 98 | 93 | 85 | 91 | 92 | 88 | 58 | 83 | 71 | 75 | 77 |
| 2 HQPM-21 | 92 | 77 | 78 | 91 | 95 | 113 | 92 | 98 | 108 | 78 | 74 | 103 | 91 | 88 |
| 3 BAUQH-8-9-201 | 93 | 72 | 81 | 92 | 92 | 113 | 89 | 96 | 90 | 66 | 83 | 105 | 86 | 89 |
| 4 BAUSYN-8-9-501 | 88 | 75 | 80 | 96 | 106 | 115 | 91 | 102 | 93 | 85 | 84 | 91 | 88 | 89 |
| 5 BAUSYN-8-9-502 | 89 | 72 | 79 | 92 | 83 | 98 | 85 | 89 | 83 | 83 | 75 | 90 | 83 | 85 |
| 6 ECQ-3152 | 91 | 60 | 75 | 93 | 89 | 106 | 88 | 94 | 113 | 71 | 76 | 102 | 91 | 88 |
| 7 VEHQ-3019 | 90 | 54 | 74 | 97 | 82 | 98 | 89 | 91 | 92 | 75 | 84 | 94 | 86 | 86 |
| 8 BQPMH-282 | 90 | 79 | 84 | 93 | 82 | 104 | 88 | 91 | 97 | 85 | 82 | 113 | 94 | 92 |
| 9 JHQPM-304 | 110 | 94 | 95 | 88 | 113 | 133 | 98 | 108 | 135 | 92 | 81 | 121 | 107 | 104 |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 92 | 73 | 76 | 89 | 85 | 100 | 96 | 92 | 87 | 69 | 81 | 90 | 82 | 85 |
| 11 HQPM-5 | 96 | 82 | 89 | 96 | 97 | 100 | 95 | 97 | 112 | 96 | 77 | 106 | 98 | 95 |
| 12 HQPM-7 | 101 | 85 | 83 | 90 | 98 | 106 | 94 | 97 | 102 | 93 | 86 | 107 | 97 | 93 |
| Loc. Mean | 92 | 73 | 80 | 93 | 93 | 106 | 91 | 96 | 100 | 79 | 80 | 99 | 90 | 89 |
| C.D. (5%) | 12.4 | 2.2 | 8.3 | 2.4 | 14.1 | 16.0 | 8.8 | 10.2 | 6.1 | 4.9 | 12.4 | 13.9 | 13.3 | 4.5 |
| C.V. (%) | 9.3 | 2.1 | 9.0 | 1.8 | 10.5 | 10.5 | 6.7 | 7.4 | 3.6 | 4.3 | 10.7 | 8.3 | 10.3 | 8.3 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.04 | 0.00 | 0.00 | 0.65 | 0.00 | 0.00 | 0.00 |

TABLE No. 28 (Continued)

SHELLING %

| SI No. PEDIGREE | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | JASH | VARA | RANC | AMBI | Zone Mean |
|--------------------|------|------|--------------|------|--------------|------|------|------|--------------|--------------|--------------|------|------|------|--------------|
| 1 HQPM-20 | 85.2 | 89.1 | 87.2 | 89.8 | 82.6 | 87.0 | 87.5 | 74.0 | 84.2 | 80.1 | 79.0 | 77.0 | 83.3 | 82.3 | 80.3 |
| 2 HQPM-21 | 85.9 | 83.8 | 84.8 | 82.4 | 80.4 | 84.5 | 85.2 | 74.0 | 81.3 | 79.4 | 79.2 | 77.0 | 86.2 | 81.0 | 80.5 |
| 3 BAUQH-8-9-201 | 85.9 | 79.9 | 82.9 | 81.4 | 80.0 | 86.1 | 83.1 | 73.0 | 80.7 | 77.5 | 78.7 | 77.3 | 86.2 | 81.5 | 80.2 |
| 4 BAUSYN-8-9-501 | 84.7 | 80.1 | 82.4 | 82.5 | 85.2 | 86.6 | 82.4 | 74.0 | 82.1 | 79.5 | 80.1 | 78.3 | 83.3 | 82.7 | 80.8 |
| 5 BAUSYN-8-9-502 | 85.0 | 81.2 | 83.1 | 80.6 | 86.4 | 86.1 | 87.2 | 72.5 | 82.5 | 79.1 | 78.5 | 77.0 | 86.2 | 83.8 | 80.9 |
| 6 ECQ-3152 | 82.2 | 89.9 | 86.0 | 81.0 | 80.4 | 89.6 | 85.0 | 75.5 | 82.3 | 77.5 | 78.7 | 75.0 | 86.6 | 80.2 | 79.6 |
| 7 VEHQ-3019 | 83.5 | 78.0 | 80.8 | 81.8 | 76.3 | 88.2 | 85.2 | 74.5 | 81.2 | 76.9 | 76.6 | 75.8 | 86.6 | 81.4 | 79.4 |
| 8 BQPMH-282 | 85.4 | 80.3 | 82.8 | 82.1 | 80.6 | 77.2 | 85.2 | 73.5 | 79.7 | 79.3 | 77.1 | 75.8 | 85.0 | 81.2 | 79.7 |
| 9 JHQPM-304 | 82.8 | 79.1 | 81.0 | 76.0 | 86.7 | 91.2 | 83.3 | 72.5 | 81.9 | 77.3 | 77.7 | 75.3 | 82.9 | 82.4 | 79.1 |
| CHECKS | | | | | | | | | | | | | | | |
| 10 HQPM-1 | 84.6 | 81.0 | 82.8 | 82.2 | 80.6 | 80.7 | 85.2 | 74.0 | 80.5 | 79.1 | 78.5 | 78.8 | 82.1 | 83.2 | 80.3 |
| 11 HQPM-5 | 83.5 | 79.0 | 81.2 | 81.8 | 76.1 | 90.5 | 84.2 | 75.0 | 81.5 | 79.4 | 77.1 | 78.0 | 85.7 | 80.1 | 80.0 |
| 12 HQPM-7 | 83.2 | 88.2 | 85.7 | 82.6 | 78.0 | 88.3 | 83.3 | 74.5 | 81.4 | 77.1 | 77.3 | 77.0 | 84.4 | 80.4 | 79.2 |
| Loc. Mean | 84.3 | 82.5 | 83.4 | 82.0 | 81.1 | 86.3 | 84.7 | 73.9 | 81.6 | 78.5 | 78.2 | 76.8 | 84.9 | 81.7 | 80.0 |
| C.D. (5%) | 1.44 | | 7.25 | 2.61 | - | 2.81 | | 1.19 | 3.76 | 1.39 | 0.68 | 0.93 | 2.04 | 3.51 | 1.57 |
| C.V. (%) | 1.01 | | 3.95 | 2.21 | - | 2.26 | | 0.95 | 3.62 | 1.23 | 0.60 | 0.84 | 1.67 | 2.99 | 1.54 |
| F (Prob.) | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.32 |
| ----- | | | | | | | | | | | | | | | |
| SI No. PEDIGREE | ARBH | HYDE | KOLH | MAND | Zone Mean | UDAI | BANS | GODH | CHHI | Zone Mean | OV'L Mean | | | | |
| 1 HQPM-20 | 82.0 | 77.1 | 83.3 | 83.2 | 81.4 | 82.3 | 67.5 | 77.8 | 80.0 | 76.9 | 81.5 | | | | |
| 2 HQPM-21 | 81.7 | 78.3 | 83.1 | 81.9 | 81.3 | 85.9 | 71.2 | 80.5 | 84.9 | 80.6 | 81.3 | | | | |
| 3 BAUQH-8-9-201 | 82.2 | 77.1 | 85.5 | 84.0 | 82.2 | 81.6 | 69.3 | 78.2 | 80.0 | 77.3 | 80.4 | | | | |
| 4 BAUSYN-8-9-501 | 81.2 | 78.6 | 83.7 | 82.3 | 81.4 | 80.8 | 69.3 | 77.0 | 80.8 | 77.0 | 80.6 | | | | |
| 5 BAUSYN-8-9-502 | 82.8 | 77.3 | 84.4 | 81.8 | 81.6 | 77.6 | 75.0 | 77.0 | 82.9 | 78.1 | 81.1 | | | | |
| 6 ECQ-3152 | 80.1 | 74.1 | 82.7 | 82.8 | 79.9 | 77.1 | 75.3 | 70.6 | 86.7 | 77.4 | 80.5 | | | | |
| 7 VEHQ-3019 | 81.6 | 74.1 | 84.5 | 78.8 | 79.7 | 80.9 | 71.8 | 75.6 | 82.6 | 77.7 | 79.7 | | | | |
| 8 BQPMH-282 | 84.2 | 77.7 | 83.5 | 89.3 | 83.6 | 81.5 | 69.4 | 75.2 | 82.2 | 77.1 | 80.3 | | | | |
| 9 JHQPM-304 | 79.1 | 72.3 | 83.8 | 78.4 | 78.4 | 79.5 | 68.3 | 79.1 | 81.2 | 77.0 | 79.4 | | | | |
| CHECKS | | | | | | | | | | | | | | | |
| 10 HQPM-1 | 83.2 | 73.6 | 84.0 | 83.9 | 81.2 | 84.0 | 70.2 | 75.8 | 84.9 | 78.7 | 80.5 | | | | |
| 11 HQPM-5 | 80.0 | 75.2 | 83.3 | 82.5 | 80.2 | 81.0 | 71.8 | 75.7 | 80.6 | 77.3 | 80.0 | | | | |
| 12 HQPM-7 | 83.6 | 75.3 | 82.4 | 82.9 | 81.0 | 81.0 | 69.4 | 69.3 | 78.1 | 74.5 | 79.8 | | | | |
| Loc. Mean | 81.8 | 75.9 | 83.7 | 82.6 | 81.0 | 81.1 | 70.7 | 76.0 | 82.1 | 77.5 | 80.4 | | | | |
| C.D. (5%) | 1.42 | 1.32 | 1.66 | 1.53 | 2.30 | 0.69 | 1.26 | 2.32 | 1.85 | 3.74 | 1.45 | | | | |
| C.V. (%) | 1.21 | 1.21 | 1.38 | 1.29 | 1.97 | 0.50 | 1.24 | 2.12 | 1.33 | 3.35 | 2.90 | | | | |
| F (Prob.) | 0.00 | 0.00 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.13 | | | | |

TABLE No. 28 (Continued)

STAND ('000/ha)

| SI No. PEDIGREE | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | PANT | KANP | Zone Mean | BAHR | DHOL | JASH | VARA | |
|--------------------|------|------|--------------|-------|------|------|------|--------------|--------------|------|------|------|--------------|--------------|
| 1 HQPM-20 | 56 | 83 | 69 | 57 | 61 | 73 | 62 | 76 | 66 | 67 | 48 | 53 | 77 | |
| 2 HQPM-21 | 63 | 70 | 67 | 50 | 65 | 70 | 60 | 88 | 67 | 67 | 51 | 53 | 77 | |
| 3 BAUQH-8-9-201 | 58 | 80 | 69 | 57 | 67 | 69 | 60 | 74 | 65 | 67 | 51 | 54 | 73 | |
| 4 BAUSYN-8-9-501 | 56 | 83 | 69 | 56 | 60 | 71 | 60 | 78 | 65 | 67 | 51 | 55 | 77 | |
| 5 BAUSYN-8-9-502 | 56 | 82 | 69 | 56 | 64 | 69 | 58 | 74 | 64 | 65 | 50 | 58 | 76 | |
| 6 ECQ-3152 | 59 | 77 | 68 | 47 | 65 | 77 | 58 | 76 | 65 | 67 | 48 | 50 | 75 | |
| 7 VEHQ-3019 | 60 | 80 | 70 | 50 | 67 | 74 | 55 | 79 | 65 | 71 | 45 | 51 | 76 | |
| 8 BQPMH-282 | 56 | 79 | 68 | 57 | 60 | 66 | 63 | 73 | 64 | 68 | 44 | 52 | 76 | |
| 9 JHQPM-304 | 55 | 65 | 60 | 50 | 67 | 69 | 57 | 72 | 63 | 72 | 49 | 55 | 72 | |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 61 | 85 | 73 | 61 | 65 | 74 | 60 | 76 | 68 | 65 | 52 | 49 | 77 | |
| 11 HQPM-5 | 55 | 72 | 63 | 57 | 67 | 71 | 62 | 79 | 67 | 67 | 49 | 50 | 70 | |
| 12 HQPM-7 | 64 | 82 | 73 | 63 | 61 | 76 | 59 | 78 | 67 | 68 | 51 | 51 | 81 | |
| Loc. Mean | 58 | 78 | 68 | 55 | 64 | 72 | 60 | 77 | 65 | 68 | 49 | 52 | 75 | |
| C.D. (5%) | 6.3 | 5.2 | 9.5 | 15.1 | 6.1 | 11.0 | 5.4 | 11.0 | 4.7 | 3.7 | 5.5 | 5.4 | 7.8 | |
| C.V. (%) | 6.4 | 4.6 | 6.4 | 19.1 | 6.6 | 10.7 | 6.3 | 8.4 | 5.6 | 3.8 | 7.8 | 7.2 | 7.2 | |
| F (Prob.) | 0.1 | 0.0 | 0.3 | 0.6 | 0.1 | 0.7 | 0.2 | 0.3 | 0.6 | 0.0 | 0.1 | 0.1 | 0.5 | |
| ----- | | | | | | | | | | | | | | |
| SI No. PEDIGREE | RANC | AMBI | Zone Mean | ARBH | HYDE | KOLH | MAND | Zone Mean | UDAI | BANS | GODH | CHHI | Zone Mean | OV'L Mean |
| 1 HQPM-20 | 57 | 52 | 59 | 56 | 56 | 65 | 56 | 58 | 68 | 60 | 79 | 69 | 69 | 63 |
| 2 HQPM-21 | 53 | 53 | 59 | 52 | 48 | 65 | 58 | 56 | 76 | 58 | 75 | 70 | 70 | 63 |
| 3 BAUQH-8-9-201 | 51 | 60 | 59 | 54 | 52 | 67 | 56 | 57 | 68 | 58 | 77 | 69 | 68 | 63 |
| 4 BAUSYN-8-9-501 | 53 | 59 | 60 | 57 | 52 | 67 | 60 | 59 | 66 | 61 | 72 | 69 | 67 | 63 |
| 5 BAUSYN-8-9-502 | 55 | 55 | 60 | 57 | 58 | 66 | 60 | 60 | 66 | 63 | 78 | 68 | 69 | 63 |
| 6 ECQ-3152 | 52 | 50 | 57 | 56 | 49 | 67 | 59 | 58 | 71 | 66 | 79 | 69 | 71 | 63 |
| 7 VEHQ-3019 | 52 | 52 | 58 | 176 | 48 | 66 | 60 | 88 | 71 | 63 | 83 | 67 | 71 | 69 |
| 8 BQPMH-282 | 50 | 60 | 58 | 58 | 56 | 66 | 63 | 60 | 69 | 63 | 74 | 66 | 68 | 63 |
| 9 JHQPM-304 | 47 | 57 | 59 | 50 | 48 | 65 | 57 | 55 | 73 | 60 | 70 | 67 | 67 | 61 |
| CHECKS | | | | | | | | | | | | | | |
| 10 HQPM-1 | 50 | 63 | 59 | 55 | 57 | 66 | 58 | 59 | 70 | 59 | 71 | 69 | 67 | 64 |
| 11 HQPM-5 | 50 | 55 | 57 | 57 | 50 | 61 | 57 | 56 | 63 | 61 | 66 | 70 | 65 | 61 |
| 12 HQPM-7 | 56 | 71 | 63 | 59 | 60 | 65 | 58 | 61 | 69 | 62 | 74 | 69 | 69 | 66 |
| Loc. Mean | 52 | 57 | 59 | 65 | 53 | 65 | 58 | 60 | 69 | 61 | 75 | 69 | 68 | 63 |
| C.D. (5%) | 9.6 | 11.7 | 3.7 | 106.5 | 8.5 | 3.2 | 6.6 | 25.4 | 5.9 | 3.3 | 8.2 | 3.3 | 4.5 | 5.0 |
| C.V. (%) | 12.8 | 14.2 | 5.5 | 113.1 | 11.2 | 3.4 | 7.8 | 29.2 | 5.0 | 3.8 | 7.6 | 2.9 | 4.5 | 13.0 |
| F (Prob.) | 0.7 | 0.1 | 0.1 | 0.6 | 0.0 | 0.1 | 0.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 |

TABLE No. 29

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, DMR DELHI , KARNAL, VARANASI, DHOLI, JASHIPUR, AMBIKAPUR, ARBHAVI, HYDERABAD, KOLHAPUR, UDAIPUR, CHHINDIWARA IN IET & AET 1st YEAR, TRIAL No. TRQPM 2, 3 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | |
|-------|----------------------|-------------------------------------|---|-------|---|-----------|---|-------|---|-------|---|-------|---|-----------|---|-------|---|-------|---|-------|---|
| | | ALMO | | BAJA | | ZN 1 MEAN | | DELH | | KARN | | LUDH | | ZN 2 MEAN | | DHOL | | JASH | | VARA | |
| 1 | VEHQPM-3018 | 3445 | 5 | 5418 | 5 | 4432 | 5 | 455 | 5 | 6450 | 2 | 1594 | 5 | 2833 | 5 | 2222 | 5 | 4012 | 5 | 2817 | 5 |
| 2 | VEHQPM-302 CHECKS | 7762 | 1 | 8829 | 1 | 8296 | 1 | 4112 | 3 | 6006 | 4 | 5182 | 2 | 5100 | 2 | 3963 | 2 | 5088 | 2 | 7867 | 2 |
| 3 | HQPM-1 | 7234 | 2 | 8754 | 2 | 7994 | 2 | 5108 | 2 | 5521 | 5 | 4511 | 3 | 5047 | 3 | 3626 | 3 | 5216 | 1 | 6809 | 4 |
| 4 | HQPM-5 | 7152 | 3 | 7953 | 3 | 7553 | 3 | 3282 | 4 | 6267 | 3 | 4306 | 4 | 4618 | 4 | 3149 | 4 | 4934 | 4 | 7683 | 3 |
| 5 | HQPM-7 | 7080 | 4 | 7931 | 4 | 7505 | 4 | 5906 | 1 | 6511 | 1 | 5894 | 1 | 6104 | 1 | 4359 | 1 | 4972 | 3 | 7956 | 1 |
| | Location Mean | 6535 | | 7777 | | 7156 | | 3773 | | 6151 | | 4297 | | 4740 | | 3464 | | 4844 | | 6627 | |
| | Mean Stand | 42 | | 65 | | 53 | | 54 | | 65 | | 61 | | 60 | | 50 | | 47 | | 74 | |
| | C.D. (5%) | 783 | | 1530 | | 1157 | | 316 | | 1112 | | 2204 | | 1211 | | 1273 | | 1410 | | 206 | |
| | C.V. (%) | 9.92 | | 16.28 | | - | | 6.93 | | 14.95 | | 32.96 | | - | | 30.41 | | 24.09 | | 2.57 | |
| | F (Prob) | 0 | | 0 | | - | | 0 | | 0.558 | | 0 | | - | | 0 | | 0 | | 0 | |
| | Plot Size | 7.2 | | 8.4 | | - | | 11.6 | | 12 | | 9.6 | | - | | 12 | | 9.6 | | 9.6 | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 9-07 | | 1-07 | | - | | 7-06 | | 29-06 | | 10-07 | | - | | 9-07 | | 25-07 | | 2-07 | |
| | Harvest Date | 14-11 | | 3-11 | | - | | 16-10 | | 3-10 | | 23-10 | | - | | - | | 12-11 | | 13-10 | |
| | Irrigation Nos | - | | 3 | | - | | 4 | | 4 | | 6 | | - | | - | | - | | 2 | |
| | Fertilizer Applied N | 100 | | 120 | | - | | 150 | | 150 | | - | | - | | 120 | | 120 | | 100 | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 75 | | 60 | | - | | - | | 60 | | 60 | | 60 | |
| | Fertilizer Applied K | 40 | | 40 | | - | | 75 | | 60 | | - | | - | | 40 | | 60 | | 40 | |

Table No. 29 (Continued)

| GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------------------|-------|------|------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|------|------|------|---|
| S1 | AMBI | | ZN 3 | | ARBH | | HYDE | | KOLH | | ZN 4 | | UDAI | | CHHI | | ZN 5 | | OV'L | | |
| No | PEDIGREE | R | MEAN | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | |
| 1 | VEHQPM-3018 | 1845 | 5 | 2724 | 5 | 4358 | 5 | 4039 | 5 | 4938 | 5 | 4445 | 5 | 3803 | 5 | 1652 | 5 | 2728 | 5 | 3361 | 5 |
| 2 | VEHQPM-302 | 4855 | 2 | 5443 | 2 | 6998 | 1 | 5299 | 3 | 7203 | 1 | 6500 | 2 | 6753 | 3 | 5094 | 1 | 5923 | 2 | 6072 | 2 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 3 | HQPM-1 | 4711 | 3 | 5090 | 3 | 5565 | 3 | 5446 | 2 | 7077 | 3 | 6029 | 3 | 7598 | 1 | 5090 | 2 | 6344 | 1 | 5876 | 3 |
| 4 | HQPM-5 | 4066 | 4 | 4958 | 4 | 5524 | 4 | 4638 | 4 | 6494 | 4 | 5552 | 4 | 7258 | 2 | 3775 | 4 | 5516 | 3 | 5463 | 4 |
| 5 | HQPM-7 | 4929 | 1 | 5554 | 1 | 6809 | 2 | 7045 | 1 | 7132 | 2 | 6996 | 1 | 5894 | 4 | 5019 | 3 | 5456 | 4 | 6246 | 1 |
| | Location Mean | 4081 | | 4754 | | 5851 | | 5294 | | 6569 | | 5904 | | 6261 | | 4126 | | 5194 | | 5404 | |
| | Mean Stand | 65 | | 59 | | 50 | | 64 | | 78 | | 64 | | 59 | | 76 | | 67 | | 61 | |
| | C.D. (5%) | 1449 | | 1085 | | 1315 | | 1003 | | 769 | | 1029 | | 667 | | 1265 | | 966 | | 1093 | |
| | C.V. (%) | 29.39 | | - | | 18.6 | | 15.68 | | 9.69 | | - | | 6.84 | | 25.38 | | - | | - | |
| | F (Prob) | 0 | | | | 0 | | 0 | | 0 | | | | 0 | | 0 | | | | | |
| | Plot Size | 12 | | - | | 12 | | 12 | | 12 | | - | | 9.6 | | 12 | | - | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 7-07 | | - | | 17-07 | | 7-07 | | 12-07 | | - | | 29-06 | | 14-07 | | - | | - | |
| | Harvest Date | - | | - | | 6-11 | | 12-11 | | 7-12 | | - | | 6-10 | | 20-11 | | - | | - | |
| | Irrigation Nos | - | | - | | 6 | | 2 | | - | | - | | 2 | | - | | - | | - | |
| | Fertilizer Applied N | 120 | | - | | 150 | | 180 | | 120 | | - | | 90 | | 120 | | - | | - | |
| | Fertilizer Applied P | 60 | | - | | 75 | | 60 | | 60 | | - | | 60 | | 60 | | - | | - | |
| | Fertilizer Applied K | 40 | | - | | 37.5 | | 50 | | 40 | | - | | - | | 40 | | - | | - | |

Table No. 29 (Continued)

| | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | | | | | |
|--------|-------------|---|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | ZN 1 | | | ZN 2 | | | ZN 3 | | | | | |
| No | PEDIGREE | ALMO | BAJA | MEAN | DELH | KARN | LUDH | MEAN | DHOL | JASH | VARA | AMBI | MEAN |
| 1 | VEHQPM-3018 | - | - | - | - | 16.8 | - | - | - | - | - | - | - |
| 2 | VEHQPM-302 | 7.3 | 0.9 | 3.8 | - | 8.8 | 14.9 | 1.1 | 9.3 | - | 15.5 | 3.1 | 6.9 |
| CHECKS | | | | | | | | | | | | | |
| 3 | HQPM-1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | HQPM-5 | - | - | - | - | 13.5 | - | - | - | - | 12.8 | - | - |
| 5 | HQPM-7 | - | - | - | 15.6 | 17.9 | 30.7 | 21 | 20.2 | - | 16.8 | 4.6 | 9.1 |

| | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | OV'L | |
|--------|-------------|---|------|------|------|------|------|------|------|------|
| S1 | | ZN 4 | | | ZN 5 | | OV'L | | | |
| No | PEDIGREE | ARBH | HYDE | KOLH | MEAN | UDAI | CHHI | MEAN | MEAN | MEAN |
| 1 | VEHQPM-3018 | - | - | - | - | - | - | - | - | - |
| 2 | VEHQPM-302 | 25.7 | - | 1.8 | 7.8 | - | 0.1 | - | - | 3.3 |
| CHECKS | | | | | | | | | | |
| 3 | HQPM-1 | - | - | - | - | - | - | - | - | - |
| 4 | HQPM-5 | - | - | - | - | - | - | - | - | - |
| 5 | HQPM-7 | 22.4 | 29.4 | 0.8 | 16 | - | - | - | - | 6.3 |

Table No. 29 (Continued)

| | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-5 | | | | | | | | | | | |
|----|-------------|---|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | ZN 1 | | | ZN 2 | | | ZN 3 | | | | | |
| No | PEDIGREE | ALMO | BAJA | MEAN | DELH | KARN | LUDH | MEAN | DHOL | JASH | VARA | AMBI | MEAN |
| 1 | VEHQPM-3018 | - | - | - | - | 2.9 | - | - | - | - | - | - | - |
| 2 | VEHQPM-302 | 8.5 | 11 | 9.8 | 25.3 | - | 20.4 | 10.4 | 25.9 | 3.1 | 2.4 | 19.4 | 9.8 |
| | CHECKS | | | | | | | | | | | | |
| 3 | HQPM-1 | 1.1 | 10.1 | 5.8 | 55.6 | - | 4.8 | 9.3 | 15.2 | 5.7 | - | 15.9 | 2.7 |
| 4 | HQPM-5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | HQPM-7 | - | - | - | 79.9 | 3.9 | 36.9 | 32.2 | 38.4 | 0.8 | 3.6 | 21.2 | 12 |

| | | ZN 4 | | | | | | | ZN 5 | OV'L |
|----|-------------|------|------|------|------|------|------|------|------|------|
| S1 | | ARBH | HYDE | KOLH | MEAN | UDAI | CHHI | MEAN | MEAN | |
| 1 | VEHQPM-3018 | - | - | - | - | - | - | - | - | |
| 2 | VEHQPM-302 | 26.7 | 14.2 | 10.9 | 17.1 | - | 34.9 | 7.4 | 11.2 | |
| | CHECKS | | | | | | | | | |
| 3 | HQPM-1 | 0.8 | 17.4 | 9 | 8.6 | 4.7 | 34.8 | 15 | 7.6 | |
| 4 | HQPM-5 | - | - | - | - | - | - | - | - | |
| 5 | HQPM-7 | 23.3 | 51.9 | 9.8 | 26 | - | 33 | - | 14.3 | |

Table No. 29 (Continued)

| | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | | |
|----|-------------|---|------|------|------|------|------|------|------|------|------|------|------|
| S1 | | ZN 1 | | | ZN 2 | | | ZN 3 | | | | | |
| No | PEDIGREE | ALMO | BAJA | MEAN | DELH | KARN | LUDH | MEAN | DHOL | JASH | VARA | AMBI | MEAN |
| 1 | VEHQPM-3018 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | VEHQPM-302 | 9.6 | 11.3 | 10.5 | - | - | - | - | - | 2.3 | - | - | - |
| | CHECKS | | | | | | | | | | | | |
| 3 | HQPM-1 | 2.2 | 10.4 | 6.5 | - | - | - | - | - | 4.9 | - | - | - |
| 4 | HQPM-5 | 1 | 0.3 | 0.6 | - | - | - | - | - | - | - | - | - |
| 5 | HQPM-7 | - | - | - | - | - | - | - | - | - | - | - | - |

| | | ZN 4 | | | | | | | ZN 5 | OV'L |
|----|-------------|------|------|------|------|------|------|------|------|------|
| S1 | | ARBH | HYDE | KOLH | MEAN | UDAI | CHHI | MEAN | MEAN | |
| 1 | VEHQPM-3018 | - | - | - | - | - | - | - | - | |
| 2 | VEHQPM-302 | 2.8 | - | 1 | - | 14.6 | 1.5 | 8.6 | - | |
| | CHECKS | | | | | | | | | |
| 3 | HQPM-1 | - | - | - | - | 28.9 | 1.4 | 16.3 | - | |
| 4 | HQPM-5 | - | - | - | - | 23.1 | - | 1.1 | - | |
| 5 | HQPM-7 | - | - | - | - | - | - | - | - | |

Table No. 29 (Continued)

| SI No. PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | Zone Mean | DHOL | JASH | VARA | AMBI | Zone Mean |
|--------------------|-------------------------|------|--------------|------|------|------|--------------|--------------|------|------|------|------|--------------|
| | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | Zone Mean | | | | | | |
| 1 VEHQPM-3018 | 65.3 | 65.5 | 65.4 | 65.0 | 52.8 | 62.3 | 60.0 | 62.7 | 56.7 | 57.8 | 51.8 | 57.3 | |
| 2 VEHQPM-302 | 55.8 | 55.3 | 55.6 | 56.3 | 49.7 | 56.3 | 54.1 | 57.8 | 50.2 | 51.2 | 49.3 | 52.1 | |
| CHECKS | | | | | | | | | | | | | |
| 3 HQPM-1 | 55.8 | 58.7 | 57.3 | 54.5 | 51.2 | 57.0 | 54.2 | 56.2 | 49.8 | 50.7 | 49.2 | 51.5 | |
| 4 HQPM-5 | 58.0 | 60.5 | 59.3 | 53.8 | 51.0 | 56.0 | 53.6 | 55.3 | 50.5 | 51.8 | 52.8 | 52.6 | |
| 5 HQPM-7 | 56.5 | 57.7 | 57.1 | 51.5 | 47.8 | 55.5 | 51.6 | 57.3 | 51.7 | 48.8 | 50.2 | 52.0 | |
| Loc. Mean | 58.3 | 59.5 | 58.9 | 56.2 | 50.5 | 57.4 | 54.7 | 57.9 | 51.8 | 52.1 | 50.7 | 53.1 | |
| C.D. (5%) | 0.97 | 1.54 | 2.83 | 1.36 | 5.73 | 5.09 | 3.85 | 3.53 | 1.71 | 0.56 | 0.45 | 2.52 | |
| C.V. (%) | 1.38 | 2.15 | 1.73 | 2.00 | 9.42 | 5.75 | 3.73 | 5.07 | 2.75 | 0.90 | 0.74 | 3.09 | |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| SI No. PEDIGREE | ARBH | HYDE | KOLH | Zone | | | Zone Mean | OV'L Mean |
|--------------------|------|------|------|------|------|--------------|--------------|--------------|
| | | | | UDAI | CHHI | Zone Mean | | |
| 1 VEHQPM-3018 | 57.3 | 53.8 | 63.0 | 58.1 | 59.3 | 63.5 | 61.4 | 59.8 |
| 2 VEHQPM-302 | 58.0 | 57.0 | 59.5 | 58.2 | 54.8 | 57.7 | 56.2 | 54.9 |
| CHECKS | | | | | | | | |
| 3 HQPM-1 | 57.2 | 57.2 | 59.7 | 58.0 | 53.5 | 54.3 | 53.9 | 54.6 |
| 4 HQPM-5 | 57.8 | 57.2 | 61.3 | 58.8 | 54.5 | 58.3 | 56.4 | 55.6 |
| 5 HQPM-7 | 58.0 | 56.7 | 59.7 | 58.1 | 55.5 | 57.2 | 56.3 | 54.6 |
| Loc. Mean | 57.7 | 56.4 | 60.6 | 58.2 | 55.5 | 58.2 | 56.9 | 55.9 |
| C.D. (5%) | 1.37 | 0.97 | 1.34 | 2.73 | 0.92 | 0.72 | 2.83 | 1.52 |
| C.V. (%) | 1.97 | 1.42 | 1.84 | 2.49 | 1.08 | 1.03 | 1.79 | 3.57 |
| F (Prob.) | 0.60 | 0.00 | 0.00 | 0.96 | 0.00 | 0.00 | 0.01 | 0.00 |

Table No. 29 (Continued)

| SI No. PEDIGREE | DAYS TO 50% SILKING | | | | | | | Zone Mean | DHOL | JASH | VARA | AMBI | Zone Mean |
|--------------------|---------------------|------|--------------|------|------|------|--------------|--------------|------|------|------|------|--------------|
| | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | Zone Mean | | | | | | |
| 1 VEHQPM-3018 | 65.8 | 69.5 | 67.7 | 68.2 | 59.8 | 65.5 | 64.5 | 65.2 | 60.5 | 63.8 | 53.8 | 60.8 | |
| 2 VEHQPM-302 | 57.3 | 57.7 | 57.5 | 59.0 | 50.0 | 60.3 | 56.4 | 59.8 | 52.5 | 55.7 | 52.3 | 55.1 | |
| CHECKS | | | | | | | | | | | | | |
| 3 HQPM-1 | 56.8 | 61.0 | 58.9 | 57.5 | 51.5 | 61.0 | 56.7 | 57.7 | 51.8 | 55.3 | 52.2 | 54.3 | |
| 4 HQPM-5 | 59.3 | 62.8 | 61.1 | 57.0 | 51.7 | 59.8 | 56.1 | 56.7 | 52.7 | 55.7 | 54.8 | 55.0 | |
| 5 HQPM-7 | 57.8 | 59.8 | 58.8 | 53.8 | 49.7 | 59.0 | 54.2 | 59.2 | 52.2 | 52.7 | 52.5 | 54.1 | |
| Loc. Mean | 59.4 | 62.2 | 60.8 | 59.1 | 52.5 | 61.1 | 57.6 | 59.7 | 53.9 | 56.6 | 53.1 | 55.9 | |
| C.D. (5%) | 1.07 | 0.78 | 3.07 | 1.02 | 3.19 | 5.58 | 3.09 | 3.69 | 0.67 | 0.74 | 0.67 | 3.06 | |
| C.V. (%) | 1.50 | 1.04 | 1.82 | 1.44 | 5.05 | 5.93 | 2.85 | 5.13 | 1.03 | 1.09 | 1.05 | 3.56 | |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| SI No. PEDIGREE | ARBH | HYDE | KOLH | Zone | | | Zone Mean | OV'L Mean |
|--------------------|------|------|------|------|------|------|--------------|--------------|
| | | | | Mean | UDAI | CHHI | | |
| 1 VEHQPM-3018 | 59.3 | 56.5 | 64.0 | 59.9 | 62.5 | 65.3 | 63.9 | 62.8 |
| 2 VEHQPM-302 | 59.2 | 59.3 | 60.5 | 59.7 | 57.0 | 58.3 | 57.7 | 57.1 |
| CHECKS | | | | | | | | |
| 3 HQPM-1 | 58.5 | 57.8 | 60.7 | 59.0 | 54.8 | 55.5 | 55.1 | 56.6 |
| 4 HQPM-5 | 59.2 | 59.2 | 62.3 | 60.2 | 56.0 | 58.8 | 57.4 | 57.6 |
| 5 HQPM-7 | 59.2 | 58.8 | 60.7 | 59.6 | 58.0 | 58.2 | 58.1 | 56.5 |
| Loc. Mean | 59.1 | 58.3 | 61.6 | 59.7 | 57.7 | 59.2 | 58.4 | 58.1 |
| C.D. (5%) | 1.86 | 0.74 | 1.34 | 2.37 | 1.35 | 0.59 | 2.38 | 1.58 |
| C.V. (%) | 2.61 | 1.05 | 1.81 | 2.11 | 1.52 | 0.83 | 1.47 | 3.59 |
| F (Prob.) | 0.90 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 29 (Continued)

| SI No. PEDIGREE | DAYS TO 50% DRY HUSK | | | | | | | | | | | |
|--------------------|----------------------|-------|--------------|------|------|------|--------------|-------|-------|------|------|--------------|
| | ALMO | BAJA | Zone Mean | DELH | KARN | LUDH | Zone Mean | DHOL | JASH | VARA | AMBI | Zone Mean |
| 1 VEHQPM-3018 | 119.2 | 115.0 | 117.1 | 95.7 | 82.0 | 98.0 | 91.9 | 100.0 | 100.2 | 97.7 | 94.5 | 98.1 |
| 2 VEHQPM-302 | 113.8 | 107.3 | 110.6 | 93.8 | 83.0 | 99.0 | 91.9 | 100.5 | 106.5 | 95.2 | 93.8 | 99.0 |
| CHECKS | | | | | | | | | | | | |
| 3 HQPM-1 | 113.8 | 114.0 | 113.9 | 91.5 | 81.0 | 99.3 | 90.6 | 100.5 | 95.3 | 95.5 | 91.3 | 95.7 |
| 4 HQPM-5 | 111.3 | 107.8 | 109.6 | 94.0 | 81.7 | 95.5 | 90.4 | 97.8 | 92.8 | 90.7 | 91.5 | 93.2 |
| 5 HQPM-7 | 112.0 | 109.8 | 110.9 | 92.7 | 83.2 | 95.0 | 90.3 | 98.3 | 94.3 | 89.0 | 91.8 | 93.4 |
| Loc. Mean | 114.0 | 110.8 | 112.4 | 93.5 | 82.2 | 97.4 | 91.0 | 99.4 | 97.8 | 93.6 | 92.6 | 95.9 |
| C.D. (5%) | 1.75 | 1.38 | 4.84 | 2.31 | 1.19 | 4.54 | 3.02 | 2.04 | 13.93 | 1.29 | 0.95 | 3.96 |
| C.V. (%) | 1.27 | 1.03 | 1.55 | 2.05 | 1.20 | 3.02 | 1.76 | 1.70 | 11.82 | 1.15 | 0.85 | 2.68 |
| F (Prob.) | 0.00 | 0.00 | 0.05 | 0.02 | 0.01 | 0.19 | 0.56 | 0.03 | 0.27 | 0.00 | 0.00 | 0.02 |

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

Table No. 29 (Continued)

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

Table No. 29 (Continued)

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

Table No. 29 (Continued)

| SI No. PEDIGREE | EAR HEIGHT CM | | | | | | | Zone Mean | Zone Mean | Zone Mean | Zone Mean | Zone Mean |
|--------------------|---------------|------|------|------|------|------|------|--------------|--------------|--------------|--------------|--------------|
| | ALMO | BAJA | DELH | KARN | LUDH | DHOL | JASH | | | | | |
| 1 VEHQPM-3018 | 120 | 81 | 100 | 73 | 83 | 71 | 76 | 53 | 61 | 78 | 83 | 69 |
| 2 VEHQPM-302 | 129 | 88 | 109 | 77 | 88 | 83 | 82 | 68 | 66 | 103 | 80 | 79 |
| CHECKS | | | | | | | | | | | | |
| 3 HQPM-1 | 117 | 82 | 99 | 80 | 88 | 79 | 82 | 66 | 68 | 100 | 84 | 80 |
| 4 HQPM-5 | 147 | 111 | 129 | 99 | 102 | 101 | 101 | 84 | 83 | 123 | 109 | 100 |
| 5 HQPM-7 | 128 | 94 | 111 | 87 | 101 | 93 | 94 | 78 | 71 | 113 | 99 | 90 |
| Loc. Mean | 128 | 91 | 110 | 83 | 92 | 85 | 87 | 70 | 70 | 103 | 91 | 83 |
| C.D. (5%) | 8.5 | 15.8 | 5.7 | 13.1 | 6.3 | 14.0 | 5.4 | 8.4 | 5.3 | 3.2 | 7.6 | 8.5 |
| C.V. (%) | 5.5 | 14.4 | 1.9 | 13.1 | 5.6 | 10.7 | 3.3 | 10.0 | 6.3 | 2.6 | 6.9 | 6.6 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| SI No. PEDIGREE | ARBH | HYDE | KOLH | Zone Mean | UDAI | CHHI | Zone Mean | OV'L |
|--------------------|------|------|------|--------------|------|------|--------------|------|
| | | | | | | | | Mean |
| 1 VEHQPM-3018 | 70 | 79 | 93 | 81 | 93 | 69 | 81 | 79 |
| 2 VEHQPM-302 | 73 | 89 | 94 | 85 | 94 | 89 | 91 | 87 |
| CHECKS | | | | | | | | |
| 3 HQPM-1 | 70 | 85 | 101 | 85 | 98 | 87 | 92 | 86 |
| 4 HQPM-5 | 74 | 104 | 110 | 96 | 118 | 108 | 113 | 105 |
| 5 HQPM-7 | 73 | 103 | 108 | 95 | 91 | 98 | 95 | 96 |
| Loc. Mean | 72 | 92 | 101 | 88 | 99 | 90 | 94 | 91 |
| C.D. (5%) | 2.0 | 10.1 | 9.8 | 9.8 | 7.0 | 5.5 | 21.6 | 4.0 |
| C.V. (%) | 2.3 | 9.1 | 8.1 | 5.9 | 4.6 | 5.1 | 8.2 | 5.8 |
| F (Prob.) | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.09 | 0.00 |

Table No. 29 (Continued)

| SI No. PEDIGREE | SHELLING % | | | | | | Zone Mean | Zone Mean | JASH | VARA | AMBI | Zone Mean |
|--------------------|------------|------|------|--------------|------|------|--------------|--------------|------|------|------|--------------|
| | ALMO | BAJA | DELH | KARN | LUDH | | | | | | | |
| 1 VEHQPM-3018 | 81.6 | 79.5 | 80.5 | 75.1 | 80.0 | 71.9 | 75.7 | 77.6 | 74.5 | 84.1 | 78.7 | |
| 2 VEHQPM-302 | 84.1 | 77.1 | 80.6 | 84.9 | 83.3 | 81.2 | 83.1 | 78.8 | 77.8 | 84.4 | 80.3 | |
| CHECKS | | | | | | | | | | | | |
| 3 HQPM-1 | 84.8 | 78.5 | 81.6 | 84.6 | 77.6 | 81.7 | 81.3 | 80.1 | 79.5 | 84.0 | 81.2 | |
| 4 HQPM-5 | 82.7 | 80.2 | 81.4 | 83.5 | 81.9 | 77.5 | 81.0 | 77.3 | 77.8 | 83.1 | 79.4 | |
| 5 HQPM-7 | 83.0 | 80.6 | 81.8 | 81.6 | 81.5 | 77.0 | 80.0 | 77.2 | 76.5 | 84.1 | 79.3 | |
| Loc. Mean | 83.2 | 79.2 | 81.2 | 82.0 | 80.9 | 77.9 | 80.2 | 78.2 | 77.2 | 83.9 | 79.8 | |
| C.D. (5%) | 0.84 | - | 4.62 | 3.34 | - | 0.68 | 4.84 | 0.27 | 0.35 | 2.80 | 2.04 | |
| C.V. (%) | 0.83 | - | 2.05 | 3.38 | - | 0.56 | 3.20 | 0.28 | 0.37 | 2.77 | 1.36 | |
| F (Prob.) | 0.00 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.90 | 0.13 | |
| SI No. PEDIGREE | | | | Zone Mean | UDAI | CHHI | Zone Mean | OV'L Mean | | | | |
| | ARBH | HYDE | KOLH | | | | | | | | | |
| 1 VEHQPM-3018 | 81.5 | 75.2 | 84.0 | 80.2 | 80.6 | 78.1 | 79.4 | 78.7 | | | | |
| 2 VEHQPM-302 | 84.1 | 77.6 | 87.1 | 82.9 | 82.2 | 83.9 | 83.0 | 82.0 | | | | |
| CHECKS | | | | | | | | | | | | |
| 3 HQPM-1 | 82.5 | 76.6 | 86.8 | 82.0 | 83.0 | 85.7 | 84.4 | 82.0 | | | | |
| 4 HQPM-5 | 81.2 | 76.4 | 88.2 | 81.9 | 82.0 | 82.7 | 82.4 | 81.1 | | | | |
| 5 HQPM-7 | 82.8 | 74.3 | 85.1 | 80.7 | 81.2 | 84.5 | 82.8 | 80.7 | | | | |
| Loc. Mean | 82.4 | 76.0 | 86.2 | 81.5 | 81.8 | 83.0 | 82.4 | 80.9 | | | | |
| C.D. (5%) | 1.70 | 2.84 | 0.25 | 2.02 | 1.44 | 2.91 | 4.53 | 1.39 | | | | |
| C.V. (%) | 1.71 | 3.10 | 0.24 | 1.31 | 1.14 | 2.91 | 1.98 | 2.18 | | | | |
| F (Prob.) | 0.02 | 0.19 | 0.00 | 0.09 | 0.03 | 0.00 | 0.19 | 0.00 | | | | |

Table No. 29 (Continued)

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

Table No. 30

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

| SI No. PEDIGREE | Green Ear yield (kg/ha) | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------------------|---|-------|---|-------|---|------|---|-------|---|-------|---|------|---|-------|---|------|---|-------|---|
| | ZN 1 | | | | | | ZN 2 | | | | | | ZN 4 | | | | OV'L | | | |
| | ALMO | R | BAJA | R | Mean | R | DELH | R | KARN | R | Mean | R | ARBH | R | HYDE | R | Mean | R | Mean | R |
| 1 SWEET CORN HYBRID | 11778 | 3 | 17547 | 7 | 14663 | 6 | 5685 | 2 | 9333 | 6 | 7509 | 5 | 2611 | 4 | 10583 | 8 | 6597 | 8 | 9590 | 7 |
| 2 ORISSA SWEET - 1 | 11963 | 2 | 18217 | 6 | 15090 | 4 | 4673 | 7 | 8667 | 8 | 6670 | 9 | 2889 | 2 | 13639 | 3 | 8264 | 3 | 10008 | 6 |
| 3 ORISSA SWEET - 2 | 9556 | 7 | 18957 | 5 | 14256 | 7 | 3274 | 9 | 12519 | 2 | 7896 | 3 | 2722 | 3 | 15361 | 2 | 9042 | 2 | 10398 | 5 |
| 4 DULCINO AMINO x HKI SCST | 13370 | 1 | 24565 | 2 | 18968 | 1 | 5119 | 5 | 10148 | 4 | 7634 | 4 | 2722 | 3 | 11861 | 6 | 7292 | 6 | 11298 | 2 |
| 5 HKI SCST x INSEC 2 | 9259 | 8 | 20868 | 4 | 15064 | 5 | 5833 | 1 | 11037 | 3 | 8435 | 2 | 3278 | 1 | 15500 | 1 | 9389 | 1 | 10963 | 3 |
| 6 HKI SCST x CUBA 379 | 10889 | 5 | 25678 | 1 | 18283 | 2 | 5286 | 4 | 17778 | 1 | 11532 | 1 | 2556 | 5 | 12444 | 5 | 7500 | 4 | 12438 | 1 |
| 7 DMSC 16 x CUBA 379 | 11519 | 4 | 23149 | 3 | 17334 | 3 | 4286 | 8 | 9926 | 5 | 7106 | 6 | 2444 | 6 | 11083 | 7 | 6764 | 7 | 10401 | 4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 9222 | 9 | 17350 | 8 | 13286 | 9 | 5357 | 3 | 8074 | 9 | 6716 | 8 | 1944 | 8 | 8444 | 9 | 5194 | 9 | 8399 | 9 |
| 9 MADHURI SWEET CORN | 9963 | 6 | 16728 | 9 | 13345 | 8 | 4970 | 6 | 8741 | 7 | 6855 | 7 | 2111 | 7 | 12500 | 4 | 7306 | 5 | 9169 | 8 |
| Loc. Mean | 10835 | | 20340 | | 15588 | | 4942 | | 10691 | | 7817 | | 2586 | | 12380 | | 7483 | | 10296 | |
| C.D. (5%) | 2061 | | 2939 | | 4948 | | 2425 | | 1986 | | 5128 | | 467 | | 2732 | | 3220 | | 2308 | |
| C.V. (%) | 11.0 | | 6.3 | | 13.8 | | 28.4 | | 10.7 | | 28.5 | | 10.4 | | 12.8 | | 18.7 | | 19.2 | |
| F (Prob.) | 0.01 | | 0.00 | | 0.19 | | 0.51 | | 0.00 | | 0.54 | | 0.00 | | 0.00 | | 0.23 | | 0.05 | |

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

Table No. 30 (Continued)

| SI No. PEDIGREE | GREEN EAR YIELD % SUPERIORITY OVER THE MADHURI SWEET CORN | | | | | | | | | |
|----------------------------|---|------|--------------|-------|-------|--------------|------|-------|--------------|--------------|
| | ALMO | BAJA | ZN 1 Mean | DELH | KARN | ZN 2 Mean | ARBH | HYDE | ZN 4 Mean | OV'L Mean |
| 1 SWEET CORN HYBRID | 18.2 | 4.9 | 9.9 | 14.4 | 6.8 | 9.5 | 23.7 | - | - | 4.6 |
| 2 ORISSA SWEET - 1 | 20.1 | 8.9 | 13.1 | -6.0 | -0.8 | -2.7 | 36.9 | 9.1 | 13.1 | 9.2 |
| 3 ORISSA SWEET - 2 | -4.1 | 13.3 | 6.8 | -34.1 | 43.2 | 15.2 | 28.9 | 22.9 | 23.8 | 13.4 |
| 4 DULCINO AMINO x HKI SCST | 34.2 | 46.8 | 42.1 | 3.0 | 16.1 | 11.4 | 28.9 | -5.1 | -0.2 | 23.2 |
| 5 HKI SCST x INSEC 2 | -7.1 | 24.7 | 12.9 | 17.4 | 26.3 | 23.0 | 55.3 | 24.0 | 28.5 | 19.6 |
| 6 HKI SCST x CUBA 379 | 9.3 | 53.5 | 37.0 | 6.4 | 103.4 | 68.2 | 21.1 | -0.4 | 2.7 | 35.7 |
| 7 DMSC 16 x CUBA 379 | 15.6 | 38.4 | 29.9 | -13.8 | 13.6 | 3.7 | 15.8 | -11.3 | -7.4 | 13.4 |
| CHECKS | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | -7.4 | 3.7 | -0.4 | 7.8 | -7.6 | -2.0 | -7.9 | -32.4 | -28.9 | -8.4 |
| 9 MADHURI SWEET CORN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Loc. Mean | 8.8 | 21.6 | 16.8 | -0.6 | 22.3 | 14.0 | 22.5 | -1.0 | 2.4 | 12.3 |

| SI No. PEDIGREE | Fodder yield (kg/ha) | | | | | | FODDER YIELD % SUPERIORITY OVER THE WIN ORANGE SWEET CORN | | | FODDER YIELD % SUPERIORITY OVER THE MADHURI SWEET CORN | | |
|----------------------------|----------------------|---|-------|---|-------|---|---|------|------|--|------|------|
| | DELH | R | HYDE | R | Mean | R | DELH | HYDE | Mean | DELH | HYDE | Mean |
| 1 SWEET CORN HYBRID | 16220 | 5 | 15139 | 5 | 15680 | 5 | 18.2 | 18.2 | 18.2 | 3.8 | 3.8 | 3.8 |
| 2 ORISSA SWEET - 1 | 12857 | 9 | 12000 | 9 | 12429 | 9 | - | - | - | - | - | - |
| 3 ORISSA SWEET - 2 | 13899 | 7 | 12972 | 7 | 13436 | 7 | 1.3 | 1.3 | 1.3 | - | - | - |
| 4 DULCINO AMINO x HKI SCST | 21042 | 2 | 19639 | 2 | 20340 | 2 | 53.4 | 53.4 | 53.4 | 34.7 | 34.7 | 34.7 |
| 5 HKI SCST x INSEC 2 | 19851 | 4 | 18528 | 4 | 19189 | 4 | 44.7 | 44.7 | 44.7 | 27.0 | 27.1 | 27.0 |
| 6 HKI SCST x CUBA 379 | 23214 | 1 | 21667 | 1 | 22440 | 1 | 69.2 | 69.2 | 69.2 | 48.6 | 48.6 | 48.6 |
| 7 DMSC 16 x CUBA 379 | 20268 | 3 | 18917 | 3 | 19592 | 3 | 47.7 | 47.7 | 47.7 | 29.7 | 29.7 | 29.7 |
| CHECKS | | | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 13720 | 8 | 12806 | 8 | 13263 | 8 | - | - | - | - | - | - |
| 9 MADHURI SWEET CORN | 15625 | 6 | 14583 | 6 | 15104 | 6 | 13.9 | 13.9 | 13.9 | - | - | - |
| Loc. Mean | 17411 | | 16250 | | 16830 | | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| C.D. (5%) | 2963 | | 2765 | | 407 | | | | | | | |
| C.V. (%) | 9.83 | | 9.83 | | 1.05 | | | | | | | |
| F (Prob.) | 0.00 | | 0.00 | | 0.00 | | | | | | | |

Table No. 30 (Continued)

| SI No. PEDIGREE | cob yield (kg/ha) | | | | | | | | | | | | | |
|----------------------------|-------------------|---|-------|---|----------------|---|------|---|-------|---|----------------|---|----------------|---|
| | DELH | | KARN | | ZN 2 Mean R | | DHOL | | JASH | | ZN 3 Mean R | | | |
| 1 SWEET CORN HYBRID | 4077 | 1 | 6667 | 4 | 5372 | 2 | 1306 | 4 | 8715 | 5 | 5010 | 5 | | |
| 2 ORISSA SWEET - 1 | 2738 | 6 | 5852 | 6 | 4295 | 8 | 389 | 8 | 10625 | 3 | 5507 | 4 | | |
| 3 ORISSA SWEET - 2 | 2083 | 9 | 7630 | 2 | 4856 | 5 | 583 | 6 | 5625 | 9 | 3104 | 9 | | |
| 4 DULCINO AMINO x HKI SCST | 3720 | 3 | 6741 | 3 | 5230 | 3 | 1750 | 2 | 6701 | 6 | 4226 | 6 | | |
| 5 HKI SCST x INSEC 2 | 3750 | 2 | 6667 | 4 | 5208 | 4 | 833 | 5 | 11042 | 1 | 5938 | 3 | | |
| 6 HKI SCST x CUBA 379 | 3214 | 5 | 10148 | 1 | 6681 | 1 | 1472 | 3 | 10868 | 2 | 6170 | 2 | | |
| 7 DMSC 16 x CUBA 379 | 2619 | 7 | 6296 | 5 | 4458 | 7 | 3500 | 1 | 10486 | 4 | 6993 | 1 | | |
| CHECKS | | | | | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 3274 | 4 | 5852 | 6 | 4563 | 6 | 583 | 6 | 6007 | 8 | 3295 | 8 | | |
| 9 MADHURI SWEET CORN | 2589 | 8 | 5852 | 6 | 4221 | 9 | 444 | 7 | 6319 | 7 | 3382 | 7 | | |
| Loc. Mean | 3118 | | 6856 | | 4987 | | 1207 | | 8488 | | 4847 | | | |
| C.D. (5%) | 1633 | | 2482 | | 2443 | | 523 | | 550 | | 3542 | | | |
| C.V. (%) | 30.3 | | 20.9 | | 21.2 | | 25.1 | | 3.8 | | 31.7 | | | |
| F (Prob.) | 0.25 | | 0.04 | | 0.48 | | 0.00 | | 0.00 | | 0.24 | | | |
| SI No. PEDIGREE | cob yield (kg/ha) | | | | | | | | | | | | | |
| | ARBH | | HYDE | | ZN 4 Mean R | | UDAI | | CHHI | | ZN 5 Mean R | | OV'L Mean R | |
| 1 SWEET CORN HYBRID | 1778 | 2 | 7306 | 8 | 4542 | 7 | 5486 | 8 | 3056 | 3 | 4271 | 5 | 4799 | 6 |
| 2 ORISSA SWEET - 1 | 1778 | 2 | 10500 | 2 | 6139 | 2 | 6198 | 5 | 1583 | 8 | 3891 | 7 | 4958 | 5 |
| 3 ORISSA SWEET - 2 | 1778 | 2 | 9389 | 4 | 5583 | 3 | 6892 | 2 | 1778 | 7 | 4335 | 4 | 4470 | 7 |
| 4 DULCINO AMINO x HKI SCST | 1833 | 1 | 9250 | 5 | 5542 | 4 | 8003 | 1 | 3444 | 2 | 5724 | 1 | 5180 | 2 |
| 5 HKI SCST x INSEC 2 | 1778 | 2 | 11083 | 1 | 6431 | 1 | 5503 | 7 | 3722 | 1 | 4613 | 3 | 5547 | 1 |
| 6 HKI SCST x CUBA 379 | 1611 | 3 | 7583 | 6 | 4597 | 6 | 3958 | 9 | 2306 | 5 | 3132 | 9 | 5145 | 4 |
| 7 DMSC 16 x CUBA 379 | 1500 | 4 | 7361 | 7 | 4431 | 8 | 6667 | 3 | 2917 | 4 | 4792 | 2 | 5168 | 3 |
| CHECKS | | | | | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 1278 | 6 | 5833 | 9 | 3556 | 9 | 5625 | 6 | 1778 | 7 | 3701 | 8 | 3779 | 9 |
| 9 MADHURI SWEET CORN | 1444 | 5 | 9528 | 3 | 5486 | 5 | 6406 | 4 | 2000 | 6 | 4203 | 6 | 4323 | 8 |
| Loc. Mean | 1642 | | 8648 | | 5145 | | 6082 | | 2509 | | 4296 | | 4819 | |
| C.D. (5%) | 349 | | 1515 | | 2610 | | 998 | | 511 | | 2113 | | 1266 | |
| C.V. (%) | 12.3 | | 10.1 | | 22.0 | | 9.5 | | 11.8 | | 21.3 | | 26.2 | |
| F (Prob.) | 0.04 | | 0.00 | | 0.35 | | 0.00 | | 0.00 | | 0.37 | | 0.19 | |

Table No. 30 (Continued)

| SI No. PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | |
|----------------------------|-------------------------|------|--------------|------|------|--------------|--------------|------|--------------|--|
| | ALMO | BAJA | Zone Mean | DELH | KARN | Zone Mean | DHOL | JASH | Zone Mean | |
| 1 SWEET CORN HYBRID | 53.3 | 55.0 | 54.2 | 52.7 | 56.7 | 54.7 | 53.7 | 47.0 | 50.3 | |
| 2 ORISSA SWEET - 1 | 57.7 | 59.0 | 58.3 | 56.0 | 58.3 | 57.2 | 57.7 | 49.7 | 53.7 | |
| 3 ORISSA SWEET - 2 | 57.7 | 57.0 | 57.3 | 55.7 | 61.0 | 58.3 | 58.3 | 50.0 | 54.2 | |
| 4 DULCINO AMINO x HKI SCST | 51.0 | 52.0 | 51.5 | 51.0 | 58.3 | 54.7 | 52.3 | 44.0 | 48.2 | |
| 5 HKI SCST x INSEC 2 | 54.7 | 55.0 | 54.8 | 51.3 | 59.0 | 55.2 | 54.7 | 47.0 | 50.8 | |
| 6 HKI SCST x CUBA 379 | 55.0 | 51.5 | 53.3 | 52.7 | 60.3 | 56.5 | 54.7 | 46.7 | 50.7 | |
| 7 DMSC 16 x CUBA 379 | 55.3 | 53.0 | 54.2 | 54.0 | 58.0 | 56.0 | 223.7 | 48.0 | 135.8 | |
| CHECKS | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 53.0 | 54.0 | 53.5 | 52.7 | 59.3 | 56.0 | 55.0 | 45.0 | 50.0 | |
| 9 MADHURI SWEET CORN | 53.3 | 51.0 | 52.2 | 52.0 | 60.0 | 56.0 | 56.0 | 47.3 | 51.7 | |
| Loc. Mean | 54.6 | 54.2 | 54.4 | 53.1 | 59.0 | 56.1 | 74.0 | 47.2 | 60.6 | |
| C.D. (5%) | 1.04 | 3.82 | 3.10 | 3.58 | 4.51 | 3.34 | 169.72 | 1.49 | 91.03 | |
| C.V. (%) | 1.10 | 3.06 | 2.47 | 3.89 | 4.41 | 2.58 | 132.50 | 1.83 | 65.15 | |
| F (Prob.) | 0.00 | 0.02 | 0.01 | 0.09 | 0.62 | 0.34 | 0.48 | 0.00 | 0.49 | |
| SI No. PEDIGREE | ARBH | HYDE | Zone Mean | UDAI | CHHI | Zone Mean | OV'L Mean | | | |
| 1 SWEET CORN HYBRID | 53.3 | 54.7 | 54.0 | 49.3 | 53.3 | 51.3 | 52.9 | | | |
| 2 ORISSA SWEET - 1 | 55.3 | 54.3 | 54.8 | 51.3 | 56.0 | 53.7 | 55.5 | | | |
| 3 ORISSA SWEET - 2 | 55.3 | 56.0 | 55.7 | 54.0 | 56.0 | 55.0 | 56.1 | | | |
| 4 DULCINO AMINO x HKI SCST | 53.0 | 52.0 | 52.5 | 47.3 | 51.3 | 49.3 | 51.2 | | | |
| 5 HKI SCST x INSEC 2 | 53.0 | 54.0 | 53.5 | 51.0 | 53.3 | 52.2 | 53.3 | | | |
| 6 HKI SCST x CUBA 379 | 54.3 | 53.0 | 53.7 | 51.7 | 54.7 | 53.2 | 53.5 | | | |
| 7 DMSC 16 x CUBA 379 | 55.3 | 53.0 | 54.2 | 51.0 | 54.3 | 52.7 | 70.6 | | | |
| CHECKS | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 53.3 | 55.0 | 54.2 | 47.3 | 52.0 | 49.7 | 52.7 | | | |
| 9 MADHURI SWEET CORN | 53.7 | 53.7 | 53.7 | 47.3 | 52.0 | 49.7 | 52.6 | | | |
| Loc. Mean | 54.1 | 54.0 | 54.0 | 50.0 | 53.7 | 51.9 | 55.4 | | | |
| C.D. (5%) | 1.13 | 1.80 | 2.24 | 2.88 | 1.21 | 1.66 | 15.83 | | | |
| C.V. (%) | 1.21 | 1.92 | 1.80 | 3.32 | 1.30 | 1.39 | 32.07 | | | |
| F (Prob.) | 0.00 | 0.01 | 0.25 | 0.00 | 0.00 | 0.00 | 0.37 | | | |

Table No. 30(Continued)

| SI No.PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | |
|----------------------------|---------------------|------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|
| | ALMO | BAJA | Zone Mean | DELH | KARN | Zone Mean | DHOL | JASH | Zone Mean | ARBH | HYDE | Zone Mean |
| 1 SWEET CORN HYBRID | 55.3 | 57.5 | 56.4 | 57.0 | 60.0 | 58.5 | 57.0 | 49.0 | 53.0 | 54.7 | 59.0 | 56.8 |
| 2 ORISSA SWEET - 1 | 59.0 | 61.5 | 60.3 | 57.7 | 60.7 | 59.2 | 60.0 | 52.0 | 56.0 | 56.0 | 56.7 | 56.3 |
| 3 ORISSA SWEET - 2 | 59.0 | 59.0 | 59.0 | 57.7 | 63.7 | 60.7 | 60.7 | 52.3 | 56.5 | 56.3 | 59.0 | 57.7 |
| 4 DULCINO AMINO x HKI SCST | 53.3 | 54.0 | 53.7 | 53.3 | 60.3 | 56.8 | 55.7 | 46.0 | 50.8 | 53.3 | 54.0 | 53.7 |
| 5 HKI SCST x INSEC 2 | 56.7 | 58.0 | 57.3 | 56.7 | 61.3 | 59.0 | 58.0 | 50.3 | 54.2 | 55.3 | 56.7 | 56.0 |
| 6 HKI SCST x CUBA 379 | 56.7 | 53.5 | 55.1 | 56.7 | 62.3 | 59.5 | 58.0 | 49.0 | 53.5 | 56.0 | 55.3 | 55.7 |
| 7 DMSC 16 x CUBA 379 | 57.3 | 55.0 | 56.2 | 55.7 | 60.7 | 58.2 | 56.0 | 50.7 | 53.3 | 56.3 | 56.3 | 56.3 |
| CHECKS | | | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 54.7 | 56.5 | 55.6 | 56.7 | 62.0 | 59.3 | 57.7 | 47.0 | 52.3 | 54.0 | 57.0 | 55.5 |
| 9 MADHURI SWEET CORN | 54.7 | 53.0 | 53.8 | 53.3 | 62.7 | 58.0 | 58.0 | 49.3 | 53.7 | 54.0 | 55.3 | 54.7 |
| Loc. Mean | 56.3 | 56.4 | 56.4 | 56.1 | 61.5 | 58.8 | 57.9 | 49.5 | 53.7 | 55.1 | 56.6 | 55.9 |
| C.D. (5%) | 1.60 | 3.98 | 3.39 | 3.00 | 5.04 | 3.19 | 2.84 | 1.84 | 2.41 | 1.21 | 1.59 | 2.58 |
| C.V. (%) | 1.64 | 3.05 | 2.61 | 3.09 | 4.73 | 2.35 | 2.84 | 2.15 | 1.94 | 1.27 | 1.62 | 2.00 |
| F (Prob.) | 0.00 | 0.01 | 0.02 | 0.04 | 0.82 | 0.39 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.14 |

| SI No.PEDIGREE | Days to 50% dry husk | | | | | | | | | |
|----------------------------|----------------------|------|--------------|--------------|------|------|------|------|--------------|--|
| | UDAI | CHHI | Zone Mean | OV'L Mean | DELH | DHOL | UDAI | CHHI | ZN 5 Mean | |
| 1 SWEET CORN HYBRID | 55.0 | 54.7 | 54.8 | 55.9 | 79.7 | 84.3 | 85.0 | 85.0 | 85.0 | |
| 2 ORISSA SWEET - 1 | 55.0 | 57.0 | 56.0 | 57.6 | 82.7 | 89.7 | 85.0 | 82.7 | 83.8 | |
| 3 ORISSA SWEET - 2 | 56.7 | 56.7 | 56.7 | 58.1 | 83.3 | 87.7 | 86.7 | 84.7 | 85.7 | |
| 4 DULCINO AMINO x HKI SCST | 50.3 | 52.3 | 51.3 | 53.3 | 82.0 | 85.7 | 80.7 | 80.7 | 80.7 | |
| 5 HKI SCST x INSEC 2 | 53.3 | 55.3 | 54.3 | 56.2 | 84.0 | 87.7 | 83.7 | 85.3 | 84.5 | |
| 6 HKI SCST x CUBA 379 | 54.7 | 56.3 | 55.5 | 55.9 | 91.0 | 87.3 | 85.0 | 86.0 | 85.5 | |
| 7 DMSC 16 x CUBA 379 | 53.0 | 56.0 | 54.5 | 55.7 | 88.0 | 89.3 | 83.7 | 85.0 | 84.3 | |
| CHECKS | | | | | | | | | | |
| 8 WIN ORANGE SWEET CORN | 50.7 | 54.0 | 52.3 | 55.0 | 82.7 | 84.3 | 81.3 | 81.3 | 81.3 | |
| 9 MADHURI SWEET CORN | 50.3 | 54.0 | 52.2 | 54.5 | 81.3 | 85.0 | 80.3 | 81.3 | 80.8 | |
| Loc. Mean | 53.2 | 55.1 | 54.2 | 55.8 | 83.9 | 86.8 | 83.5 | 83.6 | 83.5 | |
| C.D. (5%) | 3.90 | 0.99 | 2.24 | 1.09 | 7.37 | 3.73 | 3.73 | 1.64 | 2.30 | |
| C.V. (%) | 4.24 | 1.04 | 1.79 | 2.19 | 5.08 | 2.49 | 2.58 | 1.14 | 1.20 | |
| F (Prob.) | 0.02 | 0.00 | 0.01 | 0.00 | 0.11 | 0.05 | 0.02 | 0.00 | 0.00 | |

Table No. 30 (Continued)

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

Table No. 30 (Continued)

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

TABLE No. 31

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

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|---|------|---|--------------|---|-------|---|-------|---|--------------|---|--------------|---|
| | | ALMO | | BAJA | | ZN 1 MEAN | | DELH | | KARN | | ZN 2 MEAN | | ZN 3 JASH | |
| 1 | BPCH - 6 | 3738 | 4 | 4853 | 2 | 4296 | 2 | 1584 | 2 | 1239 | 8 | 1412 | 5 | 2201 | 5 |
| 2 | HKIPC 7 x HKIPC 4B | 3319 | 5 | 3801 | 8 | 3560 | 6 | 1374 | 6 | 1876 | 1 | 1625 | 1 | 2840 | 1 |
| 3 | HKIPC 5 x WPII | 3824 | 3 | 5051 | 1 | 4437 | 1 | 1374 | 5 | 1307 | 6 | 1340 | 7 | 2074 | 7 |
| 4 | HKIPC 7 x WPII | 3825 | 2 | 4366 | 7 | 4095 | 4 | 1592 | 1 | 1559 | 3 | 1576 | 2 | 1767 | 8 |
| 5 | HKIPC 5 x HKIPC 7 | 2519 | 6 | 4729 | 3 | 3624 | 5 | 1287 | 7 | 1600 | 2 | 1443 | 3 | 2491 | 2 |
| 6 | HKIPC 8 x HKIPC 4B | 2417 | 8 | 4545 | 5 | 3481 | 8 | 1221 | 8 | 1383 | 4 | 1302 | 8 | 2247 | 3 |
| 7 | WPII x HKIPC 5 | 3912 | 1 | 4562 | 4 | 4237 | 3 | 1560 | 3 | 1269 | 7 | 1415 | 4 | 2138 | 6 |
| CHECKS | | | | | | | | | | | | | | | |
| 8 | VL POP CORN 1 | 2467 | 7 | 4524 | 6 | 3496 | 7 | 1416 | 4 | 1321 | 5 | 1368 | 6 | 2243 | 4 |
| | Location Mean | 3253 | | 4554 | | 3903 | | 1426 | | 1444 | | 1435 | | 2250 | |
| | Mean Stand | 28 | | 31 | | 29 | | 27 | | 26 | | 27 | | 26 | |
| | C.D. (5%) | 648 | | 713 | | 680 | | 434 | | 421 | | 428 | | 256 | |
| | C.V. (%) | 11.29 | | 8.88 | | - | | 17.26 | | 16.54 | | - | | 6.45 | |
| | F (Prob) | 0.032 | | 0.02 | | - | | 0.331 | | 0.19 | | - | | 0.001 | |
| | Plot Size | 4.8 | | 3.6 | | - | | 5.6 | | 4.5 | | - | | 4.8 | |
| AGRONOMY DATA | | | | | | | | | | | | | | | |
| | Sowing Date | 11-07 | | 7-07 | | - | | 7-06 | | 10-07 | | - | | 26-07 | |
| | Harvest Date | 3-11 | | 7-11 | | - | | 10-12 | | 10-10 | | - | | 8-11 | |
| | Irrigation Nos | - | | 3 | | - | | 4 | | 4 | | - | | - | |
| | Fertilizer Applied N | 100 | | 120 | | - | | 150 | | 150 | | - | | 120 | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 75 | | 60 | | - | | 60 | |
| | Fertilizer Applied K | 40 | | 40 | | - | | 75 | | 60 | | - | | 60 | |

Table No. 31 (Continued)

| S1 No | PEDIGREE | ARBH | R | HYDE | R | ZN 4 MEAN | R | UDAI | R | CHHI | R | ZN 5 MEAN | R | OV'L MEAN | R |
|---------------|----------------------|-------|---|-------|---|--------------|---|-------|---|-------|---|--------------|---|--------------|---|
| 1 | BPCH - 6 | 3987 | 4 | 2833 | 1 | 3410 | 1 | 3507 | 7 | 2810 | 7 | 3159 | 7 | 2973 | 4 |
| 2 | HKIPC 7 x HKIPC 4B | 3991 | 3 | 2405 | 5 | 3198 | 4 | 3036 | 8 | 3503 | 4 | 3270 | 6 | 2905 | 5 |
| 3 | HKIPC 5 x WPII | 4348 | 1 | 2213 | 6 | 3280 | 2 | 3771 | 5 | 4357 | 1 | 4064 | 1 | 3147 | 1 |
| 4 | HKIPC 7 x WPII | 4000 | 2 | 2514 | 3 | 3257 | 3 | 4210 | 2 | 3745 | 3 | 3977 | 3 | 3064 | 3 |
| 5 | HKIPC 5 x HKIPC 7 | 3468 | 6 | 2725 | 2 | 3097 | 6 | 4217 | 1 | 3074 | 5 | 3646 | 4 | 2901 | 6 |
| 6 | HKIPC 8 x HKIPC 4B | 3278 | 7 | 1853 | 8 | 2565 | 7 | 3695 | 6 | 2336 | 8 | 3015 | 8 | 2553 | 8 |
| 7 | WPII x HKIPC 5 | 3816 | 5 | 2492 | 4 | 3154 | 5 | 4103 | 3 | 3869 | 2 | 3986 | 2 | 3080 | 2 |
| CHECKS | | | | | | | | | | | | | | | |
| 8 | VL POP CORN 1 | 2820 | 8 | 1877 | 7 | 2348 | 8 | 3845 | 4 | 2877 | 6 | 3361 | 5 | 2599 | 7 |
| | Location Mean | 3714 | | 2364 | | 3039 | | 3798 | | 3322 | | 3560 | | 2903 | |
| | Mean Stand | 33 | | 30 | | 32 | | 33 | | 39 | | 36 | | 30 | |
| | C.D. (5%) | 805 | | 472 | | 639 | | 502 | | 931 | | 717 | | 576 | |
| | C.V. (%) | 12.3 | | 11.31 | | - | | 7.49 | | 15.89 | | - | | - | |
| | F (Prob) | 0.014 | | 0.011 | | - | | 0.997 | | 0.021 | | - | | - | |
| | Plot Size | 6 | | 6 | | - | | 4.8 | | 6 | | - | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | |
| | Sowing Date | 17-07 | | 8-07 | | - | | 10-07 | | 14-07 | | - | | - | |
| | Harvest Date | 5-11 | | 16-11 | | - | | 8-10 | | 22-11 | | - | | - | |
| | Irrigation Nos | 6 | | 2 | | - | | 2 | | - | | - | | - | |
| | Fertilizer Applied N | 150 | | 180 | | - | | 90 | | 120 | | - | | - | |
| | Fertilizer Applied P | 75 | | 60 | | - | | 60 | | 60 | | - | | - | |
| | Fertilizer Applied K | 37.5 | | 50 | | - | | - | | 40 | | - | | - | |

TABLE No. 31 (Continued)

| Sl No | GRAIN YIELD % | | SUPERIORITY OVER THE | | | VL POP CORN 1 | | | | | | | | | |
|----------|---------------|------|----------------------|------|------|---------------|------|------|------|------|------|------|------|--------------|---|
| | ALMO | BAJA | MEAN | DELH | KARN | MEAN | JASH | ARBH | HYDE | MEAN | UDAI | CHHI | MEAN | OV'L MEAN | |
| 1 | 51.5 | 7.3 | 22.9 | 11.9 | - | 3.2 | - | 41.4 | 51 | 45.2 | - | - | - | 14.4 | |
| 2 | 34.5 | - | 1.8 | - | 42 | 18.7 | 26.6 | 41.5 | 28.1 | 36.2 | - | 21.8 | - | 11.8 | |
| 3 | 55 | 11.6 | 26.9 | - | - | - | - | 54.2 | 17.9 | 39.7 | - | 51.4 | 20.9 | 21.1 | |
| 4 | 55 | - | 17.1 | 12.5 | 18 | 15.2 | - | 41.9 | 34 | 38.7 | 9.5 | 30.2 | 18.3 | 17.9 | |
| 5 | 2.1 | 4.5 | 3.7 | - | 21.1 | 5.5 | 11 | 23 | 45.2 | 31.9 | 9.7 | 6.9 | 8.5 | 11.6 | |
| 6 | - | 0.4 | - | - | 4.7 | - | 0.2 | 16.2 | - | 9.2 | - | - | - | - | |
| 7 | 58.5 | 0.8 | 21.2 | 10.2 | - | 3.4 | - | 35.3 | 32.8 | 34.3 | 6.7 | 34.5 | 18.6 | 18.5 | |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| CHECKS | | | | | | | | | | | | | | | |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| SI No. | DAYS TO 50% POLLEN SHED | | Zone | | Zone | | Zone | | Zone | | Zone | | Zone | | Zone | | OV'L Mean |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|
| | ALMO | BAJA | Mean | DELH | KARN | Mean | DHOL | JASH | Mean | ARBH | HYDE | Mean | UDAI | CHHI | Mean | Mean | |
| 1 | 54.7 | 53.3 | 54.0 | 53.3 | 53.3 | 53.3 | 56.7 | 46.0 | 51.3 | 55.7 | 52.0 | 53.8 | 49.3 | 52.7 | 51.0 | 52.7 | |
| 2 | 53.0 | 53.3 | 53.2 | 50.0 | 55.3 | 52.7 | 55.3 | 44.7 | 50.0 | 54.0 | 50.7 | 52.3 | 47.3 | 52.0 | 49.7 | 51.6 | |
| 3 | 51.0 | 56.0 | 53.5 | 47.7 | 53.0 | 50.3 | 52.0 | 44.3 | 48.2 | 51.7 | 51.3 | 51.5 | 44.7 | 49.7 | 47.2 | 50.1 | |
| 4 | 50.7 | 52.0 | 51.3 | 48.3 | 54.3 | 51.3 | 53.3 | 44.3 | 48.8 | 52.3 | 54.0 | 53.2 | 45.7 | 49.3 | 47.5 | 50.4 | |
| 5 | 52.0 | 49.7 | 50.8 | 50.0 | 54.3 | 52.2 | 55.3 | 44.0 | 49.7 | 52.0 | 48.3 | 50.2 | 47.7 | 51.0 | 49.3 | 50.4 | |
| 6 | 53.7 | 51.3 | 52.5 | 52.0 | 55.7 | 53.8 | 56.3 | 46.3 | 51.3 | 55.0 | 48.7 | 51.8 | 48.0 | 53.3 | 50.7 | 52.0 | |
| 7 | 50.3 | 54.3 | 52.3 | 48.0 | 52.7 | 50.3 | 51.3 | 43.7 | 47.5 | 52.3 | 50.0 | 51.2 | 46.3 | 50.0 | 48.2 | 49.9 | |
| 8 | 52.3 | 54.3 | 53.3 | 49.0 | 55.0 | 52.0 | 58.0 | 45.7 | 51.8 | 53.3 | 52.7 | 53.0 | 47.7 | 51.0 | 49.3 | 51.9 | |
| Loc. Mean | 52.2 | 53.0 | 52.6 | 49.8 | 54.2 | 52.0 | 54.8 | 44.9 | 49.8 | 53.3 | 51.0 | 52.1 | 47.1 | 51.1 | 49.1 | 51.1 | |
| C.D. (5%) | 0.94 | 1.60 | 4.64 | 2.11 | 2.22 | 3.27 | 1.55 | 1.93 | 2.82 | 1.42 | 1.55 | 4.16 | 1.11 | 1.44 | 1.38 | 1.24 | |
| C.V. (%) | 1.02 | 1.72 | 3.73 | 2.43 | 2.33 | 2.66 | 1.61 | 2.46 | 2.40 | 1.53 | 1.74 | 3.38 | 1.34 | 1.60 | 1.19 | 2.72 | |
| F (Prob.) | 0.00 | 0.00 | 0.73 | 0.00 | 0.09 | 0.24 | 0.00 | 0.07 | 0.06 | 0.00 | 0.00 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | |

TABLE No. 31 (Continued)

| SI No. PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | | |
|----------------------------|----------------------|-------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|--------------|
| | ALMO | BAJA | Zone Mean | DELH | KARN | Zone Mean | DHOL | JASH | Zone Mean | ARBH | HYDE | Zone Mean | UDAI | CHHI | Zone Mean | OV'L Mean |
| 1 BPCH - 6 | 57.3 | 55.3 | 56.3 | 56.7 | 55.7 | 56.2 | 61.0 | 48.7 | 54.8 | 56.3 | 54.3 | 55.3 | 53.7 | 54.3 | 54.0 | 55.3 |
| 2 HKIPC 7 x HKIPC 4 | 55.3 | 55.3 | 55.3 | 52.3 | 57.7 | 55.0 | 58.7 | 46.7 | 52.7 | 55.0 | 52.7 | 53.8 | 51.0 | 53.0 | 52.0 | 53.8 |
| 3 HKIPC 5 x WPII | 52.0 | 58.3 | 55.2 | 49.3 | 55.0 | 52.2 | 55.0 | 46.3 | 50.7 | 52.0 | 53.0 | 52.5 | 47.3 | 50.3 | 48.8 | 51.9 |
| 4 HKIPC 7 x WPII | 51.3 | 54.0 | 52.7 | 50.0 | 57.0 | 53.5 | 56.7 | 46.7 | 51.7 | 52.0 | 56.0 | 54.0 | 48.7 | 49.3 | 49.0 | 52.2 |
| 5 HKIPC 5 x HKIPC 7 | 53.3 | 51.7 | 52.5 | 52.0 | 56.3 | 54.2 | 58.0 | 46.0 | 52.0 | 54.0 | 50.7 | 52.3 | 50.3 | 53.0 | 51.7 | 52.5 |
| 6 HKIPC 8 x HKIPC 4 | 57.0 | 53.3 | 55.2 | 55.3 | 57.7 | 56.5 | 61.3 | 49.0 | 55.2 | 56.3 | 50.3 | 53.3 | 52.3 | 56.0 | 54.2 | 54.9 |
| 7 WPII x HKIPC 5 CHECKS | 51.0 | 56.3 | 53.7 | 50.0 | 55.3 | 52.7 | 54.3 | 45.7 | 50.0 | 54.0 | 51.3 | 52.7 | 49.7 | 51.0 | 50.3 | 51.9 |
| 8 VL POP CORN 1 | 54.3 | 57.3 | 55.8 | 51.3 | 57.7 | 54.5 | 61.7 | 47.7 | 54.7 | 54.3 | 54.0 | 54.2 | 51.3 | 52.7 | 52.0 | 54.2 |
| Loc. Mean | 54.0 | 55.2 | 54.6 | 52.1 | 56.5 | 54.3 | 58.3 | 47.1 | 52.7 | 54.3 | 52.8 | 53.5 | 50.5 | 52.5 | 51.5 | 53.3 |
| C.D. (5%) | 1.24 | 1.59 | 6.07 | 1.88 | 1.97 | 4.35 | 1.81 | 2.14 | 3.22 | 1.05 | 1.07 | 5.05 | 0.97 | 1.20 | 1.85 | 1.48 |
| C.V. (%) | 1.31 | 1.65 | 4.71 | 2.06 | 1.99 | 3.38 | 1.77 | 2.60 | 2.58 | 1.10 | 1.16 | 3.99 | 1.10 | 1.31 | 1.52 | 3.10 |
| F (Prob.) | 0.00 | 0.00 | 0.72 | 0.00 | 0.04 | 0.33 | 0.00 | 0.04 | 0.04 | 0.00 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| SI No. PEDIGREE | DAYS TO 50% DRY HUSK | | | | | | | | | | | | | | | |
| | ALMO | BAJA | Zone Mean | DELH | KARN | Zone Mean | DHOL | JASH | Zone Mean | ARBH | HYDE | Zone Mean | UDAI | CHHI | Zone Mean | OV'L Mean |
| 1 BPCH - 6 | 96.7 | 107.3 | 102.0 | 91.3 | 86.0 | 88.7 | 86.7 | 89.0 | 87.8 | 87.7 | 86.0 | 86.8 | 85.3 | 85.0 | 85.2 | 90.1 |
| 2 HKIPC 7 x HKIPC 4 | 95.7 | 106.0 | 100.8 | 91.3 | 86.7 | 89.0 | 85.0 | 88.0 | 86.5 | 87.0 | 86.0 | 86.5 | 83.3 | 85.3 | 84.3 | 89.4 |
| 3 HKIPC 5 x WPII | 91.0 | 109.3 | 100.2 | 87.7 | 87.0 | 87.3 | 85.3 | 84.0 | 84.7 | 87.7 | 84.3 | 86.0 | 81.3 | 84.0 | 82.7 | 88.2 |
| 4 HKIPC 7 x WPII | 90.7 | 106.7 | 98.7 | 86.7 | 86.0 | 86.3 | 84.7 | 81.7 | 83.2 | 87.0 | 86.7 | 86.8 | 82.3 | 82.0 | 82.2 | 87.4 |
| 5 HKIPC 5 x HKIPC 7 | 91.7 | 105.7 | 98.7 | 90.3 | 86.7 | 88.5 | 85.3 | 85.3 | 85.3 | 87.3 | 84.7 | 86.0 | 84.3 | 85.3 | 84.8 | 88.7 |
| 6 HKIPC 8 x HKIPC 4 | 94.7 | 107.7 | 101.2 | 89.7 | 87.0 | 88.3 | 85.7 | 86.0 | 85.8 | 86.7 | 84.7 | 85.7 | 86.0 | 85.0 | 85.5 | 89.3 |
| 7 WPII x HKIPC 5 CHECKS | 91.7 | 109.3 | 100.5 | 87.0 | 89.0 | 88.0 | 85.0 | 83.0 | 84.0 | 86.0 | 85.7 | 85.8 | 83.0 | 84.7 | 83.8 | 88.4 |
| 8 VL POP CORN 1 | 91.3 | 109.3 | 100.3 | 88.7 | 86.7 | 87.7 | 86.7 | 86.0 | 86.3 | 86.3 | 86.7 | 86.5 | 85.3 | 84.0 | 84.7 | 89.1 |
| Loc. Mean | 92.9 | 107.7 | 100.3 | 89.1 | 86.9 | 88.0 | 85.5 | 85.4 | 85.5 | 87.0 | 85.6 | 86.3 | 83.9 | 84.4 | 84.1 | 88.8 |
| C.D. (5%) | 1.20 | 1.69 | 5.41 | 2.75 | 2.28 | 4.03 | 2.14 | 1.63 | 3.44 | 1.92 | 2.09 | 2.12 | 1.55 | 1.32 | 2.49 | 1.23 |
| C.V. (%) | 0.74 | 0.90 | 2.28 | 1.76 | 1.50 | 1.94 | 1.43 | 1.09 | 1.70 | 1.26 | 1.39 | 1.04 | 1.06 | 0.89 | 1.25 | 1.55 |
| F (Prob.) | 0.00 | 0.00 | 0.80 | 0.01 | 0.22 | 0.81 | 0.39 | 0.00 | 0.17 | 0.53 | 0.17 | 0.80 | 0.00 | 0.00 | 0.12 | 0.00 |

TABLE No. 31 (Continued)

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

TABLE No. 31 (Continued)

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

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

TABLE No. 32

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

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

Table No. 32 (Continued)

| S1 No | ZN 5 | | OV'L | | GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681 | | | | | | | | | | |
|---------------|-----------------------|-------|------|------|---|------|-------|--------------|-------|------|--------------|--------------|--------------|--------------|------|
| | UDAI | R | MEAN | R | ZN 1 BAJA | DELH | KARN | ZN 2 MEAN | DHOL | JASH | ZN 3 MEAN | ZN 4 ARBH | ZN 5 UDAI | OV'L MEAN | |
| 1 | HKI 1105 x LM 14 | 5072 | 6 | 6601 | 1 | - | 213.5 | 80.7 | 113.2 | 36 | 12 | 22.4 | 19.5 | - | 24.2 |
| 2 | HKI 323 x LM 9 | 4240 | 14 | 5484 | 9 | - | 269 | 30.5 | 88.9 | - | - | - | 3.4 | - | 3.2 |
| 3 | CM-132 x HKI 1040-11 | 4691 | 11 | 6093 | 3 | - | 122.8 | 80.5 | 90.9 | 7.6 | 14.9 | 11.7 | 13.7 | - | 14.6 |
| 4 | HKI 1105 x LM 9 | 5111 | 5 | 4955 | 14 | - | 72.3 | 6.6 | 22.7 | - | 14.7 | 1.8 | - | - | - |
| 5 | CM 134 x HKI 1128 | 6193 | 1 | 6405 | 2 | - | 80.2 | 61 | 65.7 | 35.8 | 28.9 | 31.9 | 48.9 | 5 | 20.5 |
| 6 | DK 5644-1 x HKI 323-1 | 4815 | 9 | 5794 | 6 | - | 321.9 | - | 62.5 | 19.6 | - | - | 27.3 | - | 9 |
| 7 | HKI 323 x NAI 105 | 4160 | 15 | 5382 | 11 | - | 143.8 | 23.3 | 52.8 | 2 | - | - | 25.6 | - | 1.3 |
| 8 | HKI 161 x DMRQPM-58 | 5891 | 3 | 5102 | 13 | - | 178.6 | - | 38.1 | - | - | - | 23 | - | - |
| 9 | CLQ-47 x HKI 164-7-6 | 4402 | 13 | 5907 | 5 | 1.1 | 114 | 75.8 | 85.1 | 1.1 | - | - | - | - | 11.1 |
| 10 | HKI 161 x CLQ-30 | 4615 | 12 | 5465 | 10 | - | 135.2 | 11.8 | 42 | 22.7 | - | 3.9 | 20.9 | - | 2.8 |
| 11 | DMRQPM-58 x HKI 161 | 5768 | 4 | 4950 | 15 | - | 70.6 | - | - | 23.5 | - | 0.6 | 18.5 | - | - |
| CHECKS | | | | | | | | | | | | | | | |
| 12 | BIO - 9681 | 5899 | 2 | 5316 | 12 | - | - | - | - | - | - | - | - | - | - |
| 13 | SEEDTEC - 2324 | 4723 | 10 | 5636 | 7 | 2.2 | 76.6 | 12.1 | 27.9 | 0.3 | 1.6 | 1 | 28.8 | - | 6 |
| 14 | HQPM - 1 | 4974 | 7 | 5999 | 4 | - | 281.4 | 50.4 | 107 | - | 20.6 | 9.1 | 10.3 | - | 12.8 |
| 15 | HQPM - 7 | 4974 | 8 | 5597 | 8 | - | 228.6 | - | 42.3 | 6.3 | - | - | 33 | - | 5.3 |
| | Location Mean | 5035 | | 5646 | | | | | | | | | | | |
| | Mean Stand | 32 | | 29 | | | | | | | | | | | |
| | C.D. (5%) | 786 | | 887 | | | | | | | | | | | |
| | C.V. (%) | 9.32 | | - | | | | | | | | | | | |
| | F (Prob) | 0.01 | | | | | | | | | | | | | |
| | Plot Size | 4.8 | | - | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | |
| | Sowing Date | 10-07 | | - | | | | | | | | | | | |
| | Harvest Date | 8-10 | | - | | | | | | | | | | | |
| | Irrigation Nos | 2 | | - | | | | | | | | | | | |
| | Fertilizer Applied N | 90 | | - | | | | | | | | | | | |
| | Fertilizer Applied P | 60 | | - | | | | | | | | | | | |
| | Fertilizer Applied K | - | | - | | | | | | | | | | | |

Table No. 32 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC - 2324 | | | | | | | | | |
|----------|-----------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|
| | | ZN 1 BAJA | ZN 2 DELH | ZN 3 KARN | ZN 4 MEAN | ZN 5 DHOL | ZN 6 JASH | ZN 7 MEAN | ZN 8 ARBH | ZN 9 UDAI | ZN 10 OV'L MEAN |
| 1 | HKI 1105 x LM 14 | - | 77.6 | 61.2 | 66.8 | 35.6 | 10.2 | 21.2 | - | 7.4 | 17.1 |
| 2 | HKI 323 x LM 9 | - | 109 | 16.5 | 47.8 | - | - | - | - | - | - |
| 3 | CM-132 x HKI 1040-11 | - | 26.2 | 61.1 | 49.3 | 7.3 | 13.1 | 10.6 | - | - | 8.1 |
| 4 | HKI 1105 x LM 9 | - | - | - | - | - | 12.9 | 0.8 | - | 8.2 | - |
| 5 | CM 134 x HKI 1128 | - | 2.1 | 43.6 | 29.6 | 35.4 | 26.9 | 30.6 | 15.6 | 31.1 | 13.6 |
| 6 | DK 5644-1 x HKI 323-1 | - | 139 | - | 27.1 | 19.3 | - | - | - | 1.9 | 2.8 |
| 7 | HKI 323 x NAI 105 | - | 38.1 | 10 | 19.5 | 1.7 | - | - | - | - | - |
| 8 | HKI 161 x DMRQPM-58 | - | 57.8 | - | 8 | - | - | - | - | 24.7 | - |
| 9 | CLQ-47 x HKI 164-7-6 | - | 21.2 | 56.8 | 44.8 | 0.7 | - | - | - | - | 4.8 |
| 10 | HKI 161 x CLQ-30 | - | 33.2 | - | 11.1 | 22.4 | - | 2.8 | - | - | - |
| 11 | DMRQPM-58 x HKI 161 | - | - | - | - | 23.1 | - | - | - | 22.1 | - |
| 12 | BIO - 9681 | - | - | - | - | - | - | - | - | 24.9 | - |
| 13 | SEEDTEC - 2324 | - | - | - | - | - | - | - | - | - | - |
| 14 | HQPM - 1 | - | 116 | 34.2 | 61.9 | - | 18.7 | 8 | - | 5.3 | 6.4 |
| 15 | HQPM - 7 | - | 86.1 | - | 11.3 | 6 | - | - | 3.2 | 5.3 | - |
| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM - 1 | | | | | | | | | |
| | | ZN 1 BAJA | ZN 2 DELH | ZN 3 KARN | ZN 4 MEAN | ZN 5 DHOL | ZN 6 JASH | ZN 7 MEAN | ZN 8 ARBH | ZN 9 UDAI | ZN 10 OV'L MEAN |
| 1 | HKI 1105 x LM 14 | 22.2 | - | 20.2 | 3 | 44.6 | - | 12.2 | 8.3 | 2 | 10 |
| 2 | HKI 323 x LM 9 | 0.3 | - | - | - | - | - | - | - | - | - |
| 3 | CM-132 x HKI 1040-11 | 16.2 | - | 20.1 | - | 14.4 | - | 2.4 | 3 | - | 1.6 |
| 4 | HKI 1105 x LM 9 | - | - | - | - | - | - | - | - | 2.7 | - |
| 5 | CM 134 x HKI 1128 | 8.9 | - | 7 | - | 44.4 | 6.9 | 20.9 | 35 | 24.5 | 6.8 |
| 6 | DK 5644-1 x HKI 323-1 | 17.6 | 10.6 | - | - | 27.2 | - | - | 15.4 | - | - |
| 7 | HKI 323 x NAI 105 | 4.1 | - | - | - | 8.4 | - | - | 13.9 | - | - |
| 8 | HKI 161 x DMRQPM-58 | - | - | - | - | - | - | - | 11.5 | 18.4 | - |
| 9 | CLQ-47 x HKI 164-7-6 | 25.5 | - | 16.9 | - | 7.4 | - | - | - | - | - |
| 10 | HKI 161 x CLQ-30 | 8.2 | - | - | - | 30.5 | - | - | 9.6 | - | - |
| 11 | DMRQPM-58 x HKI 161 | - | - | - | - | 31.2 | - | - | 7.4 | 16 | - |
| 12 | BIO - 9681 | 24.1 | - | - | - | 6.3 | - | - | - | 18.6 | - |
| 13 | SEEDTEC - 2324 | 26.9 | - | - | - | 6.6 | - | - | 16.8 | - | - |
| 14 | HQPM - 1 | - | - | - | - | - | - | - | - | - | - |
| 15 | HQPM - 7 | 14.3 | - | - | - | 13.1 | - | - | 20.5 | - | - |

Table No. 32 (Continued)

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

Table No. 32 (Continued)

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

Table No. 32 (Continued)

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

Table No. 32 (Continued)

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

Table No. 31 (Continued)

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

TABLE No. 32 (Continued)

| SI No. PEDIGREE | PLANT HEIGHT CM | | | ZN 2 Mean | DHOL | JASH | ZN 3 Mean | ARBH | UDAI | ZN 5 Mean | OV'L Mean |
|------------------------|-----------------|------|------|--------------|------|------|--------------|------|------|--------------|--------------|
| | BAJA | DELH | KARN | | | | | | | | |
| 1 HKI 1105 x LM 14 | 198 | 173 | 179 | 176 | 148 | 139 | 144 | 193 | 205 | 205 | 176 |
| 2 HKI 323 x LM 9 | 207 | 172 | 168 | 170 | 140 | 140 | 140 | 188 | 215 | 215 | 176 |
| 3 CM-132 x HKI 1040-11 | 195 | 154 | 153 | 154 | 145 | 132 | 139 | 185 | 197 | 197 | 166 |
| 4 HKI 1105 x LM 9 | 208 | 172 | 156 | 164 | 125 | 139 | 132 | 174 | 190 | 190 | 166 |
| 5 CM 134 x HKI 1128 | 210 | 185 | 195 | 190 | 165 | 165 | 165 | 184 | 212 | 212 | 188 |
| 6 DK 5644-1 x HKI 323- | 188 | 168 | 152 | 160 | 149 | 135 | 142 | 171 | 195 | 195 | 165 |
| 7 HKI 323 x NAI 105 | 193 | 156 | 175 | 166 | 156 | 132 | 144 | 184 | 188 | 188 | 169 |
| 8 HKI 161 x DMRQPM-58 | 208 | 174 | 175 | 175 | 133 | 147 | 140 | 187 | 223 | 223 | 178 |
| 9 CLQ-47 x HKI 164-7-6 | 235 | 181 | 185 | 183 | 149 | 148 | 149 | 197 | 227 | 227 | 189 |
| 10 HKI 161 x CLQ-30 | 210 | 157 | 168 | 163 | 155 | 131 | 143 | 194 | 213 | 213 | 175 |
| 11 DMRQPM-58 x HKI 161 | 209 | 162 | 165 | 164 | 160 | 127 | 143 | 182 | 213 | 213 | 174 |
| CHECKS | | | | | | | | | | | |
| 12 BIO - 9681 | 198 | 157 | 138 | 148 | 132 | 142 | 137 | 164 | 193 | 193 | 160 |
| 13 SEEDTEC - 2324 | 198 | 167 | 169 | 168 | 134 | 131 | 133 | 173 | 193 | 193 | 166 |
| 14 HQPM - 1 | 199 | 154 | 170 | 162 | 133 | 139 | 136 | 172 | 192 | 192 | 165 |
| 15 HQPM - 7 | 210 | 157 | 178 | 168 | 154 | 144 | 149 | 192 | 222 | 222 | 180 |
| Loc. Mean | 204 | 166 | 168 | 167 | 145 | 139 | 142 | 183 | 205 | 205 | 173 |
| C.D. (5%) | 24.6 | 18.9 | 21.6 | 18.9 | 23.4 | 7.5 | 21.8 | 12.7 | 13.8 | 13.8 | 9.1 |
| C.V. (%) | 5.6 | 6.8 | 7.7 | 5.3 | 9.7 | 3.2 | 7.1 | 4.2 | 4.0 | 4.0 | 5.0 |
| F (Prob.) | 0.12 | 0.02 | 0.00 | 0.03 | 0.03 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 32 (Continued)

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

TABLE No. 32 (Continued)

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

TABLE No. 32 (Continued)

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

TABLE No.33

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

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

TABLE No.33 (Continued)

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

TABLE No.33 (Continued)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED SRIN | DAYS TO 50% SILKING SRIN | DAYS TO 75% DRY HUSK SRIN | MOISTURE % AT HARVEST SRIN | PLANT HEIGHT (cm) SRIN | EAR HEIGHT (cm) SRIN | GRAIN SHELLING % SRIN | STAND ('000/ha) SRIN |
|-------|---------------|------------------------------------|--------------------------------|---------------------------------|----------------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|
| 1 | J H - 11662 | 90.7 | 93.3 | 149.7 | 35.0 | 152 | 97 | 76.5 | 83 |
| 2 | J H - 11652 | 86.3 | 89.0 | 151.0 | 31.5 | 141 | 85 | 77.5 | 83 |
| 3 | J H - 11858 | 86.3 | 89.0 | 145.0 | 32.5 | 168 | 103 | 76.5 | 83 |
| 4 | J H - 11925 | 73.3 | 76.3 | 142.7 | 27.5 | 170 | 88 | 78.5 | 83 |
| 5 | J H - 12046 | 74.7 | 77.7 | 146.3 | 25.0 | 148 | 80 | 79.5 | 83 |
| 6 | G H - 0704 | 65.7 | 68.7 | 144.7 | 22.5 | 148 | 68 | 79.5 | 82 |
| 7 | G H - 0727 | 68.0 | 71.3 | 139.0 | 22.0 | 158 | 88 | 79.8 | 83 |
| 8 | KMH - 40876 | 74.7 | 77.3 | 143.7 | 24.5 | 148 | 85 | 78.0 | 82 |
| 9 | E H K - 40008 | 75.7 | 78.0 | 144.0 | 24.0 | 168 | 83 | 78.5 | 83 |
| 10 | E H K - 40108 | 74.0 | 76.7 | 144.0 | 22.0 | 143 | 82 | 78.0 | 83 |
| 11 | B H - 407135 | 78.3 | 81.0 | 143.0 | 23.5 | 153 | 83 | 77.0 | 83 |
| 12 | B H - 407138 | 68.7 | 72.0 | 138.3 | 21.0 | 175 | 85 | 78.5 | 83 |
| 13 | B H - 407139 | 69.7 | 73.0 | 142.3 | 20.5 | 155 | 73 | 79.0 | 83 |
| 14 | B H - 408001 | 70.0 | 73.0 | 139.0 | 20.0 | 155 | 78 | 79.8 | 83 |
| 15 | B H - 408002 | 70.0 | 72.7 | 139.0 | 20.0 | 152 | 70 | 78.0 | 82 |
| 16 | B H - 408004 | 74.0 | 76.7 | 145.3 | 21.0 | 145 | 77 | 78.0 | 81 |
| 17 | X 7B 401 | 73.7 | 76.3 | 123.7 | 21.0 | 165 | 88 | 77.5 | 83 |
| 18 | X 7B 403 | 67.0 | 69.7 | 135.0 | 21.5 | 147 | 55 | 78.3 | 82 |
| 19 | LAXMI - 9495 | 68.0 | 71.3 | 134.7 | 22.0 | 155 | 83 | 78.0 | 83 |
| 20 | G K - 3057 | 69.3 | 72.7 | 134.3 | 20.5 | 165 | 90 | 79.5 | 82 |
| 21 | G K - 3059 | 63.7 | 66.3 | 133.7 | 18.5 | 165 | 88 | 79.8 | 83 |
| 22 | G K - 3636 | 62.3 | 65.0 | 141.3 | 21.5 | 157 | 80 | 78.8 | 83 |
| 23 | PAC - 745 | 76.7 | 79.0 | 144.0 | 24.5 | 170 | 82 | 78.0 | 83 |
| 24 | PAC - 746 | 77.0 | 79.7 | 139.3 | 22.0 | 175 | 93 | 78.5 | 83 |
| 25 | I M H - 111 | 67.0 | 70.0 | 141.0 | 21.5 | 155 | 77 | 78.3 | 83 |
| 26 | M O5 008 | 67.0 | 69.7 | 149.7 | 23.0 | 165 | 88 | 77.0 | 83 |
| 27 | PHS - 520247 | 73.0 | 75.3 | 149.3 | 23.0 | 145 | 78 | 76.0 | 82 |
| 28 | PHS - 620214 | 75.7 | 78.3 | 148.0 | 20.0 | 175 | 100 | 77.5 | 83 |

TABLE No.33 (Continued)

| S1 No | PEDIGREE | DAYS TO 50% POLLEN SHED SRIN | DAYS TO 50% SILKING SRIN | DAYS TO 75% DRY HUSK SRIN | MOISTURE % AT HARVEST SRIN | PLANT HEIGHT (cm) SRIN | EAR HEIGHT (cm) SRIN | GRAIN SHELLING % SRIN | STAND ('000/ha) SRIN |
|----------|-----------------|------------------------------------|--------------------------------|---------------------------------|----------------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|
| 29 | PFMH - 9733 | 62.0 | 64.7 | 136.7 | 16.5 | 155 | 90 | 79.5 | 83 |
| 30 | PFMH - 9737 | 62.7 | 65.3 | 137.0 | 18.0 | 150 | 72 | 79.5 | 83 |
| 31 | SMH - 4500 | 70.7 | 73.3 | 145.7 | 25.0 | 155 | 85 | 79.8 | 83 |
| 32 | SMH - 4502 | 85.3 | 87.7 | 150.3 | 25.5 | 140 | 68 | 78.5 | 82 |
| 33 | KDMH - 104 | 81.3 | 84.0 | 149.3 | 30.0 | 143 | 65 | 79.0 | 82 |
| 34 | JKMH - 8001 | 71.3 | 74.0 | 137.3 | 20.5 | 118 | 55 | 79.8 | 81 |
| 35 | JKMH - 8003 | 85.7 | 87.7 | 146.3 | 26.0 | 117 | 57 | 79.5 | 108 |
| 36 | PRO - 374 | 85.3 | 88.0 | 140.0 | 25.5 | 123 | 67 | 80.0 | 83 |
| 37 | PRO - 375 | 75.3 | 81.7 | 139.7 | 21.5 | 127 | 68 | 80.5 | 83 |
| 38 | BISCO - 777 | 70.3 | 73.0 | 138.3 | 20.0 | 115 | 59 | 80.0 | 83 |
| 39 | BISCO - 4564 | 66.3 | 69.3 | 135.3 | 20.0 | 127 | 63 | 79.8 | 83 |
| 40 | KMH - 3669 | 68.7 | 71.7 | 135.3 | 20.0 | 130 | 53 | 79.8 | 83 |
| 41 | KMH SUPER - 244 | 72.3 | 75.0 | 144.3 | 20.5 | 137 | 65 | 79.8 | 83 |
| 42 | B L - 2801 | 89.7 | 91.0 | 144.7 | 26.5 | 128 | 73 | 80.8 | 83 |
| 43 | HTCH - 5102 | 86.7 | 89.7 | 144.7 | 25.5 | 110 | 68 | 77.0 | 83 |
| 44 | HTCH - 5401 | 90.3 | 93.0 | 144.3 | 27.0 | 100 | 50 | 78.5 | 83 |
| 45 | POLO | 90.0 | 92.7 | 144.3 | 28.0 | 97 | 45 | 76.0 | 83 |
| 46 | 115 - 08 - 01 | 80.7 | 80.0 | 145.0 | 22.5 | 120 | 68 | 77.3 | 83 |
| 47 | 2000 M | 86.7 | 89.7 | 144.3 | 25.0 | 125 | 68 | 78.0 | 83 |
| 48 | M C H - 38 | 113.3 | 82.7 | 144.0 | 21.5 | 160 | 80 | 78.3 | 83 |
| CHECKS | | | | | | | | | |
| 49 | BIO - 9681 | 84.7 | 87.3 | 138.0 | 19.0 | 135 | 65 | 79.0 | 83 |
| 50 | SEEDTEC - 2324 | 71.0 | 74.0 | 144.0 | 19.5 | 168 | 78 | 79.0 | 83 |
| 51 | PARBHAT | 73.0 | 76.0 | 144.3 | 18.0 | 175 | 103 | 79.3 | 82 |
| | LocMean | 75.8 | 77.8 | 142.0 | 23.0 | 147 | 76 | 78.6 | 83 |
| | C.D. (5%) | 15.23 | 7.00 | 8.61 | 1.77 | 8.9 | 7.6 | 0.58 | 10.9 |
| | C.V. (%) | 12.41 | 5.55 | 3.74 | 4.76 | 3.7 | 6.1 | 0.46 | 8.1 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 | 0.0 | 0.00 | 0.69 |

TABLE No. 34

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

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE MALVIYA HYBRID - 2 | | | GRAIN YIELD % SUPERIORITY OVER THE H M - 9 | | |
|----------|---------------------|-------------------------------------|----|------|----|--------------|----|--|------|------|---|------|------|
| | | SRIN | R | JORH | R | ZN 1 MEAN | R | SRIN | JORH | MEAN | SRIN | JORH | MEAN |
| 1 | J H - 12048 | 2621 | 38 | 6554 | 1 | 4587 | 6 | | | | | | |
| 2 | J H - 31150 | 2817 | 35 | 5539 | 5 | 4178 | 15 | - | 51.6 | 11.3 | - | 48.2 | 24 |
| 3 | J H - 31196 | 3477 | 19 | 4793 | 19 | 4135 | 19 | - | 28.1 | 1.4 | - | 25.2 | 13 |
| 4 | J H - 31240 | 2721 | 36 | 5138 | 12 | 3929 | 27 | - | 10.9 | 0.3 | 16.9 | 8.4 | 11.8 |
| 5 | J H - 31242 | 3127 | 30 | 4475 | 25 | 3801 | 31 | - | 18.9 | - | - | 16.2 | 6.2 |
| 6 | L - 235 | 3400 | 22 | 3817 | 35 | 3609 | 34 | - | 3.5 | - | 5.1 | 1.2 | 2.8 |
| 7 | PRATAP - 3 (FILLER) | 3188 | 28 | 4129 | 31 | 3659 | 33 | - | - | - | 14.3 | - | - |
| 8 | MMH - 07 - 5 | 3130 | 29 | 4943 | 15 | 4036 | 24 | - | - | - | 7.2 | - | - |
| 9 | MMH - 07 - 6 | 3071 | 32 | 3547 | 37 | 3309 | 37 | - | 14.4 | - | 5.2 | 11.8 | 9.1 |
| 10 | PMH- 1 (FILLER) | 3397 | 23 | 4885 | 16 | 4141 | 18 | - | - | - | 3.2 | - | - |
| 11 | WBHM - 4 | 2662 | 37 | 5472 | 6 | 4067 | 23 | - | 13 | 0.5 | 14.2 | 10.5 | 12 |
| 12 | COMP. R - 2006-2 | 3818 | 9 | 5367 | 9 | 4593 | 5 | - | 26.6 | - | - | 23.7 | 10 |
| 13 | E H - 1858 | 3454 | 20 | 4373 | 27 | 3913 | 28 | - | 24.2 | 11.4 | 28.3 | 21.4 | 24.2 |
| 14 | E H - 1877 | 3274 | 25 | 4982 | 13 | 4128 | 20 | - | 1.2 | - | 16.1 | - | 5.8 |
| 15 | E C - 3157 | 3396 | 24 | 3663 | 36 | 3530 | 36 | - | 15.3 | 0.2 | 10.1 | 12.6 | 11.6 |
| 16 | E C - 3158 | 3055 | 33 | 3267 | 38 | 3161 | 38 | - | - | - | 14.2 | - | - |
| 17 | E C - 3159 | 3208 | 26 | 3939 | 34 | 3573 | 35 | - | - | - | 2.7 | - | - |
| 18 | E C - 3160 | 3206 | 27 | 4947 | 14 | 4076 | 22 | - | - | - | 7.8 | - | - |
| 19 | A H - 7023 | 3492 | 18 | 4333 | 28 | 3912 | 29 | - | 14.4 | - | 7.8 | 11.8 | 10.2 |
| 20 | V E H - 07 - 2 | 3411 | 21 | 5378 | 8 | 4394 | 8 | - | 0.2 | - | 17.4 | - | 5.8 |
| 21 | B H - 40707 | 3675 | 15 | 4247 | 30 | 3961 | 25 | - | 24.4 | 6.6 | 14.7 | 21.6 | 18.8 |
| 22 | B H - 40775 | 3881 | 6 | 5204 | 11 | 4542 | 7 | - | - | - | 23.5 | - | 7.1 |
| 23 | B H - 406126 | 3806 | 11 | 4733 | 20 | 4269 | 11 | - | 20.4 | 10.2 | 30.5 | 17.7 | 22.8 |
| 24 | B H - 407140 | 3936 | 3 | 4648 | 21 | 4292 | 10 | - | 9.5 | 3.6 | 27.9 | 7 | 15.4 |

TABLE No. 34 (Cont..)

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

TABLE No. 34 (Cont..)

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

TABLE No. 34 (Cont..)

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

TABLE No. 34 (Cont..)

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

TABLE No. 34 (Cont..)

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

TABLE No. 35

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

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

TABLE No. 35 (Cont..)

| S1 No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE KIRAN | | | GRAIN YIELD % SUPERIORITY OVER THE PARKASH | | |
|----------|----------------------|--|----|-------|----|--------------|----|---|------|--------------|---|------|--------------|
| | | SRIN | R | JORH | R | ZN 1 MEAN | R | SRIN | JORH | ZN 1 MEAN | SRIN | JORH | ZN 1 MEAN |
| 20 | U M C - 10 | 3538 | 13 | 3086 | 28 | 3312 | 28 | - | - | - | - | - | - |
| 21 | U M C - 11 | 3295 | 22 | 3092 | 27 | 3194 | 29 | - | - | - | - | - | - |
| 22 | U M C - 12 | 3945 | 1 | 3289 | 25 | 3617 | 20 | 8.3 | - | - | 4.8 | - | - |
| 23 | K H - 121 | 3809 | 4 | 7756 | 1 | 5782 | 1 | 4.6 | 45.1 | 28.7 | 1.2 | 49 | 28.9 |
| 24 | 85 - 08 - 11 | 3596 | 10 | 4270 | 17 | 3933 | 12 | - | - | - | - | - | - |
| 25 | LAXMI - 207 | 3544 | 12 | 3637 | 22 | 3590 | 22 | - | - | - | - | - | - |
| 26 | M 06 - 108 | 3899 | 3 | 4666 | 13 | 4282 | 10 | 7 | - | - | 3.6 | - | - |
| 27 | BISCO - 2225 | 3316 | 19 | 4221 | 18 | 3769 | 19 | - | - | - | - | - | - |
| | CHECKS | | | | | | | | | | | | |
| 28 | KIRAN | 3643 | 8 | 5344 | 8 | 4493 | 6 | - | - | - | - | 2.7 | 0.2 |
| 29 | PARKASH | 3764 | 5 | 5204 | 9 | 4484 | 7 | 3.3 | - | - | - | - | - |
| 30 | NARMADA MOTI | 3230 | 25 | 3041 | 30 | 3136 | 30 | - | - | - | - | - | - |
| 31 | PRATAP MAKKA 5 | 3184 | 28 | 3080 | 29 | 3132 | 31 | - | - | - | - | - | - |
| 32 | J K M H - 1701 | 3308 | 21 | 4468 | 16 | 3888 | 14 | - | - | - | - | - | - |
| | Location Mean | 3437 | | 4400 | | 3919 | | | | | | | |
| | Mean Stand | 39 | | 27 | | 33 | | | | | | | |
| | C.D. (5%) | 755 | | 665 | | 710 | | | | | | | |
| | C.V. (%) | 13.46 | | 9.26 | | - | | | | | | | |
| | F (Prob) | 0.252 | | 0 | | - | | | | | | | |
| | Plot Size | 4.8 | | 4.8 | | - | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | |
| | Sowing Date | 24-04 | | 7-03 | | - | | | | | | | |
| | Harvest Date | 10-10 | | 27-06 | | - | | | | | | | |
| | Irrigation Nos | 3 | | - | | - | | | | | | | |
| | Fertilizer Applied N | 90 | | 80 | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | - | | | | | | | |
| | Fertilizer Applied K | 40 | | 40 | | - | | | | | | | |

TABLE No. 35 (Cont..)

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

TABLE No. 35 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | |
|--------|----------------|-------------------------|------|-----------|---------------------|------|-----------|----------------------|-------|-----------|-----------------------|------|-----------|
| | | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | J H - 31192 | 74.0 | 66.0 | 70.0 | 77.0 | 69.3 | 73.2 | 132.3 | 107.7 | 120.0 | 13.5 | 17.3 | 15.4 |
| 2 | J H - 31197 | 75.3 | 68.7 | 72.0 | 78.0 | 72.3 | 75.2 | 131.3 | 108.3 | 119.8 | 19.0 | 18.3 | 18.7 |
| 3 | J H - 31121 | 84.0 | 70.3 | 77.2 | 86.3 | 73.3 | 79.8 | 131.0 | 109.3 | 120.2 | 13.5 | 18.1 | 15.8 |
| 4 | J H - 31184 | 85.3 | 67.7 | 76.5 | 88.0 | 70.7 | 79.3 | 133.3 | 108.0 | 120.7 | 21.0 | 18.8 | 19.9 |
| 5 | TRM -5-OY-1 | 86.3 | 68.3 | 77.3 | 88.3 | 71.3 | 79.8 | 133.0 | 106.0 | 119.5 | 19.5 | 16.6 | 18.0 |
| 6 | TRM -6-1 | 88.3 | 68.7 | 78.5 | 90.7 | 71.7 | 81.2 | 134.3 | 107.7 | 121.0 | 15.5 | 18.7 | 17.1 |
| 7 | KLM - 9 | 72.7 | 65.0 | 68.8 | 75.7 | 68.0 | 71.8 | 129.3 | 107.7 | 118.5 | 14.5 | 19.1 | 16.8 |
| 8 | KLM - 11 | 74.7 | 70.0 | 72.3 | 77.3 | 73.3 | 75.3 | 97.0 | 106.0 | 101.5 | 12.0 | 16.0 | 14.0 |
| 9 | KLM - 15 | 71.3 | 66.7 | 69.0 | 74.3 | 70.0 | 72.2 | 129.0 | 108.0 | 118.5 | 14.0 | 18.4 | 16.2 |
| 10 | MEH - 07 - 1 | 77.0 | 68.0 | 72.5 | 79.7 | 71.0 | 75.3 | 127.7 | 106.3 | 117.0 | 15.0 | 17.9 | 16.4 |
| 11 | MEH - 07 - 3 | 77.7 | 67.7 | 72.7 | 80.7 | 70.7 | 75.7 | 126.7 | 106.0 | 116.3 | 14.0 | 18.4 | 16.2 |
| 12 | E H - 1871 | 75.0 | 64.3 | 69.7 | 77.7 | 67.3 | 72.5 | 127.7 | 107.7 | 117.7 | 16.0 | 16.7 | 16.4 |
| 13 | E H - 1916 | 76.3 | 70.0 | 73.2 | 79.0 | 73.3 | 76.2 | 131.3 | 108.7 | 120.0 | 16.0 | 17.1 | 16.6 |
| 14 | A H - 7007 | 77.3 | 67.0 | 72.2 | 80.0 | 70.0 | 75.0 | 130.7 | 107.0 | 118.8 | 21.5 | 18.1 | 19.8 |
| 15 | PMC - 2 | 84.7 | 70.0 | 77.3 | 87.3 | 73.0 | 80.2 | 133.0 | 107.0 | 120.0 | 15.5 | 19.2 | 17.3 |
| 16 | COMP. R-2006-1 | 76.7 | 73.0 | 74.8 | 79.7 | 76.7 | 78.2 | 131.0 | 109.3 | 120.2 | 19.0 | 19.6 | 19.3 |
| 17 | COMP. R-2007-1 | 76.7 | 65.0 | 70.8 | 79.7 | 68.0 | 73.8 | 131.0 | 107.7 | 119.3 | 19.0 | 16.6 | 17.8 |
| 18 | E H K - 30508 | 76.7 | 70.3 | 73.5 | 79.3 | 73.3 | 76.3 | 130.3 | 109.0 | 119.7 | 13.0 | 18.1 | 15.6 |
| 19 | V E H - 07 - 6 | 75.7 | 68.0 | 71.8 | 78.3 | 71.0 | 74.7 | 131.0 | 107.3 | 119.2 | 16.5 | 18.1 | 17.3 |
| 20 | U M C - 10 | 73.7 | 68.0 | 70.8 | 76.7 | 71.3 | 74.0 | 131.3 | 105.3 | 118.3 | 14.5 | 18.5 | 16.5 |
| 21 | U M C - 11 | 72.7 | 66.3 | 69.5 | 75.3 | 69.3 | 72.3 | 131.0 | 108.3 | 119.7 | 14.5 | 18.2 | 16.3 |
| 22 | U M C - 12 | 74.3 | 66.0 | 70.2 | 76.7 | 69.3 | 73.0 | 130.0 | 105.7 | 117.8 | 13.0 | 17.3 | 15.2 |
| 23 | K H - 121 | 76.0 | 64.7 | 70.3 | 78.3 | 67.7 | 73.0 | 130.7 | 107.7 | 119.2 | 13.5 | 18.2 | 15.9 |
| 24 | 85 - 08 - 11 | 75.7 | 69.0 | 72.3 | 78.7 | 72.0 | 75.3 | 130.7 | 109.0 | 119.8 | 13.5 | 18.3 | 15.9 |
| 25 | LAXMI - 207 | 77.0 | 72.3 | 74.7 | 80.3 | 75.3 | 77.8 | 130.3 | 108.0 | 119.2 | 12.5 | 23.1 | 17.8 |
| 26 | M 06 - 108 | 73.7 | 68.3 | 71.0 | 76.3 | 71.3 | 73.8 | 130.3 | 107.3 | 118.8 | 14.0 | 17.7 | 15.8 |
| 27 | BISCO - 2225 | 73.7 | 64.0 | 68.8 | 76.3 | 67.0 | 71.7 | 130.3 | 106.7 | 118.5 | 14.0 | 17.2 | 15.6 |
| CHECKS | | | | | | | | | | | | | |
| 28 | KIRAN | 74.3 | 68.0 | 71.2 | 77.0 | 71.3 | 74.2 | 129.3 | 104.7 | 117.0 | 13.5 | 17.2 | 15.4 |
| 29 | PARKASH | 75.7 | 51.0 | 63.3 | 78.7 | 67.3 | 73.0 | 129.7 | 106.0 | 117.8 | 12.5 | 16.9 | 14.7 |
| 30 | NARMADA MOTI | 73.3 | 66.0 | 69.7 | 75.7 | 69.0 | 72.3 | 132.7 | 105.7 | 119.2 | 19.5 | 17.4 | 18.4 |
| 31 | PRATAP MAKKA 5 | 76.0 | 68.7 | 72.3 | 78.7 | 71.7 | 75.2 | 129.3 | 108.3 | 118.8 | 19.0 | 17.0 | 18.0 |
| 32 | J K M H - 1701 | 76.0 | 69.3 | 72.7 | 79.0 | 72.7 | 75.8 | 131.0 | 108.0 | 119.5 | 17.0 | 18.4 | 17.7 |
| | Loc. Mean | 76.8 | 67.4 | 72.1 | 79.5 | 70.9 | 75.2 | 129.6 | 107.4 | 118.5 | 15.6 | 18.0 | 16.8 |
| | C.D. (5%) | 0.87 | 8.23 | 7.08 | 1.15 | 4.79 | 5.81 | 16.74 | 2.82 | 8.67 | 0.80 | 0.51 | 4.42 |
| | C.V. (%) | 0.69 | 7.49 | 4.81 | 0.89 | 4.14 | 3.78 | 7.91 | 1.61 | 3.59 | 3.15 | 1.74 | 12.91 |
| | F (Prob.) | 0.00 | 0.05 | 0.09 | 0.00 | 0.02 | 0.06 | 0.38 | 0.09 | 0.31 | 0.00 | 0.00 | 0.63 |

TABLE No. 35 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | EAR HEIGHT (cm) | | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | |
|----------|----------------|-------------------|------|--------------|-----------------|------|--------------|------------------|------|--------------|--------------------------------|------|--------------|
| | | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | J H - 31192 | 120 | 162 | 141 | 55 | 61 | 58 | 80.5 | 84.3 | 82.4 | 83 | 64 | 74 |
| 2 | J H - 31197 | 150 | 160 | 155 | 75 | 58 | 67 | 79.8 | 80.6 | 80.2 | 83 | 63 | 73 |
| 3 | J H - 31121 | 113 | 155 | 134 | 63 | 53 | 58 | 80.5 | 75.7 | 78.1 | 81 | 51 | 66 |
| 4 | J H - 31184 | 128 | 163 | 146 | 65 | 67 | 66 | 85.8 | 75.5 | 80.6 | 81 | 62 | 72 |
| 5 | TRM -5-OY-1 | 117 | 152 | 134 | 57 | 54 | 56 | 86.5 | 80.0 | 83.3 | 82 | 55 | 68 |
| 6 | TRM -6-1 | 75 | 180 | 128 | 53 | 74 | 64 | 79.5 | 76.7 | 78.1 | 81 | 56 | 68 |
| 7 | KLM - 9 | 115 | 160 | 138 | 50 | 65 | 58 | 79.8 | 83.5 | 81.6 | 81 | 63 | 72 |
| 8 | KLM - 11 | 120 | 150 | 135 | 60 | 51 | 56 | 80.5 | 76.7 | 78.6 | 83 | 43 | 63 |
| 9 | KLM - 15 | 122 | 163 | 142 | 57 | 55 | 56 | 79.0 | 79.7 | 79.4 | 83 | 63 | 73 |
| 10 | MEH - 07 - 1 | 112 | 161 | 136 | 57 | 63 | 60 | 78.3 | 81.1 | 79.7 | 80 | 63 | 72 |
| 11 | MEH - 07 - 3 | 117 | 167 | 142 | 53 | 63 | 58 | 79.8 | 78.1 | 78.9 | 83 | 63 | 73 |
| 12 | E H - 1871 | 122 | 155 | 139 | 67 | 68 | 67 | 79.0 | 80.4 | 79.7 | 83 | 63 | 73 |
| 13 | E H - 1916 | 123 | 163 | 143 | 77 | 65 | 71 | 79.0 | 81.5 | 80.2 | 82 | 42 | 62 |
| 14 | A H - 7007 | 137 | 155 | 146 | 80 | 60 | 70 | 78.0 | 75.7 | 76.8 | 83 | 49 | 66 |
| 15 | PMC - 2 | 147 | 173 | 160 | 85 | 71 | 78 | 79.5 | 73.5 | 76.5 | 83 | 43 | 63 |
| 16 | COMP. R-2006-1 | 140 | 178 | 159 | 78 | 80 | 79 | 80.5 | 78.4 | 79.4 | 83 | 63 | 73 |
| 17 | COMP. R-2007-1 | 145 | 169 | 157 | 77 | 65 | 71 | 81.0 | 78.9 | 79.9 | 83 | 52 | 67 |
| 18 | E H K - 30508 | 142 | 180 | 161 | 75 | 75 | 75 | 80.0 | 73.9 | 76.9 | 82 | 65 | 74 |
| 19 | V E H - 07 - 6 | 138 | 172 | 155 | 88 | 74 | 81 | 80.0 | 77.7 | 78.9 | 81 | 69 | 75 |
| 20 | U M C - 10 | 160 | 151 | 155 | 90 | 56 | 73 | 82.5 | 72.9 | 77.7 | 83 | 58 | 70 |
| 21 | U M C - 11 | 127 | 163 | 145 | 60 | 63 | 62 | 80.8 | 79.0 | 79.9 | 83 | 43 | 63 |
| 22 | U M C - 12 | 130 | 159 | 144 | 305 | 68 | 187 | 81.8 | 80.4 | 81.1 | 83 | 52 | 67 |
| 23 | K H - 121 | 138 | 181 | 160 | 72 | 73 | 72 | 78.5 | 81.6 | 80.1 | 82 | 72 | 77 |
| 24 | 85 - 08 - 11 | 128 | 160 | 144 | 77 | 65 | 71 | 78.8 | 74.4 | 76.6 | 83 | 57 | 70 |
| 25 | LAXMI - 207 | 137 | 158 | 147 | 73 | 65 | 69 | 78.5 | 75.6 | 77.1 | 82 | 49 | 66 |
| 26 | M 06 - 108 | 150 | 173 | 162 | 90 | 74 | 82 | 77.8 | 76.9 | 77.3 | 81 | 64 | 73 |
| 27 | BISCO - 2225 | 132 | 156 | 144 | 63 | 57 | 60 | 78.5 | 81.9 | 80.2 | 82 | 63 | 72 |
| CHECKS | | | | | | | | | | | | | |
| 28 | KIRAN | 133 | 171 | 152 | 72 | 74 | 73 | 79.5 | 77.1 | 78.3 | 81 | 71 | 76 |
| 29 | PARKASH | 145 | 163 | 154 | 74 | 65 | 70 | 80.8 | 83.9 | 82.3 | 83 | 63 | 73 |
| 30 | NARMADA MOTI | 132 | 172 | 152 | 70 | 69 | 69 | 79.8 | 71.7 | 75.7 | 83 | 44 | 64 |
| 31 | PRATAP MAKKA 5 | 135 | 157 | 146 | 68 | 65 | 67 | 80.3 | 84.8 | 82.5 | 81 | 42 | 61 |
| 32 | J K M H - 1701 | 127 | 161 | 144 | 57 | 54 | 55 | 79.5 | 79.5 | 79.5 | 83 | 58 | 70 |
| | Loc. Mean | 130 | 164 | 147 | 76 | 65 | 71 | 80.1 | 78.5 | 79.3 | 82 | 57 | 70 |
| | C.D. (5%) | 17.8 | 22.5 | 25.5 | 117 | 19 | 61 | 0.46 | 1.10 | 5.78 | 2.3 | 9.0 | 13.2 |
| | C.V. (%) | 8.40 | 8.40 | 8.52 | 94.1 | 18.2 | 42.6 | 0.35 | 0.86 | 3.58 | 1.7 | 9.7 | 9.3 |
| | F (Prob.) | 0.00 | 0.26 | 0.45 | 0.4 | 0.3 | 0.4 | 0.00 | 0.00 | 0.59 | 0.2 | 0.0 | 0.6 |

TABLE No. 36

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

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

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

| No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HIM - 129 | | | GRAIN YIELD % SUPERIORITY OVER THE SURYA | | | | | | | | |
|--------|------------|--|------|------|--|------|------|----------------------|-------|-------|-----------------------|------|------|
| | | SRIN | JORH | MEAN | SRIN | JORH | MEAN | | | | | | |
| 1 | F H - 3463 | 9.1 | 37.9 | 27.5 | - | 17.1 | 9.3 | | | | | | |
| 2 | F H - 3464 | 13 | 47.1 | 34.8 | - | 24.9 | 15.5 | | | | | | |
| 3 | F H - 3473 | 0.7 | 38 | 24.6 | - | 17.2 | 6.7 | | | | | | |
| 4 | FQH - 55 | - | 32.7 | 19.9 | - | 12.7 | 2.7 | | | | | | |
| 5 | E H - 1928 | 12.2 | 6.5 | 8.6 | - | - | - | | | | | | |
| 6 | A H - 7003 | 4.7 | 38 | 26 | - | 17.2 | 8 | | | | | | |
| 7 | A H - 7025 | 14.2 | 33.8 | 26.8 | - | 13.7 | 8.6 | | | | | | |
| 8 | A H - 7026 | 17.3 | 8.5 | 11.7 | 2.1 | - | - | | | | | | |
| 9 | A H - 7027 | 23.9 | 22.7 | 23.2 | 7.9 | 4.2 | 5.5 | | | | | | |
| 10 | A H - 7028 | 16.3 | 7.2 | 10.5 | 1.2 | - | - | | | | | | |
| CHECKS | | | | | | | | | | | | | |
| 11 | VIVEK QPM9 | 63.6 | 40.5 | 48.8 | 42.4 | 19.3 | 27.5 | | | | | | |
| 12 | HIM - 129 | - | - | - | - | - | - | | | | | | |
| 13 | VIVEK - 17 | 22 | 34.5 | 30 | 6.2 | 14.3 | 11.4 | | | | | | |
| 14 | SURYA | 14.9 | 17.8 | 16.7 | - | - | - | | | | | | |
| No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | |
| | | SRIN | JORH | Mean | SRIN | JORH | Mean | SRIN | JORH | Mean | SRIN | JORH | Mean |
| 1 | F H - 3463 | 74.0 | 58.7 | 66.3 | 76.7 | 61.7 | 69.2 | 140.0 | 101.0 | 120.5 | 13.0 | 17.1 | 15.1 |
| 2 | F H - 3464 | 78.0 | 56.7 | 67.3 | 79.7 | 59.7 | 69.7 | 141.3 | 98.7 | 120.0 | 12.0 | 17.5 | 14.8 |
| 3 | F H - 3473 | 75.3 | 58.0 | 66.7 | 77.3 | 61.0 | 69.2 | 140.0 | 101.3 | 120.7 | 14.5 | 16.9 | 15.7 |
| 4 | FQH - 55 | 77.7 | 57.7 | 67.7 | 79.3 | 60.7 | 70.0 | 139.7 | 100.3 | 120.0 | 12.5 | 17.7 | 15.1 |
| 5 | E H - 1928 | 78.7 | 58.3 | 68.5 | 80.0 | 61.3 | 70.7 | 143.0 | 100.7 | 121.8 | 13.5 | 17.5 | 15.5 |
| 6 | A H - 7003 | 80.7 | 60.0 | 70.3 | 82.3 | 63.0 | 72.7 | 144.7 | 102.0 | 123.3 | 16.5 | 17.9 | 17.2 |
| 7 | A H - 7025 | 82.3 | 61.7 | 72.0 | 84.3 | 64.7 | 74.5 | 143.7 | 102.0 | 122.8 | 13.0 | 16.9 | 14.9 |
| 8 | A H - 7026 | 80.7 | 58.0 | 69.3 | 82.3 | 61.0 | 71.7 | 141.3 | 100.7 | 121.0 | 12.5 | 16.5 | 14.5 |
| 9 | A H - 7027 | 81.7 | 60.3 | 71.0 | 83.7 | 63.3 | 73.5 | 141.3 | 103.0 | 122.2 | 14.5 | 17.5 | 16.0 |
| 10 | A H - 7028 | 80.3 | 62.3 | 71.3 | 82.3 | 65.3 | 73.8 | 142.3 | 104.3 | 123.3 | 18.5 | 18.4 | 18.4 |
| CHECKS | | | | | | | | | | | | | |
| 11 | VIVEK QPM9 | 76.0 | 57.0 | 66.5 | 78.0 | 60.0 | 69.0 | 141.0 | 99.3 | 120.2 | 12.5 | 16.4 | 14.5 |
| 12 | HIM - 129 | 75.7 | 58.7 | 67.2 | 77.7 | 61.7 | 69.7 | 140.3 | 100.7 | 120.5 | 15.0 | 17.9 | 16.4 |
| 13 | VIVEK - 17 | 74.7 | 56.7 | 65.7 | 76.3 | 59.7 | 68.0 | 138.3 | 100.0 | 119.2 | 12.5 | 16.5 | 14.5 |
| 14 | SURYA | 78.7 | 56.7 | 67.7 | 80.7 | 59.7 | 70.2 | 138.7 | 98.7 | 118.7 | 12.5 | 17.1 | 14.8 |
| | Loc. Mean | 78.2 | 58.6 | 68.4 | 80.0 | 61.6 | 70.8 | 141.1 | 100.9 | 121.0 | 13.8 | 17.3 | 15.5 |
| | C.D. (5%) | 1.29 | 3.85 | 3.27 | 0.97 | 3.85 | 3.03 | 1.42 | 2.96 | 2.61 | 0.74 | 0.49 | 2.28 |
| | C.V. (%) | 0.99 | 3.91 | 2.22 | 0.72 | 3.72 | 1.98 | 0.60 | 1.75 | 1.00 | 3.18 | 1.69 | 6.81 |
| | F (Prob.) | 0.00 | 0.08 | 0.01 | 0.00 | 0.08 | 0.01 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 0.06 |

TABLE No. 36 (Cont..)

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

Table No. 37

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

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

Table No. 37 (Continued)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PARBHAT | | | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | | | |
|----------|----------------|---|------|--------------|----------------------------|------|--------------|---------------------|------|--------------|----------------------|-------|--------------|-------------------------------|------|--------------|
| | | SRIN | JORH | ZN 1 MEAN | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | | | |
| 1 | X 6B 269 | - | 60.5 | 45.4 | 90.0 | 81.0 | 85.5 | 92.3 | 84.3 | 88.3 | 140.3 | 121.3 | 130.8 | | | |
| 2 | K M H - 50 | 4.9 | 14 | 11.8 | 85.0 | 80.3 | 82.6 | 87.5 | 83.5 | 85.5 | 136.0 | 120.3 | 128.1 | | | |
| CHECKS | | | | | | | | | | | | | | | | |
| 3 | BIO - 9681 | 11.2 | - | - | 84.3 | 79.5 | 81.9 | 87.0 | 83.0 | 85.0 | 136.5 | 119.5 | 128.0 | | | |
| 4 | SEEDTEC - 2324 | - | 32.1 | 22.2 | 85.8 | 79.3 | 82.5 | 88.3 | 82.5 | 85.4 | 139.3 | 119.3 | 129.3 | | | |
| 5 | PARBHAT | - | - | - | 90.0 | 80.3 | 85.1 | 92.5 | 84.0 | 88.3 | 138.5 | 119.0 | 128.8 | | | |
| | Loc. Mean | | | | 87.0 | 80.1 | 83.5 | 89.5 | 83.5 | 86.5 | 138.1 | 119.9 | 129.0 | | | |
| | C.D. (5%) | | | | 0.47 | 2.10 | 4.60 | 0.94 | 2.19 | 4.20 | 0.94 | 2.40 | 3.54 | | | |
| | C.V. (%) | | | | 0.35 | 1.70 | 1.98 | 0.68 | 1.70 | 1.75 | 0.44 | 1.30 | 0.99 | | | |
| | F (Prob.) | | | | 0.00 | 0.43 | 0.26 | 0.00 | 0.44 | 0.22 | 0.00 | 0.30 | 0.35 | | | |
| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | PLANT HEIGHT (cm) | | | EAR HEIGHT (cm) | | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | |
| | | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | X 6B 269 | 26.0 | 21.6 | 23.8 | 166 | 212 | 189 | 88 | 100 | 94 | 78.1 | 77.4 | 77.7 | 83 | 69 | 76 |
| 2 | K M H - 50 | 23.8 | 20.1 | 21.9 | 161 | 208 | 184 | 73 | 89 | 81 | 79.8 | 76.9 | 78.3 | 83 | 77 | 80 |
| CHECKS | | | | | | | | | | | | | | | | |
| 3 | BIO - 9681 | 16.5 | 22.2 | 19.3 | 153 | 180 | 166 | 73 | 72 | 72 | 79.9 | 75.6 | 77.7 | 83 | 53 | 68 |
| 4 | SEEDTEC-2324 | 27.0 | 21.6 | 24.3 | 148 | 184 | 166 | 83 | 79 | 81 | 78.5 | 75.7 | 77.1 | 83 | 74 | 79 |
| 5 | PARBHAT | 16.0 | 18.3 | 17.1 | 148 | 199 | 173 | 81 | 91 | 86 | 80.5 | 77.1 | 78.8 | 83 | 61 | 72 |
| | Loc. Mean | 21.9 | 20.7 | 21.3 | 155 | 196 | 176 | 79 | 86 | 83 | 79.4 | 76.5 | 77.9 | 83 | 67 | 75 |
| | C.D. (5%) | 2.09 | 0.19 | 9.45 | 4.9 | 13.4 | 18.7 | 3.9 | 12.1 | 16.6 | 0.69 | 0.34 | 2.54 | 1.4 | 8.6 | 19.8 |
| | C.V. (%) | 6.20 | 0.58 | 15.98 | 2.1 | 4.4 | 3.8 | 3.2 | 9.1 | 7.3 | 0.56 | 0.29 | 1.17 | 1.1 | 8.3 | 9.5 |
| | F (Prob.) | 0.00 | 0.00 | 0.33 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.00 | 0.00 | 0.50 | 1.0 | 0.0 | 0.5 |

TABLE No. 38

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

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE MALVIYA HYBRID - 2 | | |
|----------|----------------------|-------------------------------------|---|-------|---|--------------|---|---|------|--------------|
| | | SRIN | R | JORH | R | ZN 1 MEAN | R | SRIN | JORH | ZN 1 MEAN |
| 1 | J H - 31153 | 2556 | 1 | 8739 | 1 | 5648 | 1 | 22.8 | 99.7 | 74.9 |
| 2 | KLM - 14 | 2183 | 2 | 4384 | 3 | 3284 | 3 | 4.9 | 0.2 | 1.7 |
| 3 | PARBHAT CHECKS | 1933 | 4 | 5685 | 2 | 3809 | 2 | - | 29.9 | 18 |
| 4 | MALVIYA HYBRID - 2 | 2082 | 3 | 4376 | 4 | 3229 | 4 | - | - | - |
| | Location Mean | 2188 | | 5796 | | 3992 | | | | |
| | Mean Stand | 79 | | 47 | | 63 | | | | |
| | C.D. (5%) | 331 | | 1955 | | 1143 | | | | |
| | C.V. (%) | 12.2 | | 27.24 | | - | | | | |
| | F (Prob) | 0.002 | | 0 | | - | | | | |
| | Plot Size | 9.6 | | 9.6 | | - | | | | |
| | AGRONOMY DATA | | | | | | | | | |
| | Sowing Date | 24-04 | | 28-02 | | - | | | | |
| | Harvest Date | 13-10 | | 18-06 | | - | | | | |
| | Irrigation Nos | 3 | | - | | - | | | | |
| | Fertilizer Applied N | 90 | | 80 | | - | | | | |
| | Fertilizer Applied P | 60 | | 40 | | - | | | | |
| | Fertilizer Applied K | 40 | | 40 | | - | | | | |

TABLE No. 38 (Cont..)

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

TABLE No. 39

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6808 DURING KHARIF (2009).

| S1 No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID - 21 | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM 9 | | |
|----------|----------------------|--|------|--------------|---|--------------|------|---|------|--------------|---|------|--------------|
| | | SRIN | R | JORH | R | ZN 1 MEAN | R | SRIN | JORH | ZN 1 MEAN | SRIN | JORH | ZN 1 MEAN |
| 1 | FQH - 38 | 4404 | 1 | 6688 | 3 | 5546 | 1 | 35.6 | - | 7.4 | 44.2 | - | 10.2 |
| | CHECKS | | | | | | | | | | | | |
| 2 | VIVEK HYBRID - 21 | 3248 | 2 | 7077 | 1 | 5162 | 2 | - | - | - | 6.3 | 1 | 2.6 |
| 3 | VIVEK QPM 9 | 3055 | 3 | 7009 | 2 | 5032 | 3 | - | - | - | - | - | - |
| 4 | HIM - 129 | 2702 | 5 | 5196 | 5 | 3949 | 5 | - | - | - | - | - | - |
| 5 | VIVEK - 17 | 2992 | 4 | 6381 | 4 | 4686 | 4 | - | - | - | - | - | - |
| | Location Mean | 3280 | | 6470 | | 4875 | | | | | | | |
| | Mean Stand | 169 | | 59 | | 114 | | | | | | | |
| | C.D. (5%) | 344 | | 1563 | | 953 | | | | | | | |
| | C.V. (%) | 6.73 | | 19.99 | | - | | | | | | | |
| | F (Prob) | 0 | | 0 | | - | | | | | | | |
| | Plot Size | 14.4 | | 9.6 | | - | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | |
| | Sowing Date | 24-04 | | 28-02 | | - | | | | | | | |
| | Harvest Date | 8-10 | | 19-06 | | - | | | | | | | |
| | Irrigation Nos | 3 | | - | | - | | | | | | | |
| | Fertilizer Applied N | 90 | | 80 | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | - | | | | | | | |
| | Fertilizer Applied K | 40 | | 40 | | - | | | | | | | |
| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HIM - 129 | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK - 17 | | | | | |
| | | SRIN | JORH | ZN 1 MEAN | | | | SRIN | JORH | ZN 1 MEAN | | | |
| 1 | FQH - 38 | 63 | 28.7 | 40.4 | | | 47.2 | 4.8 | 18.3 | | | | |
| | CHECKS | | | | | | | | | | | | |
| 2 | VIVEK HYBRID - 21 | 20.2 | 36.2 | 30.7 | | | 8.6 | 10.9 | 10.2 | | | | |
| 3 | VIVEK QPM 9 | 13.1 | 34.9 | 27.4 | | | 2.1 | 9.8 | 7.4 | | | | |
| 4 | HIM - 129 | - | - | - | | | - | - | - | | | | |
| 5 | VIVEK - 17 | 10.7 | 22.8 | 18.7 | | | - | - | - | | | | |

TABLE No. 39 (Cont..)

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

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

TABLE No. 40

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

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

TABLE No. 40 (Cont..)

| Sl No | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | |
|----------|-------------------------|------|--------------|---------------------|------|--------------|----------------------|-------|--------------|----------------------------|------|--------------|
| | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | 79.6 | 62.0 | 70.8 | 82.1 | 64.8 | 73.4 | 126.8 | 106.1 | 116.4 | 17.8 | 19.0 | 18.4 |
| CHECKS | | | | | | | | | | | | |
| 2 | 84.3 | 63.4 | 73.8 | 86.5 | 66.6 | 76.6 | 139.4 | 105.5 | 122.4 | 16.3 | 18.4 | 17.3 |
| 3 | 78.5 | 65.0 | 71.8 | 81.0 | 69.3 | 75.1 | 135.8 | 106.0 | 120.9 | 16.5 | 19.9 | 18.2 |
| | 80.8 | 63.5 | 72.1 | 83.2 | 66.9 | 75.0 | 134.0 | 105.9 | 119.9 | 16.8 | 19.1 | 18.0 |
| | 1.17 | 2.16 | 11.25 | 1.31 | 1.91 | 12.66 | 21.48 | 1.13 | 20.63 | 0.48 | 0.10 | 3.21 |
| | 1.35 | 3.17 | 3.62 | 1.47 | 2.66 | 3.92 | 14.95 | 1.00 | 4.00 | 2.67 | 0.50 | 4.15 |
| | 0.00 | 0.03 | 0.59 | 0.00 | 0.00 | 0.64 | 0.45 | 0.47 | 0.54 | 0.00 | 0.00 | 0.47 |
| ----- | | | | | | | | | | | | |
| Sl No | PLANT HEIGHT (cm) | | | EAR HEIGHT (cm) | | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | |
| | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | 164 | 184 | 174 | 81 | 75 | 78 | 80.1 | 80.9 | 80.5 | 83 | 47 | 65 |
| CHECKS | | | | | | | | | | | | |
| 2 | 146 | 165 | 155 | 72 | 66 | 69 | 79.4 | 81.9 | 80.6 | 83 | 41 | 62 |
| 3 | 161 | 197 | 179 | 83 | 90 | 86 | 80.4 | 83.1 | 81.8 | 83 | 45 | 64 |
| | 157 | 182 | 169 | 79 | 77 | 78 | 80.0 | 82.0 | 81.0 | 83 | 44 | 64 |
| | 6.9 | 8.5 | 28.8 | 5.8 | 5.7 | 23.8 | 0.23 | 0.41 | 3.28 | 0.6 | 11.0 | 8.2 |
| | 4.1 | 4.4 | 3.9 | 6.9 | 6.9 | 7.1 | 0.27 | 0.46 | 0.94 | 0.7 | 23.1 | 3.0 |
| | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.00 | 0.00 | 0.38 | 0.8 | 0.6 | 0.5 |

TABLE No. 41

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

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

TABLE No. 41 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SURYA | | | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | MOISTURE % AT HARVEST | | |
|----------|-------------------|---|------|--------------|----------------------------|------|--------------|------------------------|------|--------------|----------------------------|------|--------------|
| | | SRIN | JORH | ZN 1 MEAN | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | F H - 3356 | 9 | 14.4 | 12.5 | 75.5 | 65.3 | 70.4 | 78.5 | 68.3 | 73.4 | 12.8 | 17.1 | 14.9 |
| 2 | V L - 113 | 16 | 23.8 | 21 | 69.3 | 59.3 | 64.3 | 72.3 | 62.7 | 67.5 | 13.0 | 17.6 | 15.3 |
| 3 | A H - 31021 | 1.1 | 8.8 | 6.1 | 78.8 | 62.3 | 70.5 | 81.0 | 65.3 | 73.2 | 15.5 | 17.2 | 16.3 |
| | CHECKS | | | | | | | | | | | | |
| 4 | VIVEK HYBRID - 33 | 7.2 | - | - | 74.3 | 70.3 | 72.3 | 75.8 | 73.3 | 74.5 | 12.8 | 16.8 | 14.8 |
| 5 | VIVEK HYBRID - 17 | 5 | 68.2 | 45.5 | 69.3 | 58.0 | 63.6 | 72.3 | 61.0 | 66.6 | 12.8 | 15.8 | 14.3 |
| 6 | SURYA | - | - | - | 70.5 | 61.3 | 65.9 | 73.0 | 64.7 | 68.8 | 12.5 | 16.2 | 14.3 |
| | Loc. Mean | | | | 72.9 | 62.8 | 67.8 | 75.5 | 65.9 | 70.7 | 13.2 | 16.8 | 15.0 |
| | C.D. (5%) | | | | 1.70 | 3.28 | 7.29 | 1.36 | 3.35 | 7.84 | 0.96 | 0.38 | 1.97 |
| | C.V. (%) | | | | 1.55 | 2.87 | 4.18 | 1.19 | 2.79 | 4.32 | 4.84 | 1.25 | 5.11 |
| | F (Prob.) | | | | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.24 |
| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | EAR HEIGHT (cm) | | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | |
| | | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean | SRIN | JORH | Zone Mean |
| 1 | F H - 3356 | 125 | 143 | 134 | 58 | 46 | 52 | 79.4 | 81.8 | 80.6 | 83 | 36 | 59 |
| 2 | V L - 113 | 124 | 149 | 137 | 59 | 51 | 55 | 80.4 | 84.5 | 82.4 | 82 | 58 | 70 |
| 3 | A H - 31021 | 141 | 163 | 152 | 73 | 61 | 67 | 78.5 | 76.9 | 77.7 | 83 | 54 | 68 |
| | CHECKS | | | | | | | | | | | | |
| 4 | VIVEK HYBRID - 33 | 119 | 128 | 123 | 55 | 40 | 47 | 78.4 | 82.0 | 80.2 | 82 | 25 | 54 |
| 5 | VIVEK HYBRID - 17 | 118 | 155 | 136 | 54 | 58 | 56 | 78.0 | 77.9 | 77.9 | 83 | 63 | 73 |
| 6 | SURYA | 123 | 152 | 137 | 55 | 59 | 57 | 79.9 | 80.3 | 80.1 | 82 | 45 | 64 |
| | Loc. Mean | 125 | 149 | 137 | 59 | 52 | 56 | 79.1 | 80.6 | 79.8 | 83 | 47 | 65 |
| | C.D. (5%) | 4.3 | 24.5 | 17.8 | 3.7 | 12.0 | 15.3 | 0.79 | 1.28 | 4.10 | 1.0 | 10.3 | 26.1 |
| | C.V. (%) | 2.3 | 9.1 | 5.1 | 4.2 | 12.6 | 10.7 | 0.67 | 0.87 | 2.00 | 0.8 | 12.0 | 15.7 |
| | F (Prob.) | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.00 | 0.00 | 0.17 | 0.5 | 0.0 | 0.5 |

TABLE No. 42(Continued)

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS COMPOSITES AT ALMORA, BAJAURA, KANGRA, POONCH, SRINAGAR IN ZONAL TRIAL No. TR102 DURING KHARIF (2009).

| Sl No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio 9637 | | | | | | | | | |
|---------------|-------------------------------------|----|-------|----|-------|----|------|----|-------|----|--|----|------|------|------|------|------|------|------|---|
| | ALMO | R | BAJA | R | KANG | R | POON | R | SRIN | R | MEAN | R | ALMO | BAJA | KANG | POON | SRIN | MEAN | | |
| 1 | EHL 1630 | 09 | 7477 | 4 | 10902 | 1 | 6834 | 2 | 2955 | 11 | 3239 | 21 | 6282 | 3 | - | 22.4 | 2.5 | - | 0.5 | - |
| 2 | EHL 1631 | 09 | 5517 | 19 | 7485 | 14 | 5780 | 5 | 2743 | 16 | 3268 | 18 | 4958 | 13 | - | - | - | - | 1.4 | - |
| 3 | PLM 6 | | 4652 | 24 | 6260 | 21 | 4112 | 22 | 1988 | 24 | 3826 | 4 | 4168 | 24 | - | - | - | - | 18.8 | - |
| 4 | PMEH 32 | | 5736 | 16 | 7409 | 15 | 4599 | 15 | 2018 | 23 | 3242 | 20 | 4601 | 20 | - | - | - | - | 0.6 | - |
| 5 | PMEH 30 | | 6358 | 11 | 8301 | 10 | 4119 | 21 | 2260 | 20 | 3462 | 13 | 4900 | 15 | - | - | - | - | 7.5 | - |
| 6 | PLM17 | | 5556 | 18 | 7950 | 11 | 4742 | 14 | 2781 | 15 | 3473 | 12 | 4900 | 14 | - | - | - | - | 7.8 | - |
| 7 | PLM19 | | 6498 | 10 | 5862 | 24 | 3697 | 24 | 2082 | 21 | 3310 | 17 | 4290 | 23 | - | - | - | - | 2.8 | - |
| 8 | PLM 25 | | 4667 | 23 | 6199 | 23 | 4543 | 17 | 2795 | 14 | 3483 | 11 | 4337 | 22 | - | - | - | - | 8.1 | - |
| 9 | L 255 | | 5741 | 15 | 6950 | 17 | 4541 | 18 | 2842 | 13 | 3680 | 6 | 4751 | 17 | - | - | - | - | 14.2 | - |
| 10 | L230 | | 5840 | 14 | 9070 | 6 | 5349 | 8 | 2693 | 17 | 3654 | 8 | 5321 | 9 | - | 1.8 | - | - | 13.4 | - |
| 11 | EHL 1632 | 09 | 7364 | 5 | 9456 | 4 | 5088 | 9 | 2681 | 18 | 3871 | 3 | 5692 | 6 | - | 6.2 | - | - | 20.2 | - |
| 12 | EHL 1633 | 09 | 6759 | 8 | 8474 | 9 | 4885 | 10 | 3112 | 9 | 3915 | 2 | 5429 | 8 | - | - | - | - | 21.5 | - |
| 13 | EHL 1634 | 09 | 8041 | 2 | 8955 | 7 | 4876 | 12 | 3284 | 6 | 3158 | 23 | 5663 | 7 | - | 0.5 | - | - | - | - |
| 14 | EHL 1635 | 09 | 7227 | 6 | 9566 | 3 | 5446 | 6 | 3216 | 7 | 3013 | 24 | 5694 | 5 | - | 7.4 | - | - | - | - |
| 15 | EHL 1636 | 09 | 6064 | 13 | 6269 | 20 | 4127 | 20 | 3186 | 8 | 3516 | 9 | 4632 | 19 | - | - | - | - | 9.1 | - |
| 16 | EHL 1637 | 09 | 6776 | 7 | 6213 | 22 | 4876 | 11 | 3574 | 5 | 3507 | 10 | 4989 | 12 | - | - | - | - | 8.9 | - |
| 17 | EHL 1638 | 09 | 5479 | 20 | 7557 | 13 | 4037 | 23 | 2348 | 19 | 4039 | 1 | 4692 | 18 | - | - | - | - | 25.4 | - |
| 18 | EHL 1639 | 09 | 4971 | 22 | 7050 | 16 | 4866 | 13 | 2074 | 22 | 3259 | 19 | 4444 | 21 | - | - | - | - | 1.2 | - |
| 19 | EHL 1640 | 09 | 5660 | 17 | 7624 | 12 | 5438 | 7 | 2902 | 12 | 3404 | 15 | 5006 | 11 | - | - | - | - | 5.7 | - |
| 20 | JPMH 7 | | 6357 | 12 | 9804 | 2 | 7092 | 1 | 6279 | 1 | 3320 | 16 | 6570 | 2 | - | 10.1 | 6.3 | 50.2 | 3.1 | - |
| 21 | JPMH 9 | | 5308 | 21 | 6709 | 18 | 4597 | 16 | 5880 | 2 | 3670 | 7 | 5233 | 10 | - | - | - | 40.7 | 13.9 | - |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 22 | Bio 9637 | | 9919 | 1 | 8906 | 8 | 6670 | 3 | 4179 | 4 | 3221 | 22 | 6579 | 1 | - | - | - | - | - | - |
| 23 | Local check | | 7765 | 3 | 9328 | 5 | 6108 | 4 | 4324 | 3 | 3406 | 14 | 6186 | 4 | - | 4.7 | - | 3.5 | 5.7 | - |
| 24 | Navjot | | 6742 | 9 | 6415 | 19 | 4352 | 19 | 2958 | 10 | 3786 | 5 | 4851 | 16 | - | - | - | - | 17.5 | - |
| | Location Mean | | 6353 | | 7863 | | 5032 | | 3131 | | 3488 | | 5174 | | | | | | | |
| | Mean Stand | | 22 | | 25 | | 32 | | 16 | | 31 | | 25 | | | | | | | |
| | C.D. (5%) | | 1247 | | 1017 | | 618 | | 537 | | 599 | | 804 | | | | | | | |
| | C.V. (%) | | 11.94 | | 7.87 | | 7.47 | | 10.43 | | 10.44 | | - | | | | | | | |
| | F (Prob) | | 0 | | 0 | | 0 | | 0 | | 0.128 | | | | | | | | | |
| | Plot Size | | 3.6 | | 4.2 | | 4.8 | | 4.8 | | 4.8 | | - | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | | 9-07 | | 8-06 | | 8-06 | | 10-07 | | 18-06 | | - | | | | | | | |
| | Harvest Date | | 10-11 | | 15-10 | | 4-10 | | 8-11 | | 31-11 | | - | | | | | | | |
| | Irrigation Nos | | - | | 2 | | - | | - | | 3 | | - | | | | | | | |
| | Fertilizer Applied N | | 100 | | 120 | | 120 | | 80 | | 90 | | - | | | | | | | |
| | Fertilizer Applied P | | 60 | | 60 | | 60 | | 60 | | 60 | | - | | | | | | | |
| | Fertilizer Applied K | | 40 | | 40 | | 40 | | 40 | | 40 | | - | | | | | | | |

TABLE No. 42 (Continued)

| S1 No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Local check | | | | | GRAIN YIELD % SUPERIORITY OVER THE Navjot | | | | | | | |
|----------|-------------|--|------|------|------|------|---|------|------|------|------|-------|--------------|------|
| | | ALMO | BAJA | KANG | POON | SRIN | OV'L MEAN | ALMO | BAJA | KANG | POON | SRIN | ZN 1 MEAN | |
| 1 | EHL 1630 09 | - | 16.9 | 11.9 | - | - | 1.5 | 1.5 | 10.9 | 70 | 57 | - | - | 29.5 |
| 2 | EHL 163109 | - | - | - | - | - | - | - | - | 16.7 | 32.8 | - | - | 2.2 |
| 3 | PLM 6 | - | - | - | - | 12.3 | - | - | - | - | - | - | 1.1 | - |
| 4 | PMEH 32 | - | - | - | - | - | - | - | - | 15.5 | 5.7 | - | - | - |
| 5 | PMEH 30 | - | - | - | - | 1.6 | - | - | - | 29.4 | - | - | - | 1 |
| 6 | PLM17 | - | - | - | - | 2 | - | - | - | 23.9 | 8.9 | - | - | 1 |
| 7 | PLM19 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | PLM 25 | - | - | - | - | 2.3 | - | - | - | - | 4.4 | - | - | - |
| 9 | L 255 | - | - | - | - | 8 | - | - | - | 8.3 | 4.3 | - | - | - |
| 10 | L230 | - | - | - | - | 7.3 | - | - | - | 41.4 | 22.9 | - | - | 9.7 |
| 11 | EHL 1632 09 | - | 1.4 | - | - | 13.6 | - | - | 9.2 | 47.4 | 16.9 | - | 2.2 | 17.3 |
| 12 | EHL 163309 | - | - | - | - | 14.9 | - | - | 0.2 | 32.1 | 12.2 | 5.2 | 3.4 | 11.9 |
| 13 | EHL 1634 09 | 3.5 | - | - | - | - | - | - | 19.3 | 39.6 | 12 | 11 | - | 16.7 |
| 14 | EHL 163509 | - | 2.6 | - | - | - | - | - | 7.2 | 49.1 | 25.1 | 8.7 | - | 17.4 |
| 15 | EHL 1636 09 | - | - | - | - | 3.2 | - | - | - | - | - | 7.7 | - | - |
| 16 | EHL 163709 | - | - | - | - | 3 | - | - | 0.5 | - | 12 | 20.8 | - | 2.9 |
| 17 | EHL 1638 09 | - | - | - | - | 18.6 | - | - | - | 17.8 | - | - | 6.7 | - |
| 18 | EHL 163909 | - | - | - | - | - | - | - | - | 9.9 | 11.8 | - | - | - |
| 19 | EHL 1640 09 | - | - | - | - | - | - | - | - | 18.8 | 24.9 | - | - | 3.2 |
| 20 | JPMH 7 | - | 5.1 | 16.1 | 45.2 | - | 6.2 | 6.2 | - | 52.8 | 62.9 | 112.3 | - | 35.5 |
| 21 | JPMH 9 | - | - | - | 36 | 7.7 | - | - | - | 4.6 | 5.6 | 98.8 | - | 7.9 |
| CHECKS | | | | | | | | | | | | | | |
| 22 | Bio 9637 | 27.7 | - | 9.2 | - | - | 6.3 | 6.3 | 47.1 | 38.8 | 53.2 | 41.3 | - | 35.6 |
| 23 | Local check | - | - | - | - | - | - | - | 15.2 | 45.4 | 40.3 | 46.2 | - | 27.5 |
| 24 | Navjot | - | - | - | - | 11.1 | - | - | - | - | - | - | - | - |

TABLE No. 42 (Continued)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | ZN 1 Mean | DAYS TO 50% SILKING | | | | | ZN 1 Mean |
|----------|-------------|-------------------------|------|------|------|------|--------------|---------------------|------|------|------|------|--------------|
| | | ALMO | BAJA | KANG | POON | SRIN | | ALMO | BAJA | KANG | POON | SRIN | |
| 1 | EHL 1630 09 | 52.7 | 61.0 | 58.3 | 51.7 | 84.7 | 61.7 | 55.0 | 63.7 | 60.3 | 54.3 | 87.0 | 64.1 |
| 2 | EHL 163109 | 50.0 | 61.0 | 60.7 | 50.0 | 76.0 | 59.5 | 50.3 | 63.0 | 62.7 | 52.7 | 78.7 | 61.5 |
| 3 | PLM 6 | 48.0 | 61.3 | 58.3 | 51.0 | 77.0 | 59.1 | 49.0 | 64.0 | 61.3 | 53.3 | 79.3 | 61.4 |
| 4 | PMEH 32 | 51.3 | 63.3 | 60.7 | 50.7 | 76.7 | 60.5 | 52.0 | 65.3 | 63.0 | 53.3 | 78.7 | 62.5 |
| 5 | PMEH 30 | 51.3 | 62.7 | 58.7 | 52.0 | 77.0 | 60.3 | 52.7 | 64.7 | 60.7 | 54.7 | 79.3 | 62.4 |
| 6 | PLM17 | 53.0 | 65.3 | 60.3 | 53.0 | 77.3 | 61.8 | 55.0 | 67.7 | 62.3 | 55.0 | 80.0 | 64.0 |
| 7 | PLM19 | 51.3 | 65.7 | 60.7 | 51.7 | 76.7 | 61.2 | 53.0 | 67.7 | 62.3 | 54.3 | 79.0 | 63.3 |
| 8 | PLM 25 | 53.7 | 65.3 | 61.3 | 52.3 | 74.0 | 61.3 | 55.0 | 68.0 | 63.0 | 54.3 | 76.3 | 63.3 |
| 9 | L 255 | 47.7 | 59.7 | 60.3 | 47.7 | 74.0 | 57.9 | 48.7 | 61.7 | 62.3 | 50.3 | 76.3 | 59.9 |
| 10 | L230 | 51.3 | 61.0 | 54.7 | 51.3 | 74.3 | 58.5 | 52.7 | 63.3 | 56.3 | 54.0 | 77.0 | 60.7 |
| 11 | EHL 1632 09 | 51.3 | 62.3 | 59.7 | 54.7 | 74.3 | 60.5 | 52.0 | 64.7 | 61.7 | 57.3 | 77.0 | 62.5 |
| 12 | EHL 163309 | 51.3 | 61.7 | 61.3 | 51.0 | 76.3 | 60.3 | 51.7 | 63.7 | 63.0 | 53.7 | 78.7 | 62.1 |
| 13 | EHL 1634 09 | 49.7 | 60.3 | 58.0 | 51.0 | 76.0 | 59.0 | 50.7 | 63.0 | 59.3 | 53.0 | 78.7 | 60.9 |
| 14 | EHL 163509 | 53.0 | 62.0 | 59.7 | 52.3 | 76.0 | 60.6 | 55.3 | 64.3 | 62.0 | 55.3 | 78.3 | 63.1 |
| 15 | EHL 1636 09 | 50.3 | 61.0 | 61.0 | 50.3 | 74.0 | 59.3 | 51.0 | 63.0 | 63.0 | 52.3 | 76.7 | 61.2 |
| 16 | EHL 163709 | 47.3 | 59.0 | 55.7 | 48.7 | 74.3 | 57.0 | 48.3 | 61.3 | 58.0 | 51.0 | 76.7 | 59.1 |
| 17 | EHL 1638 09 | 48.3 | 59.7 | 55.7 | 48.0 | 74.7 | 57.3 | 49.0 | 61.7 | 57.7 | 50.0 | 77.0 | 59.1 |
| 18 | EHL 163909 | 48.3 | 59.7 | 54.3 | 49.7 | 74.3 | 57.3 | 49.0 | 62.0 | 56.3 | 52.0 | 77.3 | 59.3 |
| 19 | EHL 1640 09 | 49.0 | 63.3 | 60.3 | 51.7 | 74.7 | 59.8 | 49.7 | 65.3 | 62.0 | 54.7 | 77.0 | 61.7 |
| 20 | JPMH 7 | 57.3 | 66.0 | 64.3 | 52.3 | 86.7 | 65.3 | 58.3 | 69.3 | 66.0 | 55.0 | 89.0 | 67.5 |
| 21 | JPMH 9 | 61.7 | 73.0 | 65.3 | 56.3 | 81.3 | 67.5 | 63.3 | 75.7 | 68.0 | 59.0 | 84.0 | 70.0 |
| CHECKS | | | | | | | | | | | | | |
| 22 | Bio 9637 | 53.3 | 64.3 | 62.7 | 52.0 | 75.3 | 61.5 | 54.3 | 66.3 | 64.7 | 55.0 | 78.0 | 63.7 |
| 23 | Local check | 50.7 | 67.7 | 59.7 | 54.7 | 76.7 | 61.9 | 51.0 | 71.0 | 61.0 | 58.3 | 79.7 | 64.2 |
| 24 | Navjot | 51.3 | 62.3 | 56.7 | 52.0 | 73.3 | 59.1 | 52.3 | 64.7 | 58.7 | 54.3 | 76.3 | 61.3 |
| | Loc. Mean | 51.4 | 62.9 | 59.5 | 51.5 | 76.5 | 60.4 | 52.5 | 65.2 | 61.5 | 54.1 | 79.0 | 62.4 |
| | C.D. (5%) | 1.42 | 2.60 | 0.97 | 2.38 | 2.63 | 2.33 | 1.38 | 2.62 | 1.00 | 2.22 | 2.63 | 2.42 |
| | C.V. (%) | 1.69 | 2.51 | 1.00 | 2.81 | 2.09 | 3.07 | 1.60 | 2.45 | 0.99 | 2.50 | 2.03 | 3.08 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 42 (Continued)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | ZN 1 Mean | MOISTURE % AT HARVEST | | | | | ZN 1 Mean |
|--------|-------------|----------------------|-------|-------|-------|-------|--------------|-----------------------|------|------|------|------|--------------|
| | | ALMO | BAJA | KANG | POON | SRIN | | ALMO | BAJA | KANG | POON | SRIN | |
| 1 | EHL 1630 09 | 102.3 | 104.0 | 97.7 | 105.3 | 128.3 | 107.5 | 27.0 | 18.4 | 23.9 | 26.3 | 25.0 | 24.1 |
| 2 | EHL 163109 | 93.7 | 105.0 | 95.7 | 100.7 | 128.3 | 104.7 | 25.0 | 19.2 | 21.9 | 26.3 | 25.0 | 23.5 |
| 3 | PLM 6 | 93.3 | 104.7 | 99.7 | 100.7 | 129.7 | 105.6 | 21.8 | 17.6 | 23.1 | 27.3 | 25.0 | 23.0 |
| 4 | PMEH 32 | 96.3 | 109.0 | 101.7 | 103.3 | 130.0 | 108.1 | 25.7 | 18.4 | 23.5 | 25.7 | 25.5 | 23.8 |
| 5 | PMEH 30 | 97.7 | 106.0 | 97.7 | 102.3 | 130.0 | 106.7 | 22.9 | 20.1 | 20.9 | 27.0 | 25.5 | 23.3 |
| 6 | PLM17 | 97.7 | 107.7 | 99.0 | 102.3 | 130.7 | 107.5 | 27.0 | 21.8 | 22.1 | 27.7 | 24.0 | 24.5 |
| 7 | PLM19 | 97.0 | 107.3 | 100.7 | 101.3 | 132.3 | 107.7 | 24.5 | 20.1 | 21.5 | 27.7 | 26.0 | 23.9 |
| 8 | PLM 25 | 97.7 | 107.0 | 96.3 | 102.0 | 125.3 | 105.7 | 26.8 | 19.3 | 22.7 | 28.0 | 20.0 | 23.4 |
| 9 | L 255 | 91.0 | 104.0 | 95.3 | 98.3 | 123.7 | 102.5 | 21.3 | 18.2 | 23.3 | 25.7 | 22.5 | 22.2 |
| 10 | L230 | 95.7 | 111.3 | 94.3 | 101.3 | 121.7 | 104.9 | 28.1 | 20.6 | 20.0 | 26.7 | 21.5 | 23.4 |
| 11 | EHL 1632 09 | 97.0 | 109.3 | 94.7 | 107.3 | 124.3 | 106.5 | 26.2 | 20.0 | 20.6 | 26.7 | 23.5 | 23.4 |
| 12 | EHL 163309 | 95.7 | 104.3 | 94.7 | 103.3 | 125.0 | 104.6 | 25.6 | 22.7 | 21.7 | 26.0 | 24.5 | 24.1 |
| 13 | EHL 1634 09 | 95.0 | 104.0 | 96.7 | 101.0 | 128.0 | 104.9 | 23.6 | 17.8 | 22.1 | 26.7 | 25.0 | 23.0 |
| 14 | EHL 163509 | 104.0 | 113.7 | 99.7 | 101.3 | 129.3 | 109.6 | 28.7 | 20.1 | 21.4 | 27.0 | 23.5 | 24.1 |
| 15 | EHL 1636 09 | 93.0 | 103.7 | 99.7 | 104.3 | 127.7 | 105.7 | 25.5 | 18.8 | 21.4 | 26.7 | 22.0 | 22.9 |
| 16 | EHL 163709 | 93.3 | 104.0 | 96.0 | 102.3 | 129.7 | 105.1 | 24.6 | 20.7 | 20.5 | 26.7 | 27.0 | 23.9 |
| 17 | EHL 1638 09 | 90.7 | 106.7 | 95.3 | 99.7 | 128.7 | 104.2 | 25.2 | 18.9 | 21.2 | 27.0 | 23.5 | 23.2 |
| 18 | EHL 163909 | 91.7 | 104.0 | 95.3 | 101.3 | 128.7 | 104.2 | 24.5 | 19.6 | 21.3 | 29.0 | 24.5 | 23.8 |
| 19 | EHL 1640 09 | 91.0 | 103.3 | 96.7 | 104.7 | 129.7 | 105.1 | 23.7 | 19.8 | 20.6 | 25.7 | 24.0 | 22.8 |
| 20 | JPMH 7 | 102.0 | 113.0 | 99.3 | 107.3 | 128.0 | 109.9 | 29.2 | 19.8 | 22.1 | 26.0 | 23.0 | 24.0 |
| 21 | JPMH 9 | 105.0 | 116.0 | 101.3 | 108.3 | 127.0 | 111.5 | 29.7 | 21.9 | 22.1 | 27.3 | 24.0 | 25.0 |
| CHECKS | | | | | | | | | | | | | |
| 22 | Bio 9637 | 97.7 | 106.0 | 99.7 | 104.3 | 127.3 | 107.0 | 28.6 | 18.3 | 22.4 | 28.0 | 23.5 | 24.2 |
| 23 | Local check | 94.0 | 112.7 | 98.0 | 109.7 | 126.7 | 108.2 | 27.5 | 18.9 | 22.4 | 27.0 | 22.5 | 23.6 |
| 24 | Navjot | 96.3 | 108.0 | 97.7 | 104.7 | 127.3 | 106.8 | 25.8 | 17.6 | 22.9 | 27.7 | 24.0 | 23.6 |
| | Loc. Mean | 96.2 | 107.3 | 97.6 | 103.2 | 127.8 | 106.4 | 25.8 | 19.5 | 21.9 | 26.9 | 23.9 | 23.6 |
| | C.D. (5%) | 1.39 | 3.25 | 1.03 | 3.65 | 1.37 | 3.22 | 2.01 | 1.89 | 2.13 | 1.56 | 0.84 | 1.89 |
| | C.V. (%) | 0.88 | 1.85 | 0.64 | 2.15 | 0.65 | 2.41 | 4.75 | 5.89 | 5.91 | 3.52 | 2.13 | 6.37 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.01 | 0.00 | 0.68 |

TABLE No. 42 (Continued)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | | | ZN 1 Mean | EAR HEIGHT (cm) | | | | | ZN 1 Mean |
|--------|-------------|-------------------|------|------|------|------|--------------|-----------------|------|------|------|------|--------------|
| | | ALMO | BAJA | KANG | POON | SRIN | | ALMO | BAJA | KANG | POON | SRIN | |
| 1 | EHL 1630 09 | 216 | 172 | 269 | 211 | 157 | 205 | 110 | 88 | 122 | 89 | 85 | 99 |
| 2 | EHL 163109 | 192 | 138 | 273 | 190 | 134 | 185 | 103 | 72 | 108 | 76 | 65 | 85 |
| 3 | PLM 6 | 223 | 170 | 266 | 191 | 147 | 199 | 116 | 83 | 117 | 79 | 77 | 94 |
| 4 | PMEH 32 | 250 | 175 | 274 | 208 | 157 | 213 | 126 | 88 | 116 | 80 | 80 | 98 |
| 5 | PMEH 30 | 254 | 168 | 265 | 193 | 150 | 206 | 131 | 85 | 116 | 74 | 80 | 97 |
| 6 | PLM17 | 233 | 167 | 266 | 194 | 157 | 203 | 123 | 90 | 118 | 71 | 80 | 96 |
| 7 | PLM19 | 216 | 170 | 281 | 181 | 137 | 197 | 107 | 82 | 108 | 69 | 67 | 86 |
| 8 | PLM 25 | 220 | 163 | 267 | 184 | 145 | 196 | 115 | 87 | 117 | 79 | 72 | 94 |
| 9 | L 255 | 243 | 167 | 273 | 230 | 133 | 209 | 116 | 75 | 119 | 85 | 72 | 93 |
| 10 | L230 | 235 | 170 | 286 | 214 | 138 | 209 | 126 | 85 | 118 | 92 | 73 | 99 |
| 11 | EHL 1632 09 | 224 | 170 | 271 | 176 | 150 | 198 | 123 | 82 | 116 | 74 | 75 | 94 |
| 12 | EHL 163309 | 226 | 169 | 278 | 224 | 132 | 206 | 111 | 85 | 114 | 80 | 57 | 89 |
| 13 | EHL 1634 09 | 238 | 167 | 300 | 200 | 140 | 209 | 122 | 75 | 117 | 70 | 63 | 89 |
| 14 | EHL 163509 | 224 | 157 | 270 | 231 | 135 | 203 | 105 | 63 | 114 | 104 | 68 | 91 |
| 15 | EHL 1636 09 | 195 | 150 | 290 | 200 | 105 | 188 | 94 | 70 | 113 | 66 | 58 | 80 |
| 16 | EHL 163709 | 217 | 151 | 237 | 198 | 113 | 183 | 98 | 58 | 103 | 74 | 52 | 77 |
| 17 | EHL 1638 09 | 203 | 150 | 260 | 207 | 127 | 189 | 96 | 72 | 103 | 82 | 58 | 82 |
| 18 | EHL 163909 | 194 | 112 | 238 | 162 | 138 | 169 | 90 | 61 | 96 | 62 | 75 | 77 |
| 19 | EHL 1640 09 | 218 | 167 | 236 | 197 | 155 | 195 | 111 | 65 | 107 | 78 | 78 | 88 |
| 20 | JPMH 7 | 249 | 190 | 280 | 211 | 145 | 215 | 136 | 107 | 126 | 73 | 65 | 101 |
| 21 | JPMH 9 | 252 | 192 | 285 | 219 | 133 | 216 | 146 | 100 | 127 | 94 | 70 | 107 |
| CHECKS | | | | | | | | | | | | | |
| 22 | Bio 9637 | 254 | 178 | 273 | 212 | 125 | 208 | 129 | 90 | 118 | 82 | 62 | 96 |
| 23 | Local check | 219 | 210 | 268 | 203 | 147 | 209 | 104 | 105 | 114 | 76 | 80 | 96 |
| 24 | Navjot | 238 | 173 | 272 | 200 | 135 | 204 | 130 | 93 | 122 | 77 | 70 | 99 |
| | Loc. Mean | 226 | 166 | 270 | 202 | 139 | 201 | 115 | 82 | 115 | 79 | 70 | 92 |
| | C.D. (5%) | 12.8 | 25.3 | 17.5 | 17.1 | 8.6 | 17.3 | 9.5 | 20.0 | 11.5 | 9.8 | 8.8 | 10.7 |
| | C.V. (%) | 3.4 | 9.3 | 3.9 | 5.2 | 3.8 | 6.9 | 5.0 | 14.9 | 6.1 | 7.6 | 7.6 | 9.3 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 42 (Continued)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | | ZN 1 Mean | STAND AT HARVEST ('000/ha) | | | | | ZN 1 Mean |
|--------|-------------|------------------|------|------|------|------|--------------|----------------------------|------|------|------|------|--------------|
| | | ALMO | BAJA | KANG | POON | SRIN | | ALMO | BAJA | KANG | POON | SRIN | |
| 1 | EHL 1630 09 | 84.1 | 80.3 | 83.5 | 81.6 | 79.5 | 81.8 | 58 | 60 | 67 | 38 | 65 | 58 |
| 2 | EHL 163109 | 81.4 | 83.9 | 82.0 | 82.7 | 79.3 | 81.8 | 57 | 60 | 66 | 33 | 67 | 57 |
| 3 | PLM 6 | 84.0 | 84.7 | 83.0 | 82.4 | 78.8 | 82.6 | 61 | 60 | 63 | 27 | 63 | 55 |
| 4 | PMEH 32 | 83.4 | 77.9 | 83.5 | 82.5 | 79.0 | 81.3 | 57 | 63 | 65 | 32 | 65 | 57 |
| 5 | PMEH 30 | 86.1 | 84.3 | 83.0 | 82.1 | 79.3 | 82.9 | 64 | 61 | 66 | 29 | 63 | 57 |
| 6 | PLM17 | 84.2 | 83.2 | 84.0 | 80.8 | 80.0 | 82.4 | 59 | 47 | 65 | 31 | 66 | 54 |
| 7 | PLM19 | 84.9 | 81.8 | 79.0 | 84.3 | 79.5 | 81.9 | 61 | 60 | 65 | 27 | 65 | 56 |
| 8 | PLM 25 | 85.0 | 77.3 | 80.0 | 84.5 | 81.3 | 81.6 | 60 | 60 | 66 | 38 | 64 | 58 |
| 9 | L 255 | 85.9 | 82.6 | 82.0 | 84.1 | 80.0 | 82.9 | 60 | 66 | 67 | 39 | 64 | 59 |
| 10 | L230 | 84.0 | 79.1 | 84.0 | 83.5 | 81.3 | 82.4 | 60 | 47 | 65 | 31 | 65 | 53 |
| 11 | EHL 1632 09 | 84.2 | 81.7 | 81.0 | 82.6 | 80.0 | 81.9 | 57 | 63 | 65 | 33 | 66 | 57 |
| 12 | EHL 163309 | 85.1 | 80.5 | 83.5 | 83.4 | 79.0 | 82.3 | 56 | 61 | 70 | 31 | 62 | 56 |
| 13 | EHL 1634 09 | 86.3 | 83.5 | 82.0 | 81.5 | 77.5 | 82.2 | 62 | 63 | 65 | 32 | 65 | 57 |
| 14 | EHL 163509 | 85.4 | 81.0 | 84.5 | 83.1 | 79.0 | 82.6 | 66 | 58 | 65 | 35 | 65 | 58 |
| 15 | EHL 1636 09 | 82.3 | 77.5 | 82.5 | 84.7 | 80.0 | 81.4 | 58 | 62 | 67 | 35 | 66 | 58 |
| 16 | EHL 163709 | 80.2 | 79.9 | 84.5 | 83.2 | 77.3 | 81.0 | 64 | 65 | 70 | 40 | 64 | 61 |
| 17 | EHL 1638 09 | 86.4 | 81.7 | 84.5 | 83.4 | 79.0 | 83.0 | 59 | 40 | 65 | 31 | 62 | 51 |
| 18 | EHL 163909 | 82.9 | 79.5 | 84.5 | 83.8 | 78.0 | 81.7 | 60 | 64 | 65 | 31 | 63 | 57 |
| 19 | EHL 1640 09 | 83.1 | 79.7 | 81.5 | 82.7 | 78.3 | 81.1 | 61 | 65 | 65 | 32 | 60 | 57 |
| 20 | JPMH 7 | 84.1 | 82.1 | 84.0 | 84.4 | 78.8 | 82.7 | 64 | 64 | 61 | 33 | 60 | 57 |
| 21 | JPMH 9 | 79.6 | 73.2 | 82.5 | 84.2 | 79.3 | 79.7 | 65 | 57 | 67 | 38 | 64 | 58 |
| CHECKS | | | | | | | | | | | | | |
| 22 | Bio 9637 | 86.8 | 81.9 | 83.0 | 82.2 | 79.3 | 82.6 | 62 | 64 | 69 | 40 | 65 | 60 |
| 23 | Local check | 86.2 | 79.2 | 85.5 | 82.4 | 79.5 | 82.6 | 57 | 60 | 64 | 33 | 63 | 56 |
| 24 | Navjot | 86.0 | 81.8 | 84.5 | 83.8 | 79.8 | 83.2 | 56 | 65 | 63 | 36 | 65 | 57 |
| | Loc. Mean | 84.2 | 80.8 | 83.0 | 83.1 | 79.3 | 82.1 | 60 | 60 | 66 | 33 | 64 | 57 |
| | C.D. (5%) | 0.70 | - | 0.93 | 2.34 | 0.50 | 2.16 | 5.0 | 8.0 | 5.9 | 5.9 | 3.9 | 4.5 |
| | C.V. (%) | 0.50 | - | 0.68 | 1.72 | 0.39 | 2.10 | 5.0 | 8.1 | 5.4 | 10.7 | 3.7 | 6.3 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.40 | 0.0 | 0.0 | 0.4 | 0.0 | 0.1 | 0.1 |

TABLE No. 43

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS COMPOSITES AT ALMORA, BAJAURA,
BARAPANI, JORHAT, KANGRA, POONCH, SRINAGAR IN ZONAL TRIAL No. TR103 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | ZN 1 | | | | | |
|----------|-----------|-------------------------------------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|
| | | ALMO | R | BAJA | R | BARA | R | JORH | R | KANG | R | POON | R | SRIN | R | MEAN | R |
| 1 | H 17 | 6674 | 22 | 7370 | 18 | 1315 | 15 | 2575 | 18 | 6161 | 11 | 4068 | 11 | 3454 | 23 | 4517 | 18 |
| 2 | 401 X 460 | 7256 | 17 | 8545 | 9 | 1367 | 13 | 2544 | 20 | 6192 | 10 | 5203 | 1 | 3605 | 17 | 4959 | 9 |
| 3 | FH 3510 | 7657 | 13 | 8805 | 5 | 2037 | 5 | 2792 | 12 | 8216 | 1 | 4216 | 7 | 4117 | 7 | 5406 | 3 |
| 4 | FH 3511 | 8091 | 10 | 8738 | 6 | 1718 | 7 | 2587 | 17 | 5138 | 18 | 2678 | 25 | 4461 | 1 | 4773 | 11 |
| 5 | FH 3512 | 7815 | 12 | 8205 | 12 | 2010 | 6 | 4005 | 3 | 5108 | 19 | 4186 | 8 | 4448 | 2 | 5111 | 6 |
| 6 | FH 3513 | 8727 | 7 | 9367 | 3 | 1600 | 9 | 4237 | 2 | 7420 | 4 | 4330 | 5 | 3349 | 26 | 5576 | 2 |
| 7 | FH 3514 | 8136 | 8 | 7500 | 17 | 1655 | 8 | 2124 | 23 | 4262 | 25 | 4088 | 10 | 3487 | 19 | 4464 | 20 |
| 8 | PVMH 8 | 7112 | 19 | 7166 | 19 | 1262 | 16 | 3137 | 5 | 5597 | 16 | 2653 | 26 | 3661 | 15 | 4370 | 21 |
| 9 | FH 3516 | 8801 | 5 | 8068 | 13 | 1466 | 12 | 3066 | 9 | 4973 | 21 | 3118 | 22 | 3838 | 9 | 4761 | 12 |
| 10 | KDM 72 | 6416 | 26 | 7722 | 15 | 798 | 24 | 1960 | 26 | 4166 | 26 | 2873 | 23 | 3406 | 24 | 3906 | 27 |
| 11 | PS 98 | 7157 | 18 | 6693 | 23 | 767 | 26 | 3129 | 7 | 3696 | 27 | 2088 | 28 | 3529 | 18 | 3865 | 28 |
| 12 | TMC 09-1 | 6885 | 20 | 6459 | 25 | 285 | 28 | 2825 | 11 | 4520 | 24 | 3594 | 17 | 3483 | 20 | 4007 | 25 |
| 13 | EHL 1626 | 8785 | 6 | 6939 | 20 | 2086 | 3 | 2546 | 19 | 4901 | 23 | 3827 | 15 | 3766 | 12 | 4693 | 13 |
| 14 | EHL 1627 | 6431 | 25 | 6844 | 22 | 1548 | 10 | 2691 | 15 | 5875 | 14 | 4863 | 2 | 4080 | 8 | 4619 | 15 |
| 15 | PLM 16 | 6531 | 24 | 6132 | 26 | 856 | 22 | 2460 | 21 | 6465 | 9 | 2800 | 24 | 3790 | 10 | 4148 | 23 |
| 16 | L 245 | 6819 | 21 | 7571 | 16 | 1065 | 18 | 1672 | 28 | 6649 | 6 | 3909 | 13 | 4254 | 6 | 4563 | 17 |
| 17 | PLM 18 | 6666 | 23 | 4644 | 28 | 1019 | 20 | 1879 | 27 | 7192 | 5 | 2221 | 27 | 4393 | 3 | 4002 | 26 |
| 18 | L 257 | 5811 | 28 | 6498 | 24 | 1056 | 19 | 2057 | 24 | 7559 | 3 | 3573 | 18 | 3315 | 27 | 4267 | 22 |

TABLE No. 43 (Cont..)

| S1 | | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | ZN 1 | | | |
|---------------|-----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|------|----|
| No | PEDIGREE | ALMO | R | BAJA | R | BARA | R | JORH | R | KANG | R | POON | R | SRIN | R | MEAN | R |
| 19 | EHL 1628 | 7355 | 16 | 8482 | 10 | 851 | 23 | 2687 | 16 | 5418 | 17 | 4310 | 6 | 2959 | 28 | 4580 | 16 |
| 20 | EHL 1629 | 7651 | 14 | 9488 | 2 | 2994 | 1 | 4418 | 1 | 7675 | 2 | 4094 | 9 | 3357 | 25 | 5668 | 1 |
| 21 | FH 3521 | 8991 | 3 | 9255 | 4 | 2073 | 4 | 3282 | 4 | 6569 | 7 | 3394 | 19 | 4268 | 5 | 5404 | 4 |
| 22 | PVMH 21 | 8116 | 9 | 8650 | 8 | 1095 | 17 | 3073 | 8 | 6044 | 12 | 3616 | 16 | 4308 | 4 | 4986 | 7 |
| 23 | FH 3528 | 9764 | 2 | 8659 | 7 | 1476 | 11 | 2912 | 10 | 4941 | 22 | 4847 | 3 | 3474 | 22 | 5153 | 5 |
| 24 | FH 3529 | 8024 | 11 | 8028 | 14 | 1320 | 14 | 2784 | 13 | 5673 | 15 | 3145 | 21 | 3777 | 11 | 4679 | 14 |
| 25 | FH 3530 | 6025 | 27 | 5063 | 27 | 784 | 25 | 2048 | 25 | 6001 | 13 | 4652 | 4 | 3477 | 21 | 4007 | 24 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 26 | Vivek Sankul Makka 31 | 7593 | 15 | 6862 | 21 | 710 | 27 | 2213 | 22 | 6499 | 8 | 3880 | 14 | 3719 | 14 | 4497 | 19 |
| 27 | Vivek Maize Hybrid 9 | 9776 | 1 | 8383 | 11 | 866 | 21 | 3133 | 6 | 5084 | 20 | 3160 | 20 | 3727 | 13 | 4876 | 10 |
| 28 | Vivek Maize Hybrid 25 | 8936 | 4 | 9621 | 1 | 2143 | 2 | 2737 | 14 | 3578 | 28 | 4063 | 12 | 3658 | 16 | 4962 | 8 |
| | Location Mean | 7643 | | 7706 | | 1365 | | 2770 | | 5770 | | 3695 | | 3756 | | 4672 | |
| | Mean Stand | 23 | | 27 | | 25 | | 27 | | 32 | | 16 | | 31 | | 26 | |
| | C.D. (5%) | 1109 | | 941 | | 369 | | 804 | | 881 | | 824 | | 602 | | 790 | |
| | C.V. (%) | 8.86 | | 7.46 | | 16.49 | | 17.71 | | 9.32 | | 13.62 | | 9.78 | | - | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | - | |
| | Plot Size | 3.6 | | 4.2 | | 6 | | 4.8 | | 4.8 | | 4.8 | | 4.8 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 1-07 | | 8-06 | | 15-06 | | 10-06 | | 15-06 | | 6-07 | | 18-06 | | - | |
| | Harvest Date | 16-10 | | 14-10 | | - | | 7-09 | | 29-09 | | 5-11 | | 31-11 | | - | |
| | Irrigation Nos | - | | 3 | | - | | - | | - | | - | | 3 | | - | |
| | Fertilizer Applied N | 80 | | 120 | | - | | 80 | | 120 | | 80 | | 90 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | - | | 60 | | 60 | | 60 | | 60 | | - | |
| | Fertilizer Applied K | 40 | | 40 | | - | | 40 | | 40 | | 40 | | 40 | | - | |

TABLE No. 43 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek Sankul Makka 31 | | | | | | | ZN 1 |
|----------|-----------------------|--|------|-------|------|------|------|------|------|
| | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | MEAN |
| 1 | H 17 | - | 7.4 | 85.2 | 16.4 | - | 4.8 | - | 0.4 |
| 2 | 401 X 460 | - | 24.5 | 92.5 | 14.9 | - | 34.1 | - | 10.3 |
| 3 | FH 3510 | 0.8 | 28.3 | 186.8 | 26.2 | 26.4 | 8.7 | 10.7 | 20.2 |
| 4 | FH 3511 | 6.6 | 27.3 | 141.9 | 16.9 | - | - | 20 | 6.1 |
| 5 | FH 3512 | 2.9 | 19.6 | 183.1 | 81 | - | 7.9 | 19.6 | 13.7 |
| 6 | FH 3513 | 14.9 | 36.5 | 125.4 | 91.4 | 14.2 | 11.6 | - | 24 |
| 7 | FH 3514 | 7.1 | 9.3 | 133 | - | - | 5.4 | - | - |
| 8 | PVMH 8 | - | 4.4 | 77.7 | 41.7 | - | - | - | - |
| 9 | FH 3516 | 15.9 | 17.6 | 106.4 | 38.6 | - | - | 3.2 | 5.9 |
| 10 | KDM 72 | - | 12.5 | 12.4 | - | - | - | - | - |
| 11 | PS 98 | - | - | 8 | 41.4 | - | - | - | - |
| 12 | TMC 09-1 | - | - | - | 27.6 | - | - | - | - |
| 13 | EHL 1626 | 15.7 | 1.1 | 193.8 | 15.1 | - | - | 1.3 | 4.4 |
| 14 | EHL 1627 | - | - | 118 | 21.6 | - | 25.3 | 9.7 | 2.7 |
| 15 | PLM 16 | - | - | 20.5 | 11.2 | - | - | 1.9 | - |
| 16 | L 245 | - | 10.3 | 50 | - | 2.3 | 0.8 | 14.4 | 1.5 |
| 17 | PLM 18 | - | - | 43.5 | - | 10.7 | - | 18.1 | - |
| 18 | L 257 | - | - | 48.7 | - | 16.3 | - | - | - |
| 19 | EHL 1628 | - | 23.6 | 19.9 | 21.4 | - | 11.1 | - | 1.9 |
| 20 | EHL 1629 | 0.8 | 38.3 | 321.6 | 99.6 | 18.1 | 5.5 | - | 26.1 |
| 21 | FH 3521 | 18.4 | 34.9 | 191.9 | 48.3 | 1.1 | - | 14.8 | 20.2 |
| 22 | PVMH 21 | 6.9 | 26.1 | 54.2 | 38.9 | - | - | 15.8 | 10.9 |
| 23 | FH 3528 | 28.6 | 26.2 | 107.9 | 31.6 | - | 24.9 | - | 14.6 |
| 24 | FH 3529 | 5.7 | 17 | 85.9 | 25.8 | - | - | 1.6 | 4.1 |
| 25 | FH 3530 | - | - | 10.4 | - | - | 19.9 | - | - |
| CHECKS | | | | | | | | | |
| 26 | Vivek Sankul Makka 31 | - | - | - | - | - | - | - | - |
| 27 | Vivek Maize Hybrid 9 | 28.7 | 22.2 | 22 | 41.6 | - | - | 0.2 | 8.4 |
| 28 | Vivek Maize Hybrid 25 | 17.7 | 40.2 | 201.8 | 23.7 | - | 4.7 | - | 10.4 |

TABLE No. 43 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek Maize Hybrid 9 | | | | | | | ZN 1 MEAN |
|----------|-----------------------|---|------|-------|------|------|------|------|--------------|
| | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | |
| 1 | H 17 | - | - | 51.8 | - | 21.2 | 28.7 | - | - |
| 2 | 401 X 460 | - | 1.9 | 57.8 | - | 21.8 | 64.6 | - | 1.7 |
| 3 | FH 3510 | - | 5 | 135.1 | - | 61.6 | 33.4 | 10.5 | 10.9 |
| 4 | FH 3511 | - | 4.2 | 98.3 | - | 1.1 | - | 19.7 | - |
| 5 | FH 3512 | - | - | 132.1 | 27.8 | 0.5 | 32.5 | 19.3 | 4.8 |
| 6 | FH 3513 | - | 11.7 | 84.8 | 35.2 | 46 | 37 | - | 14.4 |
| 7 | FH 3514 | - | - | 91 | - | - | 29.4 | - | - |
| 8 | PVMH 8 | - | - | 45.7 | 0.1 | 10.1 | - | - | - |
| 9 | FH 3516 | - | - | 69.2 | - | - | - | 3 | - |
| 10 | KDM 72 | - | - | - | - | - | - | - | - |
| 11 | PS 98 | - | - | - | - | - | - | - | - |
| 12 | TMC 09-1 | - | - | - | - | - | 13.7 | - | - |
| 13 | EHL 1626 | - | - | 140.8 | - | - | 21.1 | 1 | - |
| 14 | EHL 1627 | - | - | 78.7 | - | 15.6 | 53.9 | 9.5 | - |
| 15 | PLM 16 | - | - | - | - | 27.2 | - | 1.7 | - |
| 16 | L 245 | - | - | 23 | - | 30.8 | 23.7 | 14.1 | - |
| 17 | PLM 18 | - | - | 17.6 | - | 41.5 | - | 17.9 | - |
| 18 | L 257 | - | - | 21.9 | - | 48.7 | 13.1 | - | - |
| 19 | EHL 1628 | - | 1.2 | - | - | 6.6 | 36.4 | - | - |
| 20 | EHL 1629 | - | 13.2 | 245.6 | 41 | 51 | 29.6 | - | 16.3 |
| 21 | FH 3521 | - | 10.4 | 139.3 | 4.7 | 29.2 | 7.4 | 14.5 | 10.8 |
| 22 | PVMH 21 | - | 3.2 | 26.4 | - | 18.9 | 14.4 | 15.6 | 2.3 |
| 23 | FH 3528 | - | 3.3 | 70.4 | - | - | 53.4 | - | 5.7 |
| 24 | FH 3529 | - | - | 52.4 | - | 11.6 | - | 1.3 | - |
| 25 | FH 3530 | - | - | - | - | 18 | 47.2 | - | - |
| CHECKS | | | | | | | | | |
| 26 | Vivek Sankul Makka 31 | - | - | - | - | 27.8 | 22.8 | - | - |
| 27 | Vivek Maize Hybrid 9 | - | - | - | - | - | - | - | - |
| 28 | Vivek Maize Hybrid 25 | - | 14.8 | 147.4 | - | - | 28.6 | - | 1.8 |

TABLE No. 43 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek Maize Hybrid 25 | | | | | | | ZN 1 |
|----------|-----------------------|--|------|------|------|-------|------|------|------|
| | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | MEAN |
| 1 | H 17 | - | - | - | - | 72.2 | 0.1 | - | - |
| 2 | 401 X 460 | - | - | - | - | 73.1 | 28.1 | - | - |
| 3 | FH 3510 | - | - | - | 2 | 129.6 | 3.8 | 12.6 | 8.9 |
| 4 | FH 3511 | - | - | - | - | 43.6 | - | 22 | - |
| 5 | FH 3512 | - | - | - | 46.3 | 42.7 | 3 | 21.6 | 3 |
| 6 | FH 3513 | - | - | - | 54.8 | 107.4 | 6.6 | - | 12.4 |
| 7 | FH 3514 | - | - | - | - | 19.1 | 0.6 | - | - |
| 8 | PVMH 8 | - | - | - | 14.6 | 56.4 | - | 0.1 | - |
| 9 | FH 3516 | - | - | - | 12 | 39 | - | 4.9 | - |
| 10 | KDM 72 | - | - | - | - | 16.4 | - | - | - |
| 11 | PS 98 | - | - | - | 14.3 | 3.3 | - | - | - |
| 12 | TMC 09-1 | - | - | - | 3.2 | 26.3 | - | - | - |
| 13 | EHL 1626 | - | - | - | - | 37 | - | 3 | - |
| 14 | EHL 1627 | - | - | - | - | 64.2 | 19.7 | 11.5 | - |
| 15 | PLM 16 | - | - | - | - | 80.7 | - | 3.6 | - |
| 16 | L 245 | - | - | - | - | 85.8 | - | 16.3 | - |
| 17 | PLM 18 | - | - | - | - | 101 | - | 20.1 | - |
| 18 | L 257 | - | - | - | - | 111.2 | - | - | - |
| 19 | EHL 1628 | - | - | - | - | 51.4 | 6.1 | - | - |
| 20 | EHL 1629 | - | - | 39.7 | 61.4 | 114.5 | 0.8 | - | 14.2 |
| 21 | FH 3521 | 0.6 | - | - | 19.9 | 83.6 | - | 16.7 | 8.9 |
| 22 | PVMH 21 | - | - | - | 12.3 | 68.9 | - | 17.8 | 0.5 |
| 23 | FH 3528 | 9.3 | - | - | 6.4 | 38.1 | 19.3 | - | 3.8 |
| 24 | FH 3529 | - | - | - | 1.7 | 58.5 | - | 3.3 | - |
| 25 | FH 3530 | - | - | - | - | 67.7 | 14.5 | - | - |
| CHECKS | | | | | | | | | |
| 26 | Vivek Sankul Makka 31 | - | - | - | - | 81.6 | - | 1.7 | - |
| 27 | Vivek Maize Hybrid 9 | 9.4 | - | - | 14.5 | 42.1 | - | 1.9 | - |
| 28 | Vivek Maize Hybrid 25 | - | - | - | - | - | - | - | - |

Table No. 43 (Cont.)

| SI No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | ZN 1 Mean | DAYS TO 50% SILKING | | | | | | | ZN 1 Mean |
|----------|--------------------|-------------------------|------|------|------|------|------|------|--------------|---------------------|------|------|------|------|------|------|--------------|
| | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | |
| 1 | H 17 | 54.3 | 59.3 | 53.7 | 42.3 | 55.3 | 42.3 | 80.7 | 55.4 | 54.7 | 61.3 | 56.3 | 45.7 | 59.0 | 44.3 | 83.0 | 57.8 |
| 2 | 401 X 460 | 52.3 | 58.0 | 52.0 | 40.7 | 53.0 | 46.0 | 80.3 | 54.6 | 53.3 | 60.0 | 54.0 | 44.3 | 56.3 | 48.3 | 83.0 | 57.0 |
| 3 | FH 3510 | 53.7 | 58.7 | 54.0 | 42.3 | 54.7 | 41.3 | 79.0 | 54.8 | 54.3 | 60.7 | 56.3 | 45.7 | 57.3 | 43.3 | 81.7 | 57.0 |
| 4 | FH 3511 | 56.3 | 60.3 | 56.0 | 45.3 | 55.7 | 51.7 | 78.7 | 57.7 | 57.3 | 62.3 | 58.3 | 49.0 | 58.7 | 54.3 | 81.0 | 60.1 |
| 5 | FH 3512 | 53.7 | 60.0 | 54.7 | 42.3 | 58.0 | 40.7 | 77.7 | 55.3 | 54.3 | 62.0 | 56.7 | 45.7 | 59.0 | 43.0 | 80.0 | 57.2 |
| 6 | FH 3513 | 56.3 | 62.0 | 56.7 | 44.3 | 56.0 | 42.3 | 82.0 | 57.1 | 57.0 | 65.0 | 59.0 | 47.7 | 58.7 | 44.3 | 84.3 | 59.4 |
| 7 | FH 3514 | 53.3 | 59.7 | 54.0 | 43.7 | 56.7 | 41.0 | 79.7 | 55.4 | 54.7 | 61.7 | 56.7 | 47.0 | 61.7 | 43.0 | 82.0 | 58.1 |
| 8 | PVMH 8 | 52.3 | 57.7 | 53.0 | 41.0 | 56.3 | 41.0 | 79.3 | 54.4 | 53.3 | 59.7 | 55.0 | 44.3 | 59.3 | 44.0 | 82.0 | 56.8 |
| 9 | FH 3516 | 50.7 | 55.0 | 51.3 | 40.3 | 53.7 | 41.0 | 77.0 | 52.7 | 51.7 | 57.7 | 53.7 | 43.3 | 56.0 | 43.3 | 79.7 | 55.0 |
| 10 | KDM 72 | 59.7 | 61.0 | 57.0 | 45.7 | 55.7 | 42.0 | 80.3 | 57.3 | 61.0 | 63.0 | 59.7 | 49.0 | 58.0 | 44.7 | 82.7 | 59.7 |
| 11 | PS 98 | 57.3 | 60.3 | 57.0 | 46.3 | 55.3 | 41.7 | 76.7 | 56.4 | 58.0 | 62.3 | 60.3 | 50.0 | 59.0 | 44.0 | 80.7 | 59.2 |
| 12 | TMC 09-1 | 54.3 | 60.0 | 54.3 | 42.3 | 54.3 | 41.0 | 76.7 | 54.7 | 55.0 | 62.0 | 57.0 | 45.7 | 58.7 | 43.3 | 79.3 | 57.3 |
| 13 | EHL 1626 | 54.7 | 58.3 | 52.7 | 43.0 | 53.3 | 42.7 | 76.0 | 54.4 | 55.0 | 60.3 | 48.0 | 46.3 | 55.7 | 45.7 | 78.7 | 55.7 |
| 14 | EHL 1627 | 49.7 | 56.7 | 50.7 | 39.7 | 53.7 | 40.7 | 75.7 | 52.4 | 51.3 | 58.7 | 55.7 | 42.7 | 57.7 | 43.3 | 78.7 | 55.4 |
| 15 | PLM 16 | 55.0 | 57.7 | 53.0 | 43.3 | 52.7 | 42.7 | 76.0 | 54.3 | 56.7 | 59.7 | 56.0 | 47.0 | 55.0 | 45.7 | 79.0 | 57.0 |
| 16 | L 245 | 54.0 | 58.7 | 52.0 | 41.3 | 51.7 | 42.3 | 78.3 | 54.0 | 55.0 | 60.7 | 54.3 | 45.0 | 54.7 | 44.7 | 80.7 | 56.4 |
| 17 | PLM 18 | 58.0 | 63.0 | 56.3 | 47.0 | 52.7 | 41.3 | 78.7 | 56.7 | 58.0 | 65.0 | 60.3 | 51.0 | 55.7 | 43.7 | 81.0 | 59.2 |
| 18 | L 257 | 56.3 | 60.3 | 56.0 | 44.7 | 55.3 | 42.0 | 76.3 | 55.9 | 57.3 | 62.3 | 58.3 | 48.0 | 57.0 | 44.3 | 79.0 | 58.0 |
| 19 | EHL 1628 | 53.0 | 55.0 | 52.0 | 40.3 | 51.7 | 39.3 | 79.0 | 52.9 | 53.3 | 40.3 | 54.7 | 44.0 | 54.7 | 41.7 | 82.0 | 53.0 |
| 20 | EHL 1629 | 57.0 | 60.7 | 56.7 | 44.0 | 52.3 | 40.3 | 80.3 | 55.9 | 58.0 | 62.7 | 59.3 | 47.3 | 55.0 | 43.0 | 83.0 | 58.3 |
| 21 | FH 3521 | 54.0 | 58.7 | 55.7 | 43.0 | 54.0 | 41.3 | 79.7 | 55.2 | 54.3 | 60.7 | 58.0 | 46.0 | 57.3 | 44.0 | 82.3 | 57.5 |
| 22 | PVMH 21 | 55.7 | 60.0 | 57.3 | 43.7 | 54.3 | 41.7 | 79.0 | 56.0 | 56.7 | 62.0 | 60.0 | 46.7 | 56.7 | 44.3 | 81.0 | 58.2 |
| 23 | FH 3528 | 54.0 | 59.3 | 56.0 | 44.3 | 52.7 | 39.3 | 78.7 | 54.9 | 54.7 | 61.3 | 58.3 | 47.3 | 55.7 | 42.3 | 81.0 | 57.2 |
| 24 | FH 3529 | 51.0 | 55.3 | 51.7 | 40.3 | 48.7 | 41.0 | 75.7 | 52.0 | 51.0 | 57.3 | 54.0 | 43.7 | 51.0 | 43.3 | 78.7 | 54.1 |
| 25 | FH 3530 | 51.7 | 56.3 | 50.0 | 40.3 | 47.7 | 39.3 | 74.3 | 51.4 | 52.7 | 58.3 | 52.7 | 43.7 | 51.7 | 41.7 | 77.3 | 54.0 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 26 | Vivek Sankul Makka | 53.7 | 57.3 | 52.7 | 41.3 | 51.3 | 49.3 | 80.7 | 55.2 | 54.7 | 59.3 | 55.7 | 45.0 | 52.7 | 51.7 | 82.7 | 57.4 |
| 27 | Vivek Maize Hybrid | 51.0 | 54.7 | 52.7 | 41.7 | 52.7 | 42.7 | 81.0 | 53.8 | 51.7 | 56.7 | 55.3 | 45.7 | 55.7 | 45.0 | 83.3 | 56.2 |
| 28 | Vivek Maize Hybrid | 54.7 | 60.3 | 56.0 | 42.7 | 54.7 | 49.7 | 81.3 | 57.0 | 55.7 | 62.3 | 58.3 | 46.3 | 58.3 | 52.0 | 83.3 | 59.5 |
| | Loc. Mean | 54.2 | 58.7 | 54.1 | 42.8 | 53.7 | 42.4 | 78.5 | 54.9 | 55.0 | 60.2 | 56.5 | 46.2 | 56.6 | 44.9 | 81.1 | 57.2 |
| | C.D. (5%) | 1.00 | 2.16 | 1.62 | 2.05 | 1.27 | 2.30 | 2.21 | 1.87 | 1.14 | 8.79 | 4.39 | 2.18 | 1.90 | 2.42 | 2.20 | 2.46 |
| | C.V. (%) | 1.13 | 2.25 | 1.83 | 2.93 | 1.45 | 3.31 | 1.72 | 3.22 | 1.27 | 8.92 | 4.74 | 2.88 | 2.04 | 3.30 | 1.65 | 4.07 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 43 (Cont.)

| SI No | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | ZN 1 Mean | MOISTURE % AT HARVEST | | | | | | | ZN 1 Mean |
|----------|--------------------|----------------------|-------|-------|------|------|-------|-------|--------------|-----------------------|------|------|------|------|------|------|--------------|
| | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | |
| 1 | H 17 | 95.3 | 103.0 | 94.7 | 79.0 | 97.7 | 101.0 | 128.3 | 99.9 | 35.1 | 17.7 | 23.3 | 15.2 | 28.7 | 27.0 | 24.0 | 24.4 |
| 2 | 401 X 460 | 93.3 | 99.3 | 91.3 | 78.7 | 96.0 | 100.3 | 128.7 | 98.2 | 32.1 | 19.8 | 22.0 | 15.5 | 26.9 | 28.0 | 24.0 | 24.0 |
| 3 | FH 3510 | 95.0 | 101.0 | 94.7 | 80.7 | 89.7 | 98.3 | 127.0 | 98.0 | 34.2 | 18.9 | 22.7 | 15.1 | 26.5 | 27.0 | 23.0 | 23.9 |
| 4 | FH 3511 | 98.7 | 104.0 | 96.7 | 81.3 | 84.7 | 100.3 | 127.7 | 99.0 | 37.8 | 20.3 | 22.3 | 16.8 | 24.0 | 28.0 | 21.5 | 24.4 |
| 5 | FH 3512 | 93.7 | 100.7 | 82.0 | 80.0 | 86.3 | 99.0 | 128.3 | 95.7 | 37.0 | 19.3 | 23.0 | 15.8 | 22.3 | 27.3 | 22.5 | 23.9 |
| 6 | FH 3513 | 96.3 | 105.7 | 96.3 | 80.7 | 86.7 | 103.7 | 130.3 | 100.0 | 37.0 | 19.7 | 22.0 | 19.5 | 25.3 | 28.0 | 25.5 | 25.3 |
| 7 | FH 3514 | 97.3 | 103.7 | 95.3 | 80.7 | 86.3 | 100.0 | 132.0 | 99.3 | 35.5 | 20.8 | 22.3 | 15.8 | 21.3 | 26.0 | 26.0 | 24.0 |
| 8 | PVMH 8 | 92.3 | 99.7 | 92.7 | 78.7 | 84.7 | 97.3 | 130.3 | 96.5 | 32.1 | 18.3 | 23.0 | 15.9 | 23.7 | 28.3 | 24.0 | 23.6 |
| 9 | FH 3516 | 93.7 | 97.7 | 91.3 | 79.0 | 84.7 | 100.0 | 127.3 | 96.2 | 35.3 | 19.1 | 22.7 | 17.1 | 21.5 | 28.0 | 21.5 | 23.6 |
| 10 | KDM 72 | 101.3 | 103.0 | 98.0 | 80.7 | 87.3 | 101.7 | 132.3 | 100.6 | 38.2 | 19.7 | 23.0 | 17.7 | 22.0 | 26.3 | 25.0 | 24.6 |
| 11 | PS 98 | 100.0 | 104.0 | 97.7 | 79.3 | 85.0 | 99.7 | 128.0 | 99.1 | 38.7 | 19.3 | 22.3 | 15.2 | 21.8 | 26.7 | 22.0 | 23.7 |
| 12 | TMC 09-1 | 97.0 | 101.7 | 95.0 | 79.0 | 85.3 | 101.0 | 125.7 | 97.8 | 33.0 | 19.5 | 23.0 | 17.5 | 21.2 | 26.0 | 22.0 | 23.2 |
| 13 | EHL 1626 | 99.0 | 101.7 | 92.3 | 78.0 | 85.7 | 103.7 | 124.3 | 97.8 | 36.8 | 17.8 | 22.3 | 15.5 | 23.6 | 26.0 | 22.0 | 23.4 |
| 14 | EHL 1627 | 92.3 | 96.0 | 91.0 | 77.0 | 84.0 | 98.7 | 121.0 | 94.3 | 32.5 | 17.2 | 23.3 | 15.6 | 24.8 | 25.7 | 20.0 | 22.7 |
| 15 | PLM 16 | 94.7 | 102.7 | 93.7 | 78.7 | 84.3 | 102.7 | 122.7 | 97.0 | 34.3 | 19.5 | 22.0 | 15.7 | 27.1 | 28.0 | 20.5 | 23.9 |
| 16 | L 245 | 96.0 | 101.7 | 92.0 | 79.0 | 85.7 | 100.3 | 128.3 | 97.6 | 35.3 | 18.7 | 21.7 | 16.2 | 23.7 | 27.3 | 21.5 | 23.5 |
| 17 | PLM 18 | 99.3 | 101.0 | 97.7 | 80.3 | 85.3 | 104.0 | 127.3 | 99.3 | 39.0 | 19.4 | 22.0 | 16.7 | 24.7 | 27.0 | 20.5 | 24.2 |
| 18 | L 257 | 97.3 | 102.7 | 83.0 | 78.7 | 88.0 | 99.0 | 127.7 | 96.6 | 37.7 | 21.0 | 22.0 | 17.1 | 26.4 | 27.7 | 18.0 | 24.3 |
| 19 | EHL 1628 | 94.7 | 100.0 | 92.7 | 79.3 | 84.3 | 102.3 | 131.0 | 97.8 | 35.1 | 19.4 | 22.0 | 16.5 | 25.0 | 25.7 | 23.0 | 23.8 |
| 20 | EHL 1629 | 97.3 | 102.0 | 97.0 | 79.0 | 84.0 | 100.7 | 130.7 | 98.7 | 38.4 | 20.2 | 21.7 | 15.9 | 25.6 | 27.3 | 22.5 | 24.5 |
| 21 | FH 3521 | 95.7 | 100.3 | 96.3 | 80.3 | 83.3 | 103.3 | 129.7 | 98.4 | 36.0 | 19.0 | 20.7 | 18.9 | 23.9 | 27.0 | 21.5 | 23.8 |
| 22 | PVMH 21 | 98.7 | 103.3 | 97.7 | 80.7 | 82.0 | 101.0 | 125.3 | 98.4 | 37.9 | 20.0 | 22.7 | 17.9 | 23.4 | 27.7 | 21.0 | 24.4 |
| 23 | FH 3528 | 96.0 | 104.7 | 96.7 | 79.3 | 86.3 | 100.0 | 120.7 | 97.7 | 37.3 | 19.7 | 23.3 | 16.3 | 23.2 | 27.0 | 20.0 | 23.8 |
| 24 | FH 3529 | 93.0 | 97.3 | 92.0 | 78.7 | 84.7 | 101.3 | 120.7 | 95.4 | 34.8 | 17.8 | 22.3 | 15.6 | 23.2 | 28.0 | 20.5 | 23.2 |
| 25 | FH 3530 | 94.3 | 97.7 | 90.0 | 78.0 | 82.7 | 100.3 | 122.3 | 95.0 | 32.2 | 17.6 | 22.3 | 15.6 | 23.3 | 25.7 | 20.5 | 22.4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 26 | Vivek Sankul Makka | 93.3 | 98.3 | 92.7 | 80.0 | 82.7 | 105.3 | 127.7 | 97.1 | 33.0 | 18.1 | 23.0 | 17.7 | 24.3 | 27.0 | 21.0 | 23.4 |
| 27 | Vivek Maize Hybrid | 93.0 | 100.0 | 93.0 | 80.0 | 85.3 | 100.0 | 131.7 | 97.6 | 34.9 | 19.1 | 22.7 | 15.3 | 24.9 | 26.3 | 22.5 | 23.7 |
| 28 | Vivek Maize Hybrid | 94.7 | 101.0 | 95.3 | 78.0 | 86.0 | 100.0 | 131.3 | 98.0 | 35.8 | 19.1 | 20.7 | 16.1 | 22.1 | 26.0 | 24.0 | 23.4 |
| | Loc. Mean | 95.8 | 101.2 | 93.5 | 79.4 | 86.0 | 100.9 | 127.4 | 97.8 | 35.6 | 19.1 | 22.4 | 16.4 | 24.1 | 27.0 | 22.1 | 23.8 |
| | C.D. (5%) | 1.65 | 2.83 | 10.07 | 1.85 | 1.82 | 2.97 | 1.62 | 2.71 | 2.07 | 1.61 | 1.85 | 0.42 | 1.79 | 1.45 | 0.56 | 1.53 |
| | C.V. (%) | 1.05 | 1.71 | 6.58 | 1.42 | 1.29 | 1.80 | 0.78 | 2.62 | 3.55 | 5.15 | 5.06 | 1.55 | 4.54 | 3.28 | 1.53 | 6.10 |
| | F (Prob.) | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 |

Table No. 43 (Cont.)

| SI No | PEDIGREE | PLANT HEIGHT(cm) | | | | | | ZN 1 Mean | EAR HEIGHT(cm) | | | | | | ZN 1 Mean | |
|--------|---------------------|------------------|------|------|------|------|------|-----------|----------------|------|------|------|------|------|-----------|------|
| | | ALMO | BAJA | JORH | KANG | POON | SRIN | | ALMO | BAJA | BARA | JORH | KANG | POON | | SRIN |
| 1 | H 17 | 208 | 162 | 194 | 287 | 214 | 125 | 198 | 112 | 92 | 71 | 87 | 119 | 95 | 62 | 91 |
| 2 | 401 X 460 | 238 | 172 | 210 | 259 | 240 | 133 | 209 | 122 | 85 | 68 | 109 | 115 | 103 | 68 | 96 |
| 3 | FH 3510 | 205 | 157 | 172 | 212 | 220 | 117 | 180 | 108 | 80 | 49 | 65 | 93 | 79 | 57 | 76 |
| 4 | FH 3511 | 198 | 161 | 176 | 237 | 202 | 115 | 182 | 103 | 74 | 41 | 73 | 115 | 81 | 50 | 77 |
| 5 | FH 3512 | 207 | 148 | 199 | 228 | 234 | 122 | 190 | 113 | 68 | 55 | 97 | 103 | 98 | 58 | 85 |
| 6 | FH 3513 | 212 | 160 | 205 | 226 | 216 | 140 | 193 | 118 | 87 | 55 | 104 | 95 | 99 | 80 | 91 |
| 7 | FH 3514 | 210 | 143 | 189 | 306 | 244 | 127 | 203 | 110 | 73 | 52 | 84 | 116 | 97 | 62 | 85 |
| 8 | PVMH 8 | 228 | 167 | 208 | 303 | 223 | 143 | 212 | 118 | 85 | 65 | 101 | 125 | 79 | 72 | 92 |
| 9 | FH 3516 | 218 | 157 | 188 | 261 | 218 | 153 | 199 | 108 | 70 | 63 | 86 | 115 | 87 | 82 | 87 |
| 10 | KDM 72 | 215 | 177 | 197 | 285 | 212 | 147 | 205 | 120 | 107 | 59 | 105 | 125 | 94 | 73 | 98 |
| 11 | PS 98 | 262 | 182 | 209 | 315 | 218 | 158 | 224 | 143 | 98 | 76 | 99 | 112 | 87 | 80 | 100 |
| 12 | TMC 09-1 | 217 | 153 | 204 | 265 | 227 | 150 | 203 | 125 | 90 | 74 | 101 | 103 | 92 | 80 | 95 |
| 13 | EHL 1626 | 250 | 173 | 221 | 285 | 239 | 150 | 220 | 123 | 82 | 71 | 109 | 112 | 95 | 78 | 96 |
| 14 | EHL 1627 | 223 | 165 | 212 | 272 | 246 | 167 | 214 | 120 | 82 | 60 | 100 | 114 | 94 | 87 | 94 |
| 15 | PLM 16 | 230 | 172 | 196 | 254 | 226 | 168 | 208 | 127 | 92 | 77 | 101 | 118 | 100 | 93 | 101 |
| 16 | L 245 | 220 | 160 | 197 | 255 | 225 | 150 | 201 | 118 | 76 | 74 | 92 | 107 | 96 | 68 | 90 |
| 17 | PLM 18 | 212 | 153 | 182 | 267 | 194 | 147 | 192 | 117 | 75 | 63 | 76 | 119 | 79 | 80 | 87 |
| 18 | L 257 | 237 | 162 | 198 | 275 | 233 | 152 | 209 | 128 | 77 | 64 | 94 | 118 | 96 | 78 | 94 |
| 19 | EHL 1628 | 223 | 167 | 192 | 265 | 218 | 147 | 202 | 118 | 78 | 61 | 92 | 107 | 93 | 68 | 88 |
| 20 | EHL 1629 | 228 | 178 | 216 | 264 | 249 | 157 | 215 | 130 | 105 | 56 | 114 | 126 | 102 | 83 | 102 |
| 21 | FH 3521 | 208 | 161 | 184 | 250 | 208 | 143 | 192 | 115 | 74 | 52 | 87 | 124 | 89 | 75 | 88 |
| 22 | PVMH 21 | 220 | 161 | 208 | 264 | 223 | 128 | 201 | 113 | 82 | 60 | 102 | 117 | 74 | 70 | 88 |
| 23 | FH 3528 | 237 | 167 | 190 | 240 | 233 | 123 | 198 | 123 | 82 | 45 | 84 | 105 | 96 | 68 | 86 |
| 24 | FH 3529 | 213 | 108 | 174 | 218 | 213 | 123 | 175 | 103 | 62 | 49 | 71 | 96 | 76 | 63 | 74 |
| 25 | FH 3530 | 205 | 143 | 175 | 213 | 177 | 113 | 171 | 108 | 58 | 50 | 75 | 98 | 86 | 57 | 76 |
| CHECKS | | | | | | | | | | | | | | | | |
| 26 | Vivek Sankul Makk a | 213 | 114 | 201 | 286 | 245 | 145 | 201 | 113 | 82 | 58 | 98 | 116 | 96 | 73 | 91 |
| 27 | Vivek Maize Hybri d | 218 | 151 | 193 | 280 | 225 | 143 | 202 | 108 | 68 | 65 | 84 | 125 | 85 | 70 | 87 |
| 28 | Vivek Maize Hybri d | 227 | 124 | 189 | 273 | 230 | 127 | 195 | 117 | 80 | 69 | 79 | 121 | 88 | 60 | 87 |
| | Loc. Mean | 221 | 157 | 196 | 262 | 223 | 140 | 200 | 117 | 81 | 61 | 92 | 113 | 91 | 71 | 89 |
| | C.D. (5%) | 11.0 | 37.5 | 18.2 | 11.7 | 13.8 | 8.6 | 16.0 | 10.7 | 12.9 | 21.8 | 17.2 | 9.6 | 7.3 | 6.0 | 8.0 |
| | C.V. (%) | 3.1 | 14.6 | 5.7 | 2.7 | 3.8 | 3.8 | 7.0 | 5.6 | 9.8 | 21.9 | 11.4 | 5.2 | 4.9 | 5.2 | 8.5 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table No. 43 (Cont.)

| SI No | PEDIGREE | GRAIN SHELLING % | | | | | | | ZN 1 Mean | STAND AT HARVEST ('000/ha) | | | | | | | ZN 1 Mean |
|----------|---------------------|------------------|------|------|------|------|------|------|--------------|----------------------------|------|------|------|------|------|------|--------------|
| | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | | ALMO | BAJA | BARA | JORH | KANG | POON | SRIN | |
| 1 | H 17 | 85.6 | 83.1 | 86.3 | 67.6 | 82.0 | 81.5 | 79.0 | 80.7 | 62 | 63 | 40 | 54 | 67 | 40 | 65 | 56 |
| 2 | 401 X 460 | 87.6 | 87.5 | 82.0 | 82.4 | 79.0 | 80.4 | 79.3 | 82.6 | 64 | 71 | 46 | 53 | 69 | 43 | 63 | 58 |
| 3 | FH 3510 | 82.2 | 79.0 | 83.7 | 77.1 | 84.5 | 83.6 | 79.3 | 81.3 | 65 | 70 | 45 | 60 | 69 | 30 | 63 | 58 |
| 4 | FH 3511 | 83.7 | 86.5 | 86.7 | 74.2 | 83.0 | 82.0 | 80.0 | 82.3 | 66 | 60 | 43 | 56 | 66 | 28 | 67 | 55 |
| 5 | FH 3512 | 82.3 | 82.4 | 85.0 | 82.5 | 83.0 | 80.8 | 79.0 | 82.1 | 65 | 67 | 43 | 66 | 65 | 33 | 65 | 58 |
| 6 | FH 3513 | 82.8 | 79.0 | 82.7 | 83.2 | 85.0 | 80.2 | 78.3 | 81.6 | 62 | 64 | 37 | 67 | 67 | 27 | 63 | 55 |
| 7 | FH 3514 | 82.3 | 78.3 | 82.0 | 67.7 | 79.5 | 80.9 | 78.0 | 78.4 | 66 | 65 | 42 | 55 | 67 | 29 | 65 | 56 |
| 8 | PVMH 8 | 83.3 | 80.2 | 82.0 | 80.5 | 84.0 | 81.2 | 79.0 | 81.4 | 62 | 64 | 41 | 53 | 66 | 33 | 65 | 55 |
| 9 | FH 3516 | 82.7 | 81.5 | 85.3 | 69.6 | 83.0 | 81.3 | 79.8 | 80.5 | 65 | 68 | 39 | 61 | 64 | 38 | 63 | 57 |
| 10 | KDM 72 | 86.2 | 88.3 | 85.7 | 80.2 | 83.5 | 81.7 | 79.0 | 83.5 | 60 | 57 | 41 | 51 | 63 | 30 | 64 | 52 |
| 11 | PS 98 | 84.0 | 78.5 | 85.7 | 80.5 | 83.0 | 81.5 | 81.0 | 82.0 | 65 | 70 | 39 | 60 | 64 | 27 | 64 | 56 |
| 12 | TMC 09-1 | 87.2 | 83.2 | 80.0 | 72.1 | 85.5 | 80.8 | 80.3 | 81.3 | 60 | 67 | 40 | 53 | 65 | 29 | 63 | 54 |
| 13 | EHL 1626 | 83.9 | 79.8 | 84.3 | 84.6 | 83.5 | 82.2 | 80.0 | 82.6 | 66 | 71 | 48 | 67 | 69 | 41 | 64 | 61 |
| 14 | EHL 1627 | 84.2 | 78.9 | 81.3 | 80.3 | 83.0 | 80.4 | 82.0 | 81.4 | 59 | 66 | 42 | 52 | 68 | 35 | 65 | 55 |
| 15 | PLM 16 | 83.4 | 76.9 | 81.0 | 82.0 | 85.0 | 80.5 | 79.0 | 81.1 | 61 | 67 | 38 | 52 | 65 | 31 | 65 | 54 |
| 16 | L 245 | 86.0 | 84.6 | 84.7 | 63.4 | 84.5 | 81.2 | 79.0 | 80.5 | 62 | 70 | 45 | 52 | 65 | 45 | 65 | 58 |
| 17 | PLM 18 | 82.2 | 79.3 | 85.7 | 79.3 | 83.5 | 80.1 | 79.0 | 81.3 | 52 | 60 | 40 | 45 | 67 | 25 | 63 | 50 |
| 18 | L 257 | 81.1 | 81.8 | 82.3 | 62.9 | 83.5 | 80.7 | 79.0 | 78.7 | 64 | 63 | 44 | 53 | 67 | 32 | 65 | 55 |
| 19 | EHL 1628 | 84.1 | 81.3 | 86.0 | 65.3 | 84.0 | 82.7 | 78.0 | 80.2 | 62 | 67 | 35 | 53 | 65 | 41 | 63 | 55 |
| 20 | EHL 1629 | 84.8 | 83.8 | 84.0 | 66.1 | 81.0 | 81.3 | 79.0 | 80.0 | 63 | 66 | 45 | 74 | 67 | 37 | 65 | 59 |
| 21 | FH 3521 | 82.3 | 80.2 | 80.3 | 67.8 | 84.0 | 82.4 | 80.0 | 79.6 | 64 | 71 | 46 | 61 | 67 | 38 | 66 | 59 |
| 22 | PVMH 21 | 84.1 | 83.1 | 83.0 | 76.3 | 83.0 | 81.3 | 80.3 | 81.6 | 63 | 52 | 37 | 56 | 63 | 33 | 66 | 53 |
| 23 | FH 3528 | 84.6 | 79.9 | 80.0 | 67.6 | 81.5 | 82.1 | 81.0 | 79.5 | 66 | 70 | 48 | 58 | 60 | 33 | 63 | 57 |
| 24 | FH 3529 | 83.9 | 82.8 | 83.0 | 75.9 | 84.5 | 81.7 | 79.8 | 81.6 | 65 | 69 | 47 | 52 | 65 | 36 | 65 | 57 |
| 25 | FH 3530 | 86.0 | 83.1 | 83.0 | 69.9 | 82.5 | 81.9 | 79.0 | 80.8 | 61 | 66 | 43 | 56 | 69 | 35 | 61 | 56 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 26 | Vivek Sankul Makk a | 84.2 | 80.1 | 83.3 | 67.5 | 79.0 | 82.1 | 81.0 | 79.6 | 63 | 71 | 40 | 54 | 72 | 28 | 65 | 56 |
| 27 | Vivek Maize Hybri d | 85.3 | 84.7 | 85.0 | 73.3 | 84.5 | 82.8 | 80.0 | 82.2 | 63 | 64 | 47 | 58 | 66 | 28 | 65 | 56 |
| 28 | Vivek Maize Hybri d | 85.5 | 84.0 | 81.3 | 74.6 | 82.5 | 81.1 | 80.0 | 81.3 | 64 | 54 | 39 | 59 | 64 | 25 | 65 | 53 |
| | Loc. Mean | 84.1 | 81.8 | 83.4 | 74.1 | 83.0 | 81.4 | 79.6 | 81.1 | 63 | 65 | 42 | 57 | 66 | 33 | 64 | 56 |
| | C.D. (5%) | 0.83 | 0.00 | 6.60 | 2.30 | 1.16 | 1.79 | 0.38 | 3.19 | 5.3 | 9.4 | 7.6 | 13.0 | 7.3 | 7.7 | 3.6 | 4.0 |
| | C.V. (%) | 0.61 | 0.00 | 4.83 | 1.90 | 0.86 | 1.35 | 0.29 | 3.72 | 5.1 | 8.8 | 11.1 | 14.0 | 6.7 | 14.2 | 3.4 | 6.8 |
| | F (Prob.) | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.03 | 0.00 | 0.33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.4 | 0.0 |

TABLE No. 44

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, IN ZONAL TRIAL No. TR201 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PRAKASH | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|--------------|----|--|------|------|------|--------------|
| | | KARN | | LUDH | | PANT | | KANP | | ZN 2 MEAN | | KARN | LUDH | PANT | KANP | ZN 2 MEAN |
| 1 | JH-12109 | 4332 | 1 | 7075 | 4 | 9921 | 2 | 8601 | 4 | 7482 | 2 | 56 | 5.8 | 40.3 | 24.3 | 27.6 |
| 2 | JH-31291 | 4270 | 2 | 8254 | 2 | 7552 | 6 | 8666 | 3 | 7186 | 4 | 53.8 | 23.4 | 6.8 | 25.2 | 22.5 |
| 3 | JH-31294 | 3436 | 6 | 8257 | 1 | 8780 | 3 | 8489 | 5 | 7240 | 3 | 23.7 | 23.4 | 24.2 | 22.7 | 23.5 |
| 4 | HKJ-408 | 3339 | 7 | 6144 | 6 | 7038 | 9 | 7457 | 7 | 5995 | 7 | 20.2 | - | - | 7.7 | 2.2 |
| 5 | HKH-409 | 3700 | 5 | 5263 | 9 | 8343 | 4 | 7171 | 8 | 6119 | 6 | 33.2 | - | 18 | 3.6 | 4.4 |
| 6 | HKH-410 | 2779 | 11 | 5630 | 7 | 7096 | 7 | 6509 | 12 | 5504 | 9 | 0.1 | - | 0.4 | - | - |
| 7 | AH-97015 | 3236 | 9 | 4558 | 11 | 4872 | 12 | 8725 | 2 | 5348 | 11 | 16.5 | - | - | 26.1 | - |
| 8 | AH-97013 | 3306 | 8 | 4864 | 10 | 6362 | 10 | 7133 | 9 | 5416 | 10 | 19.1 | - | - | 3.1 | - |
| 9 | AH-97018 | 3224 | 10 | 4337 | 12 | 5554 | 11 | 7019 | 10 | 5034 | 12 | 16.1 | - | - | 1.4 | - |
| CHECKS | | | | | | | | | | | | | | | | |
| 10 | PRAKASH | 2777 | 12 | 6689 | 5 | 7068 | 8 | 6921 | 11 | 5864 | 8 | - | - | - | - | - |
| 11 | SEED TECH | 3890 | 4 | 7320 | 3 | 11493 | 1 | 8776 | 1 | 7870 | 1 | 40.1 | 9.4 | 62.6 | 26.8 | 34.2 |
| 12 | MKKA-2 | 4119 | 3 | 5296 | 8 | 7618 | 5 | 7542 | 6 | 6144 | 5 | 48.3 | - | 7.8 | 9 | 4.8 |
| | Location Mean | 3534 | | 6141 | | 7641 | | 7751 | | 6267 | | | | | | |
| | Mean Stand | 31 | | 34 | | 34 | | 36 | | 34 | | | | | | |
| | C.D. (5%) | 530 | | 942 | | 1945 | | 1167 | | 1146 | | | | | | |
| | C.V. (%) | 10.42 | | 10.65 | | 17.68 | | 8.87 | | - | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | - | | | | | | |
| | Plot Size | 6 | | 5.2 | | 6 | | 4.8 | | - | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 2-07 | | 1-08 | | 14-07 | | - | | | | | | |
| | Harvest Date | 4-10 | | 13-10 | | 19-11 | | 6-11 | | - | | | | | | |
| | Irrigation Nos | 5 | | 7 | | - | | 2 | | - | | | | | | |
| | Fertilizer Applied N | 150 | | - | | 120 | | 80 | | - | | | | | | |
| | Fertilizer Applied P | 60 | | - | | 60 | | 40 | | - | | | | | | |
| | Fertilizer Applied K | 60 | | - | | 40 | | 40 | | - | | | | | | |

TABLE No. 44(Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE SEED TECH | | | | ZN 2 MEAN | GRAIN YIELD % SUPERIORITY OVER THE MKKA-2 | | | | ZN 2 MEAN | DAYS TO 50% POLLEN SHED | | | | ZN 2 Mean |
|----------|-----------|---|------|------|------|--------------|--|------|------|------|--------------|-------------------------|------|------|------|--------------|
| | | KARN | LUDH | PANT | KANP | | KARN | LUDH | PANT | KANP | | KARN | LUDH | PANT | KANP | |
| 1 | JH-12109 | 11.4 | - | - | - | - | 5.2 | 33.6 | 30.2 | 14 | 21.8 | 46.3 | 52.8 | 54.0 | 53.3 | 51.6 |
| 2 | JH-31291 | 9.8 | 12.7 | - | - | - | 3.7 | 55.8 | - | 14.9 | 17 | 46.0 | 54.3 | 55.0 | 51.3 | 51.6 |
| 3 | JH-31294 | - | 12.8 | - | - | - | - | 55.9 | 15.3 | 12.6 | 17.8 | 46.0 | 53.8 | 55.3 | 51.3 | 51.6 |
| 4 | HKJ-408 | - | - | - | - | - | - | 16 | - | - | - | 46.8 | 50.8 | 52.8 | 52.7 | 50.7 |
| 5 | HKH-409 | - | - | - | - | - | - | - | 9.5 | - | - | 46.5 | 51.3 | 52.3 | 52.3 | 50.6 |
| 6 | HKH-410 | - | - | - | - | - | - | 6.3 | - | - | - | 46.3 | 52.3 | 53.3 | 50.7 | 50.6 |
| 7 | AH-97015 | - | - | - | - | - | - | - | - | 15.7 | - | 46.8 | 50.0 | 53.3 | 53.0 | 50.8 |
| 8 | AH-97013 | - | - | - | - | - | - | - | - | - | - | 46.5 | 49.0 | 50.0 | 49.0 | 48.6 |
| 9 | AH-97018 | - | - | - | - | - | - | - | - | - | - | 46.8 | 48.3 | 50.8 | 49.0 | 48.7 |
| | CHECKS | | | | | | | | | | | | | | | |
| 10 | PRAKASH | - | - | - | - | - | - | 26.3 | - | - | - | 45.3 | 46.3 | 49.5 | 49.3 | 47.6 |
| 11 | SEED TECH | - | - | - | - | - | - | 38.2 | 50.9 | 16.4 | 28.1 | 47.3 | 53.0 | 54.8 | 50.3 | 51.3 |
| 12 | MKKA-2 | 5.9 | - | - | - | - | - | - | - | - | - | 45.8 | 49.3 | 50.3 | 53.3 | 49.6 |
| | Loc. Mean | | | | | | | | | | | 46.3 | 50.9 | 52.6 | 51.3 | 50.3 |
| | C.D. (5%) | | | | | | | | | | | 1.40 | 1.54 | 1.94 | 1.08 | 2.00 |
| | C.V. (%) | | | | | | | | | | | 2.10 | 2.10 | 2.57 | 1.24 | 2.77 |
| | F (Prob.) | | | | | | | | | | | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 44(Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | ZN 2 Mean | DAYS TO 75% DRY HUSK | | | | ZN 2 Mean | MOISTURE % AT HARVEST | | | | | ZN 2 Mean |
|----------|-----------|---------------------|------|------|------|------|--------------|----------------------|------|------|------|--------------|-----------------------|-------|-------|------|-------|--------------|
| | | DELH | KARN | LUDH | PANT | KANP | | KARN | LUDH | KANP | DELH | | KARN | LUDH | PANT | KANP | | |
| 1 | JH-12109 | 71.0 | 48.3 | 54.0 | 56.5 | 58.3 | 57.6 | 80.3 | 88.0 | 99.0 | 89.1 | 36.5 | 25.0 | 18.1 | 29.2 | 15.0 | 24.8 | |
| 2 | JH-31291 | 68.3 | 48.3 | 55.5 | 57.3 | 57.0 | 57.3 | 79.5 | 95.0 | 98.3 | 90.9 | 36.1 | 29.7 | 17.0 | 31.8 | 15.0 | 25.9 | |
| 3 | JH-31294 | 71.0 | 48.8 | 54.8 | 57.0 | 56.7 | 57.6 | 79.5 | 95.3 | 98.7 | 91.1 | 35.7 | 32.0 | 17.5 | 30.5 | 15.0 | 26.1 | |
| 4 | HKJ-408 | 68.5 | 49.0 | 51.8 | 55.3 | 58.0 | 56.5 | 80.8 | 90.8 | 99.0 | 90.2 | 35.9 | 33.3 | 15.2 | 27.6 | 15.0 | 25.4 | |
| 5 | HKH-409 | 71.0 | 49.0 | 52.3 | 55.3 | 57.3 | 57.0 | 80.5 | 88.8 | 98.7 | 89.3 | 25.2 | 32.8 | 16.8 | 23.5 | 15.0 | 22.6 | |
| 6 | HKH-410 | 71.0 | 48.5 | 53.3 | 56.0 | 56.3 | 57.0 | 77.3 | 93.8 | 97.0 | 89.3 | 38.0 | 32.0 | 16.9 | 25.3 | 15.0 | 25.4 | |
| 7 | AH-97015 | 66.5 | 49.0 | 51.0 | 55.8 | 58.3 | 56.1 | 80.3 | 88.5 | 99.3 | 89.4 | 28.0 | 30.4 | 14.5 | 26.7 | 15.0 | 22.9 | |
| 8 | AH-97013 | 61.3 | 48.8 | 50.0 | 52.8 | 55.7 | 53.7 | 79.3 | 88.0 | 97.3 | 88.2 | 27.1 | 32.7 | 14.3 | 24.5 | 15.0 | 22.7 | |
| 9 | AH-97018 | 67.0 | 48.8 | 49.3 | 53.5 | 55.0 | 54.7 | 81.0 | 88.0 | 95.7 | 88.2 | 26.1 | 33.3 | 13.9 | 26.9 | 15.0 | 23.0 | |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | PRAKASH | 56.0 | 47.5 | 47.3 | 51.8 | 55.3 | 51.6 | 79.0 | 91.3 | 96.7 | 89.0 | 22.9 | 31.9 | 15.6 | 27.6 | 15.0 | 22.6 | |
| 11 | SEED TECH | 71.0 | 49.3 | 54.0 | 57.3 | 55.7 | 57.4 | 79.8 | 88.0 | 96.7 | 88.1 | 36.4 | 32.0 | 18.8 | 22.9 | 15.0 | 25.0 | |
| 12 | MKKA-2 | 64.0 | 48.0 | 50.3 | 52.8 | 58.7 | 54.7 | 80.0 | 85.8 | 99.3 | 88.4 | 32.0 | 33.6 | 16.4 | 26.4 | 15.0 | 24.7 | |
| | Loc. Mean | 67.2 | 48.6 | 51.9 | 55.1 | 56.9 | 55.9 | 79.8 | 90.1 | 98.0 | 89.3 | 31.6 | 31.6 | 16.2 | 26.9 | 15.0 | 24.3 | |
| | C.D. (5%) | 3.51 | 1.55 | 1.55 | 2.17 | 1.10 | 2.57 | 2.25 | 3.32 | 0.75 | 3.60 | 9.48 | - | 2.51 | 4.71 | - | 3.78 | |
| | C.V. (%) | 3.09 | 2.22 | 2.07 | 2.73 | 1.14 | 3.60 | 1.96 | 2.56 | 0.45 | 2.38 | 17.71 | - | 10.73 | 12.18 | - | 12.24 | |
| | F (Prob.) | 0.00 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.73 | 0.02 | - | 0.00 | 0.01 | - | 0.39 | |

TABLE No. 44(Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT(cm) | | | | | ZN 2 Mean | EAR HEIGHT(cm) | | | | | ZN 2 Mean |
|----------|-----------|------------------|------|------|------|------|--------------|----------------|------|------|------|------|--------------|
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-12109 | 238 | 178 | 249 | 249 | 202 | 223 | 127 | 86 | 110 | 109 | 88 | 104 |
| 2 | JH-31291 | 243 | 188 | 248 | 234 | 209 | 224 | 120 | 90 | 106 | 104 | 105 | 105 |
| 3 | JH-31294 | 237 | 199 | 258 | 277 | 215 | 237 | 127 | 107 | 96 | 116 | 110 | 111 |
| 4 | HKJ-408 | 238 | 163 | 225 | 218 | 195 | 208 | 122 | 73 | 91 | 82 | 92 | 92 |
| 5 | HKH-409 | 223 | 156 | 214 | 217 | 159 | 194 | 107 | 71 | 86 | 87 | 83 | 86 |
| 6 | HKH-410 | 230 | 178 | 231 | 233 | 181 | 211 | 122 | 78 | 85 | 95 | 62 | 88 |
| 7 | AH-97015 | 245 | 174 | 222 | 212 | 165 | 204 | 127 | 86 | 78 | 86 | 70 | 89 |
| 8 | AH-97013 | 240 | 173 | 231 | 229 | 156 | 206 | 120 | 78 | 94 | 98 | 79 | 94 |
| 9 | AH-97018 | 225 | 148 | 226 | 223 | 185 | 201 | 117 | 76 | 88 | 89 | 65 | 87 |
| | CHECKS | | | | | | | | | | | | |
| 10 | PRAKASH | 262 | 171 | 225 | 218 | 169 | 209 | 138 | 90 | 94 | 99 | 79 | 100 |
| 11 | SEED TECH | 227 | 170 | 236 | 240 | 205 | 216 | 117 | 85 | 104 | 110 | 95 | 102 |
| 12 | MKKA-2 | 228 | 163 | 223 | 207 | 209 | 206 | 119 | 86 | 94 | 85 | 101 | 97 |
| | Loc. Mean | 236 | 172 | 232 | 230 | 188 | 211 | 122 | 84 | 94 | 96 | 86 | 96 |
| | C.D. (5%) | 38.9 | 13.7 | 15.2 | 16.2 | 33.3 | 15.6 | 28.0 | 11.5 | 14.0 | 8.2 | 14.3 | 10.7 |
| | C.V. (%) | 9.7 | 5.5 | 4.6 | 4.9 | 10.5 | 5.8 | 13.6 | 9.6 | 10.4 | 5.9 | 9.8 | 8.7 |
| | F (Prob.) | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE No. 44(Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | ZN 2 Mean | STAND AT HARVEST ('000/ha) | | | | ZN 2 Mean |
|----------|-----------|------------------|------|------|------|--------------|----------------------------|------|------|------|--------------|
| | | KARN | LUDH | PANT | KANP | | KARN | LUDH | PANT | KANP | |
| 1 | JH-12109 | 80.6 | 80.0 | 85.0 | 73.5 | 79.8 | 59 | 63 | 60 | 79 | 65 |
| 2 | JH-31291 | 85.8 | 83.1 | 82.2 | 74.0 | 81.3 | 51 | 68 | 60 | 75 | 64 |
| 3 | JH-31294 | 85.1 | 80.6 | 78.7 | 73.0 | 79.3 | 50 | 62 | 60 | 79 | 63 |
| 4 | HKJ-408 | 78.6 | 81.4 | 83.3 | 72.0 | 78.8 | 51 | 66 | 48 | 78 | 61 |
| 5 | HKH-409 | 78.7 | 79.5 | 83.3 | 72.0 | 78.4 | 50 | 69 | 58 | 74 | 62 |
| 6 | HKH-410 | 80.5 | 79.1 | 85.7 | 72.0 | 79.3 | 51 | 59 | 57 | 72 | 60 |
| 7 | AH-97015 | 83.3 | 83.3 | 80.0 | 74.0 | 80.1 | 51 | 63 | 60 | 76 | 62 |
| 8 | AH-97013 | 80.7 | 84.0 | 87.5 | 72.5 | 81.2 | 53 | 67 | 55 | 75 | 63 |
| 9 | AH-97018 | 81.8 | 81.5 | 78.8 | 70.0 | 78.0 | 52 | 58 | 53 | 73 | 59 |
| | CHECKS | | | | | | | | | | |
| 10 | PRAKASH | 83.3 | 84.8 | 78.7 | 72.0 | 79.7 | 51 | 70 | 59 | 74 | 63 |
| 11 | SEED TECH | 83.3 | 80.4 | 87.5 | 73.5 | 81.2 | 48 | 68 | 55 | 76 | 62 |
| 12 | MKKA-2 | 85.9 | 83.2 | 83.3 | 72.5 | 81.2 | 54 | 78 | 61 | 76 | 67 |
| | Loc. Mean | 82.3 | 81.7 | 82.8 | 72.6 | 79.9 | 52 | 66 | 57 | 76 | 63 |
| | C.D. (5%) | 0.00 | 3.65 | - | 0.42 | 3.38 | 4.0 | 11.8 | 6.9 | 3.7 | 5.1 |
| | C.V. (%) | 0.00 | 3.11 | - | 0.34 | 2.94 | 5.3 | 12.5 | 8.3 | 2.9 | 5.7 |
| | F (Prob.) | 0.00 | 0.04 | - | 0.00 | 0.50 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 |

TABLE No. 45

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR IN ZONAL TRIAL No. TR202 DURING KHARIF (2008).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE NAVJOT | | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|---|----|------|------|------|------|--------------|
| | | KARN | R | LUDH | R | PANT | R | KANP | R | ZN 2 MEAN | R | KARN | LUDH | PANT | KANP | ZN 2 MEAN |
| 1 | JH-31312 | 4594 | 2 | 3987 | 5 | 7147 | 2 | 7310 | 7 | 5760 | 2 | 2.3 | 9.3 | 2.5 | - | 1.1 |
| 2 | HKH-314 | 4466 | 4 | 4665 | 1 | 9437 | 1 | 8085 | 1 | 6663 | 1 | - | 27.9 | 35.4 | 5.2 | 16.9 |
| 3 | AH-97014 | 3909 | 8 | 2380 | 10 | 5744 | 8 | 7636 | 3 | 4917 | 8 | - | - | - | - | - |
| 4 | AH-97030 | 3097 | 9 | 4233 | 2 | 6652 | 5 | 7248 | 8 | 5308 | 6 | - | 16.1 | - | - | - |
| 5 | AH-97016 | 3985 | 6 | 4177 | 4 | 6179 | 7 | 6607 | 10 | 5237 | 7 | - | 14.5 | - | - | - |
| 6 | AH-97025 | 3079 | 10 | 3818 | 6 | 5617 | 9 | 6885 | 9 | 4850 | 10 | - | 4.7 | - | - | - |
| 7 | AH977011 | 3962 | 7 | 3299 | 9 | 5007 | 10 | 7380 | 6 | 4912 | 9 | - | - | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | |
| 8 | NAVJOT | 4489 | 3 | 3647 | 7 | 6971 | 3 | 7686 | 2 | 5698 | 3 | - | - | - | - | - |
| 9 | BIO-9681 | 4462 | 5 | 4217 | 3 | 6631 | 6 | 7465 | 5 | 5694 | 4 | - | 15.6 | - | - | - |
| 10 | PEHM-2 | 4977 | 1 | 3400 | 8 | 6691 | 4 | 7566 | 4 | 5659 | 5 | 10.9 | - | - | - | - |
| | Location Mean | 4102 | | 3782 | | 6608 | | 7387 | | 5470 | | | | | | |
| | Mean Stand | 35 | | 35 | | 32 | | 36 | | 35 | | | | | | |
| | C.D. (5%) | 726 | | 640 | | 2131 | | 345 | | 960 | | | | | | |
| | C.V. (%) | 12.17 | | 11.64 | | 22.18 | | 2.71 | | - | | | | | | |
| | F (Prob) | 0 | | 0 | | 0.001 | | 0 | | - | | | | | | |
| | Plot Size | 6 | | 5.46 | | 6 | | 4.8 | | - | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 24-07 | | 1-08 | | 14-07 | | - | | | | | | |
| | Harvest Date | 28-09 | | 28-10 | | 19-11 | | 6-11 | | - | | | | | | |
| | Irrigation Nos | 5 | | 6 | | - | | 2 | | - | | | | | | |
| | Fertilizer Applied N | 150 | | 125 | | 120 | | 80 | | - | | | | | | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 40 | | - | | | | | | |
| | Fertilizer Applied K | 60 | | - | | 40 | | 40 | | - | | | | | | |

TABLE No. 45(Cont..)

| Sl No | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | GRAIN YIELD % SUPERIORITY OVER THE PEHM-2 | | | | | |
|----------|---|------|------|------|--------------|---|------|------|------|--------------|------|
| | KARN | LUDH | PANT | KANP | ZN 2 MEAN | KARN | LUDH | PANT | KANP | ZN 2 MEAN | |
| 1 | JH-31312 | 3 | - | 7.8 | - | 1.2 | - | 17.3 | 6.8 | - | 1.8 |
| 2 | HKH-314 | 0.1 | 10.6 | 42.3 | 8.3 | 17 | - | 37.2 | 41 | 6.9 | 17.8 |
| 3 | AH-97014 | - | - | - | 2.3 | - | - | - | - | 0.9 | - |
| 4 | AH-97030 | - | 0.4 | 0.3 | - | - | - | 24.5 | - | - | - |
| 5 | AH-97016 | - | - | - | - | - | - | 22.9 | - | - | - |
| 6 | AH-97025 | - | - | - | - | - | - | 12.3 | - | - | - |
| 7 | AH977011 | - | - | - | - | - | - | - | - | - | - |
| CHECKS | | | | | | | | | | | |
| 8 | NAVJOT | 0.6 | - | 5.1 | 3 | 0.1 | - | 7.3 | 4.2 | 1.6 | 0.7 |
| 9 | BIO-9681 | - | - | - | - | - | - | 24 | - | - | 0.6 |
| 10 | PEHM-2 | 11.6 | - | 0.9 | 1.4 | - | - | - | - | - | - |

| Sl No | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | | |
|----------|-------------------------|------|------|------|--------------|---------------------|------|------|------|------|----------------------|------|------|------|--------------|------|
| | KARN | LUDH | PANT | KANP | ZN 2 Mean | DELH | KARN | LUDH | PANT | KANP | ZN 2 Mean | KARN | LUDH | KANP | ZN 2 Mean | |
| 1 | JH-31312 | 49.8 | 51.0 | 53.0 | 52.7 | 51.6 | 65.7 | 52.0 | 52.0 | 56.0 | 57.7 | 56.7 | 81.3 | 81.3 | 87.3 | 83.3 |
| 2 | HKH-314 | 49.0 | 51.8 | 53.3 | 50.7 | 51.2 | 67.3 | 51.0 | 52.8 | 56.3 | 55.7 | 56.6 | 80.3 | 82.0 | 85.7 | 82.6 |
| 3 | AH-97014 | 48.5 | 51.0 | 55.0 | 54.7 | 52.3 | 65.5 | 50.5 | 52.0 | 58.3 | 60.3 | 57.3 | 79.0 | 81.3 | 90.0 | 83.4 |
| 4 | AH-97030 | 48.8 | 52.8 | 53.5 | 54.3 | 52.3 | 67.5 | 50.8 | 53.8 | 56.5 | 60.0 | 57.7 | 79.8 | 82.8 | 90.0 | 84.2 |
| 5 | AH-97016 | 47.3 | 50.5 | 52.5 | 51.7 | 50.5 | 60.5 | 49.3 | 51.5 | 55.3 | 57.0 | 54.7 | 79.8 | 80.5 | 85.7 | 82.0 |
| 6 | AH-97025 | 47.5 | 52.5 | 52.0 | 51.7 | 50.9 | 64.0 | 49.5 | 53.5 | 54.5 | 56.7 | 55.6 | 77.3 | 82.3 | 87.0 | 82.2 |
| 7 | AH977011 | 46.5 | 50.8 | 52.8 | 51.7 | 50.4 | 60.0 | 48.5 | 51.8 | 55.8 | 57.0 | 54.6 | 77.0 | 82.0 | 87.7 | 82.2 |
| CHECKS | | | | | | | | | | | | | | | | |
| 8 | NAVJOT | 47.0 | 52.8 | 51.3 | 35.0 | 46.5 | 55.0 | 49.3 | 53.8 | 53.8 | 55.3 | 53.4 | 78.3 | 83.0 | 86.0 | 82.4 |
| 9 | BIO-9681 | 49.0 | 52.8 | 52.3 | 49.0 | 50.8 | 66.0 | 51.3 | 53.8 | 55.0 | 54.7 | 56.1 | 80.0 | 82.3 | 85.3 | 82.5 |
| 10 | PEHM-2 | 44.0 | 52.3 | 50.3 | 48.0 | 48.6 | 61.3 | 46.0 | 53.3 | 53.3 | 53.7 | 53.5 | 77.0 | 81.8 | 85.0 | 81.3 |
| | Loc. Mean | 47.7 | 51.8 | 52.6 | 49.9 | 50.5 | 63.3 | 49.8 | 52.8 | 55.5 | 56.8 | 55.6 | 79.0 | 81.9 | 87.0 | 82.6 |
| | C.D. (5%) | 2.26 | 0.86 | 2.01 | 14.26 | 4.16 | 6.74 | 2.42 | 0.86 | 2.12 | 0.95 | 2.48 | 2.65 | 1.28 | 1.89 | 2.45 |
| | C.V. (%) | 3.27 | 1.15 | 2.64 | 16.65 | 5.68 | 6.21 | 3.35 | 1.12 | 2.63 | 0.97 | 3.47 | 2.32 | 1.07 | 1.27 | 1.73 |
| | F (Prob.) | 0.00 | 0.00 | 0.01 | 0.27 | 0.19 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.00 | 0.47 |

TABLE No. 45(Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | | | |
|----------|-----------|-----------------------|------|------|------|------|------------------|------|------|------|------|----------------|------|------|------|------|------|
| | | DELH | KARN | LUDH | PANT | KANP | Mean | DELH | KARN | LUDH | PANT | KANP | Mean | DELH | KARN | LUDH | PANT |
| 1 | JH-31312 | 32.9 | 33.2 | 29.1 | 31.6 | 15.0 | 28.4 | 228 | 194 | 180 | 231 | 215 | 210 | 110 | 97 | 84 | 90 |
| 2 | HKH-314 | 28.0 | 32.0 | 31.6 | 24.5 | 15.0 | 26.2 | 222 | 182 | 183 | 240 | 205 | 206 | 108 | 101 | 89 | 102 |
| 3 | AH-97014 | 35.5 | 30.2 | 28.7 | 32.0 | 15.0 | 28.3 | 222 | 179 | 170 | 213 | 197 | 196 | 117 | 106 | 93 | 96 |
| 4 | AH-97030 | 35.0 | 34.0 | 29.5 | 26.3 | 15.0 | 28.0 | 233 | 188 | 198 | 241 | 190 | 210 | 125 | 114 | 95 | 106 |
| 5 | AH-97016 | 30.8 | 31.9 | 26.9 | 23.7 | 15.0 | 25.6 | 225 | 195 | 189 | 240 | 191 | 208 | 130 | 115 | 103 | 106 |
| 6 | AH-97025 | 33.0 | 32.4 | 28.3 | 25.4 | 15.0 | 26.8 | 203 | 181 | 174 | 219 | 181 | 192 | 100 | 96 | 89 | 97 |
| 7 | AH977011 | 33.8 | 32.3 | 26.8 | 28.3 | 15.0 | 27.2 | 220 | 164 | 168 | 220 | 175 | 189 | 102 | 81 | 83 | 90 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 8 | NAVJOT | 28.0 | 31.5 | 29.4 | 23.4 | 15.0 | 25.4 | 225 | 176 | 199 | 233 | 180 | 203 | 117 | 82 | 96 | 95 |
| 9 | BIO-9681 | 23.2 | 31.9 | 32.8 | 31.2 | 15.0 | 26.8 | 210 | 172 | 176 | 214 | 179 | 190 | 93 | 85 | 91 | 86 |
| 10 | PEHM-2 | 23.9 | 33.0 | 28.2 | 26.7 | 15.0 | 25.4 | 218 | 163 | 166 | 212 | 155 | 183 | 103 | 83 | 83 | 85 |
| | Loc. Mean | 30.4 | 32.2 | 29.1 | 27.3 | 15.0 | 26.8 | 221 | 179 | 180 | 226 | 187 | 199 | 111 | 96 | 90 | 95 |
| | C.D. (5%) | 5.94 | - | 1.33 | 3.52 | - | 3.44 | 28 | 9 | 20 | 20 | 20 | 11 | 27 | 8 | 21 | 14 |
| | C.V. (%) | 11.40 | - | 3.15 | 8.88 | - | 10.00 | 7.5 | 3.6 | 7.7 | 6.2 | 6.2 | 4.2 | 14 | 6 | 16 | 10 |
| | F (Prob.) | 0.00 | - | 0.00 | 0.00 | - | 0.53 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 1 | 0 |

| Sl No | PEDIGREE | EAR HEIGHT(cm) | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | | | | | |
|----------|-----------|----------------|------|------------------|------|------|----------------------------|------|------|------|------|------|------|
| | | KANP | Mean | KARN | LUDH | PANT | KANP | Mean | KARN | LUDH | PANT | KANP | Mean |
| 1 | JH-31312 | 98 | 96 | 78.4 | 80.4 | 82.1 | 72.5 | 78.3 | 61 | 65 | 59 | 75 | 65 |
| 2 | HKH-314 | 90 | 98 | 84.0 | 83.6 | 83.3 | 74.5 | 81.4 | 59 | 71 | 62 | 79 | 68 |
| 3 | AH-97014 | 92 | 100 | 85.7 | 75.0 | 86.7 | 74.0 | 80.3 | 58 | 62 | 47 | 76 | 60 |
| 4 | AH-97030 | 90 | 106 | 83.6 | 82.6 | 87.2 | 73.0 | 81.6 | 59 | 60 | 49 | 72 | 60 |
| 5 | AH-97016 | 95 | 110 | 79.4 | 82.1 | 85.2 | 70.0 | 79.2 | 58 | 68 | 51 | 69 | 62 |
| 6 | AH-97025 | 74 | 91 | 76.1 | 85.0 | 84.1 | 72.0 | 79.3 | 54 | 62 | 48 | 72 | 59 |
| 7 | AH977011 | 62 | 83 | 83.3 | 80.5 | 82.5 | 73.0 | 79.8 | 58 | 60 | 48 | 74 | 60 |
| CHECKS | | | | | | | | | | | | | |
| 8 | NAVJOT | 65 | 91 | 80.3 | 83.5 | 83.3 | 75.0 | 80.5 | 59 | 64 | 60 | 78 | 65 |
| 9 | BIO-9681 | 77 | 87 | 82.5 | 84.7 | 82.5 | 73.0 | 80.7 | 55 | 67 | 59 | 73 | 64 |
| 10 | PEHM-2 | 75 | 86 | 84.4 | 83.8 | 86.7 | 73.0 | 82.0 | 62 | 63 | 59 | 75 | 65 |
| | Loc. Mean | 82 | 95 | 81.8 | 82.1 | 84.3 | 73.0 | 80.3 | 58 | 64 | 54 | 74 | 63 |
| | C.D. (5%) | 5 | 9 | - | 0.71 | - | 1.13 | 3.60 | 5.8 | 6.8 | 7.0 | 3.6 | 4.6 |
| | C.V. (%) | 3 | 7 | - | 0.60 | - | 0.90 | 3.09 | 6.8 | 7.3 | 8.9 | 2.8 | 5.1 |
| | F (Prob.) | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE No. 46

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR IN ZONAL TRIAL No. TR203 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYD.-2 | | | | | | |
|----------|------------|-------------------------------------|----|------|----|-------|----|------|----|--------------|----|--|----|------|------|------|------|--------------|
| | | KARN | R | LUDH | R | PANT | R | KANP | R | ZN 2 MEAN | R | OV'L MEAN | R | KARN | LUDH | PANT | KANP | ZN 2 MEAN |
| 1 | JH-31204 | 2706 | 16 | 4259 | 11 | 9364 | 3 | 8710 | 1 | 6260 | 5 | 6260 | 5 | - | - | 13.3 | 4.6 | - |
| 2 | JH-31307 | 2586 | 18 | 6261 | 4 | 7925 | 6 | 7399 | 11 | 6043 | 6 | 6043 | 6 | - | - | - | - | - |
| 3 | JH-31324 | 3070 | 7 | 3270 | 18 | 7313 | 7 | 6759 | 18 | 5103 | 13 | 5103 | 13 | 0.8 | - | - | - | - |
| 4 | JH-31329 | 3212 | 3 | 6733 | 2 | 9295 | 4 | 7760 | 7 | 6750 | 1 | 6750 | 1 | 5.5 | - | 12.4 | - | 1.7 |
| 5 | JH-31334 | 2979 | 10 | 6540 | 3 | 9532 | 2 | 6359 | 22 | 6352 | 3 | 6352 | 3 | - | - | 15.3 | - | - |
| 6 | JH-31342 | 3260 | 1 | 4624 | 8 | 7222 | 8 | 7453 | 10 | 5640 | 8 | 5640 | 8 | 7 | - | - | - | - |
| 7 | JH-31353 | 2825 | 13 | 6245 | 5 | 10297 | 1 | 5977 | 23 | 6336 | 4 | 6336 | 4 | - | - | 24.6 | - | - |
| 8 | DH-167 | 2926 | 11 | 2839 | 21 | 6654 | 13 | 8540 | 2 | 5240 | 10 | 5240 | 10 | - | - | - | 2.5 | - |
| 9 | DH-169 | 3118 | 5 | 2084 | 24 | 5587 | 19 | 7302 | 12 | 4523 | 24 | 4523 | 24 | 2.4 | - | - | - | - |
| 10 | DH-175 | 3090 | 6 | 3912 | 13 | 6261 | 14 | 7252 | 14 | 5129 | 12 | 5129 | 12 | 1.4 | - | - | - | - |
| 11 | DH-181 | 2392 | 23 | 2183 | 23 | 5418 | 21 | 8227 | 6 | 4555 | 23 | 4555 | 23 | - | - | - | - | - |
| 12 | DH-183 | 3059 | 8 | 3049 | 20 | 4892 | 24 | 8339 | 4 | 4835 | 16 | 4835 | 16 | 0.4 | - | - | 0.1 | - |
| 13 | DH-185 | 2366 | 24 | 4180 | 12 | 5368 | 22 | 7271 | 13 | 4796 | 18 | 4796 | 18 | - | - | - | - | - |
| 14 | DH-P.S.M-1 | 2403 | 22 | 3764 | 14 | 5566 | 20 | 6990 | 15 | 4681 | 21 | 4681 | 21 | - | - | - | - | - |
| 15 | AH-97004 | 2683 | 17 | 4531 | 10 | 5200 | 23 | 6604 | 21 | 4755 | 19 | 4755 | 19 | - | - | - | - | - |

Table No. 46(Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYD.-2 | | | | | | |
|---------------|--------------------|-------------------------------------|----|-------|----|-------|----|-------|----|--------------|----|--|----|------|------|------|------|--------------|
| | | KARN | R | LUDH | R | PANT | R | KANP | R | ZN 2 MEAN | R | OV'L MEAN | R | KARN | LUDH | PANT | KANP | ZN 2 MEAN |
| 16 | AH-97003 | 2803 | 14 | 5156 | 6 | 6220 | 15 | 7455 | 9 | 5408 | 9 | 5408 | 9 | - | - | - | - | - |
| 17 | AH-97002 | 2550 | 19 | 3714 | 15 | 6019 | 16 | 6649 | 20 | 4733 | 20 | 4733 | 20 | - | - | - | - | - |
| 18 | AH-97031 | 2504 | 21 | 4565 | 9 | 5933 | 17 | 7760 | 8 | 5191 | 11 | 5191 | 11 | - | - | - | - | - |
| 19 | AH-97033 | 3222 | 2 | 3640 | 16 | 5673 | 18 | 6659 | 19 | 4799 | 17 | 4799 | 17 | 5.8 | - | - | - | - |
| 20 | AH-97005 | 2877 | 12 | 2589 | 22 | 7153 | 9 | 5800 | 24 | 4605 | 22 | 4605 | 22 | - | - | - | - | - |
| 21 | AH-97007 | 2543 | 20 | 4758 | 7 | 6866 | 11 | 8540 | 3 | 5677 | 7 | 5677 | 7 | - | - | - | 2.5 | - |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 22 | VIVEK HYD.-2 | 3046 | 9 | 6915 | 1 | 8267 | 5 | 8329 | 5 | 6639 | 2 | 6639 | 2 | - | - | - | - | - |
| 23 | PEHM-3 | 3164 | 4 | 3105 | 19 | 7094 | 10 | 6850 | 17 | 5053 | 14 | 5053 | 14 | 3.9 | - | - | - | - |
| 24 | PEHM-2 | 2757 | 15 | 3482 | 17 | 6740 | 12 | 6904 | 16 | 4971 | 15 | 4971 | 15 | - | - | - | - | - |
| | Location Mean | 2839 | | 4267 | | 6911 | | 7329 | | 5336 | | 5336 | | | | | | |
| | Mean Stand | 31 | | 35 | | 33 | | 35 | | 34 | | 34 | | | | | | |
| | C.D. (5%) | 343 | | 1164 | | 1491 | | 602 | | 900 | | 900 | | | | | | |
| | C.V. (%) | 8.57 | | 19.33 | | 15.29 | | 4.99 | | - | | - | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | | | | | | | | | |
| | Plot Size | 6 | | 5.46 | | 6 | | 4.8 | | - | | - | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 24-07 | | 1-08 | | 14-07 | | - | | - | | | | | | |
| | Harvest Date | 28-09 | | 28-10 | | 19-11 | | 6-11 | | - | | - | | | | | | |
| | Irrigation Nos | 4 | | - | | - | | 2 | | - | | - | | | | | | |
| | Fertilizer Applied | 150 | | 80 | | 120 | | 80 | | - | | - | | | | | | |
| | Fertilizer Applied | 60 | | 40 | | 60 | | 40 | | - | | - | | | | | | |
| | Fertilizer Applied | 60 | | - | | 40 | | 40 | | - | | - | | | | | | |

Table No. 46(Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PEHM-3 | | | | | GRAIN YIELD % SUPERIORITY OVER THE PEHM-2 | | | | | DAYS TO 50% POLLEN SHED | | | | |
|-----------|--------------|--|-------|------|------|--------------|--|------|------|------|--------------|-------------------------|------|------|-------|--------------|
| | | KARN | LUDH | PANT | KANP | ZN 2 MEAN | KARN | LUDH | PANT | KANP | ZN 2 MEAN | KARN | LUDH | PANT | KANP | ZN 2 Mean |
| 1 | JH-31204 | - | 37.2 | 32 | 27.1 | 23.9 | - | 22.3 | 38.9 | 26.2 | 25.9 | 46.8 | 47.3 | 45.3 | 49.0 | 47.1 |
| 2 | JH-31307 | - | 101.6 | 11.7 | 8 | 19.6 | - | 79.8 | 17.6 | 7.2 | 21.6 | 45.0 | 47.0 | 48.0 | 35.0 | 43.8 |
| 3 | JH-31324 | - | 5.3 | 3.1 | - | 1 | 11.3 | - | 8.5 | - | 2.7 | 49.0 | 47.3 | 49.0 | 51.3 | 49.1 |
| 4 | JH-31329 | 1.5 | 116.8 | 31 | 13.3 | 33.6 | 16.5 | 93.4 | 37.9 | 12.4 | 35.8 | 46.8 | 47.0 | 50.0 | 54.0 | 49.4 |
| 5 | JH-31334 | - | 110.6 | 34.4 | - | 25.7 | 8.1 | 87.8 | 41.4 | - | 27.8 | 48.5 | 48.5 | 50.3 | 52.3 | 49.9 |
| 6 | JH-31342 | 3 | 48.9 | 1.8 | 8.8 | 11.6 | 18.2 | 32.8 | 7.1 | 8 | 13.5 | 45.3 | 49.3 | 49.3 | 52.0 | 48.9 |
| 7 | JH-31353 | - | 101.1 | 45.1 | - | 25.4 | 2.5 | 79.3 | 52.8 | - | 27.5 | 46.0 | 46.0 | 49.5 | 53.7 | 48.8 |
| 8 | DH-167 | - | - | - | 24.7 | 3.7 | 6.1 | - | - | 23.7 | 5.4 | 42.8 | 48.0 | 46.8 | 48.7 | 46.5 |
| 9 | DH-169 | - | - | - | 6.6 | - | 13.1 | - | - | 5.8 | - | 42.0 | 47.5 | 45.8 | 51.0 | 46.6 |
| 10 | DH-175 | - | 26 | - | 5.9 | 1.5 | 12.1 | 12.4 | - | 5 | 3.2 | 44.0 | 48.0 | 49.8 | 52.7 | 48.6 |
| 11 | DH-181 | - | - | - | 20.1 | - | - | - | - | 19.2 | - | 42.0 | 48.5 | 42.5 | 35.7 | 42.2 |
| 12 | DH-183 | - | - | - | 21.7 | - | 11 | - | - | 20.8 | - | 42.5 | 49.0 | 47.3 | 35.0 | 43.4 |
| 13 | DH-185 | - | 34.6 | - | 6.1 | - | - | 20.1 | - | 5.3 | - | 42.8 | 48.3 | 46.3 | 52.0 | 47.3 |
| 14 | DH-P.S.M-1 | - | 21.2 | - | 2 | - | - | 8.1 | - | 1.3 | - | 43.0 | 47.8 | 47.3 | 35.7 | 43.4 |
| 15 | AH-97004 | - | 45.9 | - | - | - | - | 30.1 | - | - | - | 46.8 | 47.8 | 50.0 | 53.0 | 49.4 |
| 16 | AH-97003 | - | 66 | - | 8.8 | 7 | 1.7 | 48.1 | - | 8 | 8.8 | 47.0 | 48.8 | 50.0 | 51.7 | 49.4 |
| 17 | AH-97002 | - | 19.6 | - | - | - | - | 6.7 | - | - | - | 47.3 | 48.0 | 51.5 | 54.0 | 50.2 |
| 18 | AH-97031 | - | 47 | - | 13.3 | 2.7 | - | 31.1 | - | 12.4 | 4.4 | 47.8 | 48.8 | 51.3 | 55.3 | 50.8 |
| 19 | AH-97033 | 1.8 | 17.2 | - | - | - | 16.9 | 4.6 | - | - | - | 49.0 | 48.0 | 50.8 | 35.7 | 45.9 |
| 20 | AH-97005 | - | - | 0.8 | - | - | 4.3 | - | 6.1 | - | - | 46.3 | 45.8 | 50.5 | 51.0 | 48.4 |
| 21 | AH-97007 | - | 53.2 | - | 24.7 | 12.3 | - | 36.7 | 1.9 | 23.7 | 14.2 | 45.0 | 48.8 | 51.8 | 50.0 | 48.9 |
| CHECKS | | | | | | | | | | | | | | | | |
| 22 | VIVEK HYD.-2 | - | 122.7 | 16.5 | 21.6 | 31.4 | 10.5 | 98.6 | 22.6 | 20.6 | 33.6 | 41.8 | 47.5 | 47.0 | 53.7 | 47.5 |
| 23 | PEHM-3 | - | - | - | - | - | 14.8 | - | 5.2 | - | 1.7 | 43.8 | 49.0 | 48.5 | 53.0 | 48.6 |
| 24 | PEHM-2 | - | 12.1 | - | 0.8 | - | - | - | - | - | - | 46.0 | 47.5 | 50.3 | 35.7 | 44.9 |
| Loc. Mean | | | | | | | | | | | | 45.3 | 47.9 | 48.7 | 48.0 | 47.4 |
| C.D. (5%) | | | | | | | | | | | | 2.34 | 0.94 | 3.34 | 19.13 | 5.47 |
| C.V. (%) | | | | | | | | | | | | 3.66 | 1.40 | 4.86 | 24.27 | 8.17 |
| F (Prob.) | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.25 | 0.09 |

Table No. 46(Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | MOISTURE % AT HARVEST | | | | | |
|----------|--------------|---------------------|------|------|------|-------|--------------|----------------------|------|------|--------------|-----------------------|------|------|------|------|--------------|
| | | DELH | KARN | LUDH | PANT | KANP | ZN 2 Mean | KARN | LUDH | KANP | ZN 2 Mean | DELH | KARN | LUDH | PANT | KANP | ZN 2 Mean |
| 1 | JH-31204 | 54.3 | 48.8 | 48.3 | 48.5 | 54.3 | 50.8 | 77.3 | 78.0 | 83.3 | 79.5 | 26.9 | 25.0 | 26.7 | 30.2 | 15.0 | 24.8 |
| 2 | JH-31307 | 55.7 | 47.0 | 48.0 | 50.3 | 55.0 | 51.2 | 78.0 | 77.5 | 83.7 | 79.7 | 15.5 | 24.5 | 29.0 | 29.8 | 15.0 | 22.8 |
| 3 | JH-31324 | 58.3 | 51.3 | 48.3 | 51.5 | 56.3 | 53.1 | 81.8 | 77.3 | 84.3 | 81.1 | 29.9 | 28.0 | 24.3 | 30.8 | 15.0 | 25.6 |
| 4 | JH-31329 | 55.7 | 48.8 | 48.0 | 52.5 | 59.0 | 52.8 | 77.3 | 78.0 | 84.7 | 80.0 | 22.4 | 27.5 | 27.5 | 29.0 | 15.0 | 24.3 |
| 5 | JH-31334 | 57.0 | 50.5 | 49.5 | 54.3 | 57.3 | 53.7 | 82.5 | 78.3 | 84.7 | 81.8 | 29.8 | 29.0 | 30.7 | 30.1 | 15.0 | 26.9 |
| 6 | JH-31342 | 52.0 | 47.5 | 50.3 | 52.3 | 57.0 | 51.8 | 78.5 | 79.3 | 84.3 | 80.7 | 27.8 | 27.5 | 31.0 | 30.1 | 15.0 | 26.3 |
| 7 | JH-31353 | 52.0 | 48.0 | 47.0 | 51.8 | 40.7 | 47.9 | 82.0 | 77.0 | 84.0 | 81.0 | 17.8 | 25.5 | 28.9 | 28.8 | 15.0 | 23.2 |
| 8 | DH-167 | 53.7 | 44.8 | 49.0 | 49.0 | 54.0 | 50.1 | 76.8 | 78.0 | 83.3 | 79.4 | 17.9 | 24.3 | 22.8 | 28.4 | 15.0 | 21.7 |
| 9 | DH-169 | 55.7 | 44.5 | 48.5 | 48.0 | 56.3 | 50.6 | 73.8 | 77.5 | 84.7 | 78.6 | 21.3 | 23.7 | 24.4 | 28.7 | 15.0 | 22.6 |
| 10 | DH-175 | 51.3 | 46.0 | 49.0 | 50.8 | 57.7 | 51.0 | 82.0 | 78.0 | 84.3 | 81.4 | 19.0 | 24.9 | 29.3 | 33.9 | 15.0 | 24.4 |
| 11 | DH-181 | 52.0 | 44.0 | 49.5 | 45.8 | 56.0 | 49.5 | 74.3 | 78.5 | 84.3 | 79.0 | 16.6 | 25.0 | 17.1 | 23.2 | 15.0 | 19.4 |
| 12 | DH-183 | 55.0 | 44.8 | 50.0 | 49.3 | 55.3 | 50.9 | 77.3 | 78.5 | 84.3 | 80.0 | 25.5 | 24.0 | 23.4 | 28.6 | 15.0 | 23.3 |
| 13 | DH-185 | 52.0 | 45.0 | 49.3 | 48.3 | 57.0 | 50.3 | 76.3 | 78.3 | 84.0 | 79.5 | 15.2 | 26.3 | 25.2 | 27.7 | 15.0 | 21.9 |
| 14 | DH-P.S.M-1 | 51.0 | 45.0 | 48.8 | 49.5 | 55.7 | 50.0 | 76.3 | 78.3 | 84.0 | 79.5 | 19.7 | 24.6 | 24.9 | 29.7 | 15.0 | 22.8 |
| 15 | AH-97004 | 50.0 | 48.8 | 48.8 | 52.3 | 58.3 | 51.6 | 78.3 | 78.0 | 84.3 | 80.2 | 24.2 | 26.0 | 29.2 | 37.4 | 15.0 | 26.4 |
| 16 | AH-97003 | 54.0 | 49.0 | 49.8 | 52.8 | 55.0 | 52.1 | 82.5 | 78.5 | 84.7 | 81.9 | 20.3 | 25.5 | 27.8 | 29.5 | 15.0 | 23.6 |
| 17 | AH-97002 | 53.3 | 49.3 | 49.0 | 53.5 | 41.0 | 49.2 | 81.8 | 78.5 | 84.0 | 81.4 | 15.7 | 25.3 | 32.2 | 33.9 | 15.0 | 24.4 |
| 18 | AH-97031 | 55.0 | 49.8 | 49.8 | 55.3 | 60.7 | 54.1 | 83.8 | 78.8 | 84.0 | 82.2 | 23.1 | 24.8 | 33.0 | 34.0 | 15.0 | 26.0 |
| 19 | AH-97033 | 55.0 | 51.0 | 49.0 | 53.8 | 56.3 | 53.0 | 82.3 | 77.8 | 84.7 | 81.6 | 20.0 | 23.0 | 28.4 | 32.3 | 15.0 | 23.7 |
| 20 | AH-97005 | 56.0 | 48.5 | 46.8 | 52.5 | 56.0 | 52.0 | 78.8 | 77.0 | 83.3 | 79.7 | 22.7 | 24.0 | 26.7 | 26.4 | 15.0 | 23.0 |
| 21 | AH-97007 | 55.7 | 47.0 | 49.8 | 54.3 | 55.3 | 52.4 | 78.8 | 78.5 | 84.0 | 80.4 | 33.2 | 25.8 | 26.4 | 28.5 | 15.0 | 25.8 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 22 | VIVEK HYD.-2 | 52.7 | 43.8 | 48.5 | 49.5 | 40.7 | 47.0 | 74.8 | 77.8 | 85.0 | 79.2 | 30.1 | 24.7 | 28.0 | 29.0 | 15.0 | 25.4 |
| 23 | PEHM-3 | 52.7 | 46.0 | 50.0 | 49.8 | 58.7 | 51.4 | 75.5 | 78.8 | 84.7 | 79.6 | 20.4 | 25.3 | 30.1 | 28.6 | 15.0 | 23.9 |
| 24 | PEHM-2 | 55.7 | 48.0 | 48.5 | 52.5 | 55.7 | 52.1 | 77.0 | 78.0 | 84.3 | 79.8 | 23.1 | 25.7 | 28.1 | 30.4 | 15.0 | 24.5 |
| | Loc. Mean | 54.0 | 47.4 | 48.9 | 51.1 | 54.6 | 51.2 | 78.6 | 78.1 | 84.2 | 80.3 | 22.4 | 25.4 | 27.3 | 29.9 | 15.0 | 24.0 |
| | C.D. (5%) | 8.14 | 2.30 | 0.94 | 3.02 | 16.98 | 3.55 | 2.07 | 1.20 | 1.55 | 2.91 | 5.47 | - | 1.39 | 1.99 | - | 3.61 |
| | C.V. (%) | 9.17 | 3.44 | 1.37 | 4.18 | 18.94 | 5.52 | 1.87 | 1.09 | 1.12 | 2.20 | 14.85 | - | 3.62 | 4.72 | - | 11.97 |
| | F (Prob.) | 0.95 | 0.00 | 0.00 | 0.00 | 0.64 | 0.02 | 0.00 | 0.04 | 0.81 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.02 |

Table No. 46(Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | | | ZN 2 Mean | EAR HEIGHT (cm) | | | | | ZN 2 Mean |
|--------|--------------|-------------------|------|------|------|------|--------------|-----------------|------|------|------|------|--------------|
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | |
| 1 | JH-31204 | 215 | 159 | 168 | 224 | 175 | 188 | 103 | 70 | 84 | 96 | 81 | 87 |
| 2 | JH-31307 | 235 | 166 | 169 | 216 | 182 | 193 | 110 | 76 | 79 | 84 | 80 | 86 |
| 3 | JH-31324 | 230 | 140 | 151 | 219 | 174 | 183 | 118 | 65 | 61 | 85 | 83 | 83 |
| 4 | JH-31329 | 217 | 153 | 173 | 219 | 182 | 188 | 108 | 65 | 83 | 96 | 75 | 85 |
| 5 | JH-31334 | 222 | 165 | 208 | 249 | 185 | 205 | 110 | 76 | 103 | 104 | 80 | 95 |
| 6 | JH-31342 | 202 | 146 | 160 | 206 | 175 | 178 | 97 | 70 | 88 | 88 | 50 | 78 |
| 7 | JH-31353 | 195 | 125 | 146 | 187 | 188 | 168 | 78 | 58 | 74 | 75 | 56 | 68 |
| 8 | DH-167 | 182 | 126 | 153 | 199 | 175 | 167 | 73 | 64 | 75 | 70 | 75 | 71 |
| 9 | DH-169 | 193 | 126 | 130 | 173 | 190 | 163 | 90 | 52 | 56 | 69 | 81 | 70 |
| 10 | DH-175 | 218 | 145 | 170 | 197 | 183 | 183 | 98 | 69 | 73 | 72 | 56 | 73 |
| 11 | DH-181 | 190 | 141 | 130 | 193 | 190 | 169 | 98 | 68 | 56 | 69 | 74 | 73 |
| 12 | DH-183 | 215 | 145 | 145 | 196 | 180 | 176 | 108 | 73 | 54 | 73 | 75 | 76 |
| 13 | DH-185 | 213 | 149 | 158 | 195 | 178 | 178 | 95 | 65 | 74 | 71 | 75 | 76 |
| 14 | DH-P.S.M-1 | 203 | 121 | 168 | 201 | 180 | 175 | 100 | 58 | 71 | 74 | 75 | 76 |
| 15 | AH-97004 | 187 | 155 | 175 | 200 | 185 | 180 | 78 | 85 | 81 | 82 | 76 | 81 |
| 16 | AH-97003 | 200 | 158 | 178 | 227 | 186 | 190 | 90 | 83 | 84 | 100 | 81 | 88 |
| 17 | AH-97002 | 192 | 172 | 168 | 222 | 186 | 188 | 90 | 94 | 86 | 94 | 56 | 84 |
| 18 | AH-97031 | 213 | 143 | 161 | 224 | 175 | 183 | 107 | 78 | 86 | 98 | 72 | 88 |
| 19 | AH-97033 | 215 | 163 | 159 | 214 | 178 | 186 | 112 | 91 | 70 | 89 | 74 | 87 |
| 20 | AH-97005 | 223 | 152 | 151 | 212 | 180 | 184 | 102 | 72 | 79 | 80 | 74 | 81 |
| 21 | AH-97007 | 208 | 150 | 165 | 218 | 190 | 186 | 95 | 74 | 80 | 84 | 32 | 73 |
| CHECKS | | | | | | | | | | | | | |
| 22 | VIVEK HYD.-2 | 218 | 146 | 164 | 206 | 184 | 184 | 112 | 65 | 66 | 70 | 80 | 79 |
| 23 | PEHM-3 | 212 | 150 | 154 | 195 | 188 | 180 | 90 | 62 | 76 | 81 | 78 | 78 |
| 24 | PEHM-2 | 230 | 151 | 166 | 230 | 190 | 193 | 110 | 74 | 91 | 90 | 82 | 89 |
| | Loc. Mean | 210 | 148 | 161 | 209 | 182 | 182 | 99 | 71 | 76 | 83 | 72 | 80 |
| | C.D. (5%) | 34.3 | 15.4 | 21.0 | 17.5 | 3.3 | 13.8 | 27 | 13 | 16 | 10 | 30 | 13 |
| | C.V. (%) | 10.0 | 7.4 | 9.3 | 5.9 | 1.1 | 6.0 | 17 | 13 | 15 | 9 | 25 | 13 |
| | F (Prob.) | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table No. 46(Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | ZN 2 Mean | STAND AT HARVEST ('000/ha) | | | | ZN 2 Mean |
|----------|--------------|------------------|------|------|------|--------------|----------------------------|------|------|------|--------------|
| | | KARN | LUDH | PANT | KANP | | KARN | LUDH | PANT | KANP | |
| 1 | JH-31204 | 82.3 | 84.9 | 85.2 | 76.0 | 82.1 | 55 | 65 | 58 | 75 | 63 |
| 2 | JH-31307 | 83.9 | 85.7 | 87.2 | 74.5 | 82.8 | 51 | 63 | 59 | 74 | 61 |
| 3 | JH-31324 | 82.9 | 82.7 | 86.7 | 72.0 | 81.1 | 58 | 66 | 54 | 70 | 62 |
| 4 | JH-31329 | 78.2 | 88.7 | 86.7 | 74.5 | 82.0 | 56 | 68 | 57 | 74 | 64 |
| 5 | JH-31334 | 85.5 | 84.0 | 80.8 | 72.0 | 80.6 | 56 | 64 | 58 | 70 | 62 |
| 6 | JH-31342 | 76.6 | 83.6 | 80.0 | 73.5 | 78.4 | 54 | 67 | 59 | 73 | 63 |
| 7 | JH-31353 | 83.6 | 85.0 | 87.5 | 71.0 | 81.8 | 53 | 66 | 55 | 69 | 61 |
| 8 | DH-167 | 83.6 | 80.0 | 85.0 | 75.0 | 80.9 | 49 | 60 | 57 | 75 | 60 |
| 9 | DH-169 | 81.0 | 80.9 | 85.9 | 73.5 | 80.3 | 50 | 68 | 60 | 73 | 63 |
| 10 | DH-175 | 79.3 | 85.4 | 87.3 | 73.0 | 81.2 | 50 | 64 | 53 | 72 | 60 |
| 11 | DH-181 | 80.0 | 73.9 | 85.9 | 74.5 | 78.6 | 55 | 64 | 60 | 73 | 63 |
| 12 | DH-183 | 77.7 | 77.5 | 80.8 | 75.5 | 77.9 | 51 | 62 | 57 | 73 | 61 |
| 13 | DH-185 | 68.1 | 80.5 | 83.3 | 72.5 | 76.1 | 53 | 64 | 60 | 108 | 71 |
| 14 | DH-P.S.M-1 | 76.9 | 80.0 | 85.2 | 74.5 | 79.1 | 51 | 59 | 58 | 72 | 60 |
| 15 | AH-97004 | 78.9 | 78.3 | 78.4 | 72.0 | 76.9 | 49 | 63 | 58 | 72 | 61 |
| 16 | AH-97003 | 83.3 | 82.3 | 86.1 | 73.5 | 81.3 | 50 | 59 | 48 | 73 | 58 |
| 17 | AH-97002 | 83.3 | 81.7 | 80.8 | 72.5 | 79.6 | 51 | 66 | 49 | 73 | 60 |
| 18 | AH-97031 | 82.0 | 82.3 | 80.8 | 74.5 | 79.9 | 50 | 61 | 48 | 74 | 58 |
| 19 | AH-97033 | 86.8 | 84.5 | 87.5 | 72.5 | 82.8 | 53 | 60 | 53 | 69 | 59 |
| 20 | AH-97005 | 80.4 | 71.4 | 85.0 | 70.0 | 76.7 | 48 | 64 | 59 | 67 | 60 |
| 21 | AH-97007 | 81.4 | 85.1 | 86.0 | 75.0 | 81.9 | 52 | 62 | 46 | 75 | 59 |
| CHECKS | | | | | | | | | | | |
| 22 | VIVEK HYD.-2 | 81.9 | 85.4 | 87.7 | 74.5 | 82.4 | 55 | 65 | 58 | 74 | 63 |
| 23 | PEHM-3 | 78.9 | 82.8 | 87.2 | 73.0 | 80.5 | 53 | 66 | 57 | 72 | 62 |
| 24 | PEHM-2 | 80.0 | 80.0 | 80.0 | 72.5 | 78.1 | 49 | 61 | 57 | 72 | 60 |
| | Loc. Mean | 80.7 | 81.9 | 84.4 | 73.4 | 80.1 | 52 | 64 | 56 | 74 | 61 |
| | C.D. (5%) | - | 1.74 | 0.00 | 1.19 | 4.04 | 5.8 | 6.9 | 6.5 | 20.2 | 6.2 |
| | C.V. (%) | - | 1.51 | 0.00 | 0.99 | 3.58 | 7.9 | 7.6 | 8.2 | 16.7 | 7.1 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.1 | 0.2 | 0.0 | 0.4 | 0.1 |

TABLE No.47

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT DELHI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR IN ZONAL TRIAL No. TR204 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PE E M-5 | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|-----------|----|---|------|------|------|-----------|
| | | KARN | R | LUDH | R | PANT | R | KANP | R | ZN 2 MEAN | R | KARN | LUDH | PANT | KANP | ZN 2 MEAN |
| 1 | JH-12158 | 3736 | 10 | 6899 | 2 | 7157 | 3 | 6949 | 5 | 6185 | 4 | - | 27.9 | 23.7 | 17.9 | 14.1 |
| 2 | JH-21157 | 4287 | 7 | 6448 | 3 | 8616 | 2 | 7781 | 1 | 6783 | 3 | - | 19.6 | 48.9 | 32 | 25.2 |
| 3 | AH-97029 | 4002 | 9 | 5500 | 6 | 5144 | 8 | 5479 | 9 | 5031 | 9 | - | 2 | - | - | - |
| 4 | AH-97010 | 4784 | 4 | 5517 | 5 | 4942 | 10 | 7013 | 4 | 5564 | 4 | 3.9 | 2.3 | - | 19 | 2.7 |
| 5 | AH-97023 | 5265 | 2 | 5280 | 8 | 5889 | 5 | 5565 | 8 | 5500 | 6 | 14.4 | - | 1.8 | - | 1.5 |
| 6 | AH-97021 | 4276 | 8 | 4858 | 9 | 5109 | 9 | 5023 | 10 | 4816 | 10 | - | - | - | - | - |
| 7 | AH-97009 | 4458 | 6 | 4716 | 10 | 5155 | 7 | 6482 | 6 | 5203 | 8 | - | - | - | 10 | - |
| CHECKS | | | | | | | | | | | | | | | | |
| 8 | PE E M-5 | 4602 | 5 | 5394 | 7 | 5787 | 6 | 5893 | 7 | 5419 | 7 | - | - | - | - | - |
| 9 | VIVEK HYD.-2 | 5805 | 1 | 8180 | 1 | 6176 | 4 | 7519 | 2 | 6920 | 1 | 26.2 | 51.7 | 6.7 | 27.6 | 27.7 |
| 10 | MAKKA-2 | 4936 | 3 | 5722 | 4 | 9410 | 1 | 7163 | 3 | 6808 | 2 | 7.3 | 6.1 | 62.6 | 21.5 | 25.6 |
| | Location Mean | 4615 | | 5851 | | 6339 | | 6487 | | 5823 | | | | | | |
| | Mean Stand | 32 | | 34 | | 28 | | 35 | | 32 | | | | | | |
| | C.D. (5%) | 886 | | 1157 | | 2517 | | 569 | | 1282 | | | | | | |
| | C.V. (%) | 13.21 | | 13.61 | | 27.32 | | 5.1 | | - | | | | | | |
| | F (Prob) | 0.002 | | 0 | | 0 | | 0 | | - | | | | | | |
| | Plot Size | 6 | | 5.46 | | 6 | | 4.8 | | - | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 24-07 | | 1-08 | | 14-07 | | - | | | | | | |
| | Harvest Date | 25-09 | | 28-10 | | 19-11 | | 6-11 | | - | | | | | | |
| | Irrigation Nos | 3 | | - | | - | | 2 | | - | | | | | | |
| | Fertilizer Applied N | 150 | | 80 | | 120 | | 80 | | - | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 60 | | 40 | | - | | | | | | |
| | Fertilizer Applied K | 60 | | - | | 40 | | 40 | | - | | | | | | |

Table No. 47(Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYD.-2 | | | | | GRAIN YIELD % SUPERIORITY OVER THE MAKKA-2 | | | | | | | | |
|----------|--------------|---|------|------|------|--------------|--|------|------|------|--------------|---|---|---|---|
| | | KARN | LUDH | PANT | KANP | ZN 2 MEAN | KARN | LUDH | PANT | KANP | ZN 2 MEAN | | | | |
| 1 | JH-12158 | - | - | 15.9 | - | - | - | 20.6 | - | - | - | - | - | - | - |
| 2 | JH-21157 | - | - | 39.5 | 3.5 | - | - | 12.7 | - | 8.6 | - | - | - | - | |
| 3 | AH-97029 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4 | AH-97010 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5 | AH-97023 | - | - | - | - | - | 6.7 | - | - | - | - | - | - | - | |
| 6 | AH-97021 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 7 | AH-97009 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | CHECKS | | | | | | | | | | | | | | |
| 8 | PE E M-5 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9 | VIVEK HYD.-2 | - | - | - | - | - | 17.6 | 43 | - | 5 | 1.7 | - | - | - | |
| 10 | MAKKA-2 | - | - | 52.4 | - | - | - | - | - | - | - | - | - | - | |

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | |
|----------|--------------|-------------------------|------|------|------|--------------|---------------------|------|------|------|------|----------------------|------|------|------|--------------|
| | | KARN | LUDH | PANT | KANP | ZN 2 Mean | DELH | KARN | LUDH | PANT | KANP | ZN 2 Mean | KARN | LUDH | KANP | ZN 2 Mean |
| 1 | JH-12158 | 49.3 | 46.3 | 52.5 | 50.7 | 49.7 | 55.0 | 51.3 | 47.3 | 56.3 | 56.0 | 53.2 | 77.3 | 77.0 | 75.3 | 76.5 |
| 2 | JH-21157 | 49.5 | 46.5 | 53.8 | 52.3 | 50.5 | 58.7 | 51.5 | 47.5 | 54.8 | 57.3 | 54.0 | 77.8 | 77.5 | 76.0 | 77.1 |
| 3 | AH-97029 | 49.8 | 44.5 | 52.3 | 51.3 | 49.5 | 55.7 | 51.8 | 45.5 | 56.0 | 56.3 | 53.1 | 81.8 | 75.8 | 75.3 | 77.6 |
| 4 | AH-97010 | 50.0 | 44.5 | 50.8 | 48.7 | 48.5 | 52.3 | 52.0 | 45.5 | 53.0 | 55.0 | 51.6 | 82.5 | 76.0 | 75.0 | 77.8 |
| 5 | AH-97023 | 48.3 | 45.0 | 50.8 | 49.7 | 48.4 | 51.7 | 50.3 | 46.0 | 53.0 | 55.3 | 51.3 | 78.5 | 76.5 | 75.3 | 76.8 |
| 6 | AH-97021 | 48.8 | 45.3 | 50.8 | 51.5 | 49.1 | 52.3 | 50.8 | 46.3 | 53.5 | 56.5 | 51.9 | 79.0 | 76.0 | 76.5 | 77.2 |
| 7 | AH-97009 | 48.8 | 44.5 | 50.8 | 49.7 | 48.4 | 51.7 | 50.8 | 45.5 | 53.3 | 55.3 | 51.3 | 82.8 | 76.0 | 75.7 | 78.1 |
| | CHECKS | | | | | | | | | | | | | | | |
| 8 | PE E M-5 | 49.8 | 44.5 | 50.8 | 54.3 | 49.8 | 50.0 | 51.8 | 45.5 | 53.0 | 59.7 | 52.0 | 53.8 | 76.0 | 78.3 | 69.4 |
| 9 | VIVEK HYD.-2 | 45.0 | 44.8 | 48.8 | 51.3 | 47.5 | 45.7 | 47.0 | 45.8 | 50.8 | 56.3 | 49.1 | 79.5 | 75.8 | 76.3 | 77.2 |
| 10 | MAKKA-2 | 48.5 | 44.8 | 50.0 | 54.3 | 49.4 | 50.7 | 50.5 | 45.8 | 52.0 | 59.3 | 51.7 | 81.3 | 75.8 | 78.0 | 78.3 |
| | Loc. Mean | 48.8 | 45.1 | 51.1 | 51.4 | 49.1 | 52.4 | 50.8 | 46.1 | 53.6 | 56.7 | 51.9 | 77.4 | 76.2 | 76.2 | 76.6 |
| | C.D. (5%) | 1.69 | 0.95 | 2.03 | 0.62 | 1.87 | 2.94 | 1.69 | 0.95 | 2.94 | 0.71 | 2.20 | 1.80 | 0.76 | 0.84 | 8.93 |
| | C.V. (%) | 2.39 | 1.45 | 2.73 | 0.71 | 2.63 | 3.27 | 2.29 | 1.42 | 3.78 | 0.73 | 3.30 | 1.61 | 0.69 | 0.64 | 6.79 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.66 |

Table No. 47(Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | | ZN 2 Mean | PLANT HEIGHT (cm) | | | | | ZN 2 Mean | EAR HEIGHT (cm) | | |
|----------|--------------|-----------------------|------|------|------|------|--------------|-------------------|------|------|------|------|--------------|-----------------|------|------|
| | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH | PANT | KANP | | DELH | KARN | LUDH |
| 1 | JH-12158 | 36.5 | 31.1 | 40.8 | 27.1 | 15.0 | 30.1 | 232 | 195 | 171 | 224 | 206 | 205 | 105 | 104 | 90 |
| 2 | JH-21157 | 29.1 | 29.4 | 44.1 | 35.4 | 15.0 | 30.6 | 250 | 220 | 210 | 270 | 113 | 213 | 117 | 116 | 100 |
| 3 | AH-97029 | 30.2 | 24.3 | 33.8 | 31.9 | 15.0 | 27.0 | 227 | 183 | 176 | 236 | 175 | 199 | 118 | 116 | 104 |
| 4 | AH-97010 | 31.4 | 22.4 | 29.4 | 24.0 | 15.0 | 24.4 | 228 | 171 | 170 | 219 | 160 | 190 | 112 | 96 | 80 |
| 5 | AH-97023 | 27.2 | 23.0 | 29.3 | 22.9 | 15.0 | 23.5 | 213 | 158 | 174 | 212 | 166 | 185 | 103 | 84 | 95 |
| 6 | AH-97021 | 24.2 | 22.8 | 33.9 | 26.8 | 15.0 | 24.5 | 213 | 183 | 176 | 204 | 161 | 187 | 113 | 98 | 93 |
| 7 | AH-97009 | 27.7 | 22.6 | 30.2 | 25.5 | 15.0 | 24.2 | 217 | 188 | 168 | 213 | 165 | 190 | 107 | 108 | 74 |
| | CHECKS | | | | | | | | | | | | | | | |
| 8 | PE E M-5 | 27.3 | 23.7 | 31.8 | 31.7 | 15.0 | 25.9 | 225 | 186 | 178 | 203 | 172 | 193 | 103 | 101 | 89 |
| 9 | VIVEK HYD.-2 | 22.6 | 21.7 | 30.2 | 27.3 | 15.0 | 23.4 | 217 | 169 | 166 | 205 | 168 | 185 | 93 | 85 | 71 |
| 10 | MAKKA-2 | 29.4 | 22.5 | 31.1 | 26.8 | 15.0 | 24.9 | 222 | 180 | 169 | 209 | 170 | 190 | 93 | 91 | 85 |
| | Loc. Mean | 28.6 | 24.4 | 33.4 | 27.9 | 15.0 | 25.9 | 224 | 183 | 176 | 220 | 166 | 194 | 107 | 100 | 88 |
| | C.D. (5%) | 6.38 | - | 1.62 | 3.35 | - | 3.63 | 16.2 | 9.8 | 16.4 | 21.8 | 0.6 | 21.0 | 18.9 | 8.0 | 18.3 |
| | C.V. (%) | 13.02 | - | 3.34 | 8.27 | - | 10.94 | 4.2 | 3.7 | 6.4 | 6.9 | 0.2 | 8.5 | 10.4 | 5.5 | 14.3 |
| | F (Prob.) | 0.02 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.12 | 0.00 | 0.02 |

| Sl No | PEDIGREE | EAR HEIGHT (cm) | | | GRAIN SHELLING % | | | | ZN 2 Mean | STAND AT HARVEST ('000/ha) | | | | ZN 2 Mean |
|----------|--------------|-----------------|------|--------------|------------------|------|------|------|--------------|----------------------------|------|------|------|--------------|
| | | PANT | KANP | ZN 2 Mean | KARN | LUDH | PANT | KANP | | KARN | LUDH | PANT | KANP | |
| 1 | JH-12158 | 93 | 75 | 93 | 73.6 | 82.6 | 82.9 | 73.0 | 78.0 | 56 | 64 | 53 | 76 | 62 |
| 2 | JH-21157 | 120 | 70 | 105 | 74.3 | 82.5 | 82.1 | 75.0 | 78.5 | 56 | 58 | 55 | 79 | 62 |
| 3 | AH-97029 | 101 | 59 | 100 | 79.4 | 84.6 | 81.5 | 72.0 | 79.4 | 50 | 60 | 49 | 71 | 58 |
| 4 | AH-97010 | 88 | 65 | 88 | 80.7 | 84.3 | 85.2 | 74.0 | 81.0 | 52 | 63 | 32 | 75 | 55 |
| 5 | AH-97023 | 80 | 60 | 85 | 88.2 | 82.2 | 82.0 | 72.0 | 81.1 | 56 | 59 | 44 | 69 | 57 |
| 6 | AH-97021 | 80 | 56 | 88 | 76.5 | 85.0 | 83.3 | 71.0 | 78.9 | 52 | 60 | 28 | 67 | 52 |
| 7 | AH-97009 | 80 | 55 | 85 | 87.2 | 84.3 | 82.1 | 74.0 | 81.9 | 52 | 63 | 56 | 74 | 61 |
| | CHECKS | | | | | | | | | | | | | |
| 8 | PE E M-5 | 86 | 61 | 88 | 73.9 | 83.4 | 87.5 | 72.0 | 79.2 | 56 | 66 | 51 | 72 | 61 |
| 9 | VIVEK HYD.-2 | 75 | 59 | 77 | 82.7 | 87.3 | 81.3 | 75.0 | 81.6 | 55 | 63 | 43 | 79 | 60 |
| 10 | MAKKA-2 | 89 | 56 | 83 | 84.7 | 83.1 | 84.1 | 74.0 | 81.5 | 55 | 67 | 54 | 77 | 63 |
| | Loc. Mean | 89 | 62 | 89 | 80.1 | 83.9 | 83.2 | 73.2 | 80.1 | 54 | 62 | 46 | 74 | 59 |
| | C.D. (5%) | 14.2 | 1.0 | 9.1 | - | 0.70 | 0.00 | 0.97 | 4.58 | 5.2 | 5.8 | 10.3 | 2.9 | 7.2 |
| | C.V. (%) | 11.0 | 1.0 | 8.0 | - | 0.57 | 0.00 | 0.78 | 3.94 | 6.7 | 6.5 | 15.3 | 2.3 | 8.4 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 |

TABLE No. 48

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT VARANASI, DHOLI, RANCHI, IN ZONAL TRIAL No. TR301 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Shaktiman-4 | | | | GRAIN YIELD % SUPERIORITY OVER THE Ganga-2 | | | | | |
|----------|-------------|-------------------------------------|----|------|----|------|----|---|----|------|------|---|--------------|------|------|------|--------------|
| | | DHOL | R | VARA | R | RANC | R | ZN 3 MEAN | R | DHOL | VARA | RANC | ZN 3 MEAN | DHOL | VARA | RANC | ZN 3 MEAN |
| 1 | MMH-08-5 | 3254 | 15 | 5373 | 26 | 4516 | 25 | 4381 | 27 | - | - | - | - | 30.9 | 1.3 | - | 6.3 |
| 2 | MMH-08-6 | 3075 | 23 | 7308 | 6 | 6453 | 4 | 5612 | 5 | - | 6.6 | 5.3 | 1.7 | 23.7 | 37.8 | 40.9 | 36.1 |
| 3 | MMH-08-7 | 4193 | 1 | 7611 | 5 | 7295 | 1 | 6366 | 1 | 17.3 | 11 | 19.1 | 15.3 | 68.7 | 43.5 | 59.3 | 54.4 |
| 4 | MMH-08-8 | 4028 | 3 | 5688 | 22 | 5530 | 15 | 5082 | 16 | 12.7 | - | - | - | 62 | 7.2 | 20.8 | 23.3 |
| 5 | MMH-08-9 | 3107 | 20 | 4821 | 29 | 4676 | 22 | 4201 | 28 | - | - | - | - | 25 | - | 2.1 | 1.9 |
| 6 | MMH-08-10 | 4032 | 2 | 6950 | 14 | 6533 | 2 | 5838 | 4 | 12.8 | 1.3 | 6.6 | 5.8 | 62.2 | 31 | 42.7 | 41.6 |
| 7 | MMH-08-11 | 2755 | 27 | 5530 | 24 | 5271 | 17 | 4519 | 26 | - | - | - | - | 10.9 | 4.3 | 15.1 | 9.6 |
| 8 | MMH-08-12 | 2978 | 24 | 6887 | 15 | 5751 | 12 | 5205 | 13 | - | 0.4 | - | - | 19.8 | 29.8 | 25.6 | 26.2 |
| 9 | MMH-08-13 | 3459 | 12 | 5672 | 23 | 6107 | 8 | 5079 | 17 | - | - | - | - | 39.1 | 6.9 | 33.3 | 23.2 |
| 10 | MMH-08-14 | 3208 | 18 | 5204 | 28 | 5534 | 14 | 4649 | 25 | - | - | - | - | 29 | - | 20.8 | 12.7 |
| 11 | MMH-08-15 | 3312 | 14 | 7287 | 7 | 4494 | 27 | 5031 | 18 | - | 6.2 | - | - | 33.2 | 37.4 | - | 22 |
| 12 | MMH-08-16 | 3825 | 4 | 6010 | 20 | 6152 | 6 | 5329 | 10 | 7 | - | 0.4 | - | 53.9 | 13.3 | 34.3 | 29.2 |
| 13 | MMH-08-17 | 3215 | 16 | 6197 | 19 | 5357 | 16 | 4923 | 21 | - | - | - | - | 29.4 | 16.8 | 17 | 19.4 |
| 14 | MMH-08-18 | 3140 | 19 | 6761 | 17 | 4596 | 23 | 4832 | 22 | - | - | - | - | 26.3 | 27.5 | 0.4 | 17.2 |
| 15 | MMH-08-19 | 3779 | 5 | 6977 | 11 | 4504 | 26 | 5087 | 15 | 5.7 | 1.7 | - | - | 52 | 31.5 | - | 23.4 |
| 16 | WBHM-16 | 3101 | 21 | 8517 | 2 | 6497 | 3 | 6038 | 2 | - | 24.2 | 6 | 9.4 | 24.8 | 60.6 | 41.9 | 46.4 |
| 17 | WBHM-17 | 3099 | 22 | 8031 | 3 | 5009 | 20 | 5380 | 9 | - | 17.1 | - | - | 24.7 | 51.4 | 9.4 | 30.5 |
| 18 | BAUH-08-9-1 | 3346 | 13 | 5381 | 25 | 6268 | 5 | 4998 | 19 | - | - | 2.3 | - | 34.6 | 1.4 | 36.9 | 21.2 |

Table No. 48(Cont..)

| S1 No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Shaktiman-4 | | | | GRAIN YIELD % SUPERIORITY OVER THE Ganga-2 | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|---|----|------|------|---|--------------|------|------|------|--------------|
| | | DHOL | R | VARA | R | RANC | R | ZN 3 MEAN | R | DHOL | VARA | RANC | ZN 3 MEAN | DHOL | VARA | RANC | ZN 3 MEAN |
| 19 | BAUH-08-9-2 | 2724 | 28 | 5895 | 21 | 5875 | 10 | 4831 | 23 | - | - | - | - | 9.6 | 11.1 | 28.3 | 17.2 |
| 20 | BAUH-08-9-3 | 3473 | 11 | 6423 | 18 | 4920 | 21 | 4939 | 20 | - | - | - | - | 39.7 | 21.1 | 7.4 | 19.8 |
| 21 | BAUH-08-9-4 | 3525 | 9 | 7032 | 10 | 5643 | 13 | 5400 | 8 | - | 2.5 | - | - | 41.8 | 32.6 | 23.2 | 31 |
| 22 | BAUH-08-9-5 | 2970 | 25 | 6964 | 13 | 4462 | 28 | 4799 | 24 | - | 1.5 | - | - | 19.5 | 31.3 | - | 16.4 |
| 23 | BAUH-08-9-6 | 2774 | 26 | 7175 | 8 | 6018 | 9 | 5323 | 11 | - | 4.6 | - | - | 11.6 | 35.3 | 31.4 | 29.1 |
| 24 | BAUH-08-9-7 | 3476 | 10 | 7133 | 9 | 5023 | 19 | 5211 | 12 | - | 4 | - | - | 39.8 | 34.5 | 9.7 | 26.4 |
| 25 | BAUH-08-9-8 | 3573 | 8 | 6965 | 12 | 5839 | 11 | 5459 | 7 | - | 1.5 | - | - | 43.7 | 31.3 | 27.5 | 32.4 |
| 26 | VEH-09-3 | 3215 | 17 | 7771 | 4 | 4303 | 29 | 5096 | 14 | - | 13.3 | - | - | 29.3 | 46.5 | - | 23.6 |
| 27 | VEH-09-4 | 3698 | 6 | 8868 | 1 | 5049 | 18 | 5872 | 3 | 3.5 | 29.3 | - | 6.4 | 48.8 | 67.2 | 10.3 | 42.4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 28 | Shaktiman-4 | 3575 | 7 | 6859 | 16 | 6127 | 7 | 5520 | 6 | - | - | - | - | 43.8 | 29.3 | 33.8 | 33.9 |
| 29 | Ganga-2 | 2486 | 29 | 5304 | 27 | 4579 | 24 | 4123 | 29 | - | - | - | - | - | - | - | - |
| | Location Mean | 3324 | | 6641 | | 5461 | | 5142 | | | | | | | | | |
| | Mean Stand | 29 | | 36 | | 28 | | 31 | | | | | | | | | |
| | C.D. (5%) | 983 | | 321 | | 1348 | | 884 | | | | | | | | | |
| | C.V. (%) | 18.07 | | 2.96 | | 15.08 | | - | | | | | | | | | |
| | F (Prob) | 0.425 | | 0 | | 0.016 | | - | | | | | | | | | |
| | Plot Size | 6 | | 4.8 | | 5.6 | | - | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| | Sowing Date | 8-07 | | 19-07 | | 13-07 | | - | | | | | | | | | |
| | Harvest Date | - | | 23-10 | | 21-10 | | - | | | | | | | | | |
| | Irrigation Nos | - | | 2 | | - | | - | | | | | | | | | |
| | Fertilizer Applied N | 120 | | 100 | | - | | - | | | | | | | | | |
| | Fertilizer Applied P | 60 | | 60 | | - | | - | | | | | | | | | |
| | Fertilizer Applied K | 40 | | 40 | | - | | - | | | | | | | | | |

Table No. 48(Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | DAYS TO 50% SILKING | | | | DAYS TO 50% DRY HUSK | | | | MOISTURE | | | |
|--------|-------------|-------------------------|------|------|-----------|---------------------|------|------|-----------|----------------------|------|------|-----------|----------|------|------|-----------|
| | | DHOL | VARA | RANC | ZN 3 Mean | DHOL | VARA | RANC | ZN 3 Mean | DHOL | VARA | RANC | ZN 3 Mean | DHOL | VARA | RANC | ZN 3 Mean |
| 1 | MMH-08-5 | 52.3 | 46.3 | 47.0 | 48.6 | 52.7 | 52.0 | 51.3 | 52.0 | 87.0 | 76.7 | 90.0 | 84.6 | 20.4 | 26.1 | 22.1 | 22.9 |
| 2 | MMH-08-6 | 53.7 | 47.3 | 48.0 | 49.7 | 54.7 | 52.0 | 52.3 | 53.0 | 87.7 | 87.0 | 92.3 | 89.0 | 20.7 | 22.5 | 22.0 | 21.7 |
| 3 | MMH-08-7 | 55.7 | 49.3 | 49.7 | 51.6 | 57.3 | 52.7 | 53.7 | 54.6 | 92.0 | 89.7 | 93.0 | 91.6 | 24.9 | 28.1 | 22.4 | 25.1 |
| 4 | MMH-08-8 | 56.3 | 46.7 | 49.0 | 50.7 | 58.0 | 54.7 | 53.3 | 55.3 | 92.0 | 88.0 | 93.0 | 91.0 | 22.3 | 23.9 | 21.3 | 22.5 |
| 5 | MMH-08-9 | 49.3 | 42.3 | 44.0 | 45.2 | 50.0 | 48.7 | 48.0 | 48.9 | 87.0 | 83.3 | 90.7 | 87.0 | 19.9 | 24.5 | 19.4 | 21.3 |
| 6 | MMH-08-10 | 55.0 | 48.7 | 49.0 | 50.9 | 56.3 | 53.3 | 53.0 | 54.2 | 87.3 | 87.0 | 92.3 | 88.9 | 20.5 | 28.5 | 19.4 | 22.8 |
| 7 | MMH-08-11 | 56.0 | 48.0 | 50.0 | 51.3 | 57.3 | 53.7 | 54.3 | 55.1 | 89.0 | 87.3 | 91.7 | 89.3 | 18.7 | 27.3 | 19.0 | 21.7 |
| 8 | MMH-08-12 | 55.0 | 47.7 | 46.7 | 49.8 | 56.0 | 54.0 | 51.0 | 53.7 | 89.3 | 87.0 | 91.0 | 89.1 | 24.3 | 24.2 | 20.3 | 22.9 |
| 9 | MMH-08-13 | 57.3 | 48.0 | 49.7 | 51.7 | 59.3 | 54.7 | 53.7 | 55.9 | 90.7 | 87.7 | 91.0 | 89.8 | 26.8 | 25.7 | 22.1 | 24.9 |
| 10 | MMH-08-14 | 48.7 | 42.7 | 44.0 | 45.1 | 49.7 | 48.0 | 48.0 | 48.6 | 86.7 | 86.7 | 90.0 | 87.8 | 18.6 | 21.6 | 21.7 | 20.6 |
| 11 | MMH-08-15 | 50.3 | 43.7 | 46.3 | 46.8 | 51.3 | 48.7 | 50.3 | 50.1 | 87.3 | 83.3 | 90.3 | 87.0 | 18.5 | 22.3 | 20.4 | 20.4 |
| 12 | MMH-08-16 | 54.0 | 46.7 | 47.3 | 49.3 | 55.0 | 55.7 | 51.3 | 54.0 | 88.7 | 89.3 | 94.0 | 90.7 | 18.8 | 23.6 | 21.0 | 21.1 |
| 13 | MMH-08-17 | 56.3 | 50.0 | 51.0 | 52.4 | 58.0 | 55.3 | 55.3 | 56.2 | 88.0 | 89.3 | 92.0 | 89.8 | 20.8 | 29.1 | 20.3 | 23.4 |
| 14 | MMH-08-18 | 54.7 | 47.0 | 50.0 | 50.6 | 56.0 | 51.0 | 54.3 | 53.8 | 89.0 | 85.3 | 91.7 | 88.7 | 20.3 | 26.4 | 19.2 | 22.0 |
| 15 | MMH-08-19 | 52.3 | 46.0 | 48.3 | 48.9 | 53.3 | 53.7 | 53.0 | 53.3 | 88.7 | 88.0 | 90.0 | 88.9 | 20.6 | 25.6 | 19.0 | 21.7 |
| 16 | WBHM-16 | 56.0 | 48.3 | 48.7 | 51.0 | 58.0 | 54.7 | 53.0 | 55.2 | 91.3 | 88.0 | 91.0 | 90.1 | 26.7 | 26.6 | 20.4 | 24.6 |
| 17 | WBHM-17 | 55.0 | 48.0 | 49.3 | 50.8 | 56.7 | 55.3 | 54.0 | 55.3 | 90.3 | 88.7 | 91.7 | 90.2 | 19.9 | 27.7 | 22.0 | 23.2 |
| 18 | BAUH-08-9-1 | 53.0 | 54.0 | 48.0 | 51.7 | 54.0 | 58.0 | 52.0 | 54.7 | 91.0 | 91.3 | 93.3 | 91.9 | 22.8 | 27.2 | 19.7 | 23.2 |
| 19 | BAUH-08-9-2 | 53.3 | 44.0 | 48.7 | 48.7 | 54.3 | 49.3 | 52.7 | 52.1 | 90.0 | 85.3 | 90.3 | 88.6 | 26.2 | 27.8 | 20.2 | 24.7 |
| 20 | BAUH-08-9-3 | 48.7 | 44.0 | 45.3 | 46.0 | 49.7 | 48.0 | 49.3 | 49.0 | 88.3 | 83.7 | 90.7 | 87.6 | 20.6 | 25.0 | 20.3 | 22.0 |
| 21 | BAUH-08-9-4 | 55.3 | 46.7 | 48.3 | 50.1 | 56.3 | 52.0 | 52.3 | 53.6 | 92.0 | 89.0 | 92.7 | 91.2 | 23.7 | 28.9 | 19.7 | 24.1 |
| 22 | BAUH-08-9-5 | 49.3 | 43.3 | 45.3 | 46.0 | 50.3 | 48.3 | 49.3 | 49.3 | 88.3 | 83.7 | 90.7 | 87.6 | 19.8 | 23.4 | 19.0 | 20.7 |
| 23 | BAUH-08-9-6 | 54.7 | 48.0 | 47.0 | 49.9 | 56.0 | 53.7 | 51.0 | 53.6 | 90.3 | 88.0 | 91.0 | 89.8 | 24.3 | 23.9 | 21.3 | 23.2 |
| 24 | BAUH-08-9-7 | 55.3 | 49.0 | 49.0 | 51.1 | 57.0 | 53.0 | 53.0 | 54.3 | 91.3 | 87.3 | 92.0 | 90.2 | 21.6 | 29.2 | 22.2 | 24.3 |
| 25 | BAUH-08-9-8 | 54.7 | 48.7 | 48.0 | 50.4 | 55.7 | 53.3 | 52.3 | 53.8 | 91.7 | 90.7 | 92.7 | 91.7 | 25.0 | 29.9 | 22.3 | 25.7 |
| 26 | VEH-09-3 | 54.7 | 46.7 | 48.7 | 50.0 | 55.3 | 52.3 | 53.0 | 53.6 | 88.7 | 88.0 | 90.7 | 89.1 | 26.1 | 25.6 | 19.6 | 23.8 |
| 27 | VEH-09-4 | 57.0 | 48.3 | 50.0 | 51.8 | 58.7 | 54.3 | 54.3 | 55.8 | 91.0 | 88.0 | 92.0 | 90.3 | 28.7 | 27.2 | 20.2 | 25.4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 28 | Shaktiman-4 | 56.7 | 53.7 | 50.3 | 53.6 | 58.0 | 57.0 | 54.7 | 56.6 | 90.3 | 89.0 | 91.3 | 90.2 | 23.6 | 24.7 | 20.4 | 22.9 |
| 29 | Ganga-2 | 53.0 | 50.0 | 50.7 | 51.2 | 54.3 | 54.7 | 54.7 | 54.6 | 88.0 | 87.7 | 91.7 | 89.1 | 22.1 | 23.5 | 19.7 | 21.8 |
| | Loc. Mean | 53.9 | 47.3 | 48.2 | 49.8 | 55.1 | 52.8 | 52.4 | 53.4 | 89.4 | 87.0 | 91.5 | 89.3 | 22.3 | 25.9 | 20.6 | 22.9 |
| | C.D. (5%) | 2.63 | 1.40 | 2.44 | 2.17 | 3.05 | 1.50 | 2.61 | 2.16 | 1.96 | 6.30 | 2.32 | 2.41 | - | - | - | 3.26 |
| | C.V. (%) | 2.99 | 1.81 | 3.10 | 2.66 | 3.38 | 1.74 | 3.04 | 2.47 | 1.34 | 4.43 | 1.55 | 1.65 | - | - | - | 8.69 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |

Table No. 48(Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT CM | | | ZN 3 Mean | EAR HEIGHT CM | | | ZN 3 Mean | SHELLING % | STAND ('000/ha) | | | ZN 3 Mean |
|--------|-------------|-----------------|------|------|--------------|---------------|------|------|--------------|------------|-----------------|------|------|--------------|
| | | DHOL | VARA | RANC | | DHOL | VARA | RANC | | RANC | DHOL | VARA | RANC | |
| 1 | MMH-08-5 | 147 | 140 | 185 | 157 | 59 | 65 | 68 | 64 | 84.6 | 45 | 76 | 47 | 56 |
| 2 | MMH-08-6 | 153 | 155 | 202 | 170 | 74 | 75 | 97 | 82 | 87.8 | 48 | 76 | 49 | 58 |
| 3 | MMH-08-7 | 160 | 165 | 197 | 174 | 78 | 85 | 103 | 89 | 86.2 | 47 | 74 | 51 | 57 |
| 4 | MMH-08-8 | 152 | 165 | 209 | 175 | 66 | 70 | 100 | 79 | 86.6 | 44 | 75 | 51 | 57 |
| 5 | MMH-08-9 | 162 | 180 | 192 | 178 | 80 | 100 | 93 | 91 | 84.5 | 52 | 77 | 48 | 59 |
| 6 | MMH-08-10 | 156 | 170 | 184 | 170 | 82 | 95 | 93 | 90 | 85.4 | 48 | 72 | 44 | 55 |
| 7 | MMH-08-11 | 153 | 175 | 205 | 177 | 69 | 85 | 98 | 84 | 88.2 | 47 | 70 | 40 | 53 |
| 8 | MMH-08-12 | 158 | 175 | 188 | 174 | 83 | 85 | 94 | 87 | 86.7 | 49 | 73 | 42 | 55 |
| 9 | MMH-08-13 | 154 | 145 | 187 | 162 | 78 | 70 | 98 | 82 | 83.8 | 50 | 76 | 51 | 59 |
| 10 | MMH-08-14 | 148 | 130 | 198 | 158 | 72 | 75 | 102 | 83 | 86.2 | 49 | 81 | 55 | 62 |
| 11 | MMH-08-15 | 155 | 125 | 183 | 154 | 70 | 50 | 81 | 67 | 84.5 | 44 | 72 | 51 | 56 |
| 12 | MMH-08-16 | 150 | 145 | 206 | 167 | 71 | 60 | 99 | 77 | 85.7 | 51 | 75 | 54 | 60 |
| 13 | MMH-08-17 | 153 | 150 | 191 | 165 | 73 | 65 | 96 | 78 | 84.0 | 50 | 72 | 49 | 57 |
| 14 | MMH-08-18 | 152 | 130 | 193 | 158 | 71 | 65 | 94 | 77 | 86.6 | 46 | 78 | 45 | 56 |
| 15 | MMH-08-19 | 160 | 155 | 207 | 174 | 87 | 70 | 104 | 87 | 81.7 | 44 | 74 | 51 | 56 |
| 16 | WBHM-16 | 181 | 180 | 215 | 192 | 95 | 80 | 114 | 96 | 87.8 | 47 | 78 | 48 | 58 |
| 17 | WBHM-17 | 174 | 210 | 212 | 199 | 89 | 100 | 110 | 99 | 81.7 | 48 | 74 | 51 | 58 |
| 18 | BAUH-08-9-1 | 168 | 170 | 187 | 175 | 88 | 85 | 88 | 87 | 84.5 | 43 | 73 | 48 | 55 |
| 19 | BAUH-08-9-2 | 162 | 175 | 191 | 176 | 76 | 90 | 87 | 84 | 81.3 | 51 | 79 | 51 | 60 |
| 20 | BAUH-08-9-3 | 155 | 175 | 201 | 177 | 69 | 80 | 97 | 82 | 84.6 | 50 | 73 | 52 | 58 |
| 21 | BAUH-08-9-4 | 155 | 195 | 198 | 183 | 77 | 95 | 91 | 88 | 85.4 | 45 | 72 | 53 | 57 |
| 22 | BAUH-08-9-5 | 152 | 180 | 188 | 173 | 75 | 100 | 87 | 87 | 83.4 | 47 | 79 | 53 | 60 |
| 23 | BAUH-08-9-6 | 168 | 180 | 187 | 179 | 82 | 60 | 86 | 76 | 86.6 | 53 | 76 | 45 | 58 |
| 24 | BAUH-08-9-7 | 163 | 175 | 186 | 175 | 80 | 80 | 88 | 83 | 82.9 | 43 | 73 | 53 | 56 |
| 25 | BAUH-08-9-8 | 172 | 200 | 194 | 189 | 83 | 105 | 97 | 95 | 80.4 | 48 | 78 | 51 | 59 |
| 26 | VEH-09-3 | 156 | 175 | 182 | 171 | 67 | 80 | 90 | 79 | 81.8 | 49 | 76 | 45 | 57 |
| 27 | VEH-09-4 | 158 | 175 | 181 | 171 | 70 | 70 | 94 | 78 | 82.6 | 49 | 80 | 51 | 60 |
| CHECKS | | | | | | | | | | | | | | |
| 28 | Shaktiman-4 | 166 | 185 | 200 | 184 | 77 | 95 | 98 | 90 | 80.0 | 46 | 75 | 50 | 57 |
| 29 | Ganga-2 | 151 | 140 | 199 | 163 | 65 | 75 | 103 | 81 | 80.4 | 52 | 79 | 48 | 59 |
| | Loc. Mean | 158 | 166 | 195 | 173 | 76 | 80 | 95 | 84 | 84.3 | 48 | 75 | 49 | 57 |
| | C.D. (5%) | 18.8 | - | 17.9 | 19.9 | 12.1 | - | 14.1 | 14.6 | 3.09 | 6.8 | 6.8 | 9.5 | 4.6 |
| | C.V. (%) | 7.3 | - | 5.6 | 7.0 | 9.7 | - | 9.1 | 10.7 | 2.24 | 8.7 | 5.5 | 11.8 | 4.9 |
| | F (Prob.) | 0.09 | - | 0.00 | 0.01 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.2 | 0.1 | 0.4 | 0.1 |

Table No. 49

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DHOLI, RANCHI IN ZONAL TRIAL No.TR302 DURING KHARIF (2009).

| Sl No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Shaktiman-4 | | | GRAIN YIELD % SUPERIORITY OVER THE Ganga-2 | | | |
|---------------|-------------------------------------|-------|------|-------|------|------|------|------|---|------|------|---|------|------|------|
| | DHOL | | RANC | | MEAN | | OV'L | | DHOL | RANC | MEAN | DHOL | RANC | MEAN | |
| 1 | MFH-08-5 | 2644 | 6 | 6183 | 1 | 4413 | 3 | 4413 | 3 | 14.5 | 55.8 | 40.6 | 0.6 | 92 | 50.9 |
| 2 | MFH-08-6 | 2897 | 3 | 4120 | 17 | 3508 | 13 | 3508 | 13 | 25.5 | 3.8 | 11.8 | 10.2 | 27.9 | 20 |
| 3 | MFH-08-7 | 2494 | 11 | 3996 | 18 | 3245 | 15 | 3245 | 15 | 8 | 0.7 | 3.4 | - | 24.1 | 11 |
| 4 | MFH-08-8 | 2511 | 10 | 5805 | 5 | 4158 | 5 | 4158 | 5 | 8.8 | 46.3 | 32.5 | - | 80.3 | 42.2 |
| 5 | MFH-08-9 | 1598 | 22 | 4511 | 15 | 3054 | 19 | 3054 | 19 | - | 13.7 | - | - | 40.1 | 4.5 |
| 6 | MFH-08-10 | 2273 | 17 | 3270 | 21 | 2771 | 22 | 2771 | 22 | - | - | - | - | 1.5 | - |
| 7 | MFH-08-11 | 2484 | 12 | 5329 | 8 | 3907 | 9 | 3907 | 9 | 7.6 | 34.3 | 24.5 | - | 65.5 | 33.6 |
| 8 | MFH-08-12 | 3382 | 1 | 5672 | 7 | 4527 | 1 | 4527 | 1 | 46.5 | 43 | 44.3 | 28.7 | 76.2 | 54.8 |
| 9 | MFH-08-13 | 2945 | 2 | 5253 | 9 | 4099 | 6 | 4099 | 6 | 27.5 | 32.4 | 30.6 | 12 | 63.1 | 40.2 |
| 10 | MFH-08-14 | 2603 | 8 | 4832 | 13 | 3717 | 11 | 3717 | 11 | 12.7 | 21.8 | 18.5 | - | 50.1 | 27.1 |
| 11 | MFH-08-15 | 2391 | 14 | 2857 | 23 | 2624 | 23 | 2624 | 23 | 3.6 | - | - | - | - | - |
| 12 | MFH-08-16 | 2478 | 13 | 3485 | 20 | 2982 | 20 | 2982 | 20 | 7.3 | - | - | - | 8.2 | 2 |
| 13 | MFH-08-17 | 1463 | 23 | 4940 | 11 | 3201 | 16 | 3201 | 16 | - | 24.5 | 2 | - | 53.4 | 9.5 |
| 14 | MFH-08-18 | 2067 | 20 | 5718 | 6 | 3893 | 10 | 3893 | 10 | - | 44.1 | 24 | - | 77.6 | 33.1 |
| 15 | MFH-08-19 | 2170 | 19 | 4212 | 16 | 3191 | 17 | 3191 | 17 | - | 6.2 | 1.7 | - | 30.8 | 9.1 |
| 16 | BAUH-08-9-101 | 2597 | 9 | 5922 | 4 | 4259 | 4 | 4259 | 4 | 12.5 | 49.3 | 35.7 | - | 83.9 | 45.7 |
| 17 | BAUH-08-9-102 | 2334 | 15 | 4621 | 14 | 3477 | 14 | 3477 | 14 | 1.1 | 16.5 | 10.8 | - | 43.5 | 18.9 |
| 18 | BAU H-08-9-103 | 1919 | 21 | 5982 | 3 | 3951 | 8 | 3951 | 8 | - | 50.8 | 25.9 | - | 85.8 | 35.1 |
| 19 | BAUH-08-9-104 | 2888 | 4 | 5082 | 10 | 3985 | 7 | 3985 | 7 | 25.1 | 28.1 | 27 | 9.9 | 57.8 | 36.3 |
| 20 | BAUH-08-9105 | 2235 | 18 | 4877 | 12 | 3556 | 12 | 3556 | 12 | - | 22.9 | 13.3 | - | 51.5 | 21.6 |
| 21 | BAUH-08-9-106 | 2724 | 5 | 6125 | 2 | 4424 | 2 | 4424 | 2 | 18 | 54.4 | 41 | 3.7 | 90.2 | 51.3 |
| CHECKS | | | | | | | | | | | | | | | |
| 22 | Shaktiman-4 | 2309 | 16 | 3967 | 19 | 3138 | 18 | 3138 | 18 | - | - | - | - | 23.2 | 7.3 |
| 23 | Ganga-2 | 2628 | 7 | 3220 | 22 | 2924 | 21 | 2924 | 21 | 13.8 | - | - | - | - | - |
| | Location Mean | 2436 | | 4782 | | 3609 | | 3609 | | | | | | | |
| | Mean Stand | 27 | | 26 | | 26 | | 26 | | | | | | | |
| | C.D. (5%) | 1150 | | 1908 | | 1529 | | 1529 | | | | | | | |
| | C.V. (%) | 28.68 | | 24.23 | | - | | - | | | | | | | |
| | F (Prob) | 0.509 | | 0.007 | | | | | | | | | | | |
| | Plot Size | 6 | | 5.6 | | - | | - | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | |
| | Sowing Date | 8-07 | | 13-07 | | - | | - | | | | | | | |
| | Harvest Date | - | | 14-10 | | - | | - | | | | | | | |
| | Irrigation Nos | - | | - | | - | | - | | | | | | | |
| | Fertilizer Applied N | 120 | | - | | - | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | - | | - | | - | | | | | | | |
| | Fertilizer Applied K | 40 | | - | | - | | - | | | | | | | |

Table No. 49(Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | |
|----------|----------------|-------------------------|------|--------------|---------------------|------|--------------|----------------------|------|--------------|-----------------------|------|--------------|
| | | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean |
| 1 | MFH-08-5 | 52.7 | 51.7 | 52.2 | 53.7 | 55.7 | 54.7 | 86.3 | 86.7 | 86.5 | 23.2 | 21.1 | 22.2 |
| 2 | MFH-08-6 | 52.3 | 49.7 | 51.0 | 53.3 | 54.0 | 53.7 | 86.3 | 86.7 | 86.5 | 20.1 | 22.1 | 21.1 |
| 3 | MFH-08-7 | 50.0 | 47.7 | 48.8 | 51.0 | 51.7 | 51.3 | 86.0 | 85.3 | 85.7 | 20.0 | 22.7 | 21.3 |
| 4 | MFH-08-8 | 50.7 | 48.3 | 49.5 | 51.7 | 53.0 | 52.3 | 86.0 | 87.7 | 86.8 | 19.5 | 22.8 | 21.1 |
| 5 | MFH-08-9 | 54.0 | 52.7 | 53.3 | 55.3 | 56.7 | 56.0 | 87.0 | 86.0 | 86.5 | 19.6 | 22.8 | 21.2 |
| 6 | MFH-08-10 | 52.3 | 48.0 | 50.2 | 53.3 | 52.3 | 52.8 | 86.0 | 85.7 | 85.8 | 19.9 | 22.3 | 21.1 |
| 7 | MFH-08-11 | 53.7 | 52.0 | 52.8 | 54.7 | 56.0 | 55.3 | 86.7 | 87.3 | 87.0 | 25.6 | 20.7 | 23.1 |
| 8 | MFH-08-12 | 55.0 | 51.0 | 53.0 | 56.0 | 54.7 | 55.3 | 89.0 | 88.0 | 88.5 | 22.0 | 21.3 | 21.7 |
| 9 | MFH-08-13 | 54.0 | 52.3 | 53.2 | 55.3 | 56.7 | 56.0 | 89.3 | 87.7 | 88.5 | 24.6 | 21.4 | 23.0 |
| 10 | MFH-08-14 | 48.0 | 47.3 | 47.7 | 49.0 | 51.3 | 50.2 | 85.0 | 85.7 | 85.3 | 21.0 | 20.8 | 20.9 |
| 11 | MFH-08-15 | 54.3 | 52.7 | 53.5 | 54.7 | 56.7 | 55.7 | 87.7 | 86.3 | 87.0 | 20.8 | 21.4 | 21.1 |
| 12 | MFH-08-16 | 53.3 | 51.0 | 52.2 | 54.3 | 55.3 | 54.8 | 87.0 | 87.0 | 87.0 | 21.5 | 21.4 | 21.4 |
| 13 | MFH-08-17 | 48.0 | 46.0 | 47.0 | 48.7 | 50.0 | 49.3 | 85.7 | 86.3 | 86.0 | 20.3 | 20.8 | 20.6 |
| 14 | MFH-08-18 | 56.0 | 52.3 | 54.2 | 57.0 | 56.3 | 56.7 | 87.7 | 86.7 | 87.2 | 20.3 | 21.3 | 20.8 |
| 15 | MFH-08-19 | 53.0 | 49.0 | 51.0 | 54.0 | 53.7 | 53.8 | 86.7 | 86.0 | 86.3 | 19.7 | 20.9 | 20.3 |
| 16 | BAUH-08-9-101 | 52.0 | 49.0 | 50.5 | 53.0 | 53.0 | 53.0 | 88.3 | 87.3 | 87.8 | 20.7 | 19.7 | 20.2 |
| 17 | BAUH-08-9-102 | 52.0 | 49.0 | 50.5 | 53.0 | 53.0 | 53.0 | 88.0 | 86.0 | 87.0 | 20.7 | 22.2 | 21.5 |
| 18 | BAU H-08-9-103 | 55.7 | 53.3 | 54.5 | 57.7 | 57.3 | 57.5 | 90.7 | 87.3 | 89.0 | 24.4 | 22.2 | 23.3 |
| 19 | BAUH-08-9-104 | 53.7 | 52.0 | 52.8 | 54.7 | 56.0 | 55.3 | 90.7 | 86.3 | 88.5 | 24.0 | 21.3 | 22.6 |
| 20 | BAUH-08-9105 | 51.3 | 49.3 | 50.3 | 52.3 | 53.7 | 53.0 | 88.3 | 87.0 | 87.7 | 20.7 | 20.1 | 20.4 |
| 21 | BAUH-08-9-106 | 52.0 | 50.3 | 51.2 | 53.0 | 55.0 | 54.0 | 88.0 | 86.3 | 87.2 | 21.1 | 20.7 | 20.9 |
| CHECKS | | | | | | | | | | | | | |
| 22 | Shaktiman-4 | 56.7 | 53.0 | 54.8 | 58.3 | 57.0 | 57.7 | 89.3 | 89.0 | 89.2 | 24.6 | 22.3 | 23.4 |
| 23 | Ganga-2 | 52.7 | 50.7 | 51.7 | 53.7 | 55.3 | 54.5 | 86.0 | 86.0 | 86.0 | 24.0 | 22.2 | 23.1 |
| | Loc. Mean | 52.8 | 50.4 | 51.6 | 53.8 | 54.5 | 54.2 | 87.5 | 86.7 | 87.1 | 21.7 | 21.5 | 21.6 |
| | C.D. (5%) | 1.94 | 1.80 | 1.47 | 2.10 | 2.00 | 1.65 | 1.53 | 2.35 | 1.96 | 0.00 | 1.12 | 3.19 |
| | C.V. (%) | 2.24 | 2.17 | 1.38 | 2.37 | 2.23 | 1.46 | 1.06 | 1.65 | 1.09 | 0.00 | 3.17 | 7.14 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.01 | 0.00 | 0.00 | 0.61 |

Table No. 49(Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | EAR HEIGHT (cm) | | | GRAIN SHELLING % | STAND AT HARVEST ('000/ha) | | |
|----------|----------------|-------------------|------|--------------|-----------------|------|--------------|------------------|----------------------------|------|--------------|
| | | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean | RANC | DHOL | RANC | ZN 3 Mean |
| 1 | MFH-08-5 | 146 | 185 | 165 | 69 | 91 | 80 | 87.5 | 36 | 40 | 38 |
| 2 | MFH-08-6 | 130 | 173 | 152 | 73 | 84 | 78 | 83.3 | 47 | 44 | 46 |
| 3 | MFH-08-7 | 147 | 186 | 166 | 69 | 83 | 76 | 84.5 | 48 | 48 | 48 |
| 4 | MFH-08-8 | 137 | 172 | 154 | 63 | 84 | 74 | 84.5 | 50 | 52 | 51 |
| 5 | MFH-08-9 | 161 | 192 | 177 | 79 | 97 | 88 | 85.7 | 44 | 48 | 46 |
| 6 | MFH-08-10 | 156 | 192 | 174 | 81 | 88 | 85 | 75.0 | 37 | 49 | 43 |
| 7 | MFH-08-11 | 146 | 174 | 160 | 68 | 81 | 75 | 83.3 | 42 | 49 | 46 |
| 8 | MFH-08-12 | 160 | 179 | 170 | 83 | 84 | 84 | 84.5 | 48 | 50 | 49 |
| 9 | MFH-08-13 | 169 | 178 | 174 | 79 | 88 | 84 | 86.1 | 52 | 43 | 48 |
| 10 | MFH-08-14 | 151 | 175 | 163 | 62 | 77 | 70 | 79.2 | 44 | 49 | 47 |
| 11 | MFH-08-15 | 125 | 170 | 148 | 64 | 81 | 72 | 75.0 | 44 | 43 | 43 |
| 12 | MFH-08-16 | 172 | 186 | 179 | 84 | 85 | 85 | 82.9 | 47 | 46 | 47 |
| 13 | MFH-08-17 | 143 | 179 | 161 | 72 | 86 | 79 | 85.4 | 24 | 45 | 34 |
| 14 | MFH-08-18 | 147 | 177 | 162 | 61 | 89 | 75 | 84.5 | 39 | 47 | 43 |
| 15 | MFH-08-19 | 135 | 185 | 160 | 66 | 93 | 80 | 79.2 | 42 | 48 | 45 |
| 16 | BAUH-08-9-101 | 141 | 175 | 158 | 68 | 80 | 74 | 81.7 | 48 | 47 | 47 |
| 17 | BAUH-08-9-102 | 150 | 176 | 163 | 65 | 78 | 71 | 81.7 | 45 | 43 | 44 |
| 18 | BAU H-08-9-103 | 162 | 179 | 170 | 77 | 88 | 83 | 80.4 | 49 | 48 | 49 |
| 19 | BAUH-08-9-104 | 151 | 183 | 167 | 74 | 83 | 78 | 77.5 | 52 | 49 | 50 |
| 20 | BAUH-08-9-105 | 148 | 174 | 161 | 72 | 82 | 77 | 82.9 | 48 | 46 | 47 |
| 21 | BAUH-08-9-106 | 149 | 185 | 167 | 68 | 81 | 74 | 82.9 | 38 | 42 | 40 |
| CHECKS | | | | | | | | | | | |
| 22 | Shaktiman-4 | 153 | 179 | 166 | 72 | 90 | 81 | 81.7 | 49 | 46 | 48 |
| 23 | Ganga-2 | 148 | 176 | 162 | 67 | 79 | 73 | 81.7 | 47 | 39 | 43 |
| | Loc. Mean | 149 | 180 | 164 | 71 | 85 | 78 | 82.2 | 44 | 46 | 45 |
| | C.D. (5%) | 20.5 | 15.4 | 14.5 | 12.5 | 12.7 | 10.0 | 3.88 | 8.6 | 9.6 | 9.4 |
| | C.V. (%) | 8.4 | 5.2 | 4.3 | 10.7 | 9.1 | 6.2 | 2.87 | 11.7 | 12.7 | 10.0 |
| | F (Prob.) | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.00 | 0.0 | 0.5 | 0.2 |

TABLE No. 50

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS DHOLI, RANCHI DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Shaktiman-2 | | | GRAIN YIELD % SUPERIORITY OVER THE Shaktiman-4 | | |
|---------------|----------------------|-------------------------------------|----|-------|----|------|----|--|------|------|--|------|------|
| | | DHOL | R | RANC | R | MEAN | R | ZN 3 | DHOL | RANC | MEAN | DHOL | RANC |
| 1 | MHQPM-08-1 | 3040 | 8 | 4834 | 13 | 3937 | 11 | - | - | - | - | - | - |
| 2 | MHQPM-08-2 | 2902 | 10 | 4298 | 14 | 3600 | 14 | - | - | - | - | - | - |
| 3 | MHQPM-08-3 | 3281 | 3 | 5959 | 2 | 4620 | 1 | 0.9 | 20.5 | 12.7 | - | 13.4 | 7.5 |
| 4 | MHQPM-08-4 | 3205 | 6 | 5101 | 9 | 4153 | 7 | - | 3.1 | 1.3 | - | - | - |
| 5 | MHQPM-08-5 | 3506 | 1 | 5520 | 4 | 4513 | 2 | 7.8 | 11.6 | 10.1 | 5 | 5 | 5 |
| 6 | MHQPM-08-6 | 3078 | 7 | 4934 | 12 | 4006 | 9 | - | - | - | - | - | - |
| 7 | BAUQH-08-9-201 | 2728 | 12 | 5994 | 1 | 4361 | 4 | - | 21.2 | 6.4 | - | 14.1 | 1.5 |
| 8 | BAUQH-08-0-202 | 2577 | 13 | 4976 | 10 | 3777 | 13 | - | 0.6 | - | - | - | - |
| 9 | BAUQH-08-9-203 | 2947 | 9 | 5893 | 3 | 4420 | 3 | - | 19.1 | 7.8 | - | 12.1 | 2.9 |
| 10 | BAUQH-08-9-204 | 2784 | 11 | 5204 | 8 | 3994 | 10 | - | 5.2 | - | - | - | - |
| 11 | BAUQH-08-9-205 | 2520 | 14 | 5270 | 6 | 3895 | 12 | - | 6.5 | - | - | 0.3 | - |
| 12 | BAUQH-08-9-206 | 3243 | 5 | 5413 | 5 | 4328 | 5 | - | 9.4 | 5.6 | - | 3 | 0.7 |
| CHECKS | | | | | | | | | | | | | |
| 13 | Shaktiman-2 | 3251 | 4 | 4947 | 11 | 4099 | 8 | - | - | - | - | - | - |
| 14 | Shaktiman-4 | 3338 | 2 | 5255 | 7 | 4296 | 6 | 2.7 | 6.2 | 4.8 | - | - | - |
| | Location Mean | 3029 | | 5257 | | 4143 | | | | | | | |
| | Mean Stand | 23 | | 27 | | 25 | | | | | | | |
| | C.D. (5%) | 912 | | 1813 | | 1363 | | | | | | | |
| | C.V. (%) | 17.91 | | 20.51 | | - | | | | | | | |
| | F (Prob) | 0.985 | | 0.518 | | - | | | | | | | |
| | Plot Size | 6 | | 5.6 | | - | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | |
| | Sowing Date | 8-07 | | 13-07 | | - | | | | | | | |
| | Harvest Date | - | | 20-10 | | - | | | | | | | |
| | Irrigation Nos | - | | - | | - | | | | | | | |
| | Fertilizer Applied N | 120 | | - | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | - | | - | | | | | | | |
| | Fertilizer Applied K | 40 | | - | | - | | | | | | | |

TABLE No.50 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | |
|----------|----------------|-------------------------|------|--------------|---------------------|------|--------------|----------------------|------|--------------|-----------------------|------|--------------|
| | | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean |
| 1 | MHQPM-08-1 | 56.3 | 53.7 | 55.0 | 57.0 | 57.7 | 57.3 | 89.3 | 94.0 | 91.7 | 21.0 | 20.1 | 20.6 |
| 2 | MHQPM-08-2 | 52.3 | 51.0 | 51.7 | 53.3 | 55.7 | 54.5 | 87.7 | 93.7 | 90.7 | 19.7 | 19.3 | 19.5 |
| 3 | MHQPM-08-3 | 55.7 | 53.0 | 54.3 | 56.7 | 57.0 | 56.8 | 89.0 | 95.7 | 92.3 | 19.1 | 22.3 | 20.7 |
| 4 | MHQPM-08-4 | 54.7 | 52.7 | 53.7 | 56.3 | 57.0 | 56.7 | 89.7 | 95.0 | 92.3 | 19.2 | 20.3 | 19.8 |
| 5 | MHQPM-08-5 | 57.3 | 54.0 | 55.7 | 59.0 | 58.0 | 58.5 | 90.3 | 94.3 | 92.3 | 21.7 | 19.2 | 20.5 |
| 6 | MHQPM-08-6 | 54.7 | 53.3 | 54.0 | 55.7 | 57.3 | 56.5 | 90.0 | 94.7 | 92.3 | 18.2 | 21.3 | 19.8 |
| 7 | BAUQH-08-9-201 | 50.0 | 50.3 | 50.2 | 51.0 | 55.0 | 53.0 | 87.7 | 92.3 | 90.0 | 19.4 | 20.3 | 19.9 |
| 8 | BAUQH-08-0-202 | 50.0 | 49.7 | 49.8 | 50.7 | 53.3 | 52.0 | 88.7 | 92.7 | 90.7 | 20.7 | 22.4 | 21.6 |
| 9 | BAUQH-08-9-203 | 50.3 | 50.0 | 50.2 | 51.3 | 54.0 | 52.7 | 89.0 | 92.3 | 90.7 | 19.2 | 21.0 | 20.1 |
| 10 | BAUQH-08-9-204 | 52.7 | 51.0 | 51.8 | 54.0 | 55.0 | 54.5 | 88.7 | 91.0 | 89.8 | 20.1 | 20.1 | 20.1 |
| 11 | BAUQH-08-9-205 | 49.3 | 49.0 | 49.2 | 50.3 | 53.0 | 51.7 | 88.7 | 92.3 | 90.5 | 20.0 | 21.3 | 20.7 |
| 12 | BAUQH-08-9-206 | 50.7 | 50.0 | 50.3 | 51.7 | 53.7 | 52.7 | 90.0 | 92.0 | 91.0 | 19.5 | 19.3 | 19.4 |
| CHECKS | | | | | | | | | | | | | |
| 13 | Shaktiman-2 | 50.7 | 51.0 | 50.8 | 51.7 | 55.3 | 53.5 | 88.3 | 94.3 | 91.3 | 19.9 | 20.4 | 20.2 |
| 14 | Shaktiman-4 | 55.0 | 53.3 | 54.2 | 56.7 | 57.3 | 57.0 | 89.7 | 94.7 | 92.2 | 22.3 | 21.3 | 21.8 |
| | Loc. Mean | 52.8 | 51.6 | 52.2 | 54.0 | 55.7 | 54.8 | 89.0 | 93.5 | 91.3 | 20.0 | 20.6 | 20.3 |
| | C.D. (5%) | 1.90 | 1.53 | 1.75 | 1.80 | 1.58 | 2.13 | 1.59 | 2.85 | 2.06 | - | - | 2.43 |
| | C.V. (%) | 2.15 | 1.77 | 1.56 | 1.99 | 1.69 | 1.80 | 1.07 | 1.82 | 1.05 | - | - | 5.54 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.14 | - | 0.00 | 0.66 |

TABLE No. 50 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT(cm) | | | EAR HEIGHT(cm) | | | GRAIN SHELLING % RANC | STAND AT HARVEST ('000/ha) | | |
|----------|----------------|------------------|------|--------------|----------------|------|--------------|--------------------------|----------------------------|------|--------------|
| | | DHOL | RANC | ZN 3 Mean | DHOL | RANC | ZN 3 Mean | | DHOL | RANC | ZN 3 Mean |
| 1 | MHQPM-08-1 | 142 | 162 | 152 | 65 | 81 | 73 | 83.2 | 31 | 39 | 35 |
| 2 | MHQPM-08-2 | 162 | 178 | 170 | 68 | 80 | 74 | 81.3 | 40 | 48 | 44 |
| 3 | MHQPM-08-3 | 176 | 179 | 178 | 95 | 96 | 95 | 81.3 | 37 | 49 | 43 |
| 4 | MHQPM-08-4 | 174 | 174 | 174 | 92 | 91 | 91 | 82.3 | 28 | 41 | 34 |
| 5 | MHQPM-08-5 | 185 | 182 | 184 | 91 | 96 | 93 | 83.4 | 35 | 46 | 41 |
| 6 | MHQPM-08-6 | 167 | 182 | 175 | 89 | 87 | 88 | 83.8 | 34 | 48 | 41 |
| 7 | BAUQH-08-9-201 | 154 | 180 | 167 | 75 | 84 | 79 | 80.9 | 45 | 54 | 49 |
| 8 | BAUQH-08-0-202 | 162 | 173 | 167 | 75 | 76 | 76 | 78.4 | 47 | 51 | 49 |
| 9 | BAUQH-08-9-203 | 164 | 181 | 172 | 72 | 86 | 79 | 83.8 | 46 | 52 | 49 |
| 10 | BAUQH-08-9-204 | 160 | 190 | 175 | 69 | 88 | 78 | 82.5 | 42 | 48 | 45 |
| 11 | BAUQH-08-9-205 | 149 | 166 | 158 | 73 | 77 | 75 | 80.0 | 50 | 50 | 50 |
| 12 | BAUQH-08-9-206 | 173 | 193 | 183 | 81 | 87 | 84 | 81.7 | 36 | 50 | 43 |
| CHECKS | | | | | | | | | | | |
| 13 | Shaktiman-2 | 159 | 192 | 175 | 74 | 89 | 82 | 82.6 | 41 | 50 | 45 |
| 14 | Shaktiman-4 | 177 | 193 | 185 | 81 | 92 | 87 | 81.7 | 36 | 48 | 42 |
| | Loc. Mean | 164 | 180 | 172 | 78 | 86 | 82 | 81.9 | 39 | 48 | 44 |
| | C.D. (5%) | 19.7 | 14.9 | 16.1 | 14.7 | 12.1 | 10.4 | 5.17 | 16 | 10 | 6 |
| | C.V. (%) | 7.1 | 4.9 | 4.3 | 11.2 | 8.3 | 5.8 | 3.76 | 25 | 12 | 7 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.74 | 0 | 0 | 0 |

TABLE No. 51

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT MANDYA, COIMBATORE IN ZONAL TRIAL No. TR401B DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | GRAIN YIELD % SUPERIORITY OVER THE NK - 6240 | | | GRAIN YIELD % SUPERIORITY OVER THE 30V92 | | | GRAIN YIELD % SUPERIORITY OVER THE Pinackle | | |
|----------|---------------------|--|----|-------|----|--------------|---|------|------|---|------|------|--|------|------|
| | | MAND | R | COIM | R | ZN 4 MEAN | R | MAND | COIM | ZN 4 MEAN | MAND | COIM | ZN 4 MEAN | MAND | COIM |
| 1 | BH 407145 | 6541 | 18 | 9846 | 14 | 8194 | 17 | - | - | - | - | - | - | - | - |
| 2 | BH - 40775 | 6416 | 19 | 11827 | 5 | 9121 | 10 | - | 10 | - | - | - | - | - | - |
| 3 | BH - 40707 | 7721 | 9 | 10368 | 11 | 9045 | 12 | - | - | - | 5.6 | - | - | - | - |
| 4 | BH - 407140 | 7474 | 11 | 11491 | 8 | 9483 | 8 | - | 6.9 | 2.2 | 2.2 | - | - | - | - |
| 5 | BH - 407138 | 10207 | 3 | 12530 | 3 | 11368 | 1 | 30.6 | 16.6 | 22.5 | 39.6 | - | 13.4 | 29.3 | - |
| 6 | BH - 407144 | 5558 | 21 | 12162 | 4 | 8860 | 13 | - | 13.1 | - | - | - | - | - | - |
| 7 | BH - 40623 | 7369 | 12 | 10824 | 9 | 9096 | 11 | - | 0.7 | - | 0.8 | - | - | - | - |
| 8 | BH - 40780 | 7581 | 10 | 10075 | 13 | 8828 | 15 | - | - | - | 3.7 | - | - | - | - |
| 9 | BH - 40721 | 9094 | 5 | 10140 | 12 | 9617 | 7 | 16.4 | - | 3.6 | 24.4 | - | - | 15.2 | - |
| 10 | BH - 407120 | 6684 | 17 | 9248 | 20 | 7966 | 18 | - | - | - | - | - | - | - | - |
| 11 | BH - 407106 | 6922 | 16 | 9796 | 15 | 8359 | 16 | - | - | - | - | - | - | - | - |
| 12 | BH - 407132 | 10719 | 2 | 11584 | 6 | 11152 | 2 | 37.2 | 7.8 | 20.1 | 46.6 | - | 11.2 | 35.8 | - |
| 13 | BH - 408006 | 6348 | 20 | 9275 | 19 | 7812 | 20 | - | - | - | - | - | - | - | - |
| 14 | BH - 407135 | 9589 | 4 | 11517 | 7 | 10553 | 4 | 22.7 | 7.1 | 13.7 | 31.1 | - | 5.2 | 21.5 | - |
| 15 | BH - 40710 | 6997 | 15 | 8044 | 22 | 7521 | 21 | - | - | - | - | - | - | - | - |
| 16 | BH - 4068 | 11011 | 1 | 9482 | 18 | 10247 | 5 | 40.9 | - | 10.4 | 50.6 | - | 2.2 | 39.5 | - |
| 17 | BH - 40720 | 905 | 22 | 9583 | 17 | 5244 | 22 | - | - | - | - | - | - | - | - |
| 18 | KMH -24105 | 7077 | 14 | 8850 | 21 | 7964 | 19 | - | - | - | - | - | - | - | - |
| 19 | BH - 40715 | 7971 | 6 | 9714 | 16 | 8843 | 14 | 2 | - | - | 9 | - | - | 1 | - |
| 20 | NK - 6240 | 7814 | 8 | 10750 | 10 | 9282 | 9 | - | - | - | 6.8 | - | - | - | - |
| 21 | 30V92 | 7313 | 13 | 12741 | 2 | 10027 | 6 | - | 18.5 | 8 | - | - | - | - | - |
| 22 | Pinackle | 7892 | 7 | 14039 | 1 | 10966 | 3 | 1 | 30.6 | 18.1 | 7.9 | 10.2 | 9.4 | - | - |
| | Location Mean | 7477 | | 10631 | | 9054 | | | | | | | | | |
| | Mean Stand | 32 | | 31 | | 32 | | | | | | | | | |
| | C.D. (5%) | 1445 | | 924 | | 1184 | | | | | | | | | |
| | C.V. (%) | 11.17 | | 5.27 | | - | | | | | | | | | |
| | F (Prob) | 0 | | 0 | | - | | | | | | | | | |
| | Plot Size | 5.6 | | 4.8 | | - | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | |
| | Sowing Date | 30-07 | | 16-07 | | - | | | | | | | | | |
| | Harvest Date | 4-12 | | 13-11 | | - | | | | | | | | | |
| | Irrigation Nos | 6 | | 10 | | - | | | | | | | | | |
| | Ferilizer Applied N | 150 | | 150 | | - | | | | | | | | | |
| | Ferilizer Applied P | 75 | | 75 | | - | | | | | | | | | |
| | Ferilizer Applied K | 40 | | 75 | | - | | | | | | | | | |

TABLE No. 51 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | |
|----------|-------------|-------------------------|------|--------------|---------------------|------|--------------|----------------------|-------|--------------|-----------------------|------|--------------|
| | | MAND | COIM | ZN 4 Mean | MAND | COIM | ZN 4 Mean | MAND | COIM | ZN 4 Mean | MAND | COIM | ZN 4 Mean |
| 1 | BH 407145 | 65.7 | 56.3 | 61.0 | 68.3 | 58.3 | 63.3 | 99.7 | 110.0 | 104.8 | 17.3 | 22.3 | 19.8 |
| 2 | BH - 40775 | 62.0 | 52.0 | 57.0 | 64.7 | 54.0 | 59.3 | 105.3 | 105.0 | 105.2 | 16.5 | 19.1 | 17.8 |
| 3 | BH - 40707 | 64.3 | 54.0 | 59.2 | 66.3 | 56.0 | 61.2 | 98.7 | 108.0 | 103.3 | 17.1 | 17.6 | 17.3 |
| 4 | BH - 407140 | 65.3 | 56.7 | 61.0 | 66.7 | 58.7 | 62.7 | 104.3 | 110.0 | 107.2 | 16.6 | 20.6 | 18.6 |
| 5 | BH - 407138 | 66.0 | 56.7 | 61.3 | 67.0 | 58.7 | 62.8 | 105.3 | 110.0 | 107.7 | 16.8 | 19.6 | 18.2 |
| 6 | BH - 407144 | 66.0 | 57.0 | 61.5 | 66.3 | 59.0 | 62.7 | 102.3 | 110.0 | 106.2 | 17.3 | 18.7 | 18.0 |
| 7 | BH - 40623 | 63.3 | 55.3 | 59.3 | 65.3 | 57.3 | 61.3 | 103.0 | 110.0 | 106.5 | 17.0 | 18.8 | 17.9 |
| 8 | BH - 40780 | 65.7 | 57.0 | 61.3 | 68.0 | 59.0 | 63.5 | 105.0 | 110.0 | 107.5 | 16.7 | 20.0 | 18.3 |
| 9 | BH - 40721 | 65.0 | 57.0 | 61.0 | 66.3 | 59.0 | 62.7 | 108.3 | 110.0 | 109.2 | 17.4 | 18.5 | 17.9 |
| 10 | BH - 407120 | 65.7 | 54.0 | 59.8 | 67.3 | 56.0 | 61.7 | 104.0 | 108.0 | 106.0 | 17.2 | 19.6 | 18.4 |
| 11 | BH - 407106 | 64.3 | 53.0 | 58.7 | 66.0 | 55.0 | 60.5 | 107.0 | 106.0 | 106.5 | 17.5 | 21.1 | 19.3 |
| 12 | BH - 407132 | 65.3 | 53.3 | 59.3 | 67.0 | 55.3 | 61.2 | 104.7 | 107.0 | 105.8 | 17.3 | 19.3 | 18.3 |
| 13 | BH - 408006 | 64.3 | 56.3 | 60.3 | 66.0 | 58.3 | 62.2 | 107.3 | 110.0 | 108.7 | 16.6 | 18.5 | 17.5 |
| 14 | BH - 407135 | 65.3 | 54.3 | 59.8 | 67.7 | 56.3 | 62.0 | 105.3 | 108.0 | 106.7 | 17.2 | 21.0 | 19.1 |
| 15 | BH - 40710 | 63.7 | 52.7 | 58.2 | 65.0 | 54.7 | 59.8 | 104.3 | 105.0 | 104.7 | 17.8 | 19.6 | 18.7 |
| 16 | BH - 4068 | 62.7 | 52.7 | 57.7 | 64.3 | 54.7 | 59.5 | 103.7 | 105.0 | 104.3 | 16.4 | 19.7 | 18.0 |
| 17 | BH - 40720 | - | 52.3 | 52.3 | - | 54.3 | 54.3 | - | 105.0 | 105.0 | - | 21.3 | 21.3 |
| 18 | KMH -24105 | 58.3 | 54.0 | 56.2 | 60.0 | 56.0 | 58.0 | 99.7 | 109.3 | 104.5 | 17.5 | 17.5 | 17.5 |
| 19 | BH - 40715 | 66.7 | 53.7 | 60.2 | 68.7 | 55.7 | 62.2 | 109.3 | 106.0 | 107.7 | 18.0 | 21.0 | 19.5 |
| 20 | NK - 6240 | 62.7 | 52.0 | 57.3 | 63.3 | 54.0 | 58.7 | 102.7 | 105.0 | 103.8 | 17.3 | 20.8 | 19.0 |
| 21 | 30V92 | 64.7 | 54.7 | 59.7 | 66.7 | 56.7 | 61.7 | 105.3 | 110.0 | 107.7 | 19.2 | 20.5 | 19.8 |
| 22 | Pinackle | 62.3 | 53.7 | 58.0 | 65.0 | 55.7 | 60.3 | 109.0 | 108.0 | 108.5 | 18.8 | 19.7 | 19.3 |
| | Loc. Mean | 61.3 | 54.5 | 59.1 | 63.0 | 56.5 | 61.0 | 99.7 | 108.0 | 106.2 | 16.5 | 19.7 | 18.6 |
| | C.D. (5%) | 2.1 | 1.1 | 4.0 | 2.3 | 1.1 | 4.1 | 4.1 | 1.1 | 5.5 | 0.4 | 0.6 | 2.0 |
| | C.D. (1%) | 2.8 | 1.5 | 5.5 | 3.05 | 1.45 | 5.57 | 5.53 | 1.52 | 7.47 | 0.54 | 0.83 | 2.71 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.72 | 0.00 | 0.00 | 0.06 |

TABLE No. 51 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT (cm) | | | EAR HEIGHT (cm) | | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | |
|----------|-------------|-------------------|------|--------------|-----------------|------|--------------|------------------|------|--------------|----------------------------|------|--------------|
| | | MAND | COIM | ZN 4 Mean | MAND | COIM | ZN 4 Mean | MAND | COIM | ZN 4 Mean | MAND | COIM | ZN 4 Mean |
| 1 | BH 407145 | 177 | 159 | 168 | 92 | 76 | 84 | 76.3 | 79.7 | 78.0 | 60 | 67 | 63 |
| 2 | BH - 40775 | 174 | 175 | 174 | 79 | 96 | 87 | 81.4 | 78.1 | 79.7 | 61 | 67 | 64 |
| 3 | BH - 40707 | 171 | 190 | 180 | 80 | 114 | 97 | 80.9 | 80.7 | 80.8 | 63 | 65 | 64 |
| 4 | BH - 407140 | 165 | 174 | 170 | 92 | 96 | 94 | 82.1 | 82.6 | 82.4 | 61 | 60 | 61 |
| 5 | BH - 407138 | 194 | 204 | 199 | 91 | 113 | 102 | 82.6 | 83.3 | 82.9 | 64 | 66 | 65 |
| 6 | BH - 407144 | 151 | 167 | 159 | 68 | 104 | 86 | 71.9 | 77.5 | 74.7 | 62 | 66 | 64 |
| 7 | BH - 40623 | 173 | 166 | 170 | 83 | 84 | 83 | 81.9 | 77.1 | 79.5 | 65 | 65 | 65 |
| 8 | BH - 40780 | 187 | 199 | 193 | 94 | 111 | 103 | 77.6 | 72.8 | 75.2 | 58 | 66 | 62 |
| 9 | BH - 40721 | 194 | 187 | 191 | 95 | 103 | 99 | 79.1 | 71.7 | 75.4 | 61 | 65 | 63 |
| 10 | BH - 407120 | 187 | 187 | 187 | 91 | 112 | 101 | 75.8 | 75.4 | 75.6 | 57 | 65 | 61 |
| 11 | BH - 407106 | 149 | 163 | 156 | 61 | 75 | 68 | 85.0 | 82.5 | 83.7 | 57 | 65 | 61 |
| 12 | BH - 407132 | 183 | 186 | 185 | 92 | 116 | 104 | 83.5 | 84.2 | 83.8 | 62 | 67 | 64 |
| 13 | BH - 408006 | 186 | 199 | 192 | 90 | 110 | 100 | 78.7 | 80.9 | 79.8 | 60 | 65 | 62 |
| 14 | BH - 407135 | 172 | 181 | 176 | 86 | 104 | 95 | 71.1 | 81.9 | 76.5 | 61 | 65 | 63 |
| 15 | BH - 40710 | 154 | 171 | 162 | 75 | 102 | 89 | 79.1 | 73.4 | 76.2 | 63 | 66 | 64 |
| 16 | BH - 4068 | 163 | 163 | 163 | 70 | 74 | 72 | 83.5 | 77.5 | 80.5 | 64 | 66 | 65 |
| 17 | BH - 40720 | - | 183 | 183 | - | 105 | 105 | - | 75.8 | 75.8 | - | 65 | 65 |
| 18 | KMH -24105 | 195 | 196 | 195 | 91 | 94 | 92 | 83.6 | 78.7 | 81.1 | 58 | 66 | 62 |
| 19 | BH - 40715 | 180 | 202 | 191 | 92 | 123 | 107 | 83.5 | 78.7 | 81.1 | 60 | 66 | 63 |
| 20 | NK - 6240 | 189 | 183 | 186 | 94 | 106 | 100 | 89.3 | 78.6 | 83.9 | 62 | 59 | 60 |
| 21 | 30V92 | 202 | 196 | 199 | 93 | 104 | 99 | 84.6 | 80.0 | 82.3 | 65 | 64 | 65 |
| 22 | Pinackle | 180 | 206 | 193 | 76 | 113 | 95 | 83.0 | 82.5 | 82.8 | 64 | 67 | 65 |
| | Loc. Mean | 169 | 184 | 181 | 81 | 102 | 94 | 77.0 | 78.8 | 79.6 | 58 | 65 | 63 |
| | C.D. (5%) | 30 | 7 | 16 | 24 | 4 | 20 | 4.3 | 0.7 | 7.0 | 6 | 6 | 5 |
| | C.D. (1%) | 40.4 | 9.7 | 22.1 | 32.2 | 5.3 | 26.7 | 5.79 | 0.99 | 9.52 | 8.3 | 8.6 | 6.5 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.10 | 0.0 | 0.8 | 0.5 |

TABLE No.52

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA
IN ZONAL TRIAL No. TR502 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 | | | | | | |
|----------|----------|-------------------------------------|----|------|----|------|----|------|----|--|----|------|------|------|------|--------------|
| | | UDAI | R | BANS | R | GODH | R | CHHI | R | ZN 5 MEAN | R | UDAI | BANS | GODH | CHHI | ZN 5 MEAN |
| 1 | EH-2063 | 4175 | 28 | 3142 | 25 | 3474 | 22 | 4391 | 5 | 3795 | 24 | - | 34.7 | - | - | - |
| 2 | EH-2064 | 5136 | 9 | 3218 | 22 | 2967 | 28 | 4145 | 8 | 3866 | 22 | 9 | 38 | - | - | - |
| 3 | EH-2065 | 6127 | 3 | 3111 | 26 | 3790 | 15 | 3103 | 25 | 4033 | 17 | 30.1 | 33.4 | - | - | - |
| 4 | EH-2066 | 4179 | 27 | 3384 | 18 | 1872 | 29 | 4278 | 7 | 3428 | 29 | - | 45.1 | - | - | - |
| 5 | EH-2067 | 5856 | 4 | 3144 | 24 | 3692 | 17 | 3048 | 26 | 3935 | 21 | 24.3 | 34.8 | - | - | - |
| 6 | EH-2068 | 4612 | 21 | 3910 | 10 | 4528 | 8 | 3780 | 12 | 4208 | 8 | - | 67.6 | - | - | 1.4 |
| 7 | EH-2069 | 4442 | 24 | 3864 | 12 | 4175 | 12 | 3680 | 14 | 4040 | 16 | - | 65.7 | - | - | - |
| 8 | EC-3161 | 5284 | 8 | 3868 | 11 | 4830 | 4 | 3261 | 23 | 4311 | 6 | 12.2 | 65.8 | 6.1 | - | 3.9 |
| 9 | EH-2071 | 4318 | 26 | 3418 | 16 | 3259 | 26 | 3530 | 19 | 3631 | 27 | - | 46.5 | - | - | - |
| 10 | EH-2072 | 4598 | 23 | 4166 | 5 | 4161 | 13 | 4815 | 4 | 4435 | 5 | - | 78.6 | - | - | 6.9 |
| 11 | EH-2073 | 4338 | 25 | 3097 | 27 | 5652 | 2 | 3440 | 20 | 4132 | 11 | - | 32.8 | 24.2 | - | - |
| 12 | EH-2074 | 5477 | 5 | 3675 | 13 | 5790 | 1 | 4337 | 6 | 4820 | 1 | 16.3 | 57.6 | 27.2 | - | 16.1 |
| 13 | EH-2075 | 6264 | 2 | 4215 | 4 | 4537 | 7 | 3374 | 21 | 4597 | 4 | 33 | 80.7 | - | - | 10.8 |
| 14 | EH-2076 | 5345 | 6 | 4306 | 3 | 3903 | 14 | 4909 | 3 | 4616 | 3 | 13.4 | 84.6 | - | - | 11.2 |
| 15 | EH-2077 | 5342 | 7 | 3587 | 15 | 3486 | 21 | 3877 | 10 | 4073 | 13 | 13.4 | 53.8 | - | - | - |
| 16 | EH-2078 | 4599 | 22 | 3967 | 8 | 4754 | 5 | 3646 | 15 | 4241 | 7 | - | 70.1 | 4.4 | - | 2.2 |
| 17 | EH-2080 | 6473 | 1 | 3663 | 14 | 3490 | 20 | 5034 | 1 | 4665 | 2 | 37.4 | 57.1 | - | 0.6 | 12.4 |
| 18 | WH-2051 | 4992 | 13 | 4470 | 2 | 3433 | 24 | 2946 | 27 | 3960 | 19 | 6 | 91.6 | - | - | - |
| 19 | WH-2052 | 5018 | 12 | 3385 | 17 | 3276 | 25 | 3550 | 17 | 3807 | 23 | 6.5 | 45.1 | - | - | - |

TABLE No. 52 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 | | | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|-------|----|--|----|------|------|------|------|--------------|
| | | UDAI | R | BANS | R | GODH | R | CHHI | R | ZN 5 MEAN | R | UDAI | BANS | GODH | CHHI | ZN 5 MEAN |
| 20 | WH-2053 | 4779 | 16 | 4100 | 6 | 3175 | 27 | 2326 | 29 | 3595 | 28 | 1.4 | 75.8 | - | - | - |
| 21 | WH-2054 | 3680 | 29 | 4758 | 1 | 4211 | 11 | 3960 | 9 | 4152 | 9 | - | 104 | - | - | 0.1 |
| 22 | WH-2055 | 4720 | 17 | 3047 | 28 | 4936 | 3 | 3587 | 16 | 4072 | 14 | 0.2 | 30.6 | 8.4 | - | - |
| 23 | WH-2056 | 4783 | 15 | 3948 | 9 | 3496 | 19 | 3542 | 18 | 3942 | 20 | 1.5 | 69.3 | - | - | - |
| 24 | WH-2057 | 5132 | 10 | 3312 | 20 | 3568 | 18 | 2915 | 28 | 3732 | 25 | 8.9 | 42 | - | - | - |
| 25 | WH-2058 | 4821 | 14 | 4010 | 7 | 3773 | 16 | 3331 | 22 | 3984 | 18 | 2.3 | 71.9 | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | |
| 26 | Bio-9637 | 4711 | 18 | 2332 | 29 | 4552 | 6 | 5004 | 2 | 4150 | 10 | - | - | - | - | - |
| 27 | Pratap Makka -5 | 4686 | 20 | 3241 | 21 | 3461 | 23 | 3204 | 24 | 3648 | 26 | - | 38.9 | - | - | - |
| 28 | Malviya hybrid-2 | 4687 | 19 | 3349 | 19 | 4372 | 10 | 3755 | 13 | 4041 | 15 | - | 43.6 | - | - | - |
| 29 | Bio-9681 | 5043 | 11 | 3160 | 23 | 4462 | 9 | 3803 | 11 | 4117 | 12 | 7.1 | 35.5 | - | - | - |
| | Location Mean | 4952 | | 3615 | | 3968 | | 3744 | | 4070 | | | | | | |
| | Mean Stand | 33 | | 30 | | 34 | | 37 | | 33 | | | | | | |
| | C.D. (5%) | 659 | | 441 | | 1335 | | 677 | | 778 | | | | | | |
| | C.V. (%) | 8.13 | | 7.45 | | 20.56 | | 11.06 | | - | | | | | | |
| | F (Prob) | 0 | | 0 | | 0.004 | | 0 | | | | | | | | |
| | Plot Size | 4.8 | | 4.8 | | 4.8 | | 6 | | - | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 16-07 | | 13-07 | | 14-07 | | - | | | | | | |
| | Harvest Date | 2-10 | | 30-10 | | 8-10 | | 22-11 | | - | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | - | | | | | | |
| | Fertilizer Applied N | 90 | | 120 | | 100 | | 120 | | - | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 50 | | 60 | | - | | | | | | |
| | Fertilizer Applied K | - | | - | | 50 | | 40 | | - | | | | | | |

TABLE No. 52 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka -5 | | | | | GRAIN YIELD % SUPERIORITY OVER THE Malviya hybrid-2 | | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9681 | | | | |
|--------|------------------|--|------|------|------|-----------|---|------|------|------|-----------|---|------|------|------|-----------|
| | | UDAI | BANS | GODH | CHHI | ZN 5 MEAN | UDAI | BANS | GODH | CHHI | ZN 5 MEAN | UDAI | BANS | GODH | CHHI | ZN 5 MEAN |
| 1 | EH-2063 | - | - | 0.4 | 37.1 | 4 | - | - | - | 16.9 | - | - | - | - | 15.5 | - |
| 2 | EH-2064 | 9.6 | - | - | 29.4 | 6 | 9.6 | - | - | 10.4 | - | 1.8 | 1.8 | - | 9 | - |
| 3 | EH-2065 | 30.7 | - | 9.5 | - | 10.5 | 30.7 | - | - | - | - | 21.5 | - | - | - | - |
| 4 | EH-2066 | - | 4.4 | - | 33.5 | - | - | 1 | - | 13.9 | - | - | 7.1 | - | 12.5 | - |
| 5 | EH-2067 | 25 | - | 6.7 | - | 7.9 | 24.9 | - | - | - | - | 16.1 | - | - | - | - |
| 6 | EH-2068 | - | 20.7 | 30.8 | 18 | 15.3 | - | 16.7 | 3.6 | 0.7 | 4.1 | - | 23.7 | 1.5 | - | 2.2 |
| 7 | EH-2069 | - | 19.2 | 20.6 | 14.9 | 10.8 | - | 15.4 | - | - | - | - | 22.3 | - | - | - |
| 8 | EC-3161 | 12.8 | 19.3 | 39.6 | 1.8 | 18.2 | 12.7 | 15.5 | 10.5 | - | 6.7 | 4.8 | 22.4 | 8.2 | - | 4.7 |
| 9 | EH-2071 | - | 5.5 | - | 10.2 | - | - | 2.1 | - | - | - | - | 8.2 | - | - | - |
| 10 | EH-2072 | - | 28.6 | 20.2 | 50.3 | 21.6 | - | 24.4 | - | 28.2 | 9.7 | - | 31.8 | - | 26.6 | 7.7 |
| 11 | EH-2073 | - | - | 63.3 | 7.4 | 13.3 | - | - | 29.3 | - | 2.2 | - | - | 26.7 | - | 0.4 |
| 12 | EH-2074 | 16.9 | 13.4 | 67.3 | 35.4 | 32.1 | 16.8 | 9.7 | 32.4 | 15.5 | 19.3 | 8.6 | 16.3 | 29.7 | 14 | 17.1 |
| 13 | EH-2075 | 33.7 | 30 | 31.1 | 5.3 | 26 | 33.6 | 25.8 | 3.8 | - | 13.8 | 24.2 | 33.4 | 1.7 | - | 11.7 |
| 14 | EH-2076 | 14 | 32.9 | 12.8 | 53.2 | 26.5 | 14 | 28.6 | - | 30.7 | 14.2 | 6 | 36.3 | - | 29.1 | 12.1 |
| 15 | EH-2077 | 14 | 10.7 | 0.7 | 21 | 11.7 | 14 | 7.1 | - | 3.3 | 0.8 | 5.9 | 13.5 | - | 2 | - |
| 16 | EH-2078 | - | 22.4 | 37.4 | 13.8 | 16.3 | - | 18.4 | 8.7 | - | 5 | - | 25.5 | 6.5 | - | 3 |
| 17 | EH-2080 | 38.1 | 13 | 0.8 | 57.1 | 27.9 | 38.1 | 9.4 | - | 34.1 | 15.4 | 28.3 | 15.9 | - | 32.4 | 13.3 |
| 18 | WH-2051 | 6.5 | 37.9 | - | - | 8.6 | 6.5 | 33.5 | - | - | - | - | 41.5 | - | - | - |
| 19 | WH-2052 | 7.1 | 4.5 | - | 10.8 | 4.4 | 7.1 | 1.1 | - | - | - | - | 7.1 | - | - | - |
| 20 | WH-2053 | 2 | 26.5 | - | - | - | 1.9 | 22.4 | - | - | - | - | 29.7 | - | - | - |
| 21 | WH-2054 | - | 46.8 | 21.7 | 23.6 | 13.8 | - | 42.1 | - | 5.5 | 2.8 | - | 50.6 | - | 4.1 | 0.9 |
| 22 | WH-2055 | 0.7 | - | 42.6 | 12 | 11.6 | 0.7 | - | 12.9 | - | 0.8 | - | - | 10.6 | - | - |
| 23 | WH-2056 | 2.1 | 21.8 | 1 | 10.6 | 8.1 | 2.1 | 17.9 | - | - | - | - | 24.9 | - | - | - |
| 24 | WH-2057 | 9.5 | 2.2 | 3.1 | - | 2.3 | 9.5 | - | - | - | - | 1.8 | 4.8 | - | - | - |
| 25 | WH-2058 | 2.9 | 23.7 | 9 | 4 | 9.2 | 2.8 | 19.7 | - | - | - | - | 26.9 | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | |
| 26 | Bio-9637 | 0.5 | - | 31.5 | 56.2 | 13.8 | 0.5 | - | 4.1 | 33.3 | 2.7 | - | - | 2 | 31.6 | 0.8 |
| 27 | Pratap Makka -5 | - | - | - | - | - | - | - | - | - | - | - | 2.6 | - | - | - |
| 28 | Malviya hybrid-2 | 0 | 3.4 | 26.3 | 17.2 | 10.8 | - | - | - | - | - | - | 6 | - | - | - |
| 29 | Bio-9681 | 7.6 | - | 28.9 | 18.7 | 12.9 | 7.6 | - | 2.1 | 1.3 | 1.9 | - | - | - | - | - |

TABLE No. 52 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | |
|----------|------------------|-------------------------|------|------|------|--------------|---------------------|------|------|------|--------------|----------------------|------|------|------|--------------|
| | | UDAI | BANS | GODH | CHHI | ZN 5 Mean | UDAI | BANS | GODH | CHHI | ZN 5 Mean | UDAI | BANS | GODH | CHHI | ZN 5 Mean |
| 1 | EH-2063 | 52.7 | 43.0 | 49.3 | 53.3 | 49.6 | 54.7 | 46.3 | 53.7 | 54.3 | 52.3 | 85.3 | 82.7 | 72.7 | 87.0 | 81.9 |
| 2 | EH-2064 | 51.3 | 42.7 | 50.0 | 52.0 | 49.0 | 53.3 | 46.3 | 52.7 | 52.3 | 51.2 | 84.0 | 83.3 | 71.7 | 83.7 | 80.7 |
| 3 | EH-2065 | 53.7 | 44.0 | 50.0 | 52.7 | 50.1 | 56.0 | 47.0 | 53.7 | 54.7 | 52.8 | 85.0 | 84.7 | 73.3 | 82.3 | 81.3 |
| 4 | EH-2066 | 54.7 | 42.0 | 51.0 | 54.0 | 50.4 | 56.7 | 46.0 | 54.3 | 56.3 | 53.3 | 87.7 | 81.7 | 73.7 | 89.3 | 83.1 |
| 5 | EH-2067 | 50.7 | 42.0 | 49.3 | 54.3 | 49.1 | 52.7 | 45.0 | 51.7 | 55.7 | 51.3 | 83.3 | 81.0 | 71.0 | 85.3 | 80.2 |
| 6 | EH-2068 | 49.3 | 41.3 | 45.7 | 51.7 | 47.0 | 51.3 | 44.3 | 48.3 | 51.7 | 48.9 | 82.7 | 82.7 | 67.3 | 83.3 | 79.0 |
| 7 | EH-2069 | 48.7 | 44.3 | 47.0 | 52.3 | 48.1 | 50.7 | 47.7 | 50.3 | 53.3 | 50.5 | 81.7 | 85.7 | 69.3 | 82.3 | 79.8 |
| 8 | EC-3161 | 49.7 | 44.7 | 48.7 | 52.3 | 48.8 | 52.3 | 48.0 | 52.0 | 54.3 | 51.7 | 84.7 | 86.3 | 72.0 | 86.3 | 82.3 |
| 9 | EH-2071 | 49.0 | 49.0 | 49.7 | 51.7 | 49.8 | 51.0 | 52.7 | 54.0 | 53.7 | 52.8 | 82.3 | 86.7 | 73.0 | 82.3 | 81.1 |
| 10 | EH-2072 | 48.3 | 41.7 | 47.7 | 50.7 | 47.1 | 50.3 | 45.0 | 52.3 | 51.0 | 49.7 | 82.0 | 81.3 | 72.3 | 81.7 | 79.3 |
| 11 | EH-2073 | 49.3 | 43.0 | 47.3 | 50.7 | 47.6 | 51.7 | 46.3 | 51.3 | 51.7 | 50.3 | 82.0 | 83.3 | 70.7 | 82.3 | 79.6 |
| 12 | EH-2074 | 53.7 | 43.3 | 54.3 | 54.3 | 51.4 | 55.7 | 47.3 | 58.7 | 56.3 | 54.5 | 86.3 | 82.7 | 76.3 | 85.7 | 82.8 |
| 13 | EH-2075 | 50.3 | 42.7 | 50.7 | 52.3 | 49.0 | 52.7 | 46.0 | 53.3 | 53.7 | 51.4 | 82.3 | 85.0 | 73.3 | 81.7 | 80.6 |
| 14 | EH-2076 | 50.7 | 44.7 | 49.7 | 51.7 | 49.2 | 53.0 | 48.0 | 52.3 | 52.3 | 51.4 | 83.7 | 84.0 | 72.3 | 84.7 | 81.2 |
| 15 | EH-2077 | 50.0 | 43.3 | 50.0 | 51.3 | 48.7 | 52.3 | 46.7 | 53.3 | 52.3 | 51.2 | 83.3 | 83.7 | 72.7 | 84.0 | 80.9 |
| 16 | EH-2078 | 47.0 | 43.0 | 48.3 | 50.7 | 47.3 | 50.7 | 46.3 | 51.0 | 51.7 | 49.9 | 82.3 | 80.3 | 70.7 | 80.0 | 78.3 |
| 17 | EH-2080 | 52.0 | 42.3 | 51.3 | 53.7 | 49.8 | 54.0 | 46.0 | 54.3 | 55.0 | 52.3 | 85.0 | 82.7 | 74.0 | 87.3 | 82.3 |
| 18 | WH-2051 | 52.0 | 44.0 | 50.7 | 53.7 | 50.1 | 54.3 | 47.0 | 54.0 | 55.7 | 52.8 | 85.0 | 85.7 | 74.0 | 86.7 | 82.8 |
| 19 | WH-2052 | 50.3 | 47.7 | 51.3 | 53.3 | 50.7 | 53.3 | 50.7 | 53.7 | 54.7 | 53.1 | 84.7 | 85.7 | 72.3 | 86.0 | 82.2 |
| 20 | WH-2053 | 54.0 | 44.0 | 50.7 | 54.0 | 50.7 | 56.3 | 47.3 | 54.0 | 56.0 | 53.4 | 86.0 | 83.3 | 74.0 | 84.7 | 82.0 |
| 21 | WH-2054 | 51.7 | 43.0 | 50.3 | 53.3 | 49.6 | 53.7 | 46.3 | 53.0 | 54.3 | 51.8 | 85.0 | 83.3 | 72.3 | 85.3 | 81.5 |
| 22 | WH-2055 | 49.7 | 43.3 | 48.3 | 52.7 | 48.5 | 51.7 | 46.7 | 52.0 | 53.7 | 51.0 | 82.0 | 84.3 | 72.3 | 84.3 | 80.8 |
| 23 | WH-2056 | 50.3 | 42.7 | 48.3 | 51.3 | 48.2 | 52.3 | 45.7 | 50.7 | 53.3 | 50.5 | 83.0 | 82.0 | 70.3 | 84.7 | 80.0 |
| 24 | WH-2057 | 50.0 | 46.3 | 49.0 | 54.0 | 49.8 | 52.3 | 50.0 | 52.7 | 55.7 | 52.7 | 83.3 | 88.0 | 71.7 | 85.0 | 82.0 |
| 25 | WH-2058 | 50.7 | 47.3 | 50.7 | 52.0 | 50.2 | 52.7 | 50.7 | 52.3 | 54.0 | 52.4 | 85.3 | 84.3 | 72.0 | 85.0 | 81.7 |
| CHECKS | | | | | | | | | | | | | | | | |
| 26 | Bio-9637 | 52.7 | 47.3 | 50.3 | 54.3 | 51.2 | 54.7 | 50.7 | 54.0 | 55.7 | 53.8 | 84.7 | 86.0 | 72.3 | 87.7 | 82.7 |
| 27 | Pratap Makka -5 | 49.0 | 48.3 | 47.3 | 50.7 | 48.8 | 51.0 | 51.3 | 51.7 | 51.0 | 51.3 | 82.7 | 86.0 | 70.3 | 81.0 | 80.0 |
| 28 | Malviya hybrid-2 | 49.7 | 44.7 | 49.7 | 51.7 | 48.9 | 52.3 | 47.7 | 53.0 | 53.7 | 51.7 | 84.0 | 84.3 | 72.0 | 83.0 | 80.8 |
| 29 | Bio-9681 | 53.5 | 48.3 | 49.0 | 53.7 | 51.1 | 55.5 | 51.7 | 51.3 | 54.3 | 53.2 | 85.0 | 86.3 | 70.3 | 86.3 | 82.0 |
| | Loc. Mean | 50.8 | 44.3 | 49.5 | 52.6 | 49.3 | 53.1 | 47.6 | 52.7 | 53.9 | 51.8 | 83.9 | 84.0 | 72.1 | 84.4 | 81.1 |
| | C.D. (5%) | 2.44 | 2.38 | 4.13 | 0.93 | 2.14 | 2.26 | 2.50 | 4.17 | 0.90 | 2.14 | 3.05 | 2.41 | 4.13 | 2.75 | 2.23 |
| | C.V. (%) | 2.93 | 3.28 | 5.10 | 1.08 | 3.09 | 2.60 | 3.21 | 4.83 | 1.02 | 2.93 | 2.22 | 1.75 | 3.51 | 1.99 | 1.95 |
| | F (Prob.) | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.01 | 0.00 | 0.16 | 0.00 | 0.00 |

TABLE No. 52 (Cont..)

| Sl No | PEDIGREE | MOISTURE % AT HARVEST | | | | ZN 5 Mean | PLANT HEIGHT(cm) | | | | ZN 5 Mean | EAR HEIGHT(cm) | | | | ZN 5 Mean |
|----------|------------------|-----------------------|------|------|------|--------------|------------------|------|------|------|--------------|----------------|------|------|------|--------------|
| | | UDAI | BANS | GODH | CHHI | | UDAI | BANS | GODH | CHHI | | UDAI | BANS | GODH | CHHI | |
| 1 | EH-2063 | 22.0 | 16.1 | 37.3 | 12.1 | 21.9 | 188 | 190 | 153 | 180 | 178 | 88 | 77 | 70 | 81 | 79 |
| 2 | EH-2064 | 22.6 | 17.0 | 36.5 | 13.0 | 22.3 | 182 | 164 | 158 | 198 | 175 | 90 | 66 | 75 | 106 | 84 |
| 3 | EH-2065 | 19.7 | 16.7 | 38.9 | 12.7 | 22.0 | 180 | 168 | 153 | 194 | 174 | 78 | 83 | 71 | 100 | 83 |
| 4 | EH-2066 | 22.6 | 17.0 | 36.9 | 14.9 | 22.8 | 218 | 185 | 157 | 211 | 193 | 105 | 75 | 73 | 102 | 89 |
| 5 | EH-2067 | 20.2 | 16.6 | 27.2 | 13.1 | 19.3 | 178 | 170 | 160 | 187 | 174 | 83 | 72 | 78 | 93 | 82 |
| 6 | EH-2068 | 18.2 | 16.9 | 36.3 | 11.0 | 20.6 | 198 | 182 | 171 | 197 | 187 | 93 | 84 | 86 | 87 | 88 |
| 7 | EH-2069 | 17.7 | 16.1 | 35.9 | 12.1 | 20.4 | 202 | 184 | 166 | 191 | 186 | 105 | 83 | 84 | 107 | 95 |
| 8 | EC-3161 | 18.5 | 16.9 | 38.9 | 12.3 | 21.6 | 178 | 180 | 174 | 183 | 179 | 87 | 75 | 88 | 98 | 87 |
| 9 | EH-2071 | 22.4 | 16.3 | 27.7 | 11.5 | 19.5 | 165 | 181 | 159 | 185 | 172 | 82 | 75 | 77 | 81 | 79 |
| 10 | EH-2072 | 21.0 | 16.6 | 18.1 | 12.1 | 16.9 | 173 | 192 | 152 | 192 | 177 | 77 | 81 | 78 | 86 | 80 |
| 11 | EH-2073 | 20.0 | 16.9 | 35.9 | 12.9 | 21.4 | 183 | 181 | 158 | 182 | 176 | 85 | 78 | 66 | 85 | 79 |
| 12 | EH-2074 | 20.6 | 17.0 | 36.5 | 13.1 | 21.8 | 212 | 180 | 177 | 204 | 193 | 93 | 76 | 82 | 118 | 92 |
| 13 | EH-2075 | 22.9 | 17.1 | 35.9 | 13.2 | 22.3 | 178 | 175 | 159 | 186 | 174 | 85 | 69 | 73 | 85 | 78 |
| 14 | EH-2076 | 19.0 | 17.2 | 35.4 | 12.0 | 20.9 | 210 | 181 | 188 | 222 | 200 | 105 | 83 | 95 | 113 | 99 |
| 15 | EH-2077 | 20.0 | 17.0 | 38.4 | 11.5 | 21.7 | 197 | 174 | 175 | 193 | 185 | 87 | 76 | 88 | 96 | 87 |
| 16 | EH-2078 | 19.3 | 16.5 | 21.7 | 12.0 | 17.4 | 162 | 191 | 177 | 187 | 179 | 93 | 81 | 88 | 93 | 89 |
| 17 | EH-2080 | 21.7 | 16.9 | 38.2 | 14.0 | 22.7 | 227 | 182 | 168 | 225 | 200 | 113 | 80 | 81 | 119 | 98 |
| 18 | WH-2051 | 22.2 | 16.8 | 37.2 | 11.8 | 22.0 | 175 | 189 | 166 | 182 | 178 | 78 | 75 | 84 | 109 | 87 |
| 19 | WH-2052 | 20.9 | 16.8 | 34.9 | 14.5 | 21.8 | 200 | 178 | 168 | 183 | 182 | 95 | 83 | 88 | 100 | 92 |
| 20 | WH-2053 | 20.6 | 17.0 | 37.5 | 12.6 | 21.9 | 197 | 169 | 167 | 185 | 179 | 98 | 71 | 82 | 97 | 87 |
| 21 | WH-2054 | 21.1 | 17.0 | 38.1 | 12.7 | 22.2 | 187 | 181 | 171 | 205 | 186 | 83 | 80 | 83 | 107 | 88 |
| 22 | WH-2055 | 20.4 | 16.2 | 35.4 | 11.9 | 21.0 | 192 | 172 | 161 | 167 | 173 | 87 | 69 | 81 | 82 | 79 |
| 23 | WH-2056 | 21.1 | 16.7 | 37.4 | 12.3 | 21.9 | 228 | 177 | 165 | 187 | 189 | 102 | 69 | 81 | 97 | 87 |
| 24 | WH-2057 | 20.6 | 17.0 | 21.7 | 13.1 | 18.1 | 200 | 187 | 166 | 194 | 187 | 98 | 84 | 79 | 98 | 90 |
| 25 | WH-2058 | 21.4 | 16.3 | 38.2 | 12.8 | 22.2 | 192 | 166 | 168 | 187 | 178 | 93 | 64 | 85 | 87 | 82 |
| CHECKS | | | | | | | | | | | | | | | | |
| 26 | Bio-9637 | 20.7 | 16.8 | 38.5 | 13.5 | 22.4 | 207 | 183 | 180 | 203 | 193 | 100 | 78 | 93 | 104 | 94 |
| 27 | Pratap Makka -5 | 20.6 | 17.0 | 33.0 | 11.6 | 20.5 | 198 | 182 | 157 | 186 | 181 | 93 | 76 | 75 | 95 | 85 |
| 28 | Malviya hybrid-2 | 20.8 | 17.1 | 38.5 | 12.4 | 22.2 | 173 | 188 | 166 | 195 | 181 | 88 | 82 | 80 | 80 | 83 |
| 29 | Bio-9681 | 20.2 | 16.9 | 36.5 | 12.3 | 21.5 | 200 | 181 | 170 | 192 | 186 | 98 | 74 | 75 | 88 | 84 |
| | Loc. Mean | 20.6 | 16.7 | 34.6 | 12.6 | 21.1 | 192 | 180 | 166 | 192 | 183 | 92 | 77 | 81 | 96 | 86 |
| | C.D. (5%) | 2.36 | 0.39 | - | 1.02 | 4.04 | 28.5 | 7.8 | 22.4 | 21.2 | 14.7 | 14.1 | 5.2 | 18.5 | 19.0 | 10.0 |
| | C.V. (%) | 7.00 | 1.44 | - | 4.98 | 13.60 | 9.1 | 2.6 | 8.3 | 6.7 | 5.7 | 9.4 | 4.2 | 14.0 | 12.0 | 8.2 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |

TABLE No. 52 (Cont..)

| Sl No | PEDIGREE | GRAIN SHELLING % | | | | ZN 5 Mean | STAND AT HARVEST ('000/ha) | | | | ZN 5 Mean |
|----------|------------------|------------------|------|------|------|--------------|----------------------------|------|------|------|--------------|
| | | UDAI | BANS | GODH | CHHI | | UDAI | BANS | GODH | CHHI | |
| 1 | EH-2063 | 82.6 | 66.8 | 79.0 | 84.5 | 78.2 | 73 | 62 | 75 | 63 | 68 |
| 2 | EH-2064 | 82.5 | 64.8 | 77.3 | 87.2 | 77.9 | 72 | 61 | 74 | 58 | 66 |
| 3 | EH-2065 | 92.1 | 66.8 | 76.4 | 78.8 | 78.5 | 72 | 63 | 66 | 63 | 66 |
| 4 | EH-2066 | 78.3 | 70.3 | 76.5 | 80.3 | 76.4 | 64 | 60 | 76 | 65 | 66 |
| 5 | EH-2067 | 82.2 | 67.3 | 78.2 | 87.8 | 78.9 | 69 | 62 | 67 | 53 | 63 |
| 6 | EH-2068 | 83.8 | 70.6 | 79.4 | 90.1 | 81.0 | 60 | 65 | 70 | 56 | 63 |
| 7 | EH-2069 | 81.2 | 66.5 | 78.8 | 81.7 | 77.0 | 71 | 59 | 76 | 61 | 67 |
| 8 | EC-3161 | 81.2 | 65.3 | 77.5 | 84.0 | 77.0 | 70 | 60 | 67 | 68 | 66 |
| 9 | EH-2071 | 82.7 | 63.7 | 78.1 | 85.6 | 77.5 | 69 | 62 | 73 | 67 | 68 |
| 10 | EH-2072 | 83.8 | 69.2 | 80.8 | 85.7 | 79.9 | 67 | 63 | 72 | 61 | 66 |
| 11 | EH-2073 | 81.4 | 65.8 | 78.9 | 83.5 | 77.4 | 74 | 63 | 60 | 68 | 66 |
| 12 | EH-2074 | 81.4 | 65.6 | 79.0 | 83.6 | 77.4 | 69 | 63 | 58 | 59 | 62 |
| 13 | EH-2075 | 88.9 | 67.9 | 77.7 | 86.0 | 80.1 | 76 | 63 | 77 | 69 | 71 |
| 14 | EH-2076 | 78.9 | 70.6 | 79.4 | 84.2 | 78.3 | 72 | 65 | 74 | 66 | 69 |
| 15 | EH-2077 | 84.1 | 67.5 | 77.0 | 84.6 | 78.3 | 73 | 62 | 69 | 67 | 68 |
| 16 | EH-2078 | 80.8 | 65.8 | 79.1 | 85.1 | 77.7 | 68 | 63 | 81 | 62 | 69 |
| 17 | EH-2080 | 87.0 | 66.5 | 78.4 | 84.1 | 79.0 | 75 | 59 | 79 | 68 | 70 |
| 18 | WH-2051 | 81.8 | 69.3 | 77.2 | 76.6 | 76.2 | 58 | 63 | 68 | 67 | 64 |
| 19 | WH-2052 | 82.8 | 62.8 | 74.1 | 87.6 | 76.8 | 61 | 63 | 76 | 68 | 67 |
| 20 | WH-2053 | 80.4 | 69.3 | 80.8 | 86.7 | 79.3 | 55 | 63 | 73 | 68 | 65 |
| 21 | WH-2054 | 82.1 | 71.3 | 81.0 | 86.0 | 80.1 | 65 | 66 | 76 | 59 | 67 |
| 22 | WH-2055 | 82.0 | 64.5 | 81.9 | 85.3 | 78.4 | 67 | 59 | 72 | 68 | 67 |
| 23 | WH-2056 | 83.8 | 66.6 | 77.4 | 83.8 | 77.9 | 73 | 63 | 75 | 70 | 70 |
| 24 | WH-2057 | 85.0 | 69.3 | 78.0 | 81.0 | 78.3 | 75 | 61 | 78 | 65 | 70 |
| 25 | WH-2058 | 85.5 | 66.0 | 78.3 | 83.6 | 78.4 | 65 | 65 | 78 | 66 | 68 |
| CHECKS | | | | | | | | | | | |
| 26 | Bio-9637 | 82.7 | 63.0 | 77.8 | 79.7 | 75.8 | 65 | 58 | 40 | 26 | 47 |
| 27 | Pratap Makka -5 | 83.8 | 67.8 | 75.4 | 84.9 | 78.0 | 68 | 60 | 67 | 60 | 64 |
| 28 | Malviya hybrid-2 | 84.8 | 64.8 | 75.8 | 84.2 | 77.4 | 69 | 60 | 69 | 63 | 65 |
| 29 | Bio-9681 | 81.8 | 63.0 | 81.0 | 82.4 | 77.0 | 74 | 60 | 65 | 55 | 63 |
| | Loc. Mean | 83.1 | 66.8 | 78.3 | 84.1 | 78.1 | 69 | 62 | 71 | 62 | 66 |
| | C.D. (5%) | 3.93 | 1.95 | - | 3.34 | 3.54 | 6.9 | 3.6 | 13.5 | 9.2 | 7.9 |
| | C.V. (%) | 2.89 | 1.79 | - | 2.43 | 3.23 | 6.1 | 3.5 | 11.7 | 9.0 | 8.6 |
| | F (Prob.) | 0.00 | 0.00 | - | 0.00 | 0.56 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE No.53

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA
IN ZONAL TRIAL No. TR503 DURING KHARIF (2008).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Pratap Hybrid Maize-1 | | | | GRAIN YIELD % SUPERIORITY OVER THE PEHM-2 | | | |
|----------------------|-----------------------|-------------------------------------|----|-------|----|-------|----|------|----|---|------|-------|------|--|------|------|------|
| | | UDAI | R | BANS | R | CHHI | R | MEAN | R | UDAI | BANS | CHHI | MEAN | UDAI | BANS | CHHI | MEAN |
| 1 | EH-2082 | 7173 | 6 | 2922 | 20 | 3656 | 7 | 4583 | 9 | 23.8 | 11.5 | 30.7 | 22.7 | 18.1 | 3.4 | 37.5 | 18.9 |
| 2 | EH-2083 | 6863 | 10 | 3090 | 19 | 3269 | 10 | 4407 | 13 | 18.4 | 18 | 16.9 | 17.9 | 13 | 9.3 | 23 | 14.4 |
| 3 | EH-2084 | 7859 | 2 | 4659 | 4 | 4331 | 3 | 5617 | 3 | 35.6 | 77.9 | 54.9 | 50.3 | 29.4 | 64.8 | 62.9 | 45.8 |
| 4 | EH-2085 | 4892 | 23 | 4137 | 8 | 4296 | 5 | 4442 | 12 | - | 57.9 | 53.6 | 18.9 | - | 46.3 | 61.6 | 15.3 |
| 5 | EH-2086 | 6408 | 13 | 3952 | 11 | 2321 | 21 | 4227 | 17 | 10.6 | 50.8 | - | 13.1 | 5.5 | 39.8 | - | 9.7 |
| 6 | EH-2087 | 7101 | 7 | 4924 | 1 | 3325 | 9 | 5117 | 5 | 22.6 | 88 | 18.9 | 36.9 | 16.9 | 74.2 | 25.1 | 32.8 |
| 7 | EH-2088 | 6474 | 12 | 3613 | 14 | 3121 | 12 | 4403 | 15 | 11.7 | 37.9 | 11.6 | 17.8 | 6.6 | 27.8 | 17.4 | 14.3 |
| 8 | EH-2089 | 7840 | 3 | 4128 | 9 | 3068 | 13 | 5012 | 6 | 35.3 | 57.6 | 9.7 | 34.1 | 29.1 | 46 | 15.5 | 30.1 |
| 9 | EH-2090 | 5890 | 18 | 2833 | 21 | 2304 | 22 | 3676 | 23 | 1.7 | 8.1 | - | - | - | 0.2 | - | - |
| 10 | EH-2091 | 7238 | 5 | 3123 | 18 | 3035 | 14 | 4465 | 11 | 24.9 | 19.2 | 8.5 | 19.5 | 19.1 | 10.5 | 14.2 | 15.9 |
| 11 | EH-2092 | 8146 | 1 | 4034 | 10 | 4721 | 2 | 5633 | 2 | 40.6 | 54 | 68.8 | 50.8 | 34.1 | 42.7 | 77.6 | 46.2 |
| 12 | EH-2093 | 6267 | 14 | 3820 | 13 | 4317 | 4 | 4801 | 8 | 8.2 | 45.8 | 54.4 | 28.5 | 3.2 | 35.1 | 62.4 | 24.6 |
| 13 | EH-2094 | 6995 | 9 | 4688 | 2 | 6166 | 1 | 5950 | 1 | 20.7 | 78.9 | 120.5 | 59.2 | 15.1 | 65.8 | 132 | 54.4 |
| 14 | GWH-9902 | 6071 | 16 | 3247 | 17 | 2799 | 18 | 4039 | 18 | 4.8 | 23.9 | 0.1 | 8.1 | - | 14.9 | 5.3 | 4.8 |
| 15 | GWH-0330 | 5127 | 21 | 4145 | 7 | 2267 | 23 | 3846 | 20 | - | 58.2 | - | 2.9 | - | 46.6 | - | - |
| 16 | GWH-0332 | 5586 | 20 | 4254 | 5 | 3368 | 8 | 4403 | 14 | - | 62.4 | 20.5 | 17.8 | - | 50.5 | 26.7 | 14.3 |
| 17 | GYH-9842 | 5924 | 17 | 3591 | 15 | 3181 | 11 | 4232 | 16 | 2.2 | 37.1 | 13.7 | 13.3 | - | 27.1 | 19.7 | 9.8 |
| 18 | GYH-0370 | 4990 | 22 | 3473 | 16 | 3020 | 15 | 3828 | 21 | - | 32.6 | 8 | 2.4 | - | 22.9 | 13.6 | - |
| 19 | GYH-0653 | 7359 | 4 | 4150 | 6 | 4034 | 6 | 5181 | 4 | 27 | 58.4 | 44.2 | 38.6 | 21.1 | 46.8 | 51.8 | 34.5 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 20 | Pratap Hybrid Maize-1 | 5794 | 19 | 2620 | 23 | 2796 | 19 | 3737 | 22 | - | - | - | - | - | - | 5.2 | - |
| 21 | PEHM-2 | 6075 | 15 | 2827 | 22 | 2658 | 20 | 3853 | 19 | 4.8 | 7.9 | - | 3.1 | - | - | - | - |
| 22 | Pratap Makka-3 | 6808 | 11 | 3831 | 12 | 3003 | 16 | 4548 | 10 | 17.5 | 46.2 | 7.4 | 21.7 | 12.1 | 35.5 | 13 | 18 |
| 23 | Prakash | 7060 | 8 | 4683 | 3 | 2800 | 17 | 4848 | 7 | 21.8 | 78.8 | 0.1 | 29.7 | 16.2 | 65.7 | 5.3 | 25.8 |
| Location Mean | | 6519 | | 3771 | | 3385 | | 4559 | | | | | | | | | |
| Mean Stand | | 35 | | 30 | | 40 | | 35 | | | | | | | | | |
| C.D. (5%) | | 498 | | 332 | | 439 | | 423 | | | | | | | | | |
| C.V. (%) | | 4.64 | | 5.35 | | 7.87 | | - | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | - | | | | | | | | | |
| Plot Size | | 4.8 | | 4.8 | | 6 | | - | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| Sowing Date | | 24-06 | | 8-07 | | 14-07 | | - | | | | | | | | | |
| Harvest Date | | 2-10 | | 23-10 | | 9-11 | | - | | | | | | | | | |
| Irrigation Nos | | 2 | | 2 | | - | | - | | | | | | | | | |
| Fertilizer Applied N | | 90 | | 90 | | 120 | | - | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 40 | | 60 | | - | | | | | | | | | |
| Fertilizer Applied K | | - | | - | | 40 | | - | | | | | | | | | |

TABLE No. 53 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka-3 | | | | GRAIN YIELD % SUPERIORITY OVER THE Prakash | | | | DAYS TO 50% POLLEN SHED | | | |
|--------|-----------------------|---|------|-------|-----------|--|------|-------|-----------|-------------------------|------|------|-----------|
| | | UDAI | BANS | CHHI | ZN 5 MEAN | UDAI | BANS | CHHI | ZN 5 MEAN | UDAI | BANS | CHHI | ZN 5 Mean |
| 1 | EH-2082 | 5.3 | - | 21.7 | 0.8 | 1.6 | - | 30.6 | - | 47.7 | 47.0 | 50.7 | 48.4 |
| 2 | EH-2083 | 0.8 | - | 8.8 | - | - | - | 16.8 | - | 47.7 | 46.7 | 52.0 | 48.8 |
| 3 | EH-2084 | 15.4 | 21.6 | 44.2 | 23.5 | 11.3 | - | 54.7 | 15.9 | 49.0 | 50.7 | 52.3 | 50.7 |
| 4 | EH-2085 | - | 8 | 43.1 | - | - | - | 53.5 | - | 51.3 | 49.7 | 52.7 | 51.2 |
| 5 | EH-2086 | - | 3.1 | - | - | - | - | - | - | 45.0 | 46.3 | 50.7 | 47.3 |
| 6 | EH-2087 | 4.3 | 28.5 | 10.7 | 12.5 | 0.6 | 5.1 | 18.8 | 5.6 | 48.0 | 48.0 | 52.3 | 49.4 |
| 7 | EH-2088 | - | - | 3.9 | - | - | - | 11.5 | - | 47.7 | 48.0 | 52.0 | 49.2 |
| 8 | EH-2089 | 15.1 | 7.8 | 2.2 | 10.2 | 11 | - | 9.6 | 3.4 | 48.3 | 47.0 | 50.3 | 48.6 |
| 9 | EH-2090 | - | - | - | - | - | - | - | - | 48.7 | 47.0 | 52.3 | 49.3 |
| 10 | EH-2091 | 6.3 | - | 1.1 | - | 2.5 | - | 8.4 | - | 46.7 | 42.7 | 48.7 | 46.0 |
| 11 | EH-2092 | 19.6 | 5.3 | 57.2 | 23.9 | 15.4 | - | 68.6 | 16.2 | 53.7 | 45.7 | 53.3 | 50.9 |
| 12 | EH-2093 | - | - | 43.8 | 5.6 | - | - | 54.2 | - | 53.0 | 48.7 | 53.7 | 51.8 |
| 13 | EH-2094 | 2.7 | 22.4 | 105.3 | 30.8 | - | 0.1 | 120.2 | 22.7 | 51.3 | 46.3 | 56.0 | 51.2 |
| 14 | GWH-9902 | - | - | - | - | - | - | - | - | 48.7 | 45.0 | 52.7 | 48.8 |
| 15 | GWH-0330 | - | 8.2 | - | - | - | - | - | - | 49.3 | 47.0 | 51.7 | 49.3 |
| 16 | GWH-0332 | - | 11 | 12.2 | - | - | - | 20.3 | - | 49.0 | 47.0 | 50.7 | 48.9 |
| 17 | GYH-9842 | - | - | 5.9 | - | - | - | 13.6 | - | 48.0 | 50.3 | 52.3 | 50.2 |
| 18 | GYH-0370 | - | - | 0.6 | - | - | - | 7.9 | - | 49.7 | 49.3 | 52.7 | 50.6 |
| 19 | GYH-0653 | 8.1 | 8.3 | 34.3 | 13.9 | 4.2 | - | 44.1 | 6.9 | 49.3 | 50.0 | 51.7 | 50.3 |
| CHECKS | | | | | | | | | | | | | |
| 20 | Pratap Hybrid Maize-1 | - | - | - | - | - | - | - | - | 47.7 | 47.3 | 51.3 | 48.8 |
| 21 | PEHM-2 | - | - | - | - | - | - | - | - | 50.7 | 44.0 | 54.0 | 49.6 |
| 22 | Pratap Makka-3 | - | - | - | - | - | - | 7.3 | - | 47.0 | 43.0 | 49.7 | 46.6 |
| 23 | Prakash | 3.7 | 22.2 | - | 6.6 | - | - | - | - | 49.3 | 45.0 | 50.0 | 48.1 |
| | Loc. Mean | | | | | | | | | 49.0 | 47.0 | 51.9 | 49.3 |
| | C.D. (5%) | | | | | | | | | 1.55 | 1.35 | 1.44 | 2.55 |
| | C.V. (%) | | | | | | | | | 1.92 | 1.75 | 1.68 | 3.15 |
| | F (Prob.) | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 53 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% SILKING | | | | DAYS TO 75% DRY HUSK | | | | MOISTURE % AT HARVEST | | | |
|----------|-----------------------|---------------------|------|------|--------------|----------------------|------|------|--------------|-----------------------|------|------|--------------|
| | | UDAI | BANS | CHHI | ZN 5 Mean | UDAI | BANS | CHHI | ZN 5 Mean | UDAI | BANS | CHHI | ZN 5 Mean |
| 1 | EH-2082 | 50.0 | 50.0 | 51.7 | 50.6 | 81.7 | 80.7 | 84.7 | 82.3 | 21.5 | 16.6 | 13.6 | 17.2 |
| 2 | EH-2083 | 50.0 | 49.7 | 53.3 | 51.0 | 82.7 | 78.0 | 83.3 | 81.3 | 20.4 | 15.9 | 19.7 | 18.7 |
| 3 | EH-2084 | 51.0 | 54.0 | 53.0 | 52.7 | 82.7 | 84.7 | 85.3 | 84.2 | 20.3 | 16.1 | 16.5 | 17.6 |
| 4 | EH-2085 | 54.0 | 53.0 | 54.0 | 53.7 | 84.7 | 82.7 | 82.7 | 83.3 | 20.4 | 16.0 | 13.6 | 16.6 |
| 5 | EH-2086 | 45.0 | 50.0 | 50.7 | 48.6 | 80.3 | 81.0 | 79.7 | 80.3 | 14.4 | 15.5 | 12.5 | 14.1 |
| 6 | EH-2087 | 50.0 | 51.3 | 52.3 | 51.2 | 81.7 | 81.3 | 82.7 | 81.9 | 20.0 | 16.2 | 15.0 | 17.0 |
| 7 | EH-2088 | 49.7 | 51.0 | 52.7 | 51.1 | 82.0 | 80.3 | 80.7 | 81.0 | 14.2 | 15.5 | 13.7 | 14.4 |
| 8 | EH-2089 | 51.0 | 50.0 | 50.7 | 50.6 | 82.3 | 81.7 | 80.3 | 81.4 | 19.5 | 15.8 | 14.4 | 16.6 |
| 9 | EH-2090 | 51.0 | 50.3 | 53.0 | 51.4 | 82.7 | 81.0 | 81.7 | 81.8 | 19.9 | 15.6 | 13.4 | 16.3 |
| 10 | EH-2091 | 49.0 | 46.3 | 49.3 | 48.2 | 80.7 | 75.3 | 78.7 | 78.2 | 15.7 | 16.0 | 13.0 | 14.9 |
| 11 | EH-2092 | 55.7 | 48.7 | 54.0 | 52.8 | 88.7 | 81.0 | 87.3 | 85.7 | 21.2 | 15.9 | 15.4 | 17.5 |
| 12 | EH-2093 | 55.7 | 52.0 | 54.0 | 53.9 | 85.0 | 82.3 | 85.7 | 84.3 | 20.4 | 16.2 | 17.7 | 18.1 |
| 13 | EH-2094 | 53.7 | 49.3 | 56.7 | 53.2 | 87.0 | 79.0 | 87.7 | 84.6 | 20.1 | 16.0 | 17.5 | 17.9 |
| 14 | GWH-9902 | 52.3 | 48.0 | 53.7 | 51.3 | 84.0 | 76.7 | 81.7 | 80.8 | 20.5 | 15.9 | 15.1 | 17.2 |
| 15 | GWH-0330 | 52.7 | 50.3 | 52.7 | 51.9 | 85.3 | 81.3 | 78.7 | 81.8 | 17.2 | 16.0 | 12.7 | 15.3 |
| 16 | GWH-0332 | 51.3 | 50.0 | 51.7 | 51.0 | 83.7 | 79.3 | 78.7 | 80.6 | 19.6 | 16.0 | 14.5 | 16.7 |
| 17 | GYH-9842 | 50.0 | 53.3 | 53.3 | 52.2 | 81.7 | 83.7 | 82.3 | 82.6 | 19.5 | 15.4 | 13.0 | 16.0 |
| 18 | GYH-0370 | 51.7 | 53.0 | 53.7 | 52.8 | 82.7 | 83.0 | 82.0 | 82.6 | 20.3 | 15.6 | 14.8 | 16.9 |
| 19 | GYH-0653 | 52.0 | 53.3 | 52.7 | 52.7 | 85.7 | 83.3 | 81.7 | 83.6 | 21.3 | 15.9 | 14.1 | 17.1 |
| CHECKS | | | | | | | | | | | | | |
| 20 | Pratap Hybrid Maize-1 | 50.0 | 50.3 | 52.7 | 51.0 | 82.7 | 81.0 | 79.7 | 81.1 | 22.2 | 16.4 | 12.5 | 17.0 |
| 21 | PEHM-2 | 53.7 | 47.0 | 55.7 | 52.1 | 85.0 | 76.0 | 85.7 | 82.2 | 18.1 | 15.5 | 16.1 | 16.6 |
| 22 | Pratap Makka-3 | 49.7 | 46.7 | 51.0 | 49.1 | 82.3 | 76.0 | 80.0 | 79.4 | 20.5 | 16.1 | 15.9 | 17.5 |
| 23 | Prakash | 51.3 | 48.0 | 51.0 | 50.1 | 83.7 | 81.3 | 80.3 | 81.8 | 15.8 | 15.6 | 14.0 | 15.1 |
| | Loc. Mean | 51.3 | 50.2 | 52.8 | 51.4 | 83.4 | 80.5 | 82.2 | 82.0 | 19.2 | 15.9 | 14.7 | 16.6 |
| | C.D. (5%) | 2.00 | 1.41 | 1.57 | 2.88 | 2.57 | 2.05 | 1.56 | 3.54 | 0.30 | 0.35 | 1.35 | 2.46 |
| | C.V. (%) | 2.37 | 1.71 | 1.81 | 3.40 | 1.87 | 1.55 | 1.15 | 2.62 | 0.95 | 1.33 | 5.58 | 9.01 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.04 |

TABLE No. 53 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | | GRAIN SHELLING % | | | | STAND AT HARVEST ('000/ha) | | | |
|--------|-----------------------|------------------|------|------|-----------|----------------|------|------|-----------|------------------|------|------|-----------|----------------------------|------|------|-----------|
| | | UDAI | BANS | CHHI | ZN 5 Mean | UDAI | BANS | CHHI | ZN 5 Mean | UDAI | BANS | CHHI | ZN 5 Mean | UDAI | BANS | CHHI | ZN 5 Mean |
| 1 | EH-2082 | 222 | 189 | 203 | 204 | 110 | 82 | 94 | 95 | 81.4 | 62.2 | 83.6 | 75.7 | 76 | 63 | 67 | 69 |
| 2 | EH-2083 | 200 | 169 | 188 | 186 | 102 | 89 | 101 | 97 | 79.1 | 66.3 | 81.3 | 75.5 | 82 | 62 | 64 | 69 |
| 3 | EH-2084 | 202 | 171 | 187 | 186 | 103 | 60 | 91 | 85 | 88.0 | 72.3 | 81.1 | 80.5 | 77 | 63 | 67 | 69 |
| 4 | EH-2085 | 212 | 161 | 187 | 187 | 113 | 80 | 109 | 101 | 71.0 | 68.3 | 81.0 | 73.4 | 76 | 65 | 70 | 70 |
| 5 | EH-2086 | 195 | 183 | 182 | 187 | 85 | 95 | 96 | 92 | 84.8 | 64.0 | 79.3 | 76.0 | 73 | 61 | 69 | 68 |
| 6 | EH-2087 | 197 | 180 | 190 | 189 | 95 | 79 | 102 | 92 | 82.9 | 76.9 | 83.0 | 80.9 | 76 | 65 | 67 | 69 |
| 7 | EH-2088 | 202 | 175 | 198 | 192 | 87 | 82 | 100 | 90 | 83.0 | 65.8 | 82.9 | 77.2 | 71 | 62 | 66 | 66 |
| 8 | EH-2089 | 208 | 169 | 200 | 193 | 113 | 78 | 101 | 98 | 87.9 | 65.9 | 83.1 | 78.9 | 74 | 63 | 68 | 68 |
| 9 | EH-2090 | 202 | 175 | 192 | 189 | 98 | 76 | 83 | 86 | 81.0 | 64.4 | 80.5 | 75.3 | 76 | 60 | 66 | 67 |
| 10 | EH-2091 | 213 | 190 | 177 | 193 | 110 | 96 | 73 | 93 | 78.2 | 71.1 | 84.0 | 77.8 | 75 | 64 | 68 | 69 |
| 11 | EH-2092 | 208 | 174 | 174 | 186 | 97 | 69 | 72 | 79 | 81.9 | 68.8 | 80.4 | 77.0 | 77 | 63 | 69 | 69 |
| 12 | EH-2093 | 200 | 188 | 185 | 191 | 97 | 84 | 95 | 92 | 76.0 | 62.5 | 81.8 | 73.4 | 73 | 63 | 69 | 69 |
| 13 | EH-2094 | 217 | 184 | 203 | 201 | 110 | 103 | 109 | 107 | 73.8 | 73.4 | 77.3 | 74.8 | 78 | 67 | 69 | 71 |
| 14 | GWH-9902 | 217 | 199 | 195 | 204 | 122 | 102 | 107 | 110 | 82.9 | 66.3 | 83.5 | 77.5 | 69 | 62 | 69 | 67 |
| 15 | GWH-0330 | 205 | 189 | 210 | 201 | 113 | 80 | 107 | 100 | 82.9 | 66.1 | 82.8 | 77.3 | 71 | 65 | 68 | 68 |
| 16 | GWH-0332 | 205 | 170 | 197 | 191 | 100 | 69 | 97 | 89 | 82.5 | 69.2 | 84.4 | 78.7 | 68 | 62 | 66 | 65 |
| 17 | GYH-9842 | 207 | 171 | 198 | 192 | 110 | 66 | 85 | 87 | 81.8 | 62.9 | 80.7 | 75.1 | 78 | 63 | 67 | 69 |
| 18 | GYH-0370 | 218 | 173 | 206 | 199 | 115 | 80 | 113 | 103 | 83.3 | 66.8 | 83.1 | 77.7 | 68 | 63 | 67 | 66 |
| 19 | GYH-0653 | 202 | 176 | 184 | 187 | 103 | 72 | 90 | 88 | 80.5 | 72.5 | 82.5 | 78.5 | 76 | 60 | 69 | 68 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 20 | Pratap Hybrid Maize-1 | 203 | 165 | 172 | 180 | 100 | 79 | 70 | 83 | 82.1 | 63.5 | 84.2 | 76.6 | 74 | 60 | 68 | 67 |
| 21 | PEHM-2 | 203 | 195 | 182 | 193 | 115 | 81 | 88 | 94 | 83.5 | 61.8 | 80.4 | 75.2 | 72 | 60 | 59 | 64 |
| 22 | Pratap Makka-3 | 193 | 171 | 185 | 183 | 87 | 65 | 81 | 77 | 84.9 | 69.6 | 83.7 | 79.4 | 68 | 61 | 67 | 65 |
| 23 | Prakash | 202 | 183 | 193 | 193 | 127 | 78 | 98 | 101 | 84.7 | 71.1 | 80.5 | 78.8 | 71 | 60 | 67 | 66 |
| | Loc. Mean | 206 | 178 | 191 | 192 | 105 | 80 | 94 | 93 | 81.7 | 67.4 | 81.9 | 77.0 | 74 | 62 | 67 | 68 |
| | C.D. (5%) | 22.4 | 9.4 | 18.4 | 13.4 | 23.6 | 6.1 | 18.4 | 15.9 | 0.91 | 2.20 | 1.04 | 5.60 | 6.7 | 4.3 | 5.0 | 4.0 |
| | C.V. (%) | 6.6 | 3.2 | 5.9 | 4.3 | 13.7 | 4.6 | 11.9 | 10.4 | 0.67 | 1.98 | 0.77 | 4.42 | 5.5 | 4.2 | 4.5 | 3.6 |
| | F (Prob.) | 0.6 | 0.0 | 0.0 | 0.0 | 0.05 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.40 | 0.0 | 0.3 | 0.1 | 0.1 |

TABLE No. 54

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, GODHRA, IN ZONAL TRIAL No. TR511 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE ZN 5 | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 ZN 5 | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9681 ZN 5 | | |
|----------|----------|---|----|------|----|------|----|--|------|------|--|------|------|
| | | UDAI | R | GODH | R | MEAN | R | UDAI | GODH | MEAN | UDAI | GODH | MEAN |
| 1 | EH-2095 | 5116 | 25 | 3662 | 20 | 4389 | 25 | 16.4 | - | 3.6 | 3.1 | - | - |
| 2 | EH-2096 | 5463 | 17 | 4549 | 4 | 5006 | 8 | 24.3 | 11.5 | 18.1 | 10.1 | - | 0.2 |
| 3 | EH-2097 | 5797 | 12 | 2985 | 30 | 4391 | 23 | 31.9 | - | 3.6 | 16.9 | - | - |
| 4 | EH-2098 | 5127 | 24 | 3374 | 27 | 4250 | 28 | 16.6 | - | 0.3 | 3.4 | - | - |
| 5 | EH-2099 | 4643 | 27 | 5862 | 1 | 5252 | 3 | 5.6 | 43.7 | 24 | - | 16.6 | 5.2 |
| 6 | EH2100 | 5445 | 18 | 4237 | 7 | 4841 | 12 | 23.9 | 3.9 | 14.2 | 9.8 | - | - |
| 7 | EH2101 | 6248 | 8 | 5404 | 2 | 5826 | 1 | 42.1 | 32.5 | 37.5 | 26 | 7.5 | 16.7 |
| 8 | EH2102 | 5912 | 11 | 4070 | 11 | 4991 | 10 | 34.5 | - | 17.8 | 19.2 | - | - |
| 9 | EH2103 | 6301 | 7 | 3844 | 18 | 5072 | 6 | 43.3 | - | 19.7 | 27 | - | 1.6 |
| 10 | EH2104 | 5601 | 15 | 3375 | 26 | 4488 | 22 | 27.4 | - | 5.9 | 12.9 | - | - |
| 11 | EH2105 | 5719 | 13 | 3524 | 23 | 4622 | 18 | 30.1 | - | 9.1 | 15.3 | - | - |
| 12 | EH2106 | 4325 | 30 | 3938 | 15 | 4131 | 30 | - | - | - | - | - | - |
| 13 | EH2107 | 6685 | 2 | 3441 | 24 | 5063 | 7 | 52.1 | - | 19.5 | 34.8 | - | 1.4 |
| 14 | EH2108 | 4623 | 28 | 4498 | 5 | 4561 | 20 | 5.2 | 10.3 | 7.6 | - | - | - |
| 15 | EH2109 | 5347 | 19 | 3417 | 25 | 4382 | 26 | 21.6 | - | 3.4 | 7.8 | - | - |
| 16 | EH2110 | 5639 | 14 | 3911 | 16 | 4775 | 13 | 28.3 | - | 12.7 | 13.7 | - | - |
| 17 | EH2111 | 6439 | 5 | 2627 | 32 | 4533 | 21 | 46.5 | - | 7 | 29.8 | - | - |
| 18 | EH2112 | 6335 | 6 | 4042 | 12 | 5188 | 4 | 44.1 | - | 22.4 | 27.7 | - | 3.9 |
| 19 | EH2113 | 5178 | 23 | 3601 | 22 | 4389 | 24 | 17.8 | - | 3.6 | 4.4 | - | - |
| 20 | EH2114 | 4011 | 32 | 4026 | 13 | 4018 | 31 | - | - | - | - | - | - |

TABLE No.54 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9681 | | |
|---------------|-----------------------|-------------------------------------|----|-------|----|-----------|----|---|------|-----------|---|------|-----------|
| | | UDAI | R | GODH | R | ZN 5 MEAN | R | UDAI | GODH | ZN 5 MEAN | UDAI | GODH | ZN 5 MEAN |
| 21 | EH2115 | 5322 | 21 | 4186 | 8 | 4754 | 15 | 21.1 | 2.6 | 12.2 | 7.3 | - | - |
| 22 | EH2116 | 7062 | 1 | 4443 | 6 | 5753 | 2 | 60.6 | 8.9 | 35.8 | 42.4 | - | 15.2 |
| 23 | EH2117 | 5917 | 10 | 3857 | 17 | 4887 | 11 | 34.6 | - | 15.3 | 19.3 | - | - |
| 24 | EH2118 | 6485 | 4 | 2695 | 31 | 4590 | 19 | 47.5 | - | 8.3 | 30.7 | - | - |
| 25 | EH2119 | 5935 | 9 | 3342 | 28 | 4639 | 17 | 35 | - | 9.5 | 19.7 | - | - |
| 26 | EH2120 | 5599 | 16 | 3945 | 14 | 4772 | 14 | 27.4 | - | 12.6 | 12.9 | - | - |
| CHECKS | | | | | | | | | | | | | |
| 27 | Bio-9637 | 4396 | 29 | 4079 | 10 | 4237 | 29 | - | - | - | - | - | - |
| 28 | Bio-9681 | 4960 | 26 | 5029 | 3 | 4995 | 9 | 12.8 | 23.3 | 17.9 | - | - | - |
| 29 | Pratap Hybrid Maize-1 | 5325 | 20 | 3190 | 29 | 4257 | 27 | 21.1 | - | 0.5 | 7.4 | - | - |
| 30 | Parbhat | 4147 | 31 | 3614 | 21 | 3880 | 32 | - | - | - | - | - | - |
| 31 | Malviya hybrid-2 | 5284 | 22 | 4113 | 9 | 4699 | 16 | 20.2 | 0.9 | 10.9 | 6.5 | - | - |
| 32 | Seed Tech 2324 | 6519 | 3 | 3751 | 19 | 5135 | 5 | 48.3 | - | 21.2 | 31.4 | - | 2.8 |
| | Location Mean | 5528 | | 3895 | | 4711 | | | | | | | |
| | Mean Stand | 34 | | 35 | | 34 | | | | | | | |
| | C.D. (5%) | 582 | | 730 | | 656 | | | | | | | |
| | C.V. (%) | 6.45 | | 11.48 | | - | | | | | | | |
| | F (Prob) | 0 | | 0 | | - | | | | | | | |
| | Plot Size | 4.8 | | 4.8 | | - | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | |
| | Sowing Date | 24-06 | | 13-07 | | - | | | | | | | |
| | Harvest Date | 5-10 | | 27-10 | | - | | | | | | | |
| | Irrigation Nos | 2 | | - | | - | | | | | | | |
| | Fertilizer Applied N | 90 | | 100 | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | 50 | | - | | | | | | | |
| | Fertilizer Applied K | - | | 50 | | - | | | | | | | |

TABLE No. 54 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Pratap Hybrid Maize-1 | | | GRAIN YIELD % SUPERIORITY OVER THE Parbhat | | | GRAIN YIELD % SUPERIORITY OVER THE Malviya hybrid-2 | | |
|----------|-----------------------|---|------|--------------|---|------|--------------|--|------|--------------|
| | | UDAI | GODH | ZN 5 MEAN | UDAI | GODH | ZN 5 MEAN | UDAI | GODH | ZN 5 MEAN |
| 1 | EH-2095 | - | 14.8 | 3.1 | 23.4 | 1.3 | 13.1 | - | - | - |
| 2 | EH-2096 | 2.6 | 42.6 | 17.6 | 31.7 | 25.9 | 29 | 3.4 | 10.6 | 6.5 |
| 3 | EH-2097 | 8.9 | - | 3.1 | 39.8 | - | 13.2 | 9.7 | - | - |
| 4 | EH-2098 | - | 5.8 | - | 23.6 | - | 9.5 | - | - | - |
| 5 | EH-2099 | - | 83.7 | 23.4 | 12 | 62.2 | 35.4 | - | 42.5 | 11.8 |
| 6 | EH2100 | 2.3 | 32.8 | 13.7 | 31.3 | 17.2 | 24.8 | 3 | 3 | 3 |
| 7 | EH2101 | 17.3 | 69.4 | 36.9 | 50.7 | 49.5 | 50.1 | 18.2 | 31.4 | 24 |
| 8 | EH2102 | 11 | 27.6 | 17.2 | 42.6 | 12.6 | 28.6 | 11.9 | - | 6.2 |
| 9 | EH2103 | 18.3 | 20.5 | 19.1 | 51.9 | 6.4 | 30.7 | 19.2 | - | 7.9 |
| 10 | EH2104 | 5.2 | 5.8 | 5.4 | 35.1 | - | 15.7 | 6 | - | - |
| 11 | EH2105 | 7.4 | 10.5 | 8.6 | 37.9 | - | 19.1 | 8.2 | - | - |
| 12 | EH2106 | - | 23.4 | - | 4.3 | 9 | 6.5 | - | - | - |
| 13 | EH2107 | 25.5 | 7.9 | 18.9 | 61.2 | - | 30.5 | 26.5 | - | 7.8 |
| 14 | EH2108 | - | 41 | 7.1 | 11.5 | 24.5 | 17.5 | - | 9.4 | - |
| 15 | EH2109 | 0.4 | 7.1 | 2.9 | 28.9 | - | 12.9 | 1.2 | - | - |
| 16 | EH2110 | 5.9 | 22.6 | 12.2 | 36 | 8.2 | 23 | 6.7 | - | 1.6 |
| 17 | EH2111 | 20.9 | - | 6.5 | 55.3 | - | 16.8 | 21.8 | - | - |
| 18 | EH2112 | 19 | 26.7 | 21.9 | 52.8 | 11.8 | 33.7 | 19.9 | - | 10.4 |
| 19 | EH2113 | - | 12.9 | 3.1 | 24.9 | - | 13.1 | - | - | - |
| 20 | EH2114 | - | 26.2 | - | - | 11.4 | 3.6 | - | - | - |
| 21 | EH2115 | - | 31.2 | 11.7 | 28.3 | 15.8 | 22.5 | 0.7 | 1.8 | 1.2 |
| 22 | EH2116 | 32.6 | 39.3 | 35.1 | 70.3 | 23 | 48.2 | 33.6 | 8 | 22.4 |
| 23 | EH2117 | 11.1 | 20.9 | 14.8 | 42.7 | 6.7 | 25.9 | 12 | - | 4 |
| 24 | EH2118 | 21.8 | - | 7.8 | 56.4 | - | 18.3 | 22.7 | - | - |
| 25 | EH2119 | 11.5 | 4.8 | 9 | 43.1 | - | 19.5 | 12.3 | - | - |
| 26 | EH2120 | 5.1 | 23.7 | 12.1 | 35 | 9.2 | 23 | 6 | - | 1.6 |
| CHECKS | | | | | | | | | | |
| 27 | Bio-9637 | - | 27.9 | - | 6 | 12.9 | 9.2 | - | - | - |
| 28 | Bio-9681 | - | 57.7 | 17.3 | 19.6 | 39.2 | 28.7 | - | 22.3 | 6.3 |
| 29 | Pratap Hybrid Maize-1 | - | - | - | 28.4 | - | 9.7 | 0.8 | - | - |
| 30 | Parbhat | - | 13.3 | - | - | - | - | - | - | - |
| 31 | Malviya hybrid-2 | - | 28.9 | 10.4 | 27.4 | 13.8 | 21.1 | - | - | - |
| 32 | Seed Tech 2324 | 22.4 | 17.6 | 20.6 | 57.2 | 3.8 | 32.3 | 23.4 | - | 9.3 |

TABLE No. 54 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Seed Tech 2324 | | | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | |
|----------|-----------------------|--|------|------|-------------------------|------|------|---------------------|------|------|
| | | UDAI | GODH | MEAN | UDAI | GODH | Mean | UDAI | GODH | Mean |
| | | | | ZN 5 | | | ZN 5 | | | ZN 5 |
| 1 | EH-2095 | - | - | - | 47.0 | 45.7 | 46.3 | 49.3 | 47.0 | 48.2 |
| 2 | EH-2096 | - | 21.3 | - | 53.3 | 52.0 | 52.7 | 55.7 | 53.3 | 54.5 |
| 3 | EH-2097 | - | - | - | 52.7 | 52.3 | 52.5 | 55.3 | 54.0 | 54.7 |
| 4 | EH-2098 | - | - | - | 51.3 | 50.7 | 51.0 | 53.3 | 52.3 | 52.8 |
| 5 | EH-2099 | - | 56.3 | 2.3 | 50.3 | 48.7 | 49.5 | 52.3 | 50.0 | 51.2 |
| 6 | EH2100 | - | 13 | - | 52.3 | 50.7 | 51.5 | 64.7 | 51.3 | 58.0 |
| 7 | EH2101 | - | 44.1 | 13.5 | 49.0 | 50.0 | 49.5 | 51.7 | 51.3 | 51.5 |
| 8 | EH2102 | - | 8.5 | - | 49.7 | 51.0 | 50.3 | 51.7 | 52.0 | 51.8 |
| 9 | EH2103 | - | 2.5 | - | 50.3 | 51.3 | 50.8 | 52.7 | 53.0 | 52.8 |
| 10 | EH2104 | - | - | - | 50.3 | 50.3 | 50.3 | 52.3 | 51.3 | 51.8 |
| 11 | EH2105 | - | - | - | 53.3 | 52.3 | 52.8 | 55.3 | 53.7 | 54.5 |
| 12 | EH2106 | - | 5 | - | 52.7 | 50.7 | 51.7 | 54.7 | 52.0 | 53.3 |
| 13 | EH2107 | 2.6 | - | - | 52.3 | 53.0 | 52.7 | 54.3 | 56.3 | 55.3 |
| 14 | EH2108 | - | 19.9 | - | 50.0 | 48.7 | 49.3 | 52.3 | 51.0 | 51.7 |
| 15 | EH2109 | - | - | - | 49.3 | 48.0 | 48.7 | 51.3 | 50.3 | 50.8 |
| 16 | EH2110 | - | 4.3 | - | 52.3 | 51.0 | 51.7 | 54.3 | 51.3 | 52.8 |
| 17 | EH2111 | - | - | - | 51.3 | 50.3 | 50.8 | 53.7 | 52.0 | 52.8 |
| 18 | EH2112 | - | 7.8 | 1 | 55.7 | 53.3 | 54.5 | 57.7 | 55.7 | 56.7 |
| 19 | EH2113 | - | - | - | 49.3 | 49.3 | 49.3 | 51.7 | 51.3 | 51.5 |
| 20 | EH2114 | - | 7.3 | - | 55.7 | 53.7 | 54.7 | 58.7 | 56.7 | 57.7 |
| 21 | EH2115 | - | 11.6 | - | 50.7 | 50.0 | 50.3 | 52.7 | 51.7 | 52.2 |
| 22 | EH2116 | 8.3 | 18.5 | 12 | 52.3 | 51.3 | 51.8 | 54.3 | 51.7 | 53.0 |
| 23 | EH2117 | - | 2.8 | - | 48.0 | 48.3 | 48.2 | 50.3 | 49.7 | 50.0 |
| 24 | EH2118 | - | - | - | 47.3 | 50.3 | 48.8 | 49.3 | 51.3 | 50.3 |
| 25 | EH2119 | - | - | - | 54.3 | 52.0 | 53.2 | 56.7 | 53.7 | 55.2 |
| 26 | EH2120 | - | 5.2 | - | 46.0 | 47.0 | 46.5 | 48.3 | 49.0 | 48.7 |
| | CHECKS | | | | | | | | | |
| 27 | Bio-9637 | - | 8.7 | - | 52.7 | 51.3 | 52.0 | 54.7 | 51.7 | 53.2 |
| 28 | Bio-9681 | - | 34.1 | - | 51.7 | 49.3 | 50.5 | 53.7 | 50.0 | 51.8 |
| 29 | Pratap Hybrid Maize-1 | - | - | - | 47.3 | 46.3 | 46.8 | 49.7 | 48.0 | 48.8 |
| 30 | Parbhat | - | - | - | 54.3 | 52.3 | 53.3 | 57.7 | 58.0 | 57.8 |
| 31 | Malviya hybrid-2 | - | 9.7 | - | 50.3 | 49.7 | 50.0 | 52.3 | 50.7 | 51.5 |
| 32 | Seed Tech 2324 | - | - | - | 53.0 | 52.7 | 52.8 | 55.3 | 54.0 | 54.7 |
| | Loc. Mean | | | | 51.1 | 50.4 | 50.8 | 53.7 | 52.0 | 52.9 |
| | C.D. (5%) | | | | 1.14 | 1.46 | 1.80 | 5.70 | 1.64 | 3.66 |
| | C.V. (%) | | | | 1.37 | 1.78 | 1.74 | 6.50 | 1.93 | 3.40 |
| | F (Prob.) | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No. 54 (Cont..)

| Sl No | PEDIGREE | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | | PLANT HEIGHT (cm) | | |
|----------|-----------------------|----------------------|------|--------------|-----------------------|------|--------------|-------------------|------|--------------|
| | | UDAI | GODH | Mean ZN 5 | UDAI | GODH | Mean ZN 5 | UDAI | GODH | Mean ZN 5 |
| 1 | EH-2095 | 80.7 | 78.7 | 79.7 | 19.8 | 24.5 | 22.2 | 178 | 156 | 167 |
| 2 | EH-2096 | 87.7 | 74.7 | 81.2 | 21.9 | 27.5 | 24.7 | 192 | 173 | 182 |
| 3 | EH-2097 | 87.7 | 74.0 | 80.8 | 21.3 | 36.1 | 28.7 | 213 | 198 | 206 |
| 4 | EH-2098 | 85.0 | 79.3 | 82.2 | 20.0 | 30.6 | 25.3 | 220 | 164 | 192 |
| 5 | EH-2099 | 84.3 | 79.3 | 81.8 | 17.6 | 26.3 | 21.9 | 208 | 196 | 202 |
| 6 | EH2100 | 86.7 | 73.7 | 80.2 | 18.0 | 33.1 | 25.6 | 187 | 174 | 180 |
| 7 | EH2101 | 82.7 | 76.3 | 79.5 | 16.9 | 25.1 | 21.0 | 242 | 185 | 213 |
| 8 | EH2102 | 83.7 | 78.3 | 81.0 | 19.2 | 28.1 | 23.6 | 205 | 192 | 199 |
| 9 | EH2103 | 84.7 | 79.0 | 81.8 | 20.5 | 35.5 | 28.0 | 230 | 177 | 204 |
| 10 | EH2104 | 84.0 | 80.3 | 82.2 | 21.6 | 38.7 | 30.2 | 212 | 180 | 196 |
| 11 | EH2105 | 87.0 | 80.0 | 83.5 | 21.6 | 26.8 | 24.2 | 193 | 181 | 187 |
| 12 | EH2106 | 87.7 | 78.0 | 82.8 | 21.2 | 25.3 | 23.2 | 200 | 177 | 188 |
| 13 | EH2107 | 87.7 | 73.0 | 80.3 | 20.4 | 35.5 | 28.0 | 235 | 186 | 211 |
| 14 | EH2108 | 85.0 | 74.3 | 79.7 | 14.7 | 23.7 | 19.2 | 202 | 181 | 191 |
| 15 | EH2109 | 83.3 | 79.0 | 81.2 | 21.7 | 22.5 | 22.1 | 213 | 158 | 186 |
| 16 | EH2110 | 86.0 | 79.3 | 82.7 | 22.7 | 35.4 | 29.1 | 223 | 187 | 205 |
| 17 | EH2111 | 87.0 | 75.3 | 81.2 | 19.0 | 37.3 | 28.1 | 185 | 156 | 171 |
| 18 | EH2112 | 90.0 | 79.7 | 84.8 | 20.6 | 23.6 | 22.1 | 208 | 201 | 205 |
| 19 | EH2113 | 82.3 | 75.0 | 78.7 | 14.2 | 21.1 | 17.7 | 190 | 170 | 180 |
| 20 | EH2114 | 92.0 | 81.0 | 86.5 | 20.6 | 35.1 | 27.8 | 238 | 196 | 217 |
| 21 | EH2115 | 85.7 | 78.3 | 82.0 | 20.7 | 28.0 | 24.4 | 185 | 189 | 187 |
| 22 | EH2116 | 88.3 | 80.0 | 84.2 | 21.3 | 33.2 | 27.2 | 230 | 198 | 214 |
| 23 | EH2117 | 83.3 | 75.0 | 79.2 | 20.4 | 24.0 | 22.2 | 202 | 177 | 189 |
| 24 | EH2118 | 81.3 | 74.7 | 78.0 | 21.5 | 27.2 | 24.4 | 197 | 171 | 184 |
| 25 | EH2119 | 86.7 | 80.0 | 83.3 | 20.2 | 27.8 | 24.0 | 220 | 199 | 210 |
| 26 | EH2120 | 81.7 | 79.0 | 80.3 | 20.0 | 26.2 | 23.1 | 198 | 170 | 184 |
| CHECKS | | | | | | | | | | |
| 27 | Bio-9637 | 87.0 | 81.3 | 84.2 | 21.1 | 28.4 | 24.7 | 210 | 195 | 202 |
| 28 | Bio-9681 | 84.3 | 79.3 | 81.8 | 21.3 | 28.8 | 25.1 | 203 | 189 | 196 |
| 29 | Pratap Hybrid Maize-1 | 82.7 | 74.7 | 78.7 | 16.2 | 30.6 | 23.4 | 178 | 161 | 170 |
| 30 | Parbhat | 89.0 | 82.0 | 85.5 | 16.5 | 35.4 | 25.9 | 232 | 196 | 214 |
| 31 | Malviya hybrid-2 | 85.0 | 79.7 | 82.3 | 22.5 | 26.6 | 24.6 | 193 | 168 | 181 |
| 32 | Seed Tech 2324 | 85.0 | 74.0 | 79.5 | 21.0 | 35.5 | 28.3 | 202 | 170 | 186 |
| | Loc. Mean | 85.5 | 77.7 | 81.6 | 19.9 | 29.5 | 24.7 | 207 | 180 | 194 |
| | C.D. (5%) | 2.14 | 2.16 | 4.69 | 3.80 | - | 7.12 | 16.9 | 20.1 | 21.9 |
| | C.V. (%) | 1.54 | 1.70 | 2.82 | 11.7 | - | 14.2 | 5.0 | 6.8 | 5.5 |
| | F (Prob.) | 0.00 | 0.00 | 0.09 | 0.00 | - | 0.17 | 0.0 | 0.0 | 0.0 |

TABLE No. 54 (Cont..)

| Sl No | PEDIGREE | EAR HEIGHT(cm) | | | GRAIN SHELLING % | | | STAND AT HARVEST ('000/ha) | | |
|----------|-----------------------|----------------|-------|--------------|------------------|------|--------------|----------------------------|------|--------------|
| | | UDAI | GODH | ZN 5 Mean | UDAI | GODH | ZN 5 Mean | UDAI | GODH | ZN 5 Mean |
| 1 | EH-2095 | 83.3 | 74.7 | 79.0 | 81.3 | 81.7 | 81.5 | 65 | 65 | 65 |
| 2 | EH-2096 | 93.3 | 83.0 | 88.2 | 81.0 | 78.4 | 79.7 | 73 | 74 | 73 |
| 3 | EH-2097 | 105.0 | 94.0 | 99.5 | 77.4 | 75.5 | 76.5 | 72 | 76 | 74 |
| 4 | EH-2098 | 115.0 | 66.7 | 90.8 | 79.5 | 84.3 | 81.9 | 74 | 76 | 75 |
| 5 | EH-2099 | 125.0 | 97.7 | 111.3 | 82.9 | 93.1 | 88.0 | 65 | 74 | 69 |
| 6 | EH2100 | 88.3 | 75.3 | 81.8 | 82.2 | 78.8 | 80.5 | 86 | 77 | 82 |
| 7 | EH2101 | 128.3 | 88.7 | 108.5 | 83.7 | 80.9 | 82.3 | 69 | 78 | 74 |
| 8 | EH2102 | 101.7 | 94.7 | 98.2 | 80.9 | 82.8 | 81.8 | 73 | 55 | 64 |
| 9 | EH2103 | 115.0 | 88.3 | 101.7 | 81.1 | 76.6 | 78.8 | 73 | 68 | 70 |
| 10 | EH2104 | 110.0 | 84.0 | 97.0 | 79.9 | 79.9 | 79.9 | 69 | 74 | 71 |
| 11 | EH2105 | 86.7 | 87.7 | 87.2 | 79.1 | 81.5 | 80.3 | 74 | 72 | 73 |
| 12 | EH2106 | 85.0 | 69.0 | 77.0 | 79.7 | 81.0 | 80.4 | 69 | 76 | 73 |
| 13 | EH2107 | 141.7 | 93.0 | 117.3 | 80.8 | 75.9 | 78.3 | 77 | 78 | 77 |
| 14 | EH2108 | 96.7 | 89.0 | 92.8 | 81.2 | 79.9 | 80.5 | 68 | 78 | 73 |
| 15 | EH2109 | 83.3 | 70.7 | 77.0 | 81.2 | 76.8 | 79.0 | 68 | 78 | 73 |
| 16 | EH2110 | 106.7 | 91.7 | 99.2 | 80.6 | 77.0 | 78.8 | 69 | 76 | 73 |
| 17 | EH2111 | 91.7 | 74.3 | 83.0 | 83.0 | 81.6 | 82.3 | 75 | 75 | 75 |
| 18 | EH2112 | 110.0 | 104.0 | 107.0 | 75.3 | 76.2 | 75.8 | 76 | 75 | 76 |
| 19 | EH2113 | 91.7 | 78.3 | 85.0 | 81.3 | 83.4 | 82.4 | 73 | 78 | 75 |
| 20 | EH2114 | 128.3 | 101.7 | 115.0 | 82.8 | 79.0 | 80.9 | 66 | 80 | 73 |
| 21 | EH2115 | 98.3 | 87.7 | 93.0 | 80.5 | 77.8 | 79.1 | 67 | 77 | 72 |
| 22 | EH2116 | 106.7 | 92.3 | 99.5 | 81.9 | 78.3 | 80.1 | 75 | 72 | 73 |
| 23 | EH2117 | 91.7 | 92.3 | 92.0 | 79.6 | 80.0 | 79.8 | 73 | 77 | 75 |
| 24 | EH2118 | 100.0 | 83.3 | 91.7 | 81.5 | 81.7 | 81.6 | 74 | 75 | 74 |
| 25 | EH2119 | 106.7 | 105.7 | 106.2 | 81.8 | 71.7 | 76.8 | 71 | 72 | 71 |
| 26 | EH2120 | 90.0 | 75.0 | 82.5 | 82.9 | 79.8 | 81.3 | 65 | 76 | 70 |
| CHECKS | | | | | | | | | | |
| 27 | Bio-9637 | 101.7 | 102.7 | 102.2 | 82.7 | 82.0 | 82.3 | 58 | 50 | 54 |
| 28 | Bio-9681 | 91.7 | 87.3 | 89.5 | 85.0 | 79.1 | 82.1 | 65 | 68 | 66 |
| 29 | Pratap Hybrid Maize-1 | 86.7 | 81.3 | 84.0 | 84.0 | 81.1 | 82.5 | 61 | 74 | 67 |
| 30 | Parbhat | 120.0 | 107.7 | 113.8 | 80.2 | 80.4 | 80.3 | 58 | 82 | 70 |
| 31 | Malviya hybrid-2 | 98.3 | 78.7 | 88.5 | 77.3 | 77.2 | 77.3 | 67 | 72 | 69 |
| 32 | Seed Tech 2324 | 103.3 | 86.7 | 95.0 | 84.3 | 77.9 | 81.1 | 68 | 75 | 72 |
| | Loc. Mean | 102.6 | 87.1 | 94.8 | 81.1 | 79.7 | 80.4 | 70 | 73 | 72 |
| | C.D. (5%) | 14.71 | 15.94 | 18.13 | 2.93 | 0.00 | 5.31 | 8.6 | 8.5 | 11.2 |
| | C.V. (%) | 8.79 | 11.21 | 9.38 | 2.21 | 0.00 | 3.24 | 7.5 | 7.1 | 7.7 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.0 | 0.0 | 0.1 |

TABLE No. 55

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA IN ZONAL TRIAL No. TRZTQPM1 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 | | | | |
|---------------|----------------------|-------------------------------------|----|-------|----|-------|----|---|------|------|------|---|------|------|------|------|
| | | UDAI | R | BANS | R | GODH | R | UDAI | BANS | GODH | MEAN | UDAI | BANS | GODH | MEAN | |
| 1 | EHQ-38 | 4971 | 10 | 2052 | 5 | 4445 | 7 | 3822 | 7 | - | 31.3 | 17.1 | - | - | - | - |
| 2 | EHQ-39 | 5012 | 9 | 1359 | 14 | 5034 | 3 | 3802 | 8 | - | - | 32.6 | - | - | 0.7 | - |
| 3 | EHQ-40 | 5261 | 7 | 1417 | 13 | 4639 | 5 | 3772 | 9 | - | - | 22.2 | - | - | - | - |
| 4 | EHQ-41 | 5660 | 6 | 2241 | 4 | 4547 | 6 | 4150 | 4 | - | 43.4 | 19.8 | 6.1 | - | - | - |
| 5 | EHQ-42 | 6087 | 4 | 1624 | 9 | 6487 | 1 | 4732 | 2 | - | 3.9 | 70.9 | 21 | - | - | 29.8 |
| 6 | EHQ-43 | 5935 | 5 | 1429 | 11 | 5519 | 2 | 4294 | 3 | - | - | 45.4 | 9.8 | - | - | 10.4 |
| 7 | EHQ-44 | 5097 | 8 | 1941 | 8 | 3932 | 10 | 3657 | 11 | - | 24.2 | 3.6 | - | - | - | - |
| 8 | EHQ-45 | 6300 | 3 | 1425 | 12 | 4424 | 8 | 4050 | 5 | - | - | 16.5 | 3.6 | - | - | - |
| 9 | EHQ-46 | 4633 | 13 | 2021 | 7 | 3722 | 13 | 3459 | 12 | - | 29.3 | - | - | - | - | - |
| 10 | EHQ-47 | 4656 | 12 | 2039 | 6 | 3548 | 14 | 3414 | 13 | - | 30.5 | - | - | - | - | - |
| 11 | EHQ-48 | 4964 | 11 | 2292 | 3 | 3724 | 12 | 3660 | 10 | - | 46.7 | - | - | - | - | - |
| 12 | EHQ-49 | 3787 | 14 | 2439 | 1 | 3981 | 9 | 3402 | 14 | - | 56 | 4.9 | - | - | 0.4 | - |
| CHECKS | | | | | | | | | | | | | | | | |
| 13 | HQPM-1 | 6374 | 2 | 1563 | 10 | 3796 | 11 | 3911 | 6 | - | - | - | - | - | - | - |
| 14 | Bio-9637 | 7278 | 1 | 2428 | 2 | 4998 | 4 | 4902 | 1 | 14.2 | 55.4 | 31.7 | 25.3 | - | - | - |
| | Location Mean | 5430 | | 1876 | | 4486 | | 3931 | | | | | | | | |
| | Mean Stand | 31 | | 30 | | 35 | | 32 | | | | | | | | |
| | C.D. (5%) | 611 | | 386 | | 1216 | | 738 | | | | | | | | |
| | C.V. (%) | 6.69 | | 12.25 | | 16.12 | | - | | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | - | | | | | | | | |
| | Plot Size | 4.8 | | 4.8 | | 4.8 | | - | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| | Sowing Date | 29-06 | | 8-07 | | 13-07 | | - | | | | | | | | |
| | Harvest Date | 7-10 | | 25-10 | | 7-10 | | - | | | | | | | | |
| | Irrigation Nos | 2 | | 2 | | - | | - | | | | | | | | |
| | Fertilizer Applied N | 90 | | 120 | | 100 | | - | | | | | | | | |
| | Fertilizer Applied P | 60 | | 40 | | 50 | | - | | | | | | | | |
| | Fertilizer Applied K | - | | - | | 50 | | - | | | | | | | | |

TABLE No. 55 (Cont..)

| Sl No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | DAYS TO 50% SILKING | | | | DAYS TO 50% DRY HUSK | | | | MOISTURE | | | |
|----------|-----------|-------------------------|------|------|--------------|---------------------|------|------|--------------|----------------------|------|------|--------------|----------|------|------|--------------|
| | | UDAI | BANS | GODH | ZN 5 Mean | UDAI | BANS | GODH | ZN 5 Mean | UDAI | BANS | GODH | ZN 5 Mean | UDAI | BANS | GODH | ZN 5 Mean |
| 1 | EHQ-38 | 50.0 | 48.0 | 47.3 | 48.4 | 51.7 | 52.0 | 49.7 | 51.1 | 81.0 | 84.3 | 72.7 | 79.3 | 20.3 | 17.0 | 38.3 | 25.2 |
| 2 | EHQ-39 | 49.7 | 49.3 | 47.7 | 48.9 | 51.7 | 53.3 | 49.7 | 51.6 | 81.7 | 85.7 | 73.3 | 80.2 | 19.0 | 15.3 | 35.6 | 23.3 |
| 3 | EHQ-40 | 48.0 | 48.7 | 45.0 | 47.2 | 50.3 | 53.0 | 48.7 | 50.7 | 82.0 | 85.7 | 76.0 | 81.2 | 19.7 | 16.0 | 29.3 | 21.7 |
| 4 | EHQ-41 | 48.0 | 51.7 | 46.0 | 48.6 | 50.7 | 55.3 | 49.0 | 51.7 | 81.7 | 87.0 | 74.0 | 80.9 | 19.3 | 16.4 | 30.6 | 22.1 |
| 5 | EHQ-42 | 47.7 | 47.7 | 48.3 | 47.9 | 50.7 | 51.3 | 50.3 | 50.8 | 82.0 | 84.7 | 74.7 | 80.4 | 21.5 | 16.3 | 15.9 | 17.9 |
| 6 | EHQ-43 | 49.3 | 49.0 | 45.7 | 48.0 | 51.0 | 53.0 | 47.7 | 50.6 | 79.3 | 86.0 | 72.0 | 79.1 | 20.3 | 15.9 | 20.2 | 18.8 |
| 7 | EHQ-44 | 49.3 | 49.0 | 47.3 | 48.6 | 52.0 | 52.3 | 51.3 | 51.9 | 81.3 | 85.7 | 74.0 | 80.3 | 22.4 | 17.0 | 21.1 | 20.2 |
| 8 | EHQ-45 | 50.7 | 48.0 | 47.3 | 48.7 | 52.7 | 52.0 | 49.7 | 51.4 | 83.7 | 84.0 | 74.0 | 80.6 | 21.2 | 16.5 | 32.7 | 23.5 |
| 9 | EHQ-46 | 48.3 | 52.7 | 46.3 | 49.1 | 51.0 | 56.0 | 49.7 | 52.2 | 79.0 | 89.0 | 72.0 | 80.0 | 20.9 | 17.0 | 34.8 | 24.2 |
| 10 | EHQ-47 | 51.7 | 50.0 | 50.0 | 50.6 | 54.3 | 53.3 | 51.7 | 53.1 | 81.7 | 87.0 | 70.7 | 79.8 | 22.2 | 16.0 | 35.5 | 24.6 |
| 11 | EHQ-48 | 51.3 | 51.0 | 49.7 | 50.7 | 52.7 | 55.0 | 51.3 | 53.0 | 81.3 | 86.3 | 73.3 | 80.3 | 20.8 | 15.5 | 33.7 | 23.3 |
| 12 | EHQ-49 | 48.3 | 48.0 | 46.0 | 47.4 | 50.7 | 51.7 | 49.3 | 50.6 | 79.3 | 85.0 | 70.7 | 78.3 | 18.1 | 16.9 | 35.2 | 23.4 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 13 | HQPM-1 | 53.7 | 56.3 | 51.7 | 53.9 | 55.0 | 60.0 | 53.0 | 56.0 | 83.7 | 90.7 | 77.3 | 83.9 | 21.4 | 15.6 | 35.5 | 24.2 |
| 14 | Bio-9637 | 52.0 | 49.3 | 49.7 | 50.3 | 53.0 | 53.0 | 50.7 | 52.2 | 82.7 | 87.0 | 76.7 | 82.1 | 20.5 | 17.0 | 36.1 | 24.5 |
| | Loc. Mean | 49.9 | 49.9 | 47.7 | 49.2 | 52.0 | 53.7 | 50.1 | 51.9 | 81.5 | 86.3 | 73.7 | 80.5 | 20.5 | 16.3 | 31.0 | 22.6 |
| | C.D. (5%) | 1.89 | 1.00 | 1.79 | 2.24 | 1.54 | 1.24 | 2.06 | 2.05 | 2.57 | 1.27 | 4.38 | 2.40 | 2.14 | 0.37 | - | 7.03 |
| | C.V. (%) | 2.25 | 1.19 | 2.24 | 2.71 | 1.77 | 1.38 | 2.45 | 2.35 | 1.88 | 0.87 | 3.54 | 1.77 | 6.21 | 1.34 | - | 18.51 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.09 | 0.02 | 0.02 | 0.00 | - | 0.60 |

TABLE No. 55 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT CM | | | ZN 5 Mean | EAR HEIGHT CM | | | ZN 5 Mean | SHELLING % | | | ZN 5 Mean | STAND ('000/ha) | | | ZN 5 Mean |
|----------|-----------|-----------------|------|------|--------------|---------------|------|-------|--------------|------------|------|------|--------------|-----------------|------|------|--------------|
| | | UDAI | BANS | GODH | | UDAI | BANS | GODH | | UDAI | BANS | GODH | | UDAI | BANS | GODH | |
| 1 | EHQ-38 | 203 | 167 | 176 | 182 | 110.0 | 65.9 | 87.9 | 87.9 | 77.6 | 66.2 | 77.5 | 73.8 | 67 | 63 | 76 | 69 |
| 2 | EHQ-39 | 202 | 172 | 185 | 186 | 86.7 | 62.2 | 91.7 | 80.2 | 80.1 | 61.2 | 74.7 | 72.0 | 72 | 62 | 77 | 70 |
| 3 | EHQ-40 | 202 | 166 | 164 | 177 | 108.3 | 64.4 | 82.1 | 84.9 | 79.6 | 58.4 | 69.6 | 69.2 | 65 | 62 | 72 | 66 |
| 4 | EHQ-41 | 190 | 164 | 161 | 172 | 88.3 | 53.5 | 77.9 | 73.3 | 81.9 | 66.4 | 70.4 | 72.9 | 67 | 63 | 75 | 68 |
| 5 | EHQ-42 | 197 | 173 | 168 | 179 | 88.3 | 68.7 | 85.8 | 81.0 | 81.6 | 62.5 | 75.6 | 73.2 | 69 | 62 | 80 | 70 |
| 6 | EHQ-43 | 198 | 162 | 170 | 177 | 101.7 | 60.9 | 80.4 | 81.0 | 80.0 | 58.2 | 73.7 | 70.6 | 69 | 61 | 70 | 67 |
| 7 | EHQ-44 | 197 | 169 | 160 | 175 | 100.0 | 72.3 | 75.8 | 82.7 | 83.0 | 66.4 | 66.3 | 71.9 | 60 | 62 | 76 | 66 |
| 8 | EHQ-45 | 185 | 157 | 165 | 169 | 83.3 | 61.1 | 79.6 | 74.7 | 81.7 | 61.3 | 72.2 | 71.7 | 67 | 61 | 82 | 70 |
| 9 | EHQ-46 | 190 | 172 | 153 | 172 | 91.7 | 56.2 | 72.1 | 73.3 | 81.2 | 66.8 | 76.7 | 74.9 | 60 | 61 | 69 | 64 |
| 10 | EHQ-47 | 183 | 158 | 172 | 171 | 90.0 | 68.7 | 77.9 | 78.9 | 83.3 | 59.0 | 76.1 | 72.8 | 67 | 62 | 71 | 67 |
| 11 | EHQ-48 | 190 | 174 | 161 | 175 | 81.7 | 58.4 | 77.1 | 72.4 | 82.7 | 66.8 | 76.3 | 75.2 | 52 | 64 | 74 | 63 |
| 12 | EHQ-49 | 175 | 132 | 163 | 157 | 78.3 | 54.1 | 81.7 | 71.4 | 68.0 | 65.3 | 70.3 | 67.9 | 71 | 65 | 74 | 70 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 13 | HQPM-1 | 180 | 144 | 153 | 159 | 81.7 | 59.0 | 80.0 | 73.6 | 80.4 | 64.9 | 62.6 | 69.3 | 62 | 62 | 81 | 68 |
| 14 | Bio-9637 | 218 | 181 | 180 | 193 | 101.7 | 83.4 | 92.1 | 92.4 | 83.1 | 67.5 | 76.5 | 75.7 | 52 | 64 | 31 | 49 |
| | Loc. Mean | 194 | 164 | 166 | 175 | 92.3 | 63.5 | 81.6 | 79.1 | 80.3 | 63.6 | 72.8 | 72.2 | 64 | 62 | 72 | 66 |
| | C.D. (5%) | 9.2 | 7.5 | 16.8 | 12.1 | 8.69 | 4.45 | 11.36 | 10.73 | 4.25 | 2.41 | - | 6.48 | 8.4 | 4.0 | 11.8 | 12.2 |
| | C.V. (%) | 2.8 | 2.7 | 6.0 | 4.1 | 5.61 | 4.18 | 8.29 | 8.08 | 3.15 | 2.26 | - | 5.35 | 7.8 | 3.8 | 9.8 | 11.0 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.39 | 0.0 | 0.8 | 0.0 | 0.1 |

TABLE No. 56

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, GODHRA, IN ZONAL TRIAL No. TRZTQPM2 DURING KHARIF (2009).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 | | |
|----------|----------|-------------------------------------|----|------|----|--------------|----|--|------|--------------|--|------|--------------|
| | | UDAI | R | GODH | R | ZN 5 MEAN | R | UDAI | GODH | ZN 5 MEAN | UDAI | GODH | ZN 5 MEAN |
| 1 | EHQ-50 | 5312 | 7 | 4127 | 11 | 4719 | 9 | - | - | - | 0.4 | 16.8 | 7 |
| 2 | EHQ-51 | 3488 | 29 | 4664 | 5 | 4076 | 20 | - | 3.4 | - | - | 32 | - |
| 3 | EHQ-52 | 4028 | 24 | 4465 | 7 | 4247 | 16 | - | - | - | - | 26.4 | - |
| 4 | EHQ-53 | 4519 | 18 | 4256 | 9 | 4388 | 15 | - | - | - | - | 20.5 | - |
| 5 | EHQ-54 | 4966 | 11 | 4053 | 16 | 4509 | 11 | - | - | - | - | 14.7 | 2.2 |
| 6 | EHQ-55 | 6992 | 3 | 4024 | 17 | 5508 | 4 | - | - | - | 32.1 | 13.9 | 24.8 |
| 7 | EHQ-56 | 4896 | 12 | 3930 | 19 | 4413 | 13 | - | - | - | - | 11.2 | 0 |
| 8 | EHQ-57 | 5306 | 8 | 4750 | 4 | 5028 | 6 | - | 5.3 | - | 0.3 | 34.5 | 14 |
| 9 | EHQ-58 | 3768 | 27 | 4106 | 13 | 3937 | 23 | - | - | - | - | 16.2 | - |
| 10 | EHQ-59 | 3710 | 28 | 3999 | 18 | 3855 | 24 | - | - | - | - | 13.2 | - |
| 11 | EHQ-60 | 4570 | 16 | 2116 | 29 | 3343 | 29 | - | - | - | - | - | - |
| 12 | EHQ-61 | 4758 | 14 | 5075 | 1 | 4917 | 8 | - | 12.6 | - | - | 43.7 | 11.4 |
| 13 | EHQ-62 | 4257 | 22 | 2797 | 27 | 3527 | 27 | - | - | - | - | - | - |
| 14 | EHQ-63 | 4790 | 13 | 5058 | 2 | 4924 | 7 | - | 12.2 | - | - | 43.2 | 11.6 |
| 15 | EHQ-64 | 4489 | 19 | 2715 | 28 | 3602 | 26 | - | - | - | - | - | - |
| 16 | EHQ-65 | 4131 | 23 | 4114 | 12 | 4122 | 19 | - | - | - | - | 16.4 | - |
| 17 | EHQ-66 | 6532 | 5 | 3852 | 20 | 5192 | 5 | - | - | - | 23.4 | 9 | 17.7 |
| 18 | EHQ-67 | 3916 | 25 | 3065 | 26 | 3490 | 28 | - | - | - | - | - | - |

TABLE No. 56 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | GRAIN YIELD % SUPERIORITY OVER THE Bio-9637 | | |
|---------------|----------------------|-------------------------------------|----|-------|----|--------------|----|---|------|--------------|---|------|--------------|
| | | UDAI | R | GODH | R | ZN 5 MEAN | R | UDAI | GODH | ZN 5 MEAN | UDAI | GODH | ZN 5 MEAN |
| 19 | EHQ-68 | 5703 | 6 | 3180 | 24 | 4441 | 12 | - | - | - | 7.8 | - | 0.7 |
| 20 | EHQ-69 | 4574 | 15 | 3707 | 21 | 4140 | 18 | - | - | - | - | 4.9 | - |
| 21 | EHQ-70 | 7187 | 2 | 4420 | 8 | 5804 | 3 | - | - | - | 35.8 | 25.1 | 31.5 |
| 22 | EHQ-71 | 5199 | 10 | 4088 | 14 | 4644 | 10 | - | - | - | - | 15.7 | 5.2 |
| 23 | EHQ-72 | 2258 | 30 | 1149 | 30 | 1704 | 30 | - | - | - | - | - | - |
| 24 | EHQ-73 | 3809 | 26 | 4076 | 15 | 3942 | 22 | - | - | - | - | 15.4 | - |
| 25 | EHQ-74 | 4531 | 17 | 3151 | 25 | 3841 | 25 | - | - | - | - | - | - |
| 26 | EHQ-75 | 4314 | 21 | 4139 | 10 | 4226 | 17 | - | - | - | - | 17.2 | - |
| 27 | EHQ-76 | 4353 | 20 | 3599 | 22 | 3976 | 21 | - | - | - | - | 1.9 | - |
| 28 | EHQ-77 | 6791 | 4 | 4844 | 3 | 5818 | 2 | - | 7.4 | - | 28.3 | 37.1 | 31.8 |
| CHECKS | | | | | | | | | | | | | |
| 29 | HQPM-1 | 8561 | 1 | 4509 | 6 | 6535 | 1 | - | - | - | 61.8 | 27.6 | 48.1 |
| 30 | Bio-9637 | 5292 | 9 | 3533 | 23 | 4412 | 14 | - | - | - | - | - | - |
| | Location Mean | 4900 | | 3852 | | 4376 | | | | | | | |
| | Mean Stand | 31 | | 35 | | 33 | | | | | | | |
| | C.D. (5%) | 801 | | 748 | | 774 | | | | | | | |
| | C.V. (%) | 9.99 | | 11.88 | | - | | | | | | | |
| | F (Prob) | 0 | | 0 | | | | | | | | | |
| | Plot Size | 4.8 | | 4.8 | | - | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | |
| | Sowing Date | 28-06 | | 13-07 | | - | | | | | | | |
| | Harvest Date | 7-10 | | 7-10 | | - | | | | | | | |
| | Irrigation Nos | 2 | | - | | - | | | | | | | |
| | Fertilizer Applied N | 90 | | 100 | | - | | | | | | | |
| | Fertilizer Applied P | 60 | | 50 | | - | | | | | | | |
| | Fertilizer Applied K | - | | 50 | | - | | | | | | | |

TABLE No. 56 (Cont..)

| Sl No | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 50% DRY HUSK | | | MOISTURE | | | |
|----------|-------------------------|------|------|---------------------|------|------|----------------------|------|------|----------|------|------|-------|
| | UDAI | GODH | Mean | UDAI | GODH | Mean | UDAI | GODH | Mean | UDAI | GODH | Mean | |
| 1 | 46.7 | 44.7 | 45.7 | 49.0 | 49.3 | 49.2 | 79.7 | 73.3 | 76.5 | 17.8 | 28.9 | 23.3 | |
| 2 | 46.0 | 45.0 | 45.5 | 49.0 | 49.0 | 49.0 | 78.7 | 72.0 | 75.3 | 16.5 | 31.8 | 24.1 | |
| 3 | 51.7 | 46.3 | 49.0 | 52.3 | 49.3 | 50.8 | 82.0 | 73.3 | 77.7 | 18.8 | 27.2 | 23.0 | |
| 4 | 47.0 | 47.0 | 47.0 | 48.3 | 51.7 | 50.0 | 79.0 | 72.3 | 75.7 | 18.3 | 32.1 | 25.2 | |
| 5 | 49.3 | 49.3 | 49.3 | 51.0 | 51.7 | 51.3 | 78.0 | 72.7 | 75.3 | 19.2 | 35.5 | 27.4 | |
| 6 | 45.0 | 43.7 | 44.3 | 46.3 | 48.0 | 47.2 | 80.3 | 73.3 | 76.8 | 19.0 | 35.1 | 27.0 | |
| 7 | 47.3 | 45.0 | 46.2 | 48.7 | 49.7 | 49.2 | 79.3 | 72.7 | 76.0 | 19.8 | 32.7 | 26.2 | |
| 8 | 48.7 | 49.3 | 49.0 | 50.3 | 51.3 | 50.8 | 81.3 | 73.7 | 77.5 | 18.8 | 32.1 | 25.4 | |
| 9 | 45.0 | 44.0 | 44.5 | 47.0 | 47.3 | 47.2 | 78.3 | 72.7 | 75.5 | 21.0 | 29.2 | 25.1 | |
| 10 | 45.3 | 43.0 | 44.2 | 47.3 | 45.3 | 46.3 | 78.7 | 73.3 | 76.0 | 16.7 | 24.8 | 20.8 | |
| 11 | 46.0 | 45.7 | 45.8 | 47.7 | 50.3 | 49.0 | 79.0 | 74.0 | 76.5 | 15.7 | 36.2 | 26.0 | |
| 12 | 44.3 | 44.0 | 44.2 | 45.7 | 48.7 | 47.2 | 79.0 | 72.7 | 75.8 | 18.4 | 19.6 | 19.0 | |
| 13 | 47.0 | 47.3 | 47.2 | 49.7 | 50.7 | 50.2 | 79.7 | 71.3 | 75.5 | 19.5 | 35.2 | 27.4 | |
| 14 | 47.0 | 46.3 | 46.7 | 49.0 | 49.3 | 49.2 | 78.7 | 71.3 | 75.0 | 20.0 | 37.3 | 28.6 | |
| 15 | 47.3 | 46.3 | 46.8 | 50.0 | 52.7 | 51.3 | 80.7 | 72.0 | 76.3 | 18.7 | 34.2 | 26.4 | |
| 16 | 46.3 | 45.0 | 45.7 | 48.0 | 48.7 | 48.3 | 78.3 | 72.7 | 75.5 | 19.2 | 32.8 | 26.0 | |
| 17 | 48.0 | 48.0 | 48.0 | 50.7 | 51.3 | 51.0 | 78.7 | 72.7 | 75.7 | 17.7 | 35.5 | 26.6 | |
| 18 | 48.0 | 47.7 | 47.8 | 49.3 | 48.7 | 49.0 | 80.0 | 73.7 | 76.8 | 19.3 | 26.4 | 22.9 | |
| 19 | 44.0 | 43.7 | 43.8 | 45.7 | 48.3 | 47.0 | 79.3 | 74.0 | 76.7 | 18.6 | 31.2 | 24.9 | |
| 20 | 47.0 | 44.3 | 45.7 | 49.7 | 46.0 | 47.8 | 79.7 | 72.0 | 75.8 | 19.6 | 23.8 | 21.7 | |
| 21 | 45.3 | 46.0 | 45.7 | 47.0 | 49.0 | 48.0 | 79.3 | 73.3 | 76.3 | 17.6 | 25.4 | 21.5 | |
| 22 | 48.3 | 49.7 | 49.0 | 50.3 | 51.7 | 51.0 | 79.3 | 73.3 | 76.3 | 17.9 | 22.0 | 20.0 | |
| 23 | 54.0 | 52.3 | 53.2 | 56.3 | 54.3 | 55.3 | 80.7 | 72.7 | 76.7 | 22.5 | 33.9 | 28.2 | |
| 24 | 44.0 | 43.0 | 43.5 | 45.3 | 46.7 | 46.0 | 83.3 | 72.7 | 78.0 | 18.0 | 29.4 | 23.7 | |
| 25 | 45.0 | 44.3 | 44.7 | 47.0 | 50.3 | 48.7 | 79.7 | 73.3 | 76.5 | 19.5 | 34.5 | 27.0 | |
| 26 | 45.0 | 44.0 | 44.5 | 46.3 | 48.3 | 47.3 | 79.7 | 73.3 | 76.5 | 18.5 | 23.2 | 20.8 | |
| 27 | 44.7 | 44.3 | 44.5 | 46.7 | 47.0 | 46.8 | 78.3 | 72.0 | 75.2 | 17.9 | 23.9 | 20.9 | |
| 28 | 46.7 | 47.3 | 47.0 | 49.0 | 50.7 | 49.8 | 81.7 | 57.0 | 69.3 | 20.3 | 25.8 | 23.0 | |
| CHECKS | | | | | | | | | | | | | |
| 29 | HQPM-1 | 52.7 | 51.7 | 52.2 | 53.7 | 52.7 | 53.2 | 87.7 | 77.7 | 82.7 | 21.7 | 35.1 | 28.4 |
| 30 | Bio-9637 | 51.0 | 51.7 | 51.3 | 52.3 | 53.0 | 52.7 | 86.3 | 75.7 | 81.0 | 20.0 | 35.1 | 27.5 |
| | Loc. Mean | 47.1 | 46.3 | 46.7 | 49.0 | 49.7 | 49.3 | 80.1 | 72.6 | 76.4 | 18.9 | 30.3 | 24.6 |
| | C.D. (5%) | 2.20 | 1.24 | 1.88 | 1.81 | 1.93 | 2.55 | 2.55 | 8.66 | 5.16 | 2.01 | 0.00 | 7.02 |
| | C.V. (%) | 2.86 | 1.64 | 1.97 | 2.27 | 2.37 | 2.53 | 1.95 | 7.31 | 3.30 | 6.52 | 0.00 | 13.96 |
| | F (Prob.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.20 | 0.00 | 0.00 | 0.26 |

TABLE No. 56 (Cont..)

| Sl No | PEDIGREE | PLANT HEIGHT CM | | | EAR HEIGHT CM | | | SHELLING % | | | STAND ('000/ha) | | |
|----------|-----------|-----------------|------|--------------|---------------|------|--------------|------------|------|--------------|-----------------|------|--------------|
| | | UDAI | GODH | ZN 5 Mean | UDAI | GODH | ZN 5 Mean | UDAI | GODH | ZN 5 Mean | UDAI | GODH | ZN 5 Mean |
| 1 | EHQ-50 | 200 | 153 | 177 | 90 | 74 | 82 | 81.0 | 70.9 | 76.0 | 64 | 74 | 69 |
| 2 | EHQ-51 | 203 | 161 | 182 | 100 | 83 | 92 | 78.7 | 81.7 | 80.2 | 67 | 82 | 74 |
| 3 | EHQ-52 | 187 | 149 | 168 | 92 | 83 | 87 | 80.3 | 78.1 | 79.2 | 45 | 72 | 59 |
| 4 | EHQ-53 | 198 | 149 | 174 | 92 | 76 | 84 | 81.0 | 81.8 | 81.4 | 69 | 77 | 73 |
| 5 | EHQ-54 | 205 | 199 | 202 | 105 | 106 | 106 | 79.5 | 82.5 | 81.0 | 69 | 68 | 69 |
| 6 | EHQ-55 | 195 | 146 | 171 | 98 | 72 | 85 | 82.7 | 80.9 | 81.8 | 67 | 75 | 71 |
| 7 | EHQ-56 | 212 | 159 | 185 | 93 | 82 | 88 | 80.7 | 66.7 | 73.7 | 67 | 75 | 71 |
| 8 | EHQ-57 | 190 | 173 | 182 | 102 | 82 | 92 | 83.7 | 84.0 | 83.9 | 68 | 73 | 70 |
| 9 | EHQ-58 | 175 | 154 | 165 | 73 | 66 | 70 | 82.1 | 75.5 | 78.8 | 69 | 78 | 74 |
| 10 | EHQ-59 | 183 | 142 | 163 | 105 | 77 | 91 | 81.0 | 78.8 | 79.9 | 63 | 72 | 67 |
| 11 | EHQ-60 | 195 | 163 | 179 | 83 | 79 | 81 | 80.5 | 46.2 | 63.3 | 65 | 74 | 69 |
| 12 | EHQ-61 | 223 | 148 | 186 | 107 | 75 | 91 | 80.2 | 79.1 | 79.6 | 58 | 69 | 64 |
| 13 | EHQ-62 | 195 | 150 | 173 | 85 | 73 | 79 | 81.1 | 58.6 | 69.9 | 67 | 74 | 70 |
| 14 | EHQ-63 | 212 | 158 | 185 | 112 | 93 | 102 | 79.7 | 78.2 | 78.9 | 60 | 81 | 71 |
| 15 | EHQ-64 | 183 | 150 | 167 | 97 | 73 | 85 | 82.6 | 68.1 | 75.4 | 72 | 72 | 72 |
| 16 | EHQ-65 | 210 | 157 | 183 | 107 | 73 | 90 | 81.8 | 82.6 | 82.2 | 63 | 79 | 71 |
| 17 | EHQ-66 | 200 | 183 | 192 | 97 | 95 | 96 | 81.6 | 77.1 | 79.4 | 69 | 75 | 72 |
| 18 | EHQ-67 | 188 | 149 | 169 | 98 | 75 | 86 | 80.6 | 70.8 | 75.7 | 75 | 74 | 75 |
| 19 | EHQ-68 | 195 | 152 | 174 | 108 | 78 | 93 | 83.0 | 72.6 | 77.8 | 65 | 74 | 70 |
| 20 | EHQ-69 | 195 | 167 | 181 | 100 | 77 | 88 | 81.0 | 82.0 | 81.5 | 69 | 68 | 68 |
| 21 | EHQ-70 | 183 | 146 | 165 | 98 | 76 | 87 | 82.9 | 83.3 | 83.1 | 67 | 78 | 73 |
| 22 | EHQ-71 | 210 | 179 | 195 | 90 | 92 | 91 | 81.9 | 77.7 | 79.8 | 67 | 72 | 69 |
| 23 | EHQ-72 | 202 | 146 | 174 | 103 | 73 | 88 | 81.0 | 72.0 | 76.5 | 60 | 71 | 66 |
| 24 | EHQ-73 | 183 | 152 | 168 | 88 | 76 | 82 | 82.2 | 76.9 | 79.6 | 59 | 60 | 60 |
| 25 | EHQ-74 | 192 | 153 | 172 | 82 | 67 | 74 | 81.9 | 82.4 | 82.1 | 59 | 67 | 63 |
| 26 | EHQ-75 | 197 | 158 | 177 | 90 | 77 | 83 | 82.5 | 75.9 | 79.2 | 63 | 75 | 69 |
| 27 | EHQ-76 | 207 | 154 | 180 | 107 | 73 | 90 | 80.3 | 76.4 | 78.3 | 65 | 79 | 72 |
| 28 | EHQ-77 | 212 | 163 | 187 | 95 | 78 | 87 | 81.7 | - | 81.7 | 64 | 75 | 69 |
| CHECKS | | | | | | | | | | | | | |
| 29 | HQPM-1 | 203 | 166 | 185 | 85 | 80 | 83 | 80.7 | 77.9 | 79.3 | 69 | 77 | 73 |
| 30 | Bio-9637 | 223 | 186 | 205 | 95 | 91 | 93 | 80.2 | 76.1 | 78.2 | 35 | 35 | 35 |
| | Loc. Mean | 199 | 159 | 179 | 96 | 79 | 88 | 81.3 | 73.2 | 78.6 | 64 | 73 | 68 |
| | C.D. (5%) | 10.0 | 18.0 | 19.9 | 6.6 | 10.5 | 15.0 | 1.93 | - | 11.52 | 8.6 | 9.9 | 9.2 |
| | C.V. (%) | 3.1 | 6.9 | 5.4 | 4.2 | 8.1 | 8.4 | 1.45 | - | 7.17 | 8.2 | 8.3 | 6.6 |
| | F (Prob.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.43 | 0.0 | 0.0 | 0.0 |

AGRONOMY-2009

BRIEF PROGRESS REPORT – 2009

OF

AGRONOMIC RESEARCH ON MAIZE SYSTEMS UNDER AICRP ON MAIZE

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

1. Genotypic response to nutrients:

The genotypes of different maturity groups were evaluated under 3 fertility levels i.e. N: P₂O₅: K₂O 100:50:50, 150:65:65 and 200:80:80 in all the five zones. The (Table 1) summarizes the response of genotypes of different maturity groups in different ago-ecologies. Across the zones, the extra early and early genotypes responded to medium nutrient levels (150:65:65, N: P₂O₅: K₂O) at 16 of the 18 locations where as high nutrient levels (200:80:80, N: P₂O₅: K₂O), the response was recorded at 7 locations of the 19 locations. The medium maturity genotypes responded to medium nutrient levels at 17 of the 18 locations whereas the response to high nutrient levels was recorded at 11 of the 19 locations. The response of late maturity genotypes to medium nutrient levels was recorded at almost all the locations (6 of the 7) and at less than 20 % locations (1 of the 7), the response was recorded with high nutrient levels. Across genotypes and maturity groups, the response to medium nutrient level was recorded at 39 of the 43 locations whereas in high nutrient levels, it was recorded at less than 50 % locations (19 of the 45 locations). Across genotypes the response to high nutrient levels varied greatly between the zones and maximum response was recorded in Zone-II and lowest in Zone V.

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

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

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

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

2. Tillage management in maize systems:

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

3. Nutrient management in maize systems:

- A. **Site-Specific nutrient management (SSNM):** The trials on SSNM in 2 major maize systems i.e. maize-wheat at 8 locations (Delhi, Bajaura, Udampur, Dholi, Ludhiana, Pantnagar,

Banswara and Ranchi) and rice-maize at 4 locations (Jorhat, Banswara, Hyderabad and Dholi) were conducted during *Kharif* 2009. Significantly higher yield of maize was recorded under SSNM (Figure 2) compared to state recommendations almost at all the locations. Rice yield under SSNM was significantly higher compared to rest of all treatments at Hyderabad during *Kharif*-2009. During *Rabi*-2008-09, the wheat yield was significantly higher under SSNM over to other treatments at Ranchi and Pantnagar.

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

4. Intercropping systems: Studies were conducted during winter 2008-09 at various AICRP centers as well as DMR New Delhi to evaluate the feasibility of intensification in maize based systems through compatible and profitable intercropping systems. During *Rabi* season (at Banswara) paired row intercropping of maize resulted in significantly higher maize equivalent yield (MEY) compared to sole maize with maximum being under maize + Garlic (3:8) (Figure 4).

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

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A - 1

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

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

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

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

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

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

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

Cont....

A - 2

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

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

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

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

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

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

Cont....

A - 3

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

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

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

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

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

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

Cont....

A - 4

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

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

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

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

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

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

Cont....

A - 5

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

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

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

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

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

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

A - 6

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

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

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

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

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

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

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

Cont...

A - 7

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

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

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

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

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

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

Cont...

A - 8

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

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

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

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

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

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

Cont...

A - 9

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

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

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

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

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

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

A - 10

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

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | Cob Yield (Kg/ha) | Plant Stand ('000/ha) | | No. of Cobs (000/ha) | |
|-----------|----------|---------------------|--------|-------------------|-----------------------|--------|----------------------|--------|
| | | Bajaura | Kangra | | Bajaura | Kangra | Bajaura | Kangra |
| 100:50:50 | BH-4062 | 8371 | 5971 | 8502 | 82.8 | 62.2 | 80.5 | 60.4 |
| | HM-8 | 7917 | 5433 | 7736 | 81.4 | 58.9 | 76.9 | 57.1 |
| | HM-9 | 8383 | 4953 | 7051 | 79.4 | 54.0 | 76.9 | 52.9 |
| | HM-10 | 8093 | 5333 | 7591 | 81.1 | 58.2 | 78.9 | 57.3 |
| 150:65:65 | BH-4062 | 9161 | 5802 | 8262 | 82.8 | 60.9 | 81.1 | 58.7 |
| | HM-8 | 9129 | 5404 | 7696 | 83.1 | 58.0 | 76.9 | 56.4 |
| | HM-9 | 9902 | 5224 | 7436 | 82.8 | 55.6 | 80.0 | 54.0 |
| | HM-10 | 9925 | 5329 | 7584 | 80.6 | 56.4 | 78.9 | 55.1 |
| 200:80:80 | BH-4062 | 9844 | 6020 | 8569 | 81.1 | 61.6 | 78.1 | 58.9 |
| | HM-8 | 9793 | 5387 | 7669 | 82.5 | 56.9 | 80.6 | 56.0 |
| | HM-9 | 11327 | 5227 | 7440 | 82.8 | 55.1 | 80.6 | 53.8 |
| | HM-10 | 12241 | 5209 | 7416 | 81.7 | 55.6 | 79.7 | 54.0 |

| | | | | | | | |
|--------------------|--------|--------|--------|------|------|------|------|
| Location mean | 9507.3 | 5441.1 | 7745.9 | 81.8 | 57.8 | 79.1 | 56.2 |
| C.D.(5%) AiBj-AiBk | 791.9 | 637.2 | 906.8 | 2.8 | 3.8 | 3.7 | 3.8 |
| C.D.(5%) AiBk-AjBk | 819.6 | 764.3 | 1087.7 | 3.3 | 4.2 | 3.5 | 3.9 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|-------|------|------|------|------|------|------|
| 100:50:50 | 8191 | 5423 | 7720 | 81.2 | 58.3 | 78.3 | 56.9 |
| 150:65:65 | 9529 | 5440 | 7744 | 82.3 | 57.7 | 79.2 | 56.1 |
| 200:80:80 | 10801 | 5461 | 7773 | 82.0 | 57.3 | 79.7 | 55.7 |

| | | | | | | | |
|-----------------|-------|-------|-------|------|------|------|------|
| C.D.(5%) Ai-Aj | 459.7 | 539.3 | 767.4 | 2.3 | 2.6 | 1.5 | 2.3 |
| C.V.(%) Error A | 4.3 | 8.7 | 8.7 | 2.5 | 4.0 | 1.6 | 3.6 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|---------|-------|------|------|------|------|------|------|
| BH-4062 | 9125 | 5931 | 8444 | 82.2 | 61.6 | 79.9 | 59.3 |
| HM-8 | 8946 | 5408 | 7700 | 82.3 | 57.9 | 78.1 | 56.5 |
| HM-9 | 9871 | 5135 | 7309 | 81.7 | 54.9 | 79.2 | 53.6 |
| HM-10 | 10086 | 5290 | 7530 | 81.1 | 56.7 | 79.2 | 55.5 |

| | | | | | | | |
|---------------|-------|-------|-------|------|-----|------|-----|
| C.D.(5%)Bi-Bj | 457.2 | 367.9 | 523.5 | 1.6 | 2.2 | 2.1 | 2.2 |
| C.V.(%)ErrorB | 4.9 | 6.8 | 6.8 | 2.0 | 3.9 | 2.7 | 3.9 |
| F(5%) | s | s | s | n.s. | s | n.s. | s |

Cont...

A - 11

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

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

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

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

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

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

A - 12

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

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

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

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

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

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

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

Cont...

A - 13

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

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

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

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

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

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

Cont...

A - 14

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

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

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

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

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

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

Cont...

A - 15

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

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

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

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

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

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

Cont...

A - 16

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

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

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

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

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

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

Cont...

A - 17

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

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

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

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

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

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

A - 18

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

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | | Cob Yield (Kg/ha) | | | Fodder Yield (Kg/ha) |
|-----------|-----------|---------------------|----------|--------|----------|-------------------|-------|--------|----------------------|
| | | Ambikapur | Bahraich | Ranchi | Varanasi | Ambikapur | Dholi | Ranchi | Ranchi |
| N Levels | Germplasm | | | | | | | | |
| 100:50:50 | JH- 31153 | 6100 | 3458 | 4352 | 7556 | 7489 | 3778 | 5270 | 5556 |
| | BISCO-111 | 6244 | 3125 | 4414 | 6926 | 7567 | 3022 | 5365 | 4956 |
| | CP- 838 | 5767 | 3431 | 4195 | 9481 | 7111 | 3133 | 5072 | 6400 |
| | HM-8 | 4767 | 3056 | 4122 | 7444 | 6167 | 2644 | 5029 | 7533 |
| | HM-9 | 3900 | 3083 | 3361 | 7556 | 4967 | 2600 | 4157 | 6667 |
| | HM-10 | 4556 | 3229 | 3518 | 6556 | 5767 | 2733 | 4347 | 5667 |
| 150:65:65 | JH- 31153 | 6922 | 4778 | 5563 | 9111 | 8178 | 5578 | 6673 | 9044 |
| | BISCO-111 | 7033 | 4556 | 5521 | 7481 | 8622 | 3756 | 6688 | 7222 |
| | CP- 838 | 6389 | 4882 | 5011 | 10444 | 7878 | 4667 | 6073 | 6778 |
| | HM-8 | 5222 | 4708 | 4786 | 8222 | 6611 | 3689 | 5806 | 5778 |
| | HM-9 | 4367 | 4333 | 4505 | 8778 | 5433 | 3022 | 5472 | 6378 |
| | HM-10 | 5378 | 4556 | 4740 | 7259 | 6567 | 3578 | 5755 | 8022 |
| 200:80:80 | JH- 31153 | 7278 | 6438 | 5978 | 8889 | 8456 | 5911 | 7129 | 7156 |
| | BISCO-111 | 7244 | 5896 | 6169 | 8667 | 8778 | 5400 | 7382 | 8178 |
| | CP- 838 | 7522 | 6556 | 5542 | 10852 | 9089 | 5467 | 6686 | 9200 |
| | HM-8 | 5556 | 5681 | 4648 | 8148 | 6700 | 4022 | 5696 | 5022 |
| | HM-9 | 5678 | 6181 | 4672 | 8519 | 7044 | 3689 | 5669 | 6733 |
| | HM-10 | 5900 | 5722 | 5377 | 7074 | 7400 | 4889 | 6518 | 9867 |

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

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

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

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

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

Cont....

A - 19

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

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

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

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

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

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

Cont....

A - 20

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

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

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

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

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

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

Cont....

A - 21

| Main Plot | Sub Plot | Plant Height (cm) | | | | | Ear Height (cm) | | | |
|-----------|-----------|-------------------|-----------|-----------|----------|-------|-----------------|----------|-----------|--------|
| | | N Levels | Germplasm | Ambikapur | Bahraich | Dholi | Ranchi | Varanasi | Ambikapur | Ranchi |
| 100:50:50 | JH- 31153 | | 235.9 | 170.7 | 104.0 | 230.5 | 191.7 | 90.0 | 89.0 | 95.7 |
| | BISCO-111 | | 227.1 | 154.7 | 104.3 | 225.1 | 186.0 | 86.4 | 85.4 | 98.0 |
| | CP- 828 | | 240.3 | 179.0 | 109.0 | 235.4 | 204.7 | 83.3 | 82.3 | 93.3 |
| | HM-8 | | 223.7 | 153.7 | 94.7 | 219.2 | 184.7 | 85.0 | 84.0 | 97.3 |
| | HM-9 | | 234.5 | 153.3 | 94.0 | 216.1 | 191.0 | 78.2 | 77.2 | 100.7 |
| | HM-10 | | 261.6 | 161.7 | 107.3 | 231.4 | 208.3 | 91.7 | 90.7 | 98.0 |
| 150:65:65 | JH- 31153 | | 236.7 | 164.7 | 114.7 | 237.5 | 196.0 | 94.7 | 93.7 | 90.0 |
| | BISCO-111 | | 228.1 | 165.7 | 114.0 | 229.3 | 191.3 | 96.5 | 95.5 | 93.7 |
| | CP- 828 | | 234.7 | 157.3 | 118.0 | 235.9 | 211.3 | 82.3 | 81.3 | 90.3 |
| | HM-8 | | 221.9 | 157.3 | 97.0 | 222.4 | 188.7 | 85.5 | 84.5 | 96.7 |
| | HM-9 | | 221.7 | 176.7 | 103.0 | 223.0 | 195.0 | 78.8 | 77.8 | 95.7 |
| | HM-10 | | 271.0 | 175.0 | 122.7 | 260.0 | 213.3 | 106.0 | 98.3 | 101.7 |
| 200:80:80 | JH- 31153 | | 231.7 | 177.3 | 119.3 | 241.7 | 199.3 | 93.1 | 92.1 | 93.0 |
| | BISCO-111 | | 225.9 | 177.7 | 115.0 | 233.3 | 196.0 | 88.6 | 87.6 | 94.0 |
| | CP- 828 | | 236.2 | 184.7 | 117.3 | 246.5 | 210.0 | 80.4 | 79.4 | 93.3 |
| | HM-8 | | 220.7 | 185.0 | 102.3 | 229.2 | 195.3 | 85.3 | 84.3 | 93.7 |
| | HM-9 | | 216.8 | 190.7 | 104.7 | 240.8 | 202.0 | 84.7 | 83.7 | 95.3 |
| | HM-10 | | 244.4 | 185.3 | 126.7 | 255.6 | 213.0 | 102.9 | 108.6 | 95.7 |

| | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|------|------|------|
| Location mean | 234.1 | 170.6 | 109.3 | 234.1 | 198.8 | 88.5 | 87.5 | 95.3 |
| C.D.(5%) AiBj-AiBk | 20.3 | 2.3 | 8.6 | 20.3 | 7.4 | 13.1 | 12.9 | 7.6 |
| C.D.(5%) AiBk-AjBk | 27.3 | 4.0 | 14.5 | 27.3 | 7.2 | 16.7 | 16.2 | 10.9 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|------|------|------|
| 100:50:50 | 237.2 | 162.2 | 102.2 | 226.3 | 194.4 | 85.8 | 84.8 | 97.2 |
| 150:65:65 | 235.7 | 166.1 | 111.6 | 234.7 | 199.3 | 90.6 | 88.5 | 94.7 |
| 200:80:80 | 229.3 | 183.4 | 114.2 | 241.2 | 202.6 | 89.2 | 89.3 | 94.2 |

| | | | | | | | | |
|-----------------|------|-----|------|------|-----|------|------|------|
| C.D.(5%) Ai-Aj | 20.6 | 3.4 | 12.4 | 20.6 | 2.6 | 11.9 | 11.4 | 8.6 |
| C.V.(%) Error A | 9.5 | 2.2 | 12.3 | 9.5 | 1.4 | 14.5 | 14.1 | 9.7 |
| F(5%) | n.s. | s | n.s. | n.s. | s | n.s. | n.s. | n.s. |

| | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|------|------|
| JH- 31153 | 234.8 | 170.9 | 112.7 | 236.6 | 195.7 | 92.6 | 91.6 | 92.9 |
| BISCO-111 | 227.0 | 166.0 | 111.1 | 229.2 | 191.1 | 90.5 | 89.5 | 95.2 |
| CP- 828 | 237.1 | 173.7 | 114.8 | 239.3 | 208.7 | 82.0 | 81.0 | 92.3 |
| HM-8 | 222.1 | 165.3 | 98.0 | 223.6 | 189.6 | 85.3 | 84.3 | 95.9 |
| HM-9 | 224.3 | 173.6 | 100.6 | 226.6 | 196.0 | 80.6 | 79.6 | 97.2 |
| HM-10 | 259.0 | 174.0 | 118.9 | 249.0 | 211.6 | 100.2 | 99.2 | 98.4 |

| | | | | | | | | |
|---------------|------|-----|-----|------|-----|-----|-----|------|
| C.D.(5%)Bi-Bj | 11.7 | 1.3 | 4.9 | 11.7 | 4.3 | 7.6 | 7.4 | 4.4 |
| C.V.(%)ErrorB | 5.2 | 0.8 | 4.7 | 5.2 | 2.2 | 8.9 | 8.8 | 4.8 |
| F(5%) | s | s | s | s | s | s | s | n.s. |

Cont....

A - 22

| Main Plot | Sub Plot | Days of 50% Silking | | Days to 50% Tasseling | Barren Plants (000/ha) |
|-----------|-----------|---------------------|----------|-----------------------|------------------------|
| | | Dholi | Varanasi | Varanasi | Varanasi |
| N Levels | Germplasm | | | | |
| 100:50:50 | JH- 31153 | 64.7 | 50.0 | 44.0 | 0.0 |
| | BISCO-111 | 63.3 | 53.0 | 46.7 | 0.7 |
| | CP- 828 | 63.7 | 50.0 | 46.3 | 0.4 |
| | HM-8 | 65.7 | 50.3 | 47.0 | 0.0 |
| | HM-9 | 66.0 | 49.7 | 46.0 | 0.0 |
| | HM-10 | 70.0 | 52.7 | 46.7 | 0.0 |
| 150:65:65 | JH- 31153 | 60.3 | 50.0 | 44.0 | 0.4 |
| | BISCO-111 | 63.7 | 52.3 | 46.3 | 0.7 |
| | CP- 828 | 61.7 | 50.0 | 46.7 | 1.1 |
| | HM-8 | 62.7 | 49.3 | 46.3 | 1.1 |
| | HM-9 | 63.3 | 49.3 | 45.7 | 0.0 |
| | HM-10 | 66.3 | 52.0 | 46.3 | 0.0 |
| 200:80:80 | JH- 31153 | 61.0 | 49.3 | 43.3 | 0.7 |
| | BISCO-111 | 60.3 | 52.0 | 46.3 | 0.7 |
| | CP- 828 | 60.7 | 50.0 | 46.3 | 0.4 |
| | HM-8 | 62.0 | 49.7 | 46.0 | 0.0 |
| | HM-9 | 62.0 | 49.0 | 45.3 | 0.7 |
| | HM-10 | 65.3 | 52.7 | 47.3 | 0.7 |

| | | | | |
|--------------------|------|------|------|------|
| Location mean | 63.5 | 50.6 | 45.9 | 0.4 |
| C.D.(5%) AiBj-AiBk | 2.4 | 1.0 | 1.1 | 1.0 |
| C.D.(5%) AiBk-AjBk | 2.4 | 1.1 | 1.2 | 1.1 |
| F(5%) | n.s. | n.s. | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|-----|
| 100:50:50 | 65.6 | 50.9 | 46.1 | 0.2 |
| 150:65:65 | 63.0 | 50.5 | 45.9 | 0.6 |
| 200:80:80 | 61.9 | 50.4 | 45.8 | 0.6 |

| | | | | |
|-----------------|-----|------|------|-------|
| C.D.(5%) Ai-Aj | 1.0 | 0.6 | 0.7 | 0.7 |
| C.V.(%) Error A | 1.7 | 1.3 | 1.7 | 166.0 |
| F(5%) | s | n.s. | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|-----|
| JH- 31153 | 62.0 | 49.8 | 43.8 | 0.4 |
| BISCO-111 | 62.4 | 52.4 | 46.4 | 0.7 |
| CP- 828 | 62.0 | 50.0 | 46.4 | 0.6 |
| HM-8 | 63.4 | 49.8 | 46.4 | 0.4 |
| HM-9 | 63.8 | 49.3 | 45.7 | 0.2 |
| HM-10 | 67.2 | 52.4 | 46.8 | 0.2 |

| | | | | |
|---------------|-----|-----|-----|-------|
| C.D.(5%)Bi-Bj | 1.4 | 0.6 | 0.6 | 0.6 |
| C.V.(%)ErrorB | 2.3 | 1.2 | 1.4 | 135.5 |
| F(5%) | s | s | s | n.s. |

Cont....

A - 23

| Main Plot | Sub Plot | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels/Row | Test Weight (g) 100 Grain | Shelling (%) |
|-----------|-----------|----------------|-----------------|-----------------|--------------------|---------------------------|--------------|
| N Levels | Germplasm | Ambikapur | | | | | |
| 100:50:50 | JH- 31153 | 14.4 | 15.0 | 14.3 | 35.9 | 33.3 | 81.5 |
| | BISCO-111 | 15.0 | 15.5 | 14.7 | 38.7 | 32.7 | 82.5 |
| | CP- 828 | 14.5 | 14.3 | 13.2 | 36.9 | 35.2 | 81.1 |
| | HM-8 | 14.1 | 14.9 | 12.9 | 33.1 | 31.7 | 77.5 |
| | HM-9 | 13.5 | 14.4 | 12.7 | 33.3 | 30.8 | 78.4 |
| | HM-10 | 13.9 | 14.5 | 12.1 | 36.9 | 32.2 | 79.0 |
| 150:65:65 | JH- 31153 | 14.6 | 15.1 | 13.7 | 36.8 | 36.6 | 84.7 |
| | BISCO-111 | 15.2 | 15.9 | 13.9 | 39.3 | 39.2 | 81.6 |
| | CP- 828 | 14.6 | 15.4 | 13.6 | 36.3 | 34.6 | 81.1 |
| | HM-8 | 14.2 | 15.0 | 13.0 | 33.8 | 28.3 | 79.1 |
| | HM-9 | 14.1 | 14.3 | 12.7 | 33.2 | 29.7 | 80.3 |
| | HM-10 | 14.3 | 14.6 | 13.1 | 36.9 | 35.7 | 81.9 |
| 200:80:80 | JH- 31153 | 14.8 | 15.3 | 13.4 | 37.9 | 35.5 | 86.1 |
| | BISCO-111 | 15.7 | 16.1 | 14.2 | 40.5 | 38.3 | 82.6 |
| | CP- 828 | 14.5 | 15.1 | 13.7 | 37.7 | 34.0 | 82.8 |
| | HM-8 | 14.0 | 15.9 | 12.8 | 37.3 | 31.6 | 82.9 |
| | HM-9 | 14.1 | 14.9 | 13.3 | 37.3 | 30.5 | 80.8 |
| | HM-10 | 14.6 | 15.2 | 13.1 | 36.1 | 35.1 | 79.7 |

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Location mean | 14.4 | 15.1 | 13.4 | 36.6 | 33.6 | 81.3 |
| C.D.(5%) AiBj-AiBk | 0.9 | 1.4 | 1.1 | 2.6 | 6.3 | 4.6 |
| C.D.(5%) AiBk-AjBk | 1.0 | 3.2 | 1.0 | 4.0 | 6.0 | 4.5 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 14.2 | 14.8 | 13.3 | 35.8 | 32.7 | 80.0 |
| 150:65:65 | 14.5 | 15.1 | 13.3 | 36.0 | 34.0 | 81.4 |
| 200:80:80 | 14.6 | 15.4 | 13.4 | 37.8 | 34.1 | 82.5 |

| | | | | | | |
|-----------------|------|------|------|------|------|-----|
| C.D.(5%) Ai-Aj | 0.6 | 3.0 | 0.3 | 3.2 | 2.0 | 1.8 |
| C.V.(%) Error A | 4.4 | 21.3 | 2.0 | 9.6 | 6.5 | 2.4 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| JH- 31153 | 14.6 | 15.1 | 13.8 | 36.8 | 35.1 | 84.1 |
| BISCO-111 | 15.3 | 15.8 | 14.3 | 39.5 | 36.7 | 82.2 |
| CP- 828 | 14.5 | 14.9 | 13.5 | 37.0 | 34.6 | 81.7 |
| HM-8 | 14.1 | 15.3 | 12.9 | 34.7 | 30.5 | 79.8 |
| HM-9 | 13.9 | 14.5 | 12.9 | 34.6 | 30.3 | 79.8 |
| HM-10 | 14.3 | 14.8 | 12.8 | 36.6 | 34.3 | 80.2 |

| | | | | | | |
|---------------|-----|-----|-----|-----|------|-----|
| C.D.(5%)Bi-Bj | 0.5 | 0.8 | 0.6 | 1.5 | 3.6 | 2.6 |
| C.V.(%)ErrorB | 3.9 | 5.6 | 5.0 | 4.3 | 11.2 | 3.4 |
| F(5%) | s | s | s | s | s | s |

Cont....

A - 24

| Main Plot | Sub Plot | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels/Row | Test Weight (g) 100 Grain | Shelling (%) |
|-----------|-----------|----------------|-----------------|-----------------|--------------------|---------------------------|--------------|
| N Levels | Germplasm | Ranchi | | | | | |
| 100:50:50 | JH- 31153 | 14.2 | 16.9 | 13.9 | 33.5 | 33.2 | 82.6 |
| | BISCO-111 | 13.9 | 16.3 | 13.3 | 33.6 | 32.6 | 82.3 |
| | CP- 828 | 14.1 | 15.9 | 14.1 | 32.7 | 32.1 | 82.7 |
| | HM-8 | 13.7 | 16.1 | 13.7 | 31.5 | 29.2 | 82.0 |
| | HM-9 | 14.0 | 15.7 | 14.2 | 29.5 | 32.9 | 80.9 |
| | HM-10 | 14.0 | 15.5 | 13.8 | 32.3 | 30.3 | 81.0 |
| 150:65:65 | JH- 31153 | 15.4 | 18.1 | 14.8 | 35.9 | 35.4 | 83.4 |
| | BISCO-111 | 14.7 | 17.7 | 14.8 | 36.2 | 38.2 | 82.5 |
| | CP- 828 | 14.8 | 18.9 | 14.8 | 37.7 | 32.3 | 82.5 |
| | HM-8 | 14.3 | 17.3 | 14.0 | 35.0 | 31.5 | 82.4 |
| | HM-9 | 14.6 | 16.3 | 14.5 | 30.1 | 33.5 | 82.2 |
| | HM-10 | 14.5 | 16.7 | 13.8 | 34.7 | 31.1 | 82.1 |
| 200:80:80 | JH- 31153 | 15.7 | 16.8 | 15.4 | 34.0 | 36.5 | 83.8 |
| | BISCO-111 | 15.5 | 19.0 | 15.2 | 35.9 | 39.1 | 83.5 |
| | CP- 828 | 15.5 | 18.6 | 14.8 | 36.3 | 34.0 | 82.9 |
| | HM-8 | 14.9 | 18.7 | 14.5 | 37.1 | 31.8 | 81.5 |
| | HM-9 | 15.0 | 17.4 | 14.2 | 32.9 | 34.1 | 82.4 |
| | HM-10 | 14.7 | 17.9 | 14.5 | 35.9 | 31.4 | 82.4 |

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Location mean | 14.6 | 17.2 | 14.3 | 34.2 | 33.3 | 82.4 |
| C.D.(5%) AiBj-AiBk | 1.2 | 1.9 | 1.2 | 3.4 | 6.9 | 2.7 |
| C.D.(5%) AiBk-AjBk | 1.4 | 2.1 | 1.3 | 3.6 | 6.4 | 2.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 14.0 | 16.1 | 13.8 | 32.2 | 31.8 | 81.9 |
| 150:65:65 | 14.7 | 17.5 | 14.4 | 34.9 | 33.6 | 82.5 |
| 200:80:80 | 15.2 | 18.1 | 14.8 | 35.3 | 34.5 | 82.8 |

| | | | | | | |
|-----------------|-----|-----|-----|-----|-----|------|
| C.D.(5%) Ai-Aj | 0.9 | 1.2 | 0.7 | 1.9 | 1.4 | 1.5 |
| C.V.(%) Error A | 6.3 | 7.6 | 5.1 | 5.9 | 4.5 | 1.9 |
| F(5%) | s | s | s | s | s | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| JH- 31153 | 15.1 | 17.3 | 14.7 | 34.5 | 35.0 | 83.2 |
| BISCO-111 | 14.7 | 17.7 | 14.4 | 35.2 | 36.6 | 82.7 |
| CP- 828 | 14.8 | 17.8 | 14.5 | 35.6 | 32.8 | 82.7 |
| HM-8 | 14.3 | 17.4 | 14.0 | 34.6 | 30.8 | 82.0 |
| HM-9 | 14.5 | 16.5 | 14.3 | 30.9 | 33.5 | 81.8 |
| HM-10 | 14.4 | 16.7 | 14.0 | 34.3 | 30.9 | 81.8 |

| | | | | | | |
|---------------|------|------|------|-----|------|------|
| C.D.(5%)Bi-Bj | 0.7 | 1.1 | 0.7 | 1.9 | 4.0 | 1.6 |
| C.V.(%)ErrorB | 4.9 | 6.6 | 5.1 | 5.9 | 12.4 | 2.0 |
| F(5%) | n.s. | n.s. | n.s. | s | s | n.s. |

A - 25

Table 6: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 in Zone IV

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | Cob Yield (Kg/ha) | | | |
|-----------|--------------|---------------------|------------|----------|-------------------|-----------|------------|----------|
| | | Hyderabad | Karimnagar | Kolhapur | Arbhavi | Hyderabad | Karimnagar | Kolhapur |
| N Levels | Genotypes | | | | | | | |
| 100:50:50 | BH-4062 | 5178 | 5828 | 6114 | 8556 | 6709 | 7300 | 7442 |
| | BISCO-111 | 6004 | 5939 | 5478 | 8472 | 8157 | 7261 | 6661 |
| | KAVERI-25K60 | 5002 | 7336 | 7517 | 7333 | 5398 | 9315 | 9136 |
| | HM-8 | 3672 | 7519 | 5206 | 6667 | 4678 | 8917 | 6178 |
| | HM-9 | 4254 | 6678 | 5764 | 6972 | 5756 | 7429 | 7050 |
| | HM-10 | 4237 | 6079 | 6856 | 7056 | 4963 | 7239 | 8139 |
| 150:65:65 | BH-4062 | 7335 | 6303 | 8378 | 8583 | 7928 | 8226 | 9975 |
| | BISCO-111 | 6450 | 5738 | 9403 | 8167 | 9161 | 7047 | 11264 |
| | KAVERI-25K60 | 5546 | 7831 | 9828 | 6833 | 5496 | 10158 | 11819 |
| | HM-8 | 4894 | 8165 | 6736 | 6778 | 6339 | 9811 | 8014 |
| | HM-9 | 5709 | 7519 | 6928 | 8611 | 6972 | 8347 | 8214 |
| | HM-10 | 5220 | 7533 | 8097 | 9111 | 6024 | 8293 | 9808 |
| 200:80:80 | BH-4062 | 8007 | 7086 | 9061 | 7417 | 8474 | 9190 | 10956 |
| | BISCO-111 | 6628 | 7353 | 9039 | 7000 | 9226 | 9331 | 10844 |
| | KAVERI-25K60 | 5194 | 9021 | 10519 | 7083 | 5844 | 11950 | 12486 |
| | HM-8 | 6593 | 9086 | 7339 | 7806 | 6887 | 10458 | 8814 |
| | HM-9 | 7470 | 8017 | 7492 | 8417 | 7296 | 9181 | 8761 |
| | HM-10 | 5148 | 8190 | 7703 | 7917 | 5393 | 9190 | 9253 |

| | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Location mean | 5696.8 | 7290.0 | 7636.4 | 7709.9 | 6705.7 | 8813.6 | 9156.3 |
| C.D.(5%) AiBj-AiBk | 1219.1 | 459.4 | 703.6 | 515.0 | 1676.2 | 555.6 | 811.2 |
| C.D.(5%) AiBk-AjBk | 1334.9 | 462.2 | 683.1 | 632.0 | 1754.8 | 542.6 | 803.4 |
| F(5%) | s | s | s | s | n.s. | s | s |

| | | | | | | | |
|-----------|------|------|------|------|------|------|-------|
| 100:50:50 | 4724 | 6563 | 6156 | 7509 | 5944 | 7910 | 7434 |
| 150:65:65 | 5859 | 7181 | 8228 | 8014 | 6987 | 8647 | 9849 |
| 200:80:80 | 6507 | 8125 | 8525 | 7606 | 7187 | 9883 | 10186 |

| | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|
| C.D.(5%) Ai-Aj | 758.7 | 196.9 | 240.3 | 432.9 | 885.7 | 195.4 | 322.0 |
| C.V.(%) Error A | 14.4 | 3.8 | 3.4 | 6.1 | 14.3 | 3.1 | 3.8 |
| F(5%) | s | s | s | n.s. | s | s | s |

| | | | | | | | |
|--------------|------|------|------|------|------|-------|-------|
| BH-4062 | 6840 | 6406 | 7851 | 8185 | 7704 | 8239 | 9457 |
| BISCO-111 | 6360 | 6343 | 7973 | 7880 | 8848 | 7880 | 9590 |
| KAVERI-25K60 | 5248 | 8063 | 9288 | 7083 | 5580 | 10475 | 11147 |
| HM-8 | 5053 | 8257 | 6427 | 7083 | 5968 | 9729 | 7669 |
| HM-9 | 5811 | 7405 | 6728 | 8000 | 6675 | 8319 | 8008 |
| HM-10 | 4869 | 7268 | 7552 | 8028 | 5460 | 8241 | 9067 |

| | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 703.8 | 265.2 | 406.2 | 297.3 | 967.8 | 320.8 | 468.4 |
| C.V.(%)ErrorB | 12.8 | 4.4 | 5.5 | 4.0 | 15.0 | 4.4 | 5.3 |
| F(5%) | s | s | s | s | s | s | s |

Cont.....

A - 26

| Main Plot | Sub Plot | No. of Plant (000/ha) | | | | No. of Cobs (000/ha) | | |
|-----------|--------------|--------------------------|-----------|------------|----------|-------------------------|-----------|------------|
| | | Arbhavi | Hyderabad | Karimnagar | Kolhapur | Arbhavi | Hyderabad | Karimnagar |
| N Levels | Genotypes | | | | | | | |
| 100:50:50 | BH-4062 | 64.4 | 61.1 | 58.1 | 66.4 | 64.2 | 53.1 | 58.1 |
| | BISCO-111 | 65.0 | 62.0 | 63.8 | 66.1 | 65.0 | 55.6 | 63.8 |
| | KAVERI-25K60 | 64.4 | 53.0 | 63.2 | 63.9 | 63.1 | 45.4 | 63.2 |
| | HM-8 | 65.3 | 65.4 | 63.6 | 61.9 | 65.3 | 45.6 | 63.6 |
| | HM-9 | 63.3 | 63.0 | 63.5 | 64.4 | 63.1 | 50.9 | 63.5 |
| | HM-10 | 65.6 | 57.6 | 60.3 | 66.1 | 65.6 | 43.9 | 60.3 |
| 150:65:65 | BH-4062 | 66.1 | 56.9 | 62.4 | 62.2 | 66.9 | 57.0 | 62.4 |
| | BISCO-111 | 62.8 | 58.9 | 63.3 | 64.7 | 64.2 | 61.5 | 63.3 |
| | KAVERI-25K60 | 62.5 | 63.5 | 63.5 | 62.2 | 62.5 | 50.9 | 63.5 |
| | HM-8 | 65.6 | 48.9 | 63.1 | 63.3 | 65.6 | 50.6 | 63.1 |
| | HM-9 | 66.9 | 60.0 | 61.8 | 66.7 | 65.8 | 53.3 | 61.8 |
| | HM-10 | 69.2 | 56.1 | 62.2 | 64.4 | 66.4 | 48.1 | 62.2 |
| 200:80:80 | BH-4062 | 65.3 | 63.1 | 62.5 | 61.9 | 65.3 | 58.3 | 62.5 |
| | BISCO-111 | 65.0 | 58.7 | 63.1 | 66.1 | 65.0 | 60.9 | 63.1 |
| | KAVERI-25K60 | 61.1 | 57.8 | 62.6 | 65.3 | 61.1 | 52.2 | 62.6 |
| | HM-8 | 65.0 | 57.2 | 63.2 | 65.6 | 65.3 | 51.5 | 63.2 |
| | HM-9 | 66.1 | 60.6 | 62.8 | 65.0 | 65.3 | 55.2 | 62.8 |
| | HM-10 | 65.0 | 61.1 | 63.2 | 63.6 | 65.8 | 48.3 | 63.2 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Location mean | 64.9 | 59.2 | 62.6 | 64.4 | 64.7 | 52.4 | 62.6 |
| C.D.(5%) AiBj-AiBk | 4.9 | 9.3 | 1.4 | 5.2 | 4.5 | 3.1 | 1.4 |
| C.D.(5%) AiBk-AjBk | 5.4 | 9.3 | 1.7 | 6.7 | 4.9 | 3.0 | 1.7 |
| F(5%) | n.s. | n.s. | s | n.s. | n.s. | n.s. | s |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 64.7 | 60.3 | 62.1 | 64.8 | 64.4 | 49.1 | 62.1 |
| 150:65:65 | 65.5 | 57.4 | 62.7 | 63.9 | 65.2 | 53.6 | 62.7 |
| 200:80:80 | 64.6 | 59.8 | 62.9 | 64.6 | 64.6 | 54.4 | 62.9 |

| | | | | | | | |
|-----------------|------|------|------|------|------|-----|------|
| C.D.(5%) Ai-Aj | 3.2 | 3.8 | 1.0 | 4.9 | 2.7 | 0.9 | 1.0 |
| C.V.(%) Error A | 5.3 | 7.0 | 2.3 | 8.2 | 4.5 | 1.9 | 2.3 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|--------------|------|------|------|------|------|------|------|
| BH-4062 | 65.3 | 60.4 | 61.0 | 63.5 | 65.5 | 56.2 | 61.0 |
| BISCO-111 | 64.3 | 59.9 | 63.4 | 65.6 | 64.7 | 59.3 | 63.4 |
| KAVERI-25K60 | 62.7 | 58.1 | 63.1 | 63.8 | 62.2 | 49.5 | 63.1 |
| HM-8 | 65.3 | 57.2 | 63.3 | 63.6 | 65.4 | 49.2 | 63.3 |
| HM-9 | 65.5 | 61.2 | 62.7 | 65.4 | 64.7 | 53.1 | 62.7 |
| HM-10 | 66.6 | 58.3 | 61.9 | 64.7 | 65.9 | 46.8 | 61.9 |

| | | | | | | | |
|---------------|------|------|-----|------|------|-----|-----|
| C.D.(5%)Bi-Bj | 2.8 | 5.4 | 0.8 | 3.0 | 2.6 | 1.8 | 0.8 |
| C.V.(%)ErrorB | 4.5 | 9.4 | 1.6 | 4.9 | 4.2 | 3.6 | 1.6 |
| F(5%) | n.s. | n.s. | s | n.s. | n.s. | s | s |

Cont.....

A - 27

| Main Plot | Sub Plot | Plant Height (cm) | | | | Days to 50% Silking | |
|-----------|--------------|-------------------|-----------|------------|----------|---------------------|----------|
| | | Arbhavi | Hyderabad | Karimnagar | Kolhapur | Hyderabad | Kolhapur |
| N Levels | Genotypes | | | | | | |
| 100:50:50 | BH-4062 | 177.3 | 252.7 | 164.5 | 185.3 | 49.0 | 63.3 |
| | BISCO-111 | 170.7 | 248.3 | 138.0 | 170.7 | 50.0 | 59.7 |
| | KAVERI-25K60 | 175.7 | 274.0 | 156.0 | 209.3 | 48.7 | 59.7 |
| | HM-8 | 172.7 | 264.7 | 134.5 | 166.7 | 50.3 | 61.0 |
| | HM-9 | 172.3 | 237.7 | 129.8 | 172.0 | 49.7 | 60.0 |
| | HM-10 | 168.7 | 242.7 | 157.0 | 191.7 | 50.7 | 60.0 |
| 150:65:65 | BH-4062 | 165.3 | 270.3 | 167.3 | 201.7 | 51.0 | 62.0 |
| | BISCO-111 | 170.7 | 263.0 | 136.3 | 176.3 | 51.3 | 58.7 |
| | KAVERI-25K60 | 182.0 | 278.7 | 163.8 | 197.7 | 50.7 | 60.3 |
| | HM-8 | 181.0 | 246.7 | 135.0 | 171.7 | 50.3 | 60.3 |
| | HM-9 | 175.7 | 255.3 | 133.8 | 167.7 | 51.7 | 58.7 |
| | HM-10 | 176.0 | 254.0 | 162.0 | 192.3 | 51.0 | 60.0 |
| 200:80:80 | BH-4062 | 182.7 | 263.7 | 163.8 | 196.3 | 51.7 | 59.0 |
| | BISCO-111 | 193.7 | 263.0 | 140.5 | 176.3 | 51.3 | 59.0 |
| | KAVERI-25K60 | 177.7 | 275.3 | 165.8 | 207.3 | 52.0 | 58.3 |
| | HM-8 | 194.0 | 245.0 | 134.3 | 166.3 | 51.0 | 57.7 |
| | HM-9 | 173.3 | 254.0 | 143.8 | 169.7 | 51.7 | 57.7 |
| | HM-10 | 178.7 | 246.7 | 165.0 | 200.7 | 50.3 | 58.0 |

| | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|
| Location mean | 177.1 | 257.5 | 149.5 | 184.4 | 50.7 | 59.6 |
| C.D.(5%) AiBj-AiBk | 13.0 | 21.4 | 5.9 | 12.4 | 0.9 | 2.4 |
| C.D.(5%) AiBk-AjBk | 14.3 | 20.7 | 7.4 | 14.6 | 1.1 | 2.2 |
| F(5%) | s | n.s. | s | n.s. | s | n.s. |

| | | | | | | |
|-----------|-------|-------|-------|-------|------|------|
| 100:50:50 | 172.9 | 253.3 | 146.6 | 182.6 | 49.7 | 60.6 |
| 150:65:65 | 175.1 | 261.3 | 149.7 | 184.6 | 51.0 | 60.0 |
| 200:80:80 | 183.3 | 257.9 | 152.2 | 186.1 | 51.3 | 58.3 |

| | | | | | | |
|-----------------|-----|------|------|------|-----|-----|
| C.D.(5%) Ai-Aj | 8.2 | 7.1 | 5.1 | 9.5 | 0.7 | 0.6 |
| C.V.(%) Error A | 5.0 | 3.0 | 4.8 | 5.6 | 1.4 | 1.1 |
| F(5%) | s | n.s. | n.s. | n.s. | s | s |

| | | | | | | |
|--------------|-------|-------|-------|-------|------|------|
| BH-4062 | 175.1 | 262.2 | 165.2 | 194.4 | 50.6 | 61.4 |
| BISCO-111 | 178.3 | 258.1 | 138.3 | 174.4 | 50.9 | 59.1 |
| KAVERI-25K60 | 178.4 | 276.0 | 161.8 | 204.8 | 50.4 | 59.4 |
| HM-8 | 182.6 | 252.1 | 134.6 | 168.2 | 50.6 | 59.7 |
| HM-9 | 173.8 | 249.0 | 135.8 | 169.8 | 51.0 | 58.8 |
| HM-10 | 174.4 | 247.8 | 161.3 | 194.9 | 50.7 | 59.3 |

| | | | | | | |
|---------------|------|------|-----|-----|------|-----|
| C.D.(5%)Bi-Bj | 7.5 | 12.4 | 3.4 | 7.1 | 0.5 | 1.4 |
| C.V.(%)ErrorB | 4.4 | 5.0 | 2.8 | 4.0 | 1.1 | 2.4 |
| F(5%) | n.s. | s | s | s | n.s. | s |

Cont.....

A - 28

| Main Plot | Sub Plot | Fodder Yield (Kg/ha) | Ear Height (cm) | Moisture (%) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob |
|-----------|--------------|----------------------|-----------------|--------------|----------------|-----------------|-----------------|
| N Levels | Genotypes | Arbhavi | | | | | |
| 100:50:50 | BH-4062 | 5222 | 88.0 | 13.0 | 12.2 | 13.0 | 13.6 |
| | BISCO-111 | 5111 | 86.7 | 12.4 | 12.7 | 12.4 | 14.7 |
| | KAVERI-25K60 | 4861 | 85.3 | 12.6 | 10.4 | 12.6 | 13.4 |
| | HM-8 | 5306 | 85.7 | 11.8 | 10.7 | 11.8 | 14.9 |
| | HM-9 | 5167 | 82.0 | 11.9 | 10.9 | 11.9 | 13.8 |
| | HM-10 | 4917 | 79.3 | 13.8 | 11.6 | 13.8 | 14.6 |
| 150:65:65 | BH-4062 | 5333 | 86.7 | 13.5 | 13.1 | 13.5 | 13.7 |
| | BISCO-111 | 5417 | 84.0 | 13.7 | 12.9 | 13.7 | 14.3 |
| | KAVERI-25K60 | 5528 | 86.0 | 12.8 | 12.6 | 12.8 | 14.4 |
| | HM-8 | 5083 | 84.0 | 13.8 | 12.9 | 13.8 | 14.9 |
| | HM-9 | 5417 | 85.7 | 14.1 | 12.6 | 14.1 | 15.3 |
| | HM-10 | 5139 | 85.0 | 12.7 | 13.0 | 12.7 | 14.7 |
| 200:80:80 | BH-4062 | 5361 | 86.0 | 13.6 | 12.9 | 13.6 | 16.3 |
| | BISCO-111 | 5361 | 94.3 | 12.3 | 12.6 | 12.3 | 15.3 |
| | KAVERI-25K60 | 4611 | 91.7 | 12.9 | 12.8 | 12.9 | 14.1 |
| | HM-8 | 5028 | 92.0 | 14.3 | 11.8 | 14.3 | 15.7 |
| | HM-9 | 5250 | 87.3 | 13.9 | 12.9 | 13.9 | 15.7 |
| | HM-10 | 5722 | 85.3 | 12.3 | 12.8 | 12.3 | 15.1 |

| | | | | | | |
|--------------------|--------|------|------|------|------|------|
| Location mean | 5213.0 | 86.4 | 13.1 | 12.3 | 13.1 | 14.7 |
| C.D.(5%) AiBj-AiBk | 354.8 | 6.9 | 1.5 | 0.6 | 1.5 | 1.1 |
| C.D.(5%) AiBk-AjBk | 365.6 | 6.6 | 1.4 | 0.8 | 1.4 | 1.4 |
| F(5%) | s | n.s. | s | s | s | s |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 5097 | 84.5 | 12.6 | 11.4 | 12.6 | 14.2 |
| 150:65:65 | 5319 | 85.2 | 13.4 | 12.8 | 13.4 | 14.6 |
| 200:80:80 | 5222 | 89.4 | 13.2 | 12.6 | 13.2 | 15.4 |

| | | | | | | |
|-----------------|-------|-----|-----|-----|-----|-----|
| C.D.(5%) Ai-Aj | 174.8 | 2.0 | 0.2 | 0.5 | 0.2 | 0.9 |
| C.V.(%) Error A | 3.6 | 2.5 | 1.4 | 4.6 | 1.4 | 6.7 |
| F(5%) | n.s. | s | s | s | s | s |

| | | | | | | |
|--------------|------|------|------|------|------|------|
| BH-4062 | 5306 | 86.9 | 13.3 | 12.7 | 13.3 | 14.5 |
| BISCO-111 | 5296 | 88.3 | 12.8 | 12.7 | 12.8 | 14.8 |
| KAVERI-25K60 | 5000 | 87.7 | 12.8 | 11.9 | 12.8 | 14.0 |
| HM-8 | 5139 | 87.2 | 13.3 | 11.8 | 13.3 | 15.2 |
| HM-9 | 5278 | 85.0 | 13.3 | 12.1 | 13.3 | 14.9 |
| HM-10 | 5259 | 83.2 | 12.9 | 12.5 | 12.9 | 14.8 |

| | | | | | | |
|---------------|-------|------|------|-----|------|-----|
| C.D.(5%)Bi-Bj | 204.9 | 4.0 | 0.9 | 0.4 | 0.9 | 0.7 |
| C.V.(%)ErrorB | 4.1 | 4.8 | 7.1 | 3.1 | 7.1 | 4.6 |
| F(5%) | s | n.s. | n.s. | s | n.s. | s |

Cont.....

A - 29

| Main Plot | Sub Plot | No. of Kernels /Row | Test Weight (g) 100 Grain | Shelling (%) | Moisture (%) |
|-----------|--------------|---------------------------|------------------------------------|-----------------|-----------------|
| N Levels | Genotypes | Arbhavi | | | Karimnagar |
| 100:50:50 | BH-4062 | 33.7 | 33.7 | 83.8 | 13.0 |
| | BISCO-111 | 30.3 | 40.3 | 83.6 | 13.7 |
| | KAVERI-25K60 | 29.5 | 33.7 | 83.3 | 13.1 |
| | HM-8 | 24.7 | 35.7 | 83.2 | 13.0 |
| | HM-9 | 27.7 | 37.7 | 83.4 | 12.3 |
| | HM-10 | 30.5 | 33.7 | 83.9 | 13.4 |
| 150:65:65 | BH-4062 | 32.3 | 39.7 | 83.4 | 13.2 |
| | BISCO-111 | 33.7 | 42.7 | 84.5 | 14.2 |
| | KAVERI-25K60 | 33.3 | 41.3 | 84.2 | 13.9 |
| | HM-8 | 31.1 | 35.0 | 83.1 | 13.5 |
| | HM-9 | 31.9 | 34.7 | 84.4 | 12.8 |
| | HM-10 | 31.2 | 39.3 | 83.3 | 12.0 |
| 200:80:80 | BH-4062 | 30.8 | 37.0 | 83.8 | 12.9 |
| | BISCO-111 | 30.5 | 45.0 | 83.6 | 14.0 |
| | KAVERI-25K60 | 32.6 | 46.0 | 84.0 | 14.2 |
| | HM-8 | 31.1 | 44.7 | 83.8 | 13.0 |
| | HM-9 | 31.9 | 35.0 | 82.6 | 13.1 |
| | HM-10 | 29.6 | 33.0 | 82.6 | 12.4 |

| | | | | |
|--------------------|------|------|------|------|
| Location mean | 30.9 | 38.2 | 83.6 | 13.2 |
| C.D.(5%) AiBj-AiBk | 4.9 | 4.6 | 1.2 | 1.1 |
| C.D.(5%) AiBk-AjBk | 4.7 | 5.0 | 1.8 | 1.1 |
| F(5%) | n.s. | s | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|------|
| 100:50:50 | 29.4 | 35.8 | 83.5 | 13.1 |
| 150:65:65 | 32.2 | 38.8 | 83.8 | 13.2 |
| 200:80:80 | 31.1 | 40.1 | 83.4 | 13.3 |

| | | | | |
|-----------------|-----|-----|------|------|
| C.D.(5%) Ai-Aj | 1.4 | 2.7 | 1.5 | 0.4 |
| C.V.(%) Error A | 5.0 | 7.8 | 1.9 | 4.2 |
| F(5%) | s | s | n.s. | n.s. |

| | | | | |
|--------------|------|------|------|------|
| BH-4062 | 32.3 | 36.8 | 83.6 | 13.0 |
| BISCO-111 | 31.5 | 42.7 | 83.9 | 14.0 |
| KAVERI-25K60 | 31.8 | 40.3 | 83.8 | 13.7 |
| HM-8 | 29.0 | 38.4 | 83.3 | 13.2 |
| HM-9 | 30.5 | 35.8 | 83.5 | 12.7 |
| HM-10 | 30.4 | 35.3 | 83.3 | 12.6 |

| | | | | |
|---------------|------|-----|------|-----|
| C.D.(5%)Bi-Bj | 2.8 | 2.7 | 0.7 | 0.6 |
| C.V.(%)ErrorB | 9.5 | 7.2 | 0.8 | 5.8 |
| F(5%) | n.s. | s | n.s. | s |

A - 30

Table 7: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 in Zone V

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) |
|-----------|-----------|---------------------|------------|--------|---------|-------------------|----------------------|
| | | Banswara | Chhindwara | Godhra | Udaipur | | |
| N Levels | Genotype | | | | | | |
| 100:50:50 | BISCO-555 | 2739 | 4422 | 5289 | 3128 | 3711 | 7960 |
| | BISCO-855 | 3539 | 2904 | 5978 | 4428 | 4778 | 9038 |
| | HM-8 | 2611 | 3630 | 3311 | 3780 | 3583 | 5022 |
| | HM-9 | 2922 | 3344 | 3378 | 3613 | 4106 | 5053 |
| | HM-10 | 3400 | 4719 | 3956 | 2325 | 4722 | 5918 |
| 150:65:65 | BISCO-555 | 3100 | 4433 | 7022 | 3593 | 4228 | 10389 |
| | BISCO-855 | 4167 | 3694 | 6711 | 4953 | 5722 | 10156 |
| | HM-8 | 3317 | 3802 | 4511 | 4105 | 4750 | 6713 |
| | HM-9 | 3511 | 4348 | 3944 | 4045 | 4611 | 5884 |
| | HM-10 | 4039 | 4798 | 4922 | 2783 | 5456 | 7400 |
| 200:80:80 | BISCO-555 | 3250 | 4461 | 8000 | 3705 | 4528 | 12022 |
| | BISCO-855 | 4378 | 4163 | 7222 | 5205 | 5889 | 10833 |
| | HM-8 | 3511 | 4552 | 5489 | 4200 | 4972 | 8278 |
| | HM-9 | 3778 | 5472 | 5811 | 4140 | 5428 | 8718 |
| | HM-10 | 4250 | 5237 | 6178 | 2800 | 5850 | 9202 |

| | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|
| Location mean | 3500.7 | 4265.3 | 5448.1 | 3786.7 | 4822.2 | 8172.4 |
| C.D.(5%) AiBj-AiBk | 497.6 | 1817.5 | 950.0 | 290.4 | 677.2 | 1436.2 |
| C.D.(5%) AiBk-AjBk | 579.0 | 1749.8 | 1066.6 | 392.3 | 705.5 | 1654.5 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 3042 | 3804 | 4382 | 3455 | 4180 | 6598 |
| 150:65:65 | 3627 | 4215 | 5422 | 3896 | 4953 | 8108 |
| 200:80:80 | 3833 | 4777 | 6540 | 4010 | 5333 | 9811 |

| | | | | | | |
|-----------------|-------|-------|-------|-------|-------|--------|
| C.D.(5%) Ai-Aj | 379.5 | 667.8 | 661.2 | 296.3 | 371.9 | 1068.4 |
| C.V.(%) Error A | 10.7 | 15.4 | 12.0 | 10.1 | 7.6 | 12.9 |
| F(5%) | s | s | s | s | s | s |

| | | | | | | |
|-----------|------|------|------|------|------|-------|
| BISCO-555 | 3030 | 4439 | 6770 | 3475 | 4156 | 10124 |
| BISCO-855 | 4028 | 3587 | 6637 | 4862 | 5463 | 10009 |
| HM-8 | 3146 | 3994 | 4437 | 4028 | 4435 | 6671 |
| HM-9 | 3404 | 4388 | 4378 | 3933 | 4715 | 6552 |
| HM-10 | 3896 | 4918 | 5019 | 2636 | 5343 | 7507 |

| | | | | | | |
|---------------|-------|--------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 287.3 | 1049.4 | 548.5 | 167.7 | 391.0 | 829.2 |
| C.V.(%)ErrorB | 8.4 | 25.3 | 10.3 | 5.3 | 8.3 | 10.4 |
| F(5%) | s | n.s. | s | s | s | s |

Cont....

A - 31

| Main Plot | Sub Plot | No. of Plant (000/ha) | | | | No. of Cobs (000/ha) | | |
|-----------|-----------|-----------------------|------------|--------|---------|----------------------|------------|---------|
| | | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Chhindwara | Udaipur |
| N Levels | Genotype | | | | | | | |
| 100:50:50 | BISCO-555 | 56.4 | 57.4 | 59.3 | 57.3 | 49.7 | 54.1 | 59.3 |
| | BISCO-855 | 38.3 | 63.3 | 54.2 | 64.0 | 56.1 | 53.0 | 63.3 |
| | HM-8 | 60.6 | 61.5 | 54.7 | 53.5 | 46.9 | 52.6 | 63.3 |
| | HM-9 | 58.6 | 60.4 | 54.2 | 61.3 | 49.2 | 53.0 | 61.3 |
| | HM-10 | 60.6 | 58.9 | 55.8 | 61.3 | 53.9 | 56.3 | 59.3 |
| 150:65:65 | BISCO-555 | 55.8 | 65.9 | 50.0 | 57.3 | 46.1 | 59.3 | 58.7 |
| | BISCO-855 | 62.8 | 64.4 | 52.0 | 64.3 | 57.8 | 57.0 | 62.7 |
| | HM-8 | 59.2 | 63.3 | 57.1 | 53.3 | 54.4 | 54.8 | 56.0 |
| | HM-9 | 55.6 | 64.1 | 60.7 | 61.2 | 51.1 | 53.3 | 61.3 |
| | HM-10 | 64.7 | 59.3 | 56.0 | 60.7 | 57.2 | 57.0 | 58.5 |
| 200:80:80 | BISCO-555 | 56.9 | 67.0 | 57.3 | 57.3 | 47.2 | 60.0 | 58.5 |
| | BISCO-855 | 63.6 | 66.7 | 55.8 | 64.0 | 59.4 | 61.9 | 62.0 |
| | HM-8 | 63.1 | 64.8 | 54.0 | 53.3 | 55.0 | 55.2 | 55.3 |
| | HM-9 | 64.7 | 69.6 | 57.1 | 61.3 | 58.9 | 59.3 | 60.7 |
| | HM-10 | 62.8 | 67.4 | 55.3 | 59.7 | 58.6 | 57.8 | 56.7 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Location mean | 58.9 | 63.6 | 55.6 | 59.3 | 53.4 | 56.3 | 59.8 |
| C.D.(5%) AiBj-AiBk | 15.7 | 4.4 | 7.5 | 3.3 | 7.8 | 7.0 | 3.1 |
| C.D.(5%) AiBk-AjBk | 17.0 | 4.7 | 8.6 | 4.6 | 7.4 | 7.7 | 4.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 54.9 | 60.3 | 55.6 | 59.5 | 51.2 | 53.8 | 61.3 |
| 150:65:65 | 59.6 | 63.4 | 55.2 | 59.4 | 53.3 | 56.3 | 59.4 |
| 200:80:80 | 62.2 | 67.1 | 55.9 | 59.1 | 55.8 | 58.8 | 58.6 |

| | | | | | | | |
|-----------------|------|-----|------|------|-----|------|------|
| C.D.(5%) Ai-Aj | 9.8 | 2.7 | 5.5 | 3.5 | 2.7 | 4.6 | 3.9 |
| C.V.(%) Error A | 16.4 | 4.2 | 9.8 | 7.7 | 4.9 | 8.0 | 8.5 |
| F(5%) | n.s. | s | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| BISCO-555 | 56.4 | 63.5 | 55.6 | 57.3 | 47.7 | 57.8 | 58.8 |
| BISCO-855 | 54.9 | 64.8 | 54.0 | 64.1 | 57.8 | 57.3 | 62.7 |
| HM-8 | 60.9 | 63.2 | 55.3 | 53.4 | 52.1 | 54.2 | 58.2 |
| HM-9 | 59.6 | 64.7 | 57.3 | 61.3 | 53.1 | 55.2 | 61.1 |
| HM-10 | 62.7 | 61.9 | 55.7 | 60.6 | 56.6 | 57.0 | 58.2 |

| | | | | | | | |
|---------------|------|------|------|-----|-----|------|-----|
| C.D.(5%)Bi-Bj | 9.1 | 2.5 | 4.3 | 1.9 | 4.5 | 4.1 | 1.8 |
| C.V.(%)ErrorB | 15.8 | 4.1 | 8.0 | 3.9 | 8.7 | 7.4 | 3.6 |
| F(5%) | n.s. | n.s. | n.s. | s | s | n.s. | s |

Cont....

A - 32

| Main Plot | Sub Plot | Plant Height (cm) | | | | Days to 50% Silking | | |
|-----------|-----------|-------------------|------------|--------|---------|---------------------|------------|--------|
| | | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Chhindwara | Godhra |
| N Levels | Genotype | | | | | | | |
| 100:50:50 | BISCO-555 | 186.7 | 181.7 | 189.7 | 220.0 | 66.3 | 57.3 | 53.3 |
| | BISCO-855 | 218.3 | 191.0 | 201.7 | 224.8 | 67.0 | 55.0 | 55.7 |
| | HM-8 | 173.3 | 181.3 | 183.3 | 201.0 | 65.3 | 57.0 | 60.3 |
| | HM-9 | 195.0 | 179.3 | 176.7 | 200.0 | 63.3 | 56.7 | 55.7 |
| | HM-10 | 215.0 | 191.3 | 198.0 | 228.3 | 69.3 | 56.3 | 54.0 |
| 150:65:65 | BISCO-555 | 201.7 | 191.7 | 211.7 | 227.0 | 66.0 | 56.3 | 55.0 |
| | BISCO-855 | 216.7 | 192.0 | 201.3 | 230.0 | 70.3 | 55.0 | 54.3 |
| | HM-8 | 180.0 | 188.3 | 190.0 | 206.0 | 66.3 | 52.3 | 57.7 |
| | HM-9 | 180.7 | 183.7 | 188.3 | 204.0 | 67.7 | 55.7 | 54.3 |
| | HM-10 | 221.7 | 191.7 | 208.3 | 234.0 | 70.3 | 56.3 | 53.7 |
| 200:80:80 | BISCO-555 | 210.7 | 195.0 | 213.3 | 229.3 | 66.0 | 55.7 | 55.3 |
| | BISCO-855 | 211.7 | 192.0 | 205.0 | 230.0 | 71.0 | 52.3 | 53.3 |
| | HM-8 | 198.3 | 192.0 | 196.7 | 206.3 | 68.0 | 57.3 | 56.0 |
| | HM-9 | 207.7 | 190.3 | 205.0 | 205.0 | 68.0 | 55.0 | 53.3 |
| | HM-10 | 230.0 | 199.3 | 213.3 | 234.3 | 71.7 | 56.0 | 53.3 |

| | | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|------|
| Location mean | 203.2 | 189.4 | 198.8 | 218.7 | 67.8 | 55.6 | 55.0 |
| C.D.(5%) AiBj-AiBk | 15.1 | 9.2 | 11.3 | 9.8 | 2.4 | 1.6 | 1.4 |
| C.D.(5%) AiBk-AjBk | 16.9 | 9.6 | 11.0 | 12.7 | 3.1 | 1.5 | 1.7 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | s | s |

| | | | | | | | |
|-----------|-------|-------|-------|-------|------|------|------|
| 100:50:50 | 197.7 | 184.9 | 189.9 | 214.8 | 66.3 | 56.5 | 55.8 |
| 150:65:65 | 200.1 | 189.5 | 199.9 | 220.2 | 68.1 | 55.1 | 55.0 |
| 200:80:80 | 211.7 | 193.7 | 206.7 | 221.0 | 68.9 | 55.3 | 54.3 |

| | | | | | | | |
|-----------------|------|-----|-----|------|------|-----|------|
| C.D.(5%) Ai-Aj | 10.4 | 5.1 | 4.3 | 9.3 | 2.3 | 0.5 | 1.2 |
| C.V.(%) Error A | 5.1 | 2.6 | 2.1 | 5.5 | 3.3 | 0.8 | 2.1 |
| F(5%) | s | s | s | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|-----------|-------|-------|-------|-------|------|------|------|
| BISCO-555 | 199.7 | 189.4 | 204.9 | 225.4 | 66.1 | 56.4 | 54.6 |
| BISCO-855 | 215.6 | 191.7 | 202.7 | 228.3 | 69.4 | 54.1 | 54.4 |
| HM-8 | 183.9 | 187.2 | 190.0 | 204.4 | 66.6 | 55.6 | 58.0 |
| HM-9 | 194.4 | 184.4 | 190.0 | 203.0 | 66.3 | 55.8 | 54.4 |
| HM-10 | 222.2 | 194.1 | 206.6 | 232.2 | 70.4 | 56.2 | 53.7 |

| | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|
| C.D.(5%)Bi-Bj | 8.7 | 5.3 | 6.5 | 5.6 | 1.4 | 0.9 | 0.8 |
| C.V.(%)ErrorB | 4.4 | 2.9 | 3.4 | 3.1 | 2.1 | 1.7 | 1.5 |
| F(5%) | s | s | s | s | s | s | s |

Cont....

A - 33

| Main Plot | Sub Plot | Shelling (%) | No. of PFSR affected Plant (000/ha) |
|-----------|-----------|--------------|-------------------------------------|
| N Levels | Genotype | Udaipur | Udaipur |
| 100:50:50 | BISCO-555 | 66.1 | 0.0 |
| | BISCO-855 | 62.1 | 1.5 |
| | HM-8 | 62.2 | 0.0 |
| | HM-9 | 59.0 | 0.0 |
| | HM-10 | 63.1 | 2.5 |
| 150:65:65 | BISCO-555 | 67.1 | 0.0 |
| | BISCO-855 | 64.6 | 1.5 |
| | HM-8 | 66.2 | 0.0 |
| | HM-9 | 63.2 | 0.0 |
| | HM-10 | 64.6 | 3.0 |
| 200:80:80 | BISCO-555 | 68.1 | 0.0 |
| | BISCO-855 | 64.0 | 2.0 |
| | HM-8 | 57.7 | 0.0 |
| | HM-9 | 62.9 | 0.0 |
| | HM-10 | 65.1 | 3.0 |

| | | |
|--------------------|------|------|
| Location mean | 63.7 | 0.9 |
| C.D.(5%) AiBj-AiBk | 6.7 | 0.5 |
| C.D.(5%) AiBk-AjBk | 8.4 | 0.5 |
| F(5%) | n.s. | n.s. |

| | | |
|-----------|------|-----|
| 100:50:50 | 62.5 | 0.8 |
| 150:65:65 | 65.1 | 0.9 |
| 200:80:80 | 63.6 | 1.0 |

| | | |
|-----------------|------|------|
| C.D.(5%) Ai-Aj | 5.9 | 0.2 |
| C.V.(%) Error A | 12.0 | 31.7 |
| F(5%) | n.s. | n.s. |

| | | |
|-----------|------|-----|
| BISCO-555 | 67.1 | 0.0 |
| BISCO-855 | 63.6 | 1.7 |
| HM-8 | 62.0 | 0.0 |
| HM-9 | 61.7 | 0.0 |
| HM-10 | 64.3 | 2.8 |

| | | |
|---------------|------|------|
| C.D.(5%)Bi-Bj | 3.9 | 0.3 |
| C.V.(%)ErrorB | 7.4 | 36.4 |
| F(5%) | n.s. | s |

A - 34

Table 8: Relative performance of pre-release germplasm of Early Maturity at different levels of nutrient during Kharif 2009 in Zone V

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) |
|-----------|----------------|---------------------|-----------|--------|---------|-------------------|----------------------|
| | | Banswara | hhindwara | Godhra | Udaipur | | |
| N Levels | Genotype | Banswara | hhindwara | Godhra | Udaipur | Banswara | Godhra |
| 100:50:50 | JH-31110 | 2906 | 4422 | 4960 | 3305 | 3544 | 7349 |
| | PRAKASH | 3017 | 2904 | 3876 | 2745 | 3869 | 5740 |
| | PRATAP MAKKA-4 | 3344 | 3630 | 4249 | 2650 | 4294 | 6322 |
| | PRATAP MAKKA-5 | 3267 | 4348 | 4160 | 2670 | 4367 | 6220 |
| 150:65:65 | JH-31110 | 3194 | 4422 | 6240 | 3710 | 4056 | 9324 |
| | PRAKASH | 3342 | 2904 | 5778 | 3035 | 4283 | 8636 |
| | PRATAP MAKKA-4 | 3589 | 3802 | 5316 | 3075 | 4417 | 7898 |
| | PRATAP MAKKA-5 | 3517 | 5472 | 5867 | 3010 | 4306 | 8738 |
| 200:80:80 | JH-31110 | 3261 | 4448 | 7218 | 3793 | 4139 | 10662 |
| | PRAKASH | 3561 | 4163 | 6356 | 3080 | 4444 | 9476 |
| | PRATAP MAKKA-4 | 3867 | 3802 | 5858 | 3255 | 4767 | 8660 |
| | PRATAP MAKKA-5 | 3600 | 5472 | 6062 | 3030 | 4500 | 8971 |

| | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|
| Location mean | 3372.0 | 4149.1 | 5494.8 | 3113.1 | 4248.8 | 8166.3 |
| C.D.(5%) AiBj-AiBk | 494.7 | 1608.1 | 765.7 | 435.8 | 416.2 | 1111.9 |
| C.D.(5%) AiBk-AjBk | 470.8 | 1701.2 | 918.2 | 461.0 | 414.7 | 1354.0 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 3133 | 3826 | 4311 | 2843 | 4019 | 6408 |
| 150:65:65 | 3410 | 4150 | 5800 | 3208 | 4265 | 8649 |
| 200:80:80 | 3572 | 4471 | 6373 | 3289 | 4463 | 9442 |

| | | | | | | |
|-----------------|-------|--------|-------|-------|-------|-------|
| C.D.(5%) Ai-Aj | 200.6 | 1000.1 | 647.6 | 267.3 | 210.4 | 970.2 |
| C.V.(%) Error A | 5.2 | 21.3 | 10.4 | 9.9 | 4.4 | 10.5 |
| F(5%) | s | n.s. | s | s | s | s |

| | | | | | | |
|----------------|------|------|------|------|------|------|
| JH-31110 | 3120 | 4431 | 6139 | 3603 | 3913 | 9112 |
| PRAKASH | 3306 | 3323 | 5336 | 2953 | 4199 | 7950 |
| PRATAP MAKKA-4 | 3600 | 3744 | 5141 | 2993 | 4493 | 7627 |
| PRATAP MAKKA-5 | 3461 | 5098 | 5363 | 2903 | 4391 | 7976 |

| | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 285.6 | 928.4 | 442.1 | 251.6 | 240.3 | 641.9 |
| C.V.(%)ErrorB | 8.6 | 22.6 | 8.1 | 9.6 | 5.7 | 7.9 |
| F(5%) | s | s | s | s | s | s |

Cont....

A - 35

| Main Plot | Sub Plot | No. of Plant (000/ha) | | | | No. of Cobs (000/ha) | | |
|-----------|----------------|-----------------------|------------|--------|---------|----------------------|------------|---------|
| | | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Chhindwara | Udaipur |
| N Levels | Genotype | | | | | | | |
| 100:50:50 | JH-31110 | 60.6 | 64.4 | 59.1 | 61.8 | 57.8 | 60.4 | 62.0 |
| | PRAKASH | 62.5 | 61.1 | 56.2 | 60.7 | 57.8 | 52.6 | 55.7 |
| | PRATAP MAKKA-4 | 62.8 | 64.4 | 57.6 | 57.3 | 58.1 | 51.1 | 53.5 |
| | PRATAP MAKKA-5 | 62.5 | 61.9 | 56.7 | 55.3 | 58.1 | 51.1 | 54.2 |
| 150:65:65 | JH-31110 | 61.7 | 64.8 | 58.9 | 63.3 | 58.9 | 61.1 | 64.5 |
| | PRAKASH | 62.2 | 61.9 | 59.8 | 60.0 | 58.9 | 54.1 | 56.7 |
| | PRATAP MAKKA-4 | 65.6 | 64.8 | 55.1 | 56.7 | 58.6 | 54.1 | 55.5 |
| | PRATAP MAKKA-5 | 63.9 | 62.2 | 54.9 | 55.8 | 58.9 | 51.9 | 53.5 |
| 200:80:80 | JH-31110 | 61.9 | 65.6 | 60.7 | 64.2 | 61.9 | 61.5 | 65.3 |
| | PRAKASH | 64.2 | 64.1 | 59.3 | 60.0 | 61.9 | 61.1 | 57.0 |
| | PRATAP MAKKA-4 | 63.3 | 64.8 | 54.2 | 56.0 | 64.7 | 57.0 | 56.0 |
| | PRATAP MAKKA-5 | 63.9 | 63.7 | 58.9 | 56.0 | 61.9 | 55.2 | 54.5 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Location mean | 62.9 | 63.6 | 57.6 | 58.9 | 59.8 | 55.9 | 57.4 |
| C.D.(5%) AiBj-AiBk | 4.3 | 4.8 | 6.0 | 4.3 | 5.2 | 4.9 | 3.4 |
| C.D.(5%) AiBk-AjBk | 5.7 | 4.5 | 7.0 | 5.0 | 5.9 | 5.2 | 3.6 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 62.1 | 63.0 | 57.4 | 58.8 | 57.9 | 53.8 | 56.3 |
| 150:65:65 | 63.3 | 63.4 | 57.2 | 59.0 | 58.8 | 55.3 | 57.5 |
| 200:80:80 | 63.3 | 64.5 | 58.3 | 59.0 | 62.6 | 58.7 | 58.2 |

| | | | | | | | |
|-----------------|------|------|------|------|------|-----|------|
| C.D.(5%) Ai-Aj | 4.4 | 1.7 | 4.9 | 3.5 | 3.9 | 3.1 | 2.2 |
| C.V.(%) Error A | 6.2 | 2.4 | 7.4 | 6.8 | 5.7 | 4.9 | 4.4 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|----------------|------|------|------|------|------|------|------|
| JH-31110 | 61.4 | 64.9 | 59.6 | 63.1 | 59.5 | 61.0 | 63.9 |
| PRAKASH | 63.0 | 62.3 | 58.4 | 60.2 | 59.5 | 55.9 | 56.4 |
| PRATAP MAKKA-4 | 63.9 | 64.7 | 55.6 | 56.7 | 60.5 | 54.1 | 55.0 |
| PRATAP MAKKA-5 | 63.4 | 62.6 | 56.8 | 55.7 | 59.6 | 52.7 | 54.1 |

| | | | | | | | |
|---------------|------|------|------|-----|------|-----|-----|
| C.D.(5%)Bi-Bj | 2.5 | 2.8 | 3.4 | 2.5 | 3.0 | 2.8 | 2.0 |
| C.V.(%)ErrorB | 4.0 | 4.4 | 6.0 | 5.0 | 5.1 | 5.1 | 4.1 |
| F(5%) | n.s. | n.s. | n.s. | s | n.s. | s | s |

Cont....

A - 36

| Main Plot | Sub Plot | Plant Height (cm) | | | | Days to 50% Silking | | | |
|-----------|----------------|-------------------|----------|----------|------------|---------------------|---------|----------|------------|
| | | N Levels | Genotype | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Chhindwara |
| 100:50:50 | JH-31110 | | 184.7 | 175.7 | 175.0 | 195.5 | 52.0 | 52.0 | 53.7 |
| | PRAKASH | | 188.3 | 179.7 | 166.7 | 192.5 | 54.0 | 50.7 | 53.0 |
| | PRATAP MAKKA-4 | | 193.0 | 178.7 | 160.0 | 184.0 | 55.0 | 51.3 | 53.3 |
| | PRATAP MAKKA-5 | | 193.3 | 183.3 | 175.0 | 208.0 | 55.0 | 51.7 | 52.3 |
| 150:65:65 | JH-31110 | | 194.3 | 186.0 | 198.3 | 198.0 | 55.0 | 51.7 | 52.3 |
| | PRAKASH | | 197.3 | 184.0 | 187.3 | 192.5 | 56.0 | 50.7 | 50.7 |
| | PRATAP MAKKA-4 | | 198.3 | 191.0 | 188.3 | 189.3 | 56.0 | 51.3 | 52.0 |
| | PRATAP MAKKA-5 | | 199.0 | 193.7 | 192.7 | 200.5 | 56.3 | 51.3 | 49.7 |
| 200:80:80 | JH-31110 | | 197.3 | 196.0 | 206.7 | 199.3 | 55.3 | 51.7 | 49.7 |
| | PRAKASH | | 201.7 | 185.7 | 205.0 | 196.0 | 56.3 | 50.0 | 49.3 |
| | PRATAP MAKKA-4 | | 202.3 | 193.0 | 198.3 | 190.0 | 56.3 | 51.3 | 49.0 |
| | PRATAP MAKKA-5 | | 203.3 | 198.3 | 212.0 | 201.5 | 56.7 | 50.3 | 49.3 |

| | | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|------|
| Location mean | 196.1 | 187.1 | 188.8 | 195.6 | 55.3 | 51.2 | 51.2 |
| C.D.(5%) AiBj-AiBk | 7.9 | 12.5 | 9.1 | 8.1 | 1.3 | 1.4 | 1.5 |
| C.D.(5%) AiBk-AjBk | 7.6 | 12.8 | 11.0 | 9.1 | 1.6 | 1.5 | 1.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|-------|-------|-------|-------|------|------|------|
| 100:50:50 | 189.8 | 179.3 | 169.2 | 195.0 | 54.0 | 51.4 | 53.1 |
| 150:65:65 | 197.3 | 188.7 | 191.7 | 195.1 | 55.8 | 51.3 | 51.2 |
| 200:80:80 | 201.2 | 193.3 | 205.5 | 196.7 | 56.2 | 50.8 | 49.3 |

| | | | | | | | |
|-----------------|-----|-----|-----|------|-----|------|-----|
| C.D.(5%) Ai-Aj | 3.5 | 7.0 | 7.8 | 5.8 | 1.1 | 0.8 | 1.2 |
| C.V.(%) Error A | 1.6 | 3.3 | 3.7 | 3.4 | 1.7 | 1.4 | 2.1 |
| F(5%) | s | s | s | n.s. | s | n.s. | s |

| | | | | | | | |
|----------------|-------|-------|-------|-------|------|------|------|
| JH-31110 | 192.1 | 185.9 | 193.3 | 197.6 | 54.1 | 51.8 | 51.9 |
| PRAKASH | 195.8 | 183.1 | 186.3 | 193.7 | 55.4 | 50.4 | 51.0 |
| PRATAP MAKKA-4 | 197.9 | 187.6 | 182.2 | 187.8 | 55.8 | 51.3 | 51.4 |
| PRATAP MAKKA-5 | 198.6 | 191.8 | 193.2 | 203.3 | 56.0 | 51.1 | 50.4 |

| | | | | | | | |
|---------------|-----|------|-----|-----|-----|-----|-----|
| C.D.(5%)Bi-Bj | 4.5 | 7.2 | 5.3 | 4.7 | 0.8 | 0.8 | 0.9 |
| C.V.(%)ErrorB | 2.3 | 3.9 | 2.8 | 2.9 | 1.4 | 1.6 | 1.8 |
| F(5%) | s | n.s. | s | s | s | s | s |

Cont....

A - 37

| Main Plot | Sub Plot | Shelling (%) | No. of PFSR affected Plant (000/ha) |
|-----------|----------------|--------------|-------------------------------------|
| N Levels | Genotype | Udaipur | Udaipur |
| 100:50:50 | JH-31110 | 78.3 | 0.0 |
| | PRAKASH | 78.2 | 1.8 |
| | PRATAP MAKKA-4 | 77.6 | 1.5 |
| | PRATAP MAKKA-5 | 80.3 | 1.3 |
| 150:65:65 | JH-31110 | 79.2 | 0.3 |
| | PRAKASH | 80.0 | 2.7 |
| | PRATAP MAKKA-4 | 78.8 | 1.3 |
| | PRATAP MAKKA-5 | 81.1 | 1.3 |
| 200:80:80 | JH-31110 | 79.6 | 0.2 |
| | PRAKASH | 80.2 | 2.7 |
| | PRATAP MAKKA-4 | 80.4 | 1.3 |
| | PRATAP MAKKA-5 | 81.3 | 1.3 |

| | | |
|--------------------|------|------|
| Location mean | 79.6 | 1.3 |
| C.D.(5%) AiBj-AiBk | 6.4 | 0.7 |
| C.D.(5%) AiBk-AjBk | 7.6 | 0.8 |
| F(5%) | n.s. | n.s. |

| | | |
|-----------|------|-----|
| 100:50:50 | 78.6 | 1.2 |
| 150:65:65 | 79.8 | 1.4 |
| 200:80:80 | 80.4 | 1.4 |

| | | |
|-----------------|------|------|
| C.D.(5%) Ai-Aj | 5.2 | 0.5 |
| C.V.(%) Error A | 7.6 | 39.7 |
| F(5%) | n.s. | n.s. |

| | | |
|----------------|------|-----|
| JH-31110 | 79.0 | 0.2 |
| PRAKASH | 79.5 | 2.4 |
| PRATAP MAKKA-4 | 78.9 | 1.4 |
| PRATAP MAKKA-5 | 80.9 | 1.3 |

| | | |
|---------------|------|------|
| C.D.(5%)Bi-Bj | 3.7 | 0.4 |
| C.V.(%)ErrorB | 5.6 | 37.4 |
| F(5%) | n.s. | s |

A - 38

Table 9: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 In Zone I.

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | Cob Yield (Kg/ha) | Straw Yield (Kg/ha) | Plant Stand (000/ha) | No. of Cobs (000/ha) | |
|-----------|-----------------|---------------------|---------|-------------------|---------------------|----------------------|----------------------|---------|
| | | Almora | Bajaura | Almora | Almora | Bajaura | Almora | Bajaura |
| 100:50:50 | FH-3356 | 8723 | 9107 | 11433 | 7827 | 81.9 | 79.5 | 78.9 |
| | FQH-38 | 9400 | 10097 | 12923 | 6440 | 79.2 | 83.3 | 78.1 |
| | VIVEK HYBRID-21 | 8820 | 10580 | 12153 | 9467 | 80.5 | 83.3 | 78.4 |
| | VIVEK HYBRID-17 | 7550 | 6957 | 10313 | 6883 | 79.7 | 82.7 | 78.1 |
| | VIVEK QPM-9 | 7327 | 6700 | 9750 | 6440 | 79.5 | 82.7 | 78.3 |
| | VIVEK HYBRID-9 | 7257 | 6703 | 10187 | 6820 | 82.8 | 79.5 | 80.0 |
| 150:65:65 | FH-3356 | 9307 | 9453 | 12667 | 9787 | 81.7 | 82.7 | 78.0 |
| | FQH-38 | 9697 | 10080 | 12890 | 8017 | 82.2 | 80.8 | 80.6 |
| | VIVEK HYBRID-21 | 9143 | 9100 | 12223 | 8393 | 81.7 | 82.1 | 79.2 |
| | VIVEK HYBRID-17 | 8157 | 8510 | 10967 | 10290 | 81.7 | 83.3 | 78.1 |
| | VIVEK QPM-9 | 8110 | 8597 | 11167 | 7890 | 80.0 | 83.3 | 78.0 |
| | VIVEK HYBRID-9 | 8103 | 10707 | 11273 | 8520 | 82.2 | 81.4 | 80.8 |
| 200:80:80 | FH-3356 | 9780 | 12250 | 13407 | 11297 | 81.6 | 82.7 | 79.7 |
| | FQH-38 | 9967 | 10573 | 13543 | 9597 | 79.2 | 83.3 | 76.9 |
| | VIVEK HYBRID-21 | 9613 | 10257 | 12950 | 8840 | 82.8 | 81.4 | 80.3 |
| | VIVEK HYBRID-17 | 8693 | 9427 | 11527 | 7137 | 80.5 | 79.5 | 79.2 |
| | VIVEK QPM-9 | 8917 | 9650 | 11850 | 9407 | 79.7 | 80.8 | 77.2 |
| | VIVEK HYBRID-9 | 8700 | 8633 | 11867 | 9657 | 78.9 | 80.8 | 76.1 |

| | | | | | | | |
|--------------------|--------|--------|---------|--------|------|------|------|
| Location mean | 8736.9 | 9298.9 | 11838.3 | 8483.7 | 80.9 | 81.9 | 78.7 |
| C.D.(5%) AiBj-AiBk | 691.7 | 832.2 | 924.0 | 1249.2 | 4.2 | 2.6 | 4.8 |
| C.D.(5%) AiBk-AjBk | 666.2 | 1090.1 | 925.1 | 1561.2 | 3.9 | 2.8 | 4.6 |
| F(5%) | n.s. | s | n.s. | s | n.s. | s | n.s. |

| | | | | | | | |
|-----------|------|-------|-------|------|------|------|------|
| 100:50:50 | 8179 | 8357 | 11127 | 7313 | 80.6 | 81.9 | 78.6 |
| 150:65:65 | 8753 | 9408 | 11864 | 8816 | 81.6 | 82.3 | 79.1 |
| 200:80:80 | 9278 | 10132 | 12524 | 9322 | 80.5 | 81.4 | 78.2 |

| | | | | | | | |
|-----------------|-------|-------|-------|--------|-----|------|------|
| C.D.(5%) Ai-Aj | 219.8 | 799.5 | 392.5 | 1092.1 | 0.9 | 1.5 | 1.5 |
| C.V.(%) Error A | 2.7 | 9.3 | 3.6 | 13.9 | 1.2 | 2.0 | 2.1 |
| F(5%) | s | s | s | s | s | n.s. | n.s. |

| | | | | | | | |
|-----------------|------|-------|-------|------|------|------|------|
| FH-3356 | 9270 | 10270 | 12502 | 9637 | 81.7 | 81.6 | 78.9 |
| FQH-38 | 9688 | 10250 | 13119 | 8018 | 80.2 | 82.5 | 78.5 |
| VIVEK HYBRID-21 | 9192 | 9979 | 12442 | 8900 | 81.7 | 82.3 | 79.3 |
| VIVEK HYBRID-17 | 8133 | 8298 | 10936 | 8103 | 80.6 | 81.9 | 78.4 |
| VIVEK QPM-9 | 8118 | 8316 | 10922 | 7912 | 79.7 | 82.3 | 77.9 |
| VIVEK HYBRID-9 | 8020 | 8681 | 11109 | 8332 | 81.3 | 80.6 | 79.0 |

| | | | | | | | |
|---------------|-------|-------|-------|-------|------|------|------|
| C.D.(5%)Bi-Bj | 399.3 | 480.5 | 533.5 | 721.2 | 2.4 | 1.5 | 2.7 |
| C.V.(%)ErrorB | 4.7 | 5.4 | 4.7 | 8.8 | 3.1 | 1.9 | 3.6 |
| F(5%) | s | s | s | s | n.s. | n.s. | n.s. |

Cont...

A - 40

Table 10: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone II

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | | | Stover Yield (Kg/ha) | Cob Yield (Kg/ha) |
|-----------|-----------------|---------------------|--------|--------|----------|---------|----------------------|-------------------|
| | | Delhi | Kanpur | Karnal | Ludhiana | ntnagar | | |
| N Level | Germplasm | Delhi | Kanpur | Karnal | Ludhiana | ntnagar | Delhi | Pantnagar |
| 100:50:50 | FQH-38 | 4444 | 5556 | 3300 | 5818 | 5069 | 4111 | 8681 |
| | VIVEK HYBRID-21 | 3778 | 6250 | 2787 | 6125 | 4097 | 4222 | 8576 |
| | VIVEK HYBRID-17 | 3500 | 6083 | 3227 | 4844 | 4375 | 3833 | 7917 |
| | VIVEK QPM- 9 | 4000 | 5222 | 2550 | 5722 | 3507 | 4444 | 6563 |
| | VIVEK HYBRID -9 | 4000 | 4917 | 2933 | 6247 | 3646 | 4278 | 5833 |
| 150:65:65 | FQH-38 | 5444 | 5694 | 4253 | 5986 | 6597 | 6111 | 9792 |
| | VIVEK HYBRID-21 | 5000 | 6583 | 3153 | 6133 | 5694 | 5722 | 9896 |
| | VIVEK HYBRID-17 | 4611 | 6250 | 4107 | 5258 | 5313 | 5722 | 8646 |
| | VIVEK QPM- 9 | 5222 | 5333 | 3060 | 6003 | 4688 | 6111 | 7917 |
| | VIVEK HYBRID -9 | 5222 | 5139 | 3667 | 6716 | 4618 | 6111 | 7813 |
| 200:80:80 | FQH-38 | 6167 | 5861 | 5060 | 5960 | 6944 | 7278 | 10382 |
| | VIVEK HYBRID-21 | 5778 | 6583 | 4253 | 6316 | 6458 | 6722 | 10243 |
| | VIVEK HYBRID-17 | 5333 | 6250 | 4867 | 5319 | 6146 | 7500 | 9201 |
| | VIVEK QPM- 9 | 5889 | 5444 | 4400 | 6045 | 5729 | 7111 | 8889 |
| | VIVEK HYBRID -9 | 5833 | 5333 | 4313 | 6840 | 5347 | 7167 | 9132 |

| | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Location mean | 4948.1 | 5766.7 | 3728.7 | 5955.5 | 5215.3 | 5763.0 | 8631.9 |
| C.D.(5%) AiBj-AiBk | 624.9 | 156.3 | 503.4 | 650.2 | 1666.6 | 397.2 | 2543.8 |
| C.D.(5%) AiBk-AjBk | 572.1 | 175.0 | 679.5 | 682.7 | 1650.4 | 434.9 | 2571.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 3944 | 5606 | 2959 | 5751 | 4139 | 4178 | 7514 |
| 150:65:65 | 5100 | 5800 | 3648 | 6019 | 5382 | 5956 | 8813 |
| 200:80:80 | 5800 | 5894 | 4579 | 6096 | 6125 | 7156 | 9569 |

| | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|--------|
| C.D.(5%) Ai-Aj | 125.9 | 108.0 | 518.9 | 367.8 | 717.6 | 257.4 | 1214.0 |
| C.V.(%) Error A | 2.5 | 1.8 | 13.7 | 6.1 | 17.8 | 4.4 | 18.2 |
| F(5%) | s | s | s | n.s. | s | s | s |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| FQH-38 | 5352 | 5704 | 4204 | 5921 | 6204 | 5833 | 9618 |
| VIVEK HYBRID-21 | 4852 | 6472 | 3398 | 6191 | 5417 | 5556 | 9572 |
| VIVEK HYBRID-17 | 4481 | 6194 | 4067 | 5140 | 5278 | 5685 | 8588 |
| VIVEK QPM- 9 | 5037 | 5333 | 3337 | 5923 | 4641 | 5889 | 7789 |
| VIVEK HYBRID -9 | 5019 | 5130 | 3638 | 6601 | 4537 | 5852 | 7593 |

| | | | | | | | |
|---------------|-------|------|-------|-------|-------|-------|--------|
| C.D.(5%)Bi-Bj | 360.8 | 90.2 | 290.6 | 375.4 | 962.2 | 229.3 | 1468.6 |
| C.V.(%)ErrorB | 7.5 | 1.6 | 8.0 | 6.5 | 22.3 | 4.1 | 20.5 |
| F(5%) | s | s | s | s | s | s | s |

Cont....

A - 41

| Main Plot | Sub Plot | Plant Stand (000/ha) | | | | | No. of Cobs (000/ha) | | |
|-----------|-----------------|-------------------------|--------|--------|----------|-----------|-------------------------|----------|-----------|
| | | Delhi | Kanpur | Karnal | Ludhiana | Pantnagar | Delhi | Ludhiana | Pantnagar |
| N Level | Germplasm | | | | | | | | |
| 100:50:50 | FQH-38 | 66.7 | 55.6 | 39.6 | 82.6 | 61.1 | 66.7 | 82.6 | 56.9 |
| | VIVEK HYBRID-21 | 66.7 | 58.1 | 42.5 | 83.7 | 64.6 | 66.7 | 80.9 | 67.4 |
| | VIVEK HYBRID-17 | 66.1 | 55.6 | 40.9 | 81.3 | 65.3 | 66.1 | 79.9 | 66.7 |
| | VIVEK QPM- 9 | 66.1 | 53.9 | 35.4 | 76.4 | 66.7 | 66.1 | 79.5 | 61.1 |
| | VIVEK HYBRID -9 | 66.1 | 54.2 | 33.4 | 80.9 | 66.7 | 66.1 | 82.3 | 67.4 |
| 150:65:65 | FQH-38 | 66.7 | 57.2 | 41.4 | 77.1 | 66.0 | 66.1 | 85.1 | 61.1 |
| | VIVEK HYBRID-21 | 66.7 | 59.2 | 38.9 | 79.5 | 66.0 | 66.1 | 84.4 | 68.8 |
| | VIVEK HYBRID-17 | 66.7 | 56.9 | 37.6 | 76.0 | 64.6 | 66.1 | 81.9 | 68.8 |
| | VIVEK QPM- 9 | 66.7 | 56.7 | 36.7 | 82.6 | 66.0 | 66.7 | 80.2 | 61.1 |
| | VIVEK HYBRID -9 | 66.1 | 55.3 | 36.1 | 84.4 | 63.2 | 66.1 | 84.7 | 64.6 |
| 200:80:80 | FQH-38 | 66.7 | 58.6 | 41.1 | 78.1 | 66.0 | 66.7 | 85.4 | 72.2 |
| | VIVEK HYBRID-21 | 66.7 | 60.6 | 41.4 | 86.8 | 66.7 | 66.7 | 85.1 | 69.4 |
| | VIVEK HYBRID-17 | 65.6 | 57.2 | 38.7 | 76.7 | 66.0 | 65.6 | 83.3 | 68.8 |
| | VIVEK QPM- 9 | 66.7 | 58.6 | 39.8 | 81.9 | 65.3 | 66.7 | 81.6 | 61.8 |
| | VIVEK HYBRID -9 | 66.7 | 56.7 | 42.0 | 81.3 | 66.0 | 66.7 | 85.4 | 67.4 |

| | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|
| Location mean | 66.4 | 56.9 | 39.0 | 80.6 | 65.3 | 66.3 | 82.8 | 65.6 |
| C.D.(5%) AiBj-AiBk | 0.9 | 1.8 | 6.1 | 6.7 | 6.2 | 1.2 | 7.4 | 13.4 |
| C.D.(5%) AiBk-AjBk | 1.0 | 2.5 | 6.0 | 6.8 | 6.1 | 1.3 | 6.9 | 13.6 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|
| 100:50:50 | 66.3 | 55.4 | 38.4 | 81.0 | 64.9 | 66.3 | 81.0 | 63.9 |
| 150:65:65 | 66.6 | 57.1 | 38.1 | 79.9 | 65.1 | 66.2 | 83.3 | 64.9 |
| 200:80:80 | 66.4 | 58.3 | 40.6 | 81.0 | 66.0 | 66.4 | 84.2 | 67.9 |

| | | | | | | | | |
|-----------------|------|-----|------|------|------|------|-----|------|
| C.D.(5%) Ai-Aj | 0.6 | 2.0 | 2.7 | 3.3 | 2.5 | 0.6 | 2.1 | 6.4 |
| C.V.(%) Error A | 0.9 | 3.4 | 6.7 | 4.1 | 5.0 | 0.9 | 2.5 | 12.6 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|
| FQH-38 | 66.7 | 57.1 | 40.7 | 79.3 | 64.4 | 66.5 | 84.4 | 63.4 |
| VIVEK HYBRID-21 | 66.7 | 59.3 | 40.9 | 83.3 | 65.7 | 66.5 | 83.4 | 68.5 |
| VIVEK HYBRID-17 | 66.1 | 56.6 | 39.1 | 78.0 | 65.3 | 65.9 | 81.7 | 68.1 |
| VIVEK QPM- 9 | 66.5 | 56.4 | 37.3 | 80.3 | 66.0 | 66.5 | 80.4 | 61.3 |
| VIVEK HYBRID -9 | 66.3 | 55.4 | 37.2 | 82.2 | 65.3 | 66.3 | 84.1 | 66.4 |

| | | | | | | | | |
|---------------|------|-----|------|------|------|------|------|------|
| C.D.(5%)Bi-Bj | 0.5 | 1.0 | 3.5 | 3.9 | 3.6 | 0.7 | 4.3 | 7.8 |
| C.V.(%)ErrorB | 0.8 | 1.8 | 9.3 | 5.0 | 6.6 | 1.1 | 5.3 | 14.3 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

Cont....

A - 42

| Main Plot | Sub Plot | Days to 50% Tasseling | | | Days to 50% Silking | | | |
|-----------|-----------------|-----------------------|----------|-----------|---------------------|--------|----------|-----------|
| | | Karnal | Ludhiana | Pantnagar | Kanpur | Karnal | Ludhiana | Pantnagar |
| N Level | Germplasm | | | | | | | |
| 100:50:50 | FQH-38 | 55.0 | 47.3 | 44.5 | 73.7 | 57.0 | 48.7 | 47.8 |
| | VIVEK HYBRID-21 | 53.7 | 47.3 | 43.8 | 80.3 | 56.0 | 49.7 | 47.0 |
| | VIVEK HYBRID-17 | 53.0 | 45.0 | 44.5 | 76.3 | 55.0 | 47.7 | 46.8 |
| | VIVEK QPM- 9 | 52.7 | 47.7 | 44.3 | 82.7 | 54.7 | 50.3 | 47.3 |
| | VIVEK HYBRID -9 | 56.3 | 48.3 | 44.0 | 80.3 | 58.3 | 50.7 | 47.3 |
| 150:65:65 | FQH-38 | 56.7 | 46.0 | 45.0 | 79.3 | 58.7 | 48.7 | 48.3 |
| | VIVEK HYBRID-21 | 55.0 | 45.7 | 44.0 | 80.3 | 57.0 | 48.7 | 47.5 |
| | VIVEK HYBRID-17 | 54.0 | 44.3 | 44.5 | 76.3 | 56.3 | 46.3 | 47.8 |
| | VIVEK QPM- 9 | 53.7 | 47.3 | 45.0 | 84.0 | 56.0 | 49.7 | 48.3 |
| | VIVEK HYBRID -9 | 54.3 | 47.3 | 44.5 | 80.7 | 57.0 | 49.3 | 47.8 |
| 200:80:80 | FQH-38 | 55.3 | 45.7 | 44.5 | 75.3 | 57.3 | 48.3 | 48.0 |
| | VIVEK HYBRID-21 | 54.3 | 44.0 | 45.3 | 82.0 | 56.3 | 46.7 | 48.5 |
| | VIVEK HYBRID-17 | 51.7 | 44.0 | 45.0 | 75.0 | 54.0 | 46.3 | 48.0 |
| | VIVEK QPM- 9 | 55.0 | 47.0 | 45.5 | 81.3 | 57.7 | 49.7 | 48.5 |
| | VIVEK HYBRID -9 | 54.3 | 45.3 | 45.8 | 77.0 | 56.7 | 48.0 | 48.5 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Location mean | 54.3 | 46.2 | 44.7 | 79.0 | 56.5 | 48.6 | 47.8 |
| C.D.(5%) AiBj-AiBk | 1.7 | 2.3 | 1.3 | 3.2 | 1.8 | 2.5 | 0.9 |
| C.D.(5%) AiBk-AjBk | 1.7 | 2.7 | 1.5 | 4.2 | 1.9 | 2.5 | 1.1 |
| F(5%) | s | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 54.1 | 47.1 | 44.2 | 78.7 | 56.2 | 49.4 | 47.2 |
| 150:65:65 | 54.7 | 46.1 | 44.6 | 80.1 | 57.0 | 48.5 | 47.9 |
| 200:80:80 | 54.1 | 45.2 | 45.2 | 78.1 | 56.4 | 47.8 | 48.3 |

| | | | | | | | |
|-----------------|------|------|------|------|------|-----|-----|
| C.D.(5%) Ai-Aj | 0.8 | 1.8 | 1.0 | 3.1 | 0.9 | 1.0 | 0.8 |
| C.V.(%) Error A | 1.4 | 3.8 | 2.8 | 3.9 | 1.6 | 2.0 | 2.1 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s | s |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| FQH-38 | 55.7 | 46.3 | 44.7 | 76.1 | 57.7 | 48.6 | 48.0 |
| VIVEK HYBRID-21 | 54.3 | 45.7 | 44.3 | 80.9 | 56.4 | 48.3 | 47.7 |
| VIVEK HYBRID-17 | 52.9 | 44.4 | 44.7 | 75.9 | 55.1 | 46.8 | 47.5 |
| VIVEK QPM- 9 | 53.8 | 47.3 | 44.9 | 82.7 | 56.1 | 49.9 | 48.0 |
| VIVEK HYBRID -9 | 55.0 | 47.0 | 44.8 | 79.3 | 57.3 | 49.3 | 47.8 |

| | | | | | | | |
|---------------|-----|-----|------|-----|-----|-----|------|
| C.D.(5%)Bi-Bj | 1.0 | 1.3 | 0.7 | 1.8 | 1.1 | 1.5 | 0.5 |
| C.V.(%)ErrorB | 1.9 | 3.0 | 2.0 | 2.4 | 1.9 | 3.1 | 1.3 |
| F(5%) | s | s | n.s. | s | s | s | n.s. |

Cont....

A - 43

| Main Plot | Sub Plot | Plant Height (cm) | | | | Ear Height (cm) | Days to 75% Husk | Moisture (%) |
|-----------|-----------------|-------------------|--------|----------|-----------|-----------------|------------------|--------------|
| | | Delhi | Kanpur | Ludhiana | Pantnagar | | | |
| N Level | Germplasm | Delhi | Kanpur | Ludhiana | Pantnagar | Ludhiana | Ludhiana | Pantnagar |
| 100:50:50 | FQH-38 | 132.3 | 185.7 | 160.0 | 212.5 | 63.3 | 81.0 | 25.8 |
| | VIVEK HYBRID-21 | 142.7 | 188.7 | 155.0 | 215.5 | 46.7 | 81.0 | 25.5 |
| | VIVEK HYBRID-17 | 132.0 | 185.3 | 148.7 | 210.0 | 57.3 | 80.3 | 24.8 |
| | VIVEK QPM- 9 | 141.3 | 189.3 | 165.3 | 220.3 | 70.0 | 83.3 | 25.0 |
| | VIVEK HYBRID -9 | 141.7 | 192.7 | 161.0 | 203.8 | 62.3 | 81.7 | 26.0 |
| 150:65:65 | FQH-38 | 143.0 | 187.3 | 164.0 | 217.5 | 64.0 | 79.3 | 26.3 |
| | VIVEK HYBRID-21 | 151.7 | 191.7 | 157.3 | 217.5 | 59.0 | 79.7 | 25.0 |
| | VIVEK HYBRID-17 | 141.7 | 187.7 | 153.7 | 214.5 | 63.0 | 78.7 | 25.0 |
| | VIVEK QPM- 9 | 152.0 | 193.7 | 166.0 | 222.5 | 74.3 | 82.3 | 24.8 |
| | VIVEK HYBRID -9 | 151.7 | 192.7 | 162.3 | 211.3 | 67.0 | 83.0 | 25.8 |
| 200:80:80 | FQH-38 | 149.0 | 186.0 | 166.3 | 218.5 | 66.0 | 78.3 | 25.8 |
| | VIVEK HYBRID-21 | 158.3 | 190.0 | 158.3 | 217.8 | 60.0 | 78.7 | 24.8 |
| | VIVEK HYBRID-17 | 148.3 | 188.0 | 155.7 | 216.0 | 66.3 | 78.3 | 25.8 |
| | VIVEK QPM- 9 | 159.0 | 186.0 | 171.0 | 225.0 | 75.7 | 80.0 | 24.8 |
| | VIVEK HYBRID -9 | 158.3 | 187.3 | 165.3 | 214.5 | 69.3 | 79.7 | 25.0 |

| | | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|------|
| Location mean | 146.9 | 188.8 | 160.7 | 215.8 | 64.3 | 80.4 | 25.3 |
| C.D.(5%) AiBj-AiBk | 3.4 | 3.3 | 12.1 | 17.9 | 20.9 | 2.3 | 1.4 |
| C.D.(5%) AiBk-AjBk | 3.2 | 3.7 | 11.7 | 19.5 | 19.5 | 2.5 | 1.3 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|-------|-------|-------|-------|------|------|------|
| 100:50:50 | 138.0 | 188.3 | 158.0 | 212.4 | 59.9 | 81.5 | 25.4 |
| 150:65:65 | 148.0 | 190.6 | 160.7 | 216.7 | 65.5 | 80.6 | 25.4 |
| 200:80:80 | 154.6 | 187.5 | 163.3 | 218.4 | 67.5 | 79.0 | 25.2 |

| | | | | | | | |
|-----------------|-----|-----|------|------|-----|-----|------|
| C.D.(5%) Ai-Aj | 1.1 | 2.3 | 4.6 | 11.2 | 5.7 | 1.5 | 0.4 |
| C.V.(%) Error A | 0.7 | 1.2 | 2.8 | 6.7 | 8.7 | 1.9 | 2.0 |
| F(5%) | s | s | n.s. | n.s. | s | s | n.s. |

| | | | | | | | |
|-----------------|-------|-------|-------|-------|------|------|------|
| FQH-38 | 141.4 | 186.3 | 163.4 | 216.2 | 64.4 | 79.6 | 25.9 |
| VIVEK HYBRID-21 | 150.9 | 190.1 | 156.9 | 216.9 | 55.2 | 79.8 | 25.1 |
| VIVEK HYBRID-17 | 140.7 | 187.0 | 152.7 | 213.5 | 62.2 | 79.1 | 25.2 |
| VIVEK QPM- 9 | 150.8 | 189.7 | 167.4 | 222.6 | 73.3 | 81.9 | 24.8 |
| VIVEK HYBRID -9 | 150.6 | 190.9 | 162.9 | 209.8 | 66.2 | 81.4 | 25.6 |

| | | | | | | | |
|---------------|-----|-----|-----|------|------|-----|------|
| C.D.(5%)Bi-Bj | 1.9 | 1.9 | 7.0 | 10.3 | 12.1 | 1.3 | 0.8 |
| C.V.(%)ErrorB | 1.4 | 1.0 | 4.5 | 5.8 | 19.3 | 1.7 | 3.8 |
| F(5%) | s | s | s | n.s. | n.s. | s | n.s. |

Cont....

A - 44

| Main Plot | Sub Plot | Cob Length (cm) | | Cob Girth (cm) | |
|-----------|-----------------|-----------------|-----------|----------------|-----------|
| | | Ludhiana | Pantnagar | Ludhiana | Pantnagar |
| N Level | Germpiasm | | | | |
| 100:50:50 | FQH-38 | 14.4 | 15.5 | 4.1 | 15.3 |
| | VIVEK HYBRID-21 | 13.8 | 14.6 | 4.0 | 13.8 |
| | VIVEK HYBRID-17 | 13.7 | 14.9 | 3.9 | 14.4 |
| | VIVEK QPM- 9 | 14.0 | 14.9 | 4.0 | 14.4 |
| | VIVEK HYBRID -9 | 13.7 | 15.9 | 4.0 | 15.1 |
| 150:65:65 | FQH-38 | 14.6 | 16.3 | 4.1 | 15.4 |
| | VIVEK HYBRID-21 | 14.0 | 15.3 | 4.1 | 14.3 |
| | VIVEK HYBRID-17 | 14.3 | 15.6 | 3.9 | 14.7 |
| | VIVEK QPM- 9 | 14.3 | 16.0 | 4.0 | 14.9 |
| | VIVEK HYBRID -9 | 14.4 | 16.8 | 4.1 | 15.4 |
| 200:80:80 | FQH-38 | 14.9 | 16.8 | 4.1 | 15.5 |
| | VIVEK HYBRID-21 | 14.3 | 15.8 | 4.2 | 14.8 |
| | VIVEK HYBRID-17 | 14.8 | 15.9 | 3.9 | 15.1 |
| | VIVEK QPM- 9 | 14.8 | 16.1 | 4.1 | 15.6 |
| | VIVEK HYBRID -9 | 14.5 | 16.9 | 4.2 | 15.6 |

| | | | | |
|--------------------|------|------|------|------|
| Location mean | 14.3 | 15.8 | 4.1 | 14.9 |
| C.D.(5%) AiBj-AiBk | 1.5 | 1.3 | 0.3 | 1.1 |
| C.D.(5%) AiBk-AjBk | 1.7 | 1.4 | 0.3 | 1.2 |
| F(5%) | n.s. | n.s. | n.s. | n.s. |

| | | | | |
|-----------|------|------|-----|------|
| 100:50:50 | 13.9 | 15.2 | 4.0 | 14.6 |
| 150:65:65 | 14.3 | 16.0 | 4.1 | 14.9 |
| 200:80:80 | 14.7 | 16.3 | 4.1 | 15.3 |

| | | | | |
|-----------------|------|-----|------|------|
| C.D.(5%) Ai-Aj | 1.1 | 0.8 | 0.1 | 0.7 |
| C.V.(%) Error A | 7.7 | 6.6 | 2.6 | 5.7 |
| F(5%) | n.s. | s | n.s. | n.s. |

| | | | | |
|-----------------|------|------|-----|------|
| FQH-38 | 14.6 | 16.2 | 4.1 | 15.4 |
| VIVEK HYBRID-21 | 14.0 | 15.3 | 4.1 | 14.3 |
| VIVEK HYBRID-17 | 14.3 | 15.4 | 3.9 | 14.7 |
| VIVEK QPM- 9 | 14.4 | 15.6 | 4.0 | 14.9 |
| VIVEK HYBRID -9 | 14.2 | 16.5 | 4.1 | 15.3 |

| | | | | |
|---------------|------|-----|------|-----|
| C.D.(5%)Bi-Bj | 0.9 | 0.7 | 0.2 | 0.6 |
| C.V.(%)ErrorB | 6.1 | 5.7 | 4.2 | 5.1 |
| F(5%) | n.s. | s | n.s. | s |

A - 45

**Table 11: Relative performance of pre-release germplasm of Extra Early
Maturity at different levels of nutrient during Kharif 2009 in Zone III**

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | | Cob Yield (Kg/ha) | | |
|-----------|-----------------|---------------------|----------|--------|----------|-------------------|-------|--------|
| | | Ambikapur | Bahraich | Ranchi | Varanasi | Ambikapur | Dholi | Ranchi |
| N Levels | Genotype | | | | | | | |
| 100:50:50 | FH-3358 | 4267 | 2833 | 4490 | 7370 | 5111 | 2600 | 5442 |
| | VIVEK HYBRID-21 | 5333 | 2778 | 4046 | 6185 | 7468 | 2600 | 5003 |
| | VIVEK HYBRID-17 | 4830 | 2667 | 3823 | 5778 | 5778 | 1600 | 4641 |
| | VIVEK QPM- 9 | 4489 | 2556 | 3922 | 6407 | 5467 | 2800 | 4888 |
| | VIVEK HYBRID -9 | 4681 | 2806 | 3401 | 7185 | 5585 | 2733 | 4237 |
| 150:65:65 | FH-3358 | 5644 | 4694 | 5264 | 7926 | 6862 | 3111 | 6314 |
| | VIVEK HYBRID-21 | 5496 | 4500 | 5869 | 7296 | 6400 | 2800 | 7094 |
| | VIVEK HYBRID-17 | 4770 | 4222 | 5289 | 6815 | 5674 | 2267 | 6341 |
| | VIVEK QPM- 9 | 5304 | 4389 | 4544 | 7407 | 6344 | 3133 | 5503 |
| | VIVEK HYBRID -9 | 5259 | 5118 | 4187 | 8111 | 6222 | 3089 | 5122 |
| 200:80:80 | FH-3358 | 5200 | 6278 | 5608 | 8630 | 6148 | 3178 | 6762 |
| | VIVEK HYBRID-21 | 6474 | 6174 | 7077 | 7444 | 7067 | 3444 | 8434 |
| | VIVEK HYBRID-17 | 5126 | 5563 | 4746 | 6593 | 5970 | 3422 | 5812 |
| | VIVEK QPM- 9 | 5156 | 4264 | 4757 | 7741 | 5926 | 3400 | 5618 |
| | VIVEK HYBRID -9 | 5452 | 5389 | 4507 | 8037 | 6519 | 4000 | 5555 |

| | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|-------|
| Location mean | 5165.4 | 4281.9 | 4768.7 | 7261.7 | 6169.4 | 2945.2 | ##### |
| C.D.(5%) AiBj-AiBk | 1135.8 | 1305.8 | 801.9 | 863.1 | 1755.0 | 708.9 | 846.7 |
| C.D.(5%) AiBk-AjBk | 1128.8 | 1297.7 | 1034.7 | 995.2 | 1948.9 | 828.4 | ##### |
| F(5%) | n.s. | n.s. | s | n.s. | n.s. | n.s. | s |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 4720 | 2728 | 3936 | 6585 | 5882 | 2467 | 4842 |
| 150:65:65 | 5295 | 4585 | 5030 | 7511 | 6300 | 2880 | 6075 |
| 200:80:80 | 5481 | 5533 | 5339 | 7689 | 6326 | 3489 | 6436 |

| | | | | | | | |
|-----------------|-------|-------|-------|-------|--------|-------|-------|
| C.D.(5%) Ai-Aj | 507.1 | 582.7 | 761.4 | 643.6 | 1185.0 | 546.0 | 917.8 |
| C.V.(%) Error A | 9.7 | 13.4 | 15.8 | 8.7 | 18.9 | 18.3 | 15.7 |
| F(5%) | s | s | s | s | n.s. | s | s |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| FH-3358 | 5037 | 4602 | 5121 | 7975 | 6040 | 2963 | 6173 |
| VIVEK HYBRID-21 | 5768 | 4484 | 5664 | 6975 | 6978 | 2948 | 6844 |
| VIVEK HYBRID-17 | 4909 | 4150 | 4620 | 6395 | 5807 | 2430 | 5598 |
| VIVEK QPM- 9 | 4983 | 3736 | 4407 | 7185 | 5912 | 3111 | 5336 |
| VIVEK HYBRID -9 | 5131 | 4438 | 4032 | 7778 | 6109 | 3274 | 4971 |

| | | | | | | | |
|---------------|-------|-------|-------|-------|--------|-------|-------|
| C.D.(5%)Bi-Bj | 655.7 | 753.9 | 463.0 | 498.3 | 1013.2 | 409.3 | 488.8 |
| C.V.(%)ErrorB | 13.0 | 18.1 | 10.0 | 7.1 | 16.9 | 14.3 | 8.7 |
| F(5%) | n.s. | n.s. | s | s | n.s. | s | s |

Cont.....

A - 46

| Main Plot | Sub Plot | No. of Plant (000/ha) | | | | | |
|-----------|-----------------|-----------------------|----------|-----------|----------|-------|--------|
| | | N Levels | Genotype | Ambikapur | Bahraich | Dholi | Ranchi |
| 100:50:50 | FH-3358 | | 104.4 | 77.8 | 62.2 | 79.1 | 66.3 |
| | VIVEK HYBRID-21 | | 103.9 | 77.1 | 62.0 | 78.2 | 59.6 |
| | VIVEK HYBRID-17 | | 102.8 | 77.1 | 64.4 | 80.7 | 63.7 |
| | VIVEK QPM- 9 | | 103.6 | 78.5 | 62.0 | 79.6 | 64.1 |
| | VIVEK HYBRID -9 | | 102.7 | 81.3 | 62.0 | 77.6 | 66.7 |
| 150:65:65 | FH-3358 | | 105.0 | 76.4 | 60.0 | 76.2 | 66.3 |
| | VIVEK HYBRID-21 | | 110.7 | 77.8 | 59.8 | 80.0 | 64.8 |
| | VIVEK HYBRID-17 | | 102.5 | 81.3 | 60.0 | 81.8 | 66.3 |
| | VIVEK QPM- 9 | | 104.6 | 83.3 | 60.2 | 75.8 | 66.3 |
| | VIVEK HYBRID -9 | | 106.1 | 80.6 | 58.0 | 76.0 | 66.3 |
| 200:80:80 | FH-3358 | | 107.1 | 81.3 | 56.7 | 77.1 | 66.3 |
| | VIVEK HYBRID-21 | | 107.7 | 80.6 | 58.4 | 74.7 | 65.6 |
| | VIVEK HYBRID-17 | | 101.6 | 81.9 | 60.4 | 73.6 | 64.8 |
| | VIVEK QPM- 9 | | 103.3 | 79.2 | 60.4 | 78.0 | 66.7 |
| | VIVEK HYBRID -9 | | 103.0 | 75.7 | 63.3 | 79.1 | 65.6 |

| | | | | | |
|--------------------|-------|------|------|------|------|
| Location mean | 104.6 | 79.3 | 60.7 | 77.8 | 65.3 |
| C.D.(5%) AiBj-AiBk | 4.0 | 3.5 | 5.1 | 4.0 | 2.6 |
| C.D.(5%) AiBk-AjBk | 4.0 | 3.3 | 4.8 | 4.6 | 2.5 |
| F(5%) | n.s. | s | n.s. | s | s |

| | | | | | |
|-----------|-------|------|------|------|------|
| 100:50:50 | 103.5 | 78.3 | 62.5 | 79.0 | 64.1 |
| 150:65:65 | 105.8 | 79.9 | 59.6 | 78.0 | 66.0 |
| 200:80:80 | 104.5 | 79.7 | 59.9 | 76.5 | 65.8 |

| | | | | | |
|-----------------|------|-----|-----|------|-----|
| C.D.(5%) Ai-Aj | 1.8 | 0.9 | 1.6 | 2.9 | 0.9 |
| C.V.(%) Error A | 1.7 | 1.1 | 2.5 | 3.7 | 1.4 |
| F(5%) | n.s. | s | s | n.s. | s |

| | | | | | |
|-----------------|-------|------|------|------|------|
| FH-3358 | 105.5 | 78.5 | 59.6 | 77.5 | 66.3 |
| VIVEK HYBRID-21 | 107.4 | 78.5 | 60.1 | 77.6 | 63.3 |
| VIVEK HYBRID-17 | 102.3 | 80.1 | 61.6 | 78.7 | 64.9 |
| VIVEK QPM- 9 | 103.8 | 80.3 | 60.9 | 77.8 | 65.7 |
| VIVEK HYBRID -9 | 103.9 | 79.2 | 61.1 | 77.6 | 66.2 |

| | | | | | |
|---------------|-----|------|------|------|-----|
| C.D.(5%)Bi-Bj | 2.3 | 2.0 | 2.9 | 2.3 | 1.5 |
| C.V.(%)ErrorB | 2.3 | 2.6 | 5.0 | 3.0 | 2.3 |
| F(5%) | s | n.s. | n.s. | n.s. | s |

Cont.....

A - 47

| Main Plot | Sub Plot | No. of Cobs (000/ha) | | | | |
|-----------|-----------------|----------------------|----------|-------|--------|----------|
| | | Ambikapur | Bahraich | Dholi | Ranchi | Varanasi |
| N Levels | Genotype | | | | | |
| 100:50:50 | FH-3358 | 100.7 | 77.8 | 56.2 | 72.7 | 66.3 |
| | VIVEK HYBRID-21 | 100.6 | 75.7 | 61.1 | 71.6 | 58.9 |
| | VIVEK HYBRID-17 | 99.3 | 77.8 | 58.2 | 74.0 | 62.2 |
| | VIVEK QPM- 9 | 100.1 | 79.2 | 60.0 | 72.7 | 61.9 |
| | VIVEK HYBRID -9 | 99.0 | 81.3 | 60.4 | 71.3 | 66.7 |
| 150:65:65 | FH-3358 | 102.4 | 76.4 | 56.7 | 70.9 | 67.0 |
| | VIVEK HYBRID-21 | 107.0 | 77.8 | 60.4 | 74.4 | 65.6 |
| | VIVEK HYBRID-17 | 99.9 | 79.9 | 60.0 | 75.6 | 65.2 |
| | VIVEK QPM- 9 | 102.1 | 81.3 | 56.9 | 70.4 | 64.8 |
| | VIVEK HYBRID -9 | 103.4 | 81.9 | 58.4 | 72.0 | 67.0 |
| 200:80:80 | FH-3358 | 105.0 | 81.9 | 53.8 | 73.8 | 65.9 |
| | VIVEK HYBRID-21 | 105.0 | 78.5 | 59.3 | 70.7 | 68.9 |
| | VIVEK HYBRID-17 | 99.1 | 81.3 | 57.3 | 70.4 | 64.8 |
| | VIVEK QPM- 9 | 100.6 | 80.6 | 61.6 | 74.7 | 65.6 |
| | VIVEK HYBRID -9 | 100.4 | 77.8 | 62.2 | 75.1 | 66.7 |

| | | | | | |
|--------------------|-------|------|------|------|------|
| Location mean | 101.6 | 79.3 | 58.8 | 72.7 | 65.2 |
| C.D.(5%) AiBj-AiBk | 4.4 | 3.3 | 3.3 | 3.8 | 4.2 |
| C.D.(5%) AiBk-AjBk | 4.4 | 3.3 | 4.5 | 4.9 | 4.5 |
| F(5%) | n.s. | s | s | s | n.s. |

| | | | | | |
|-----------|-------|------|------|------|------|
| 100:50:50 | 99.9 | 78.3 | 59.2 | 72.4 | 63.2 |
| 150:65:65 | 102.9 | 79.4 | 58.5 | 72.7 | 65.9 |
| 200:80:80 | 102.0 | 80.0 | 58.8 | 72.9 | 66.4 |

| | | | | | |
|-----------------|-----|------|------|------|-----|
| C.D.(5%) Ai-Aj | 2.0 | 1.5 | 3.4 | 3.6 | 2.5 |
| C.V.(%) Error A | 1.9 | 1.8 | 5.8 | 4.8 | 3.8 |
| F(5%) | s | n.s. | n.s. | n.s. | s |

| | | | | | |
|-----------------|-------|------|------|------|------|
| FH-3358 | 102.7 | 78.7 | 55.6 | 72.4 | 66.4 |
| VIVEK HYBRID-21 | 104.2 | 77.3 | 60.3 | 72.2 | 64.4 |
| VIVEK HYBRID-17 | 99.4 | 79.6 | 58.5 | 73.3 | 64.1 |
| VIVEK QPM- 9 | 100.9 | 80.3 | 59.5 | 72.6 | 64.1 |
| VIVEK HYBRID -9 | 100.9 | 80.3 | 60.4 | 72.8 | 66.8 |

| | | | | | |
|---------------|-----|-----|-----|------|------|
| C.D.(5%)Bi-Bj | 2.6 | 1.9 | 1.9 | 2.2 | 2.4 |
| C.V.(%)ErrorB | 2.6 | 2.4 | 3.3 | 3.1 | 3.8 |
| F(5%) | s | s | s | n.s. | n.s. |

Cont.....

A - 48

| Main Plot | Sub Plot | Plant Height (cm) | | | | | Ear Height (cm) | | |
|-----------|-----------------|-------------------|----------|-------|--------|----------|-----------------|--------|----------|
| | | Ambikapur | Bahraich | Dholi | Ranchi | Varanasi | Ambikapur | Ranchi | Varanasi |
| N Levels | Genotype | | | | | | | | |
| 100:50:50 | FH-3358 | 179.3 | 144.3 | 81.7 | 186.3 | 144.0 | 56.2 | 55.9 | 66.3 |
| | VIVEK HYBRID-21 | 218.4 | 154.3 | 96.7 | 219.5 | 168.7 | 71.6 | 72.1 | 66.7 |
| | VIVEK HYBRID-17 | 195.5 | 132.0 | 91.7 | 197.9 | 160.7 | 64.1 | 62.9 | 67.3 |
| | VIVEK QPM- 9 | 214.5 | 170.0 | 114.0 | 214.2 | 181.7 | 75.1 | 74.5 | 82.3 |
| | VIVEK HYBRID -9 | 214.7 | 181.7 | 110.0 | 211.1 | 177.0 | 70.4 | 69.4 | 75.0 |
| 150:65:65 | FH-3358 | 189.9 | 156.7 | 88.0 | 194.3 | 152.3 | 56.7 | 57.5 | 70.3 |
| | VIVEK HYBRID-21 | 223.9 | 180.0 | 100.7 | 224.9 | 169.7 | 69.8 | 69.5 | 71.3 |
| | VIVEK HYBRID-17 | 211.7 | 150.0 | 107.3 | 209.4 | 170.7 | 76.2 | 75.9 | 72.3 |
| | VIVEK QPM- 9 | 223.7 | 181.0 | 111.5 | 224.7 | 181.0 | 77.1 | 77.1 | 81.3 |
| | VIVEK HYBRID -9 | 216.5 | 188.3 | 109.0 | 217.5 | 176.7 | 68.6 | 68.9 | 77.0 |
| 200:80:80 | FH-3358 | 199.7 | 172.0 | 84.6 | 202.1 | 149.3 | 63.2 | 63.2 | 70.0 |
| | VIVEK HYBRID-21 | 232.4 | 189.3 | 104.7 | 227.1 | 168.0 | 70.1 | 69.7 | 67.0 |
| | VIVEK HYBRID-17 | 221.7 | 171.0 | 113.7 | 219.7 | 167.0 | 68.8 | 68.3 | 75.0 |
| | VIVEK QPM- 9 | 226.0 | 201.0 | 115.0 | 227.0 | 182.3 | 79.5 | 79.5 | 74.7 |
| | VIVEK HYBRID -9 | 219.9 | 205.7 | 115.0 | 220.9 | 177.0 | 78.3 | 77.5 | 77.0 |

| | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|------|------|------|
| Location mean | 212.5 | 171.8 | 102.9 | 213.1 | 168.4 | 69.7 | 69.5 | 72.9 |
| C.D.(5%) AiBj-AiBk | 13.8 | 3.3 | 7.5 | 14.2 | 8.3 | 6.6 | 6.4 | 7.7 |
| C.D.(5%) AiBk-AjBk | 18.6 | 3.9 | 13.8 | 19.0 | 9.7 | 6.8 | 7.1 | 7.5 |
| F(5%) | n.s. | s | s | n.s. | n.s. | s | s | n.s. |

| | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|------|------|------|
| 100:50:50 | 204.5 | 156.5 | 98.8 | 205.8 | 166.4 | 67.5 | 67.0 | 71.5 |
| 150:65:65 | 213.1 | 171.2 | 103.3 | 214.1 | 170.1 | 69.7 | 69.8 | 74.5 |
| 200:80:80 | 219.9 | 187.8 | 106.6 | 219.3 | 168.7 | 72.0 | 71.7 | 72.7 |

| | | | | | | | | |
|-----------------|------|-----|------|------|------|------|------|------|
| C.D.(5%) Ai-Aj | 14.2 | 2.6 | 12.3 | 14.4 | 6.4 | 3.6 | 4.3 | 3.1 |
| C.V.(%) Error A | 6.6 | 1.5 | 11.8 | 6.7 | 3.8 | 5.1 | 6.1 | 4.1 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|------|------|------|
| FH-3358 | 189.6 | 157.7 | 84.8 | 194.2 | 148.6 | 58.7 | 58.9 | 68.9 |
| VIVEK HYBRID-21 | 224.9 | 174.6 | 100.7 | 223.8 | 168.8 | 70.5 | 70.4 | 68.3 |
| VIVEK HYBRID-17 | 209.6 | 151.0 | 104.2 | 209.0 | 166.1 | 69.7 | 69.0 | 71.6 |
| VIVEK QPM- 9 | 221.4 | 184.0 | 113.5 | 222.0 | 181.7 | 77.3 | 77.0 | 79.4 |
| VIVEK HYBRID -9 | 217.0 | 191.9 | 111.3 | 216.5 | 176.9 | 72.4 | 71.9 | 76.3 |

| | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| C.D.(5%)Bi-Bj | 8.0 | 1.9 | 4.3 | 8.2 | 4.8 | 3.8 | 3.7 | 4.4 |
| C.V.(%)ErrorB | 3.8 | 1.1 | 4.3 | 4.0 | 2.9 | 5.6 | 5.5 | 6.2 |
| F(5%) | s | s | s | s | s | s | s | s |

Cont.....

A - 49

| Main Plot | Sub Plot | Days to 50% Silking | | | Days to 50% Tasselina | Barren Plants (000/ha) |
|-----------|-----------------|---------------------|-------|----------|-----------------------|------------------------|
| | | Bahraich | Dholi | Varanasi | | |
| N Levels | Genotype | | | | Varanasi | Varanasi |
| 100:50:50 | FH-3358 | 49.0 | 57.0 | 46.0 | 41.7 | 1.1 |
| | VIVEK HYBRID-21 | 45.0 | 53.7 | 44.0 | 40.3 | 0.7 |
| | VIVEK HYBRID-17 | 49.0 | 53.0 | 43.3 | 40.0 | 1.9 |
| | VIVEK QPM- 9 | 46.0 | 54.0 | 43.7 | 40.0 | 2.2 |
| | VIVEK HYBRID -9 | 48.7 | 54.3 | 43.0 | 40.7 | 0.7 |
| 150:65:65 | FH-3358 | 45.0 | 57.0 | 46.3 | 41.7 | 0.0 |
| | VIVEK HYBRID-21 | 43.0 | 52.3 | 44.0 | 40.7 | 0.0 |
| | VIVEK HYBRID-17 | 45.0 | 53.3 | 43.3 | 40.0 | 1.1 |
| | VIVEK QPM- 9 | 44.3 | 54.7 | 44.0 | 40.0 | 1.9 |
| | VIVEK HYBRID -9 | 44.7 | 54.3 | 42.7 | 40.3 | 0.4 |
| 200:80:80 | FH-3358 | 44.3 | 56.3 | 46.0 | 42.0 | 0.4 |
| | VIVEK HYBRID-21 | 42.0 | 52.3 | 44.0 | 41.0 | 0.0 |
| | VIVEK HYBRID-17 | 43.7 | 51.0 | 43.7 | 40.3 | 0.0 |
| | VIVEK QPM- 9 | 43.0 | 53.3 | 44.7 | 40.7 | 1.1 |
| | VIVEK HYBRID -9 | 44.0 | 53.7 | 44.7 | 41.3 | 0.0 |

| | | | | | |
|--------------------|------|------|------|------|------|
| Location mean | 45.1 | 54.0 | 44.2 | 40.7 | 0.8 |
| C.D.(5%) AiBj-AiBk | 0.5 | 2.1 | 1.6 | 1.2 | 2.5 |
| C.D.(5%) AiBk-AjBk | 0.7 | 2.4 | 1.8 | 1.1 | 2.7 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------|------|------|------|------|-----|
| 100:50:50 | 47.5 | 54.4 | 44.0 | 40.5 | 1.3 |
| 150:65:65 | 44.4 | 54.3 | 44.1 | 40.5 | 0.7 |
| 200:80:80 | 43.4 | 53.3 | 44.6 | 41.1 | 0.3 |

| | | | | | |
|-----------------|-----|------|------|-----|-------|
| C.D.(5%) Ai-Aj | 0.5 | 1.5 | 1.1 | 0.3 | 1.7 |
| C.V.(%) Error A | 1.0 | 2.8 | 2.4 | 0.7 | 213.1 |
| F(5%) | s | n.s. | n.s. | s | n.s. |

| | | | | | |
|-----------------|------|------|------|------|-----|
| FH-3358 | 46.1 | 56.8 | 46.1 | 41.8 | 0.5 |
| VIVEK HYBRID-21 | 43.3 | 52.8 | 44.0 | 40.7 | 0.2 |
| VIVEK HYBRID-17 | 45.9 | 52.4 | 43.4 | 40.1 | 1.0 |
| VIVEK QPM- 9 | 44.4 | 54.0 | 44.1 | 40.2 | 1.7 |
| VIVEK HYBRID -9 | 45.8 | 54.1 | 43.4 | 40.8 | 0.4 |

| | | | | | |
|---------------|-----|-----|-----|-----|-------|
| C.D.(5%)Bi-Bj | 0.3 | 1.2 | 0.9 | 0.7 | 1.4 |
| C.V.(%)ErrorB | 0.7 | 2.3 | 2.1 | 1.8 | 190.8 |
| F(5%) | s | s | s | s | n.s. |

Cont.....

A - 50

| Main Plot | Sub Plot | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/ Cob | No. of Kernels/ Row | Test Weight (g) 100 Grain | Shelling (%) |
|-----------|-----------------|----------------|-----------------|------------------|---------------------|---------------------------|--------------|
| N Levels | Genotype | Ambikapur | Ambikapur | Ambikapur | Ambikapur | Ambikapur | Ambikapur |
| 100:50:50 | FH-3358 | 11.2 | 12.2 | 12.4 | 31.9 | 25.3 | 83.4 |
| | VIVEK HYBRID-21 | 11.8 | 13.4 | 12.9 | 33.1 | 27.5 | 73.8 |
| | VIVEK HYBRID-17 | 10.9 | 11.8 | 11.9 | 33.3 | 25.9 | 83.6 |
| | VIVEK QPM- 9 | 11.2 | 12.1 | 12.5 | 31.6 | 26.5 | 81.9 |
| | VIVEK HYBRID -9 | 11.5 | 12.7 | 12.3 | 31.5 | 26.2 | 83.8 |
| 150:65:65 | FH-3358 | 11.8 | 13.2 | 12.7 | 34.5 | 27.3 | 82.3 |
| | VIVEK HYBRID-21 | 12.2 | 14.1 | 13.3 | 34.9 | 27.1 | 86.1 |
| | VIVEK HYBRID-17 | 11.7 | 12.9 | 12.7 | 35.6 | 27.2 | 84.1 |
| | VIVEK QPM- 9 | 12.0 | 13.1 | 12.9 | 34.3 | 27.2 | 83.5 |
| | VIVEK HYBRID -9 | 12.4 | 13.8 | 13.4 | 33.8 | 27.4 | 84.5 |
| 200:80:80 | FH-3358 | 12.2 | 13.6 | 13.5 | 34.7 | 27.1 | 84.6 |
| | VIVEK HYBRID-21 | 12.4 | 14.1 | 13.3 | 36.0 | 27.8 | 95.1 |
| | VIVEK HYBRID-17 | 12.1 | 13.2 | 13.0 | 34.5 | 27.1 | 85.8 |
| | VIVEK QPM- 9 | 12.1 | 13.4 | 13.2 | 36.3 | 27.6 | 86.9 |
| | VIVEK HYBRID -9 | 12.2 | 13.5 | 13.2 | 35.2 | 27.8 | 83.8 |

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Location mean | 11.8 | 13.1 | 12.9 | 34.1 | 27.0 | 84.2 |
| C.D.(5%) AiBj-AiBk | 0.5 | 0.9 | 0.7 | 2.7 | 1.4 | 10.1 |
| C.D.(5%) AiBk-AjBk | 0.5 | 0.9 | 0.8 | 2.9 | 1.7 | 13.7 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 11.3 | 12.4 | 12.4 | 32.3 | 26.3 | 81.3 |
| 150:65:65 | 12.0 | 13.4 | 13.0 | 34.6 | 27.2 | 84.1 |
| 200:80:80 | 12.2 | 13.6 | 13.2 | 35.4 | 27.5 | 87.2 |

| | | | | | | |
|-----------------|-----|-----|-----|-----|------|------|
| C.D.(5%) Ai-Aj | 0.3 | 0.5 | 0.5 | 1.6 | 1.1 | 10.5 |
| C.V.(%) Error A | 2.4 | 3.9 | 3.6 | 4.5 | 4.2 | 12.3 |
| F(5%) | s | s | s | s | n.s. | n.s. |

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| FH-3358 | 11.7 | 13.0 | 12.9 | 33.7 | 26.5 | 83.4 |
| VIVEK HYBRID-21 | 12.1 | 13.9 | 13.1 | 34.7 | 27.5 | 85.0 |
| VIVEK HYBRID-17 | 11.6 | 12.6 | 12.5 | 34.5 | 26.7 | 84.5 |
| VIVEK QPM- 9 | 11.7 | 12.9 | 12.8 | 34.1 | 27.1 | 84.1 |
| VIVEK HYBRID -9 | 12.0 | 13.4 | 13.0 | 33.5 | 27.1 | 84.0 |

| | | | | | | |
|---------------|-----|-----|------|------|------|------|
| C.D.(5%)Bi-Bj | 0.3 | 0.5 | 0.4 | 1.6 | 0.8 | 5.8 |
| C.V.(%)ErrorB | 2.4 | 3.8 | 3.3 | 4.8 | 3.1 | 7.1 |
| F(5%) | s | s | n.s. | n.s. | n.s. | n.s. |

Cont.....

A - 51

| Main Plot | Sub Plot | Fodder Yield (Kg/ha) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels /Row | Test Weight (g) 100 Grain | Shelling (%) |
|-----------|-----------------|----------------------|----------------|-----------------|-----------------|---------------------|---------------------------|--------------|
| N Levels | Genotype | Ranchi | Ranchi | Ranchi | Ranchi | Ranchi | Ranchi | Ranchi |
| 100:50:50 | FH-3358 | 6133 | 13.4 | 13.7 | 13.1 | 28.5 | 33.0 | 82.4 |
| | VIVEK HYBRID-21 | 5156 | 13.7 | 15.1 | 14.5 | 33.1 | 27.1 | 80.9 |
| | VIVEK HYBRID-17 | 7400 | 14.0 | 15.2 | 14.1 | 30.7 | 24.6 | 82.3 |
| | VIVEK QPM- 9 | 5733 | 13.7 | 14.3 | 14.4 | 32.1 | 26.0 | 80.3 |
| | VIVEK HYBRID -9 | 6178 | 13.7 | 13.9 | 14.3 | 28.7 | 28.8 | 80.2 |
| 150:65:65 | FH-3358 | 6867 | 14.6 | 14.9 | 13.9 | 32.1 | 33.8 | 83.2 |
| | VIVEK HYBRID-21 | 8044 | 14.7 | 16.3 | 14.7 | 36.0 | 31.5 | 82.7 |
| | VIVEK HYBRID-17 | 7800 | 15.0 | 16.2 | 15.3 | 35.3 | 29.8 | 83.4 |
| | VIVEK QPM- 9 | 6578 | 14.9 | 15.4 | 15.5 | 32.6 | 28.6 | 82.6 |
| | VIVEK HYBRID -9 | 5467 | 15.0 | 14.4 | 15.1 | 30.9 | 28.9 | 81.6 |
| 200:80:80 | FH-3358 | 7756 | 15.1 | 16.2 | 14.2 | 34.3 | 37.0 | 82.9 |
| | VIVEK HYBRID-21 | 7933 | 15.4 | 15.5 | 15.3 | 35.8 | 30.0 | 83.8 |
| | VIVEK HYBRID-17 | 5356 | 14.9 | 15.5 | 15.4 | 33.8 | 28.6 | 81.7 |
| | VIVEK QPM- 9 | 7467 | 15.4 | 16.6 | 16.3 | 34.1 | 28.6 | 84.6 |
| | VIVEK HYBRID -9 | 7467 | 15.4 | 15.5 | 15.7 | 34.0 | 33.8 | 80.9 |

| | | | | | | | |
|--------------------|--------|------|------|------|------|------|------|
| Location mean | 6755.6 | 14.6 | 15.2 | 14.8 | 32.8 | 30.0 | 82.3 |
| C.D.(5%) AiBj-AiBk | 1071.3 | 1.2 | 1.3 | 1.1 | 4.6 | 3.2 | 2.8 |
| C.D.(5%) AiBk-AjBk | 1152.3 | 1.5 | 2.1 | 1.1 | 4.6 | 3.3 | 2.8 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 6120 | 13.7 | 14.4 | 14.1 | 30.6 | 27.9 | 81.2 |
| 150:65:65 | 6951 | 14.8 | 15.4 | 14.9 | 33.4 | 30.5 | 82.7 |
| 200:80:80 | 7196 | 15.2 | 15.9 | 15.4 | 34.4 | 31.6 | 82.8 |

| | | | | | | | |
|-----------------|-------|-----|------|-----|-----|-----|-----|
| C.D.(5%) Ai-Aj | 657.5 | 1.2 | 1.8 | 0.5 | 2.2 | 1.6 | 1.3 |
| C.V.(%) Error A | 9.6 | 7.8 | 11.9 | 3.1 | 6.6 | 5.3 | 1.6 |
| F(5%) | s | s | n.s. | s | s | s | s |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| FH-3358 | 6919 | 14.4 | 14.9 | 13.7 | 31.6 | 34.6 | 82.8 |
| VIVEK HYBRID-21 | 7044 | 14.6 | 15.7 | 14.8 | 35.0 | 29.5 | 82.5 |
| VIVEK HYBRID-17 | 6852 | 14.6 | 15.6 | 14.9 | 33.3 | 27.7 | 82.5 |
| VIVEK QPM- 9 | 6593 | 14.7 | 15.4 | 15.4 | 33.0 | 27.7 | 82.5 |
| VIVEK HYBRID -9 | 6370 | 14.7 | 14.6 | 15.0 | 31.2 | 30.5 | 80.9 |

| | | | | | | | |
|---------------|-------|------|-----|-----|------|-----|------|
| C.D.(5%)Bi-Bj | 618.5 | 0.7 | 0.7 | 0.6 | 2.6 | 1.8 | 1.6 |
| C.V.(%)ErrorB | 9.4 | 4.7 | 5.0 | 4.5 | 8.3 | 6.3 | 2.0 |
| F(5%) | n.s. | n.s. | s | s | n.s. | s | n.s. |

A - 52

Table 12: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone IV

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | Cob Yield (Kg/ha) | | | |
|-----------|-----------------|---------------------|------------|----------|-------------------|-----------|------------|----------|
| | | Hyderabad | Karimnagar | Kolhapur | Arbhavi | Hyderabad | karimnagar | Kolhapur |
| N Levels | Genotype | | | | | | | |
| 100:50:50 | FQH-38 | 4426 | 6217 | 7594 | 6167 | 6296 | 6127 | 9261 |
| | VIVEK HYBRID-21 | 4657 | 5517 | 5408 | 5278 | 5463 | 5828 | 6561 |
| | VIVEK HYBRID-17 | 5722 | 5911 | 6172 | 5500 | 7315 | 6131 | 7472 |
| | VIVEK QPM- 9 | 4907 | 7608 | 6069 | 5000 | 5648 | 8226 | 7364 |
| | VIVEK HYBRID -9 | 5093 | 6131 | 5978 | 6167 | 6667 | 6508 | 7258 |
| 150:65:65 | FQH-38 | 5157 | 6324 | 8556 | 7083 | 6519 | 6441 | 10308 |
| | VIVEK HYBRID-21 | 5306 | 5829 | 8014 | 7639 | 6296 | 6200 | 9697 |
| | VIVEK HYBRID-17 | 6778 | 7053 | 8153 | 6722 | 8796 | 6744 | 9894 |
| | VIVEK QPM- 9 | 6167 | 7969 | 7514 | 6722 | 6574 | 9174 | 9158 |
| | VIVEK HYBRID -9 | 8370 | 6329 | 7439 | 8194 | 7778 | 7949 | 9075 |
| 200:80:80 | FQH-38 | 5130 | 7390 | 9450 | 5500 | 6111 | 7048 | 11436 |
| | VIVEK HYBRID-21 | 5861 | 8372 | 9333 | 7111 | 7093 | 8729 | 11289 |
| | VIVEK HYBRID-17 | 6593 | 8932 | 8894 | 6528 | 8463 | 8597 | 10844 |
| | VIVEK QPM- 9 | 5463 | 9756 | 9053 | 6111 | 5833 | 8717 | 11014 |
| | VIVEK HYBRID -9 | 7778 | 8289 | 8364 | 7167 | 6426 | 9085 | 10139 |

| | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Location mean | 5827.2 | 7175.1 | 7732.8 | 6459.3 | 6751.9 | 7433.6 | 9384.8 |
| C.D.(5%) AiBj-AiBk | 1387.2 | 669.6 | 640.0 | 567.8 | 1615.2 | 611.8 | 793.9 |
| C.D.(5%) AiBk-AjBk | 1309.0 | 765.4 | 824.8 | 734.5 | 1585.4 | 643.8 | 1008.1 |
| F(5%) | n.s. | s | s | s | n.s. | s | s |

| | | | | | | | |
|-----------|------|------|------|------|------|------|-------|
| 100:50:50 | 4961 | 6277 | 6244 | 5622 | 6278 | 6564 | 7583 |
| 150:65:65 | 6356 | 6701 | 7935 | 7272 | 7193 | 7302 | 9627 |
| 200:80:80 | 6165 | 8548 | 9019 | 6483 | 6785 | 8435 | 10944 |

| | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|
| C.D.(5%) Ai-Aj | 430.5 | 481.5 | 606.2 | 541.7 | 673.0 | 343.0 | 731.0 |
| C.V.(%) Error A | 7.3 | 8.7 | 7.7 | 8.3 | 9.8 | 6.0 | 7.7 |
| F(5%) | s | s | s | s | s | s | s |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|-------|
| FQH-38 | 4904 | 6644 | 8533 | 6250 | 6309 | 6539 | 10335 |
| VIVEK HYBRID-21 | 5275 | 6573 | 7585 | 6676 | 6284 | 6919 | 9182 |
| VIVEK HYBRID-17 | 6364 | 7299 | 7740 | 6250 | 8191 | 7157 | 9404 |
| VIVEK QPM- 9 | 5512 | 8444 | 7545 | 5944 | 6019 | 8706 | 9179 |
| VIVEK HYBRID -9 | 7080 | 6916 | 7260 | 7176 | 6957 | 7847 | 8824 |

| | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 800.9 | 386.6 | 369.5 | 327.8 | 932.5 | 353.2 | 458.3 |
| C.V.(%)ErrorB | 14.1 | 6.5 | 4.9 | 5.2 | 14.2 | 5.7 | 5.0 |
| F(5%) | s | s | s | s | s | s | s |

Cont....

A - 53

| Main Plot | Sub Plot | No. of Plant (000/ha) | | | | No. of Cobs (000/ha) | | |
|-----------|-----------------|-----------------------|-----------|------------|----------|----------------------|-----------|------------|
| | | Arbhavi | Hyderabad | Karimnagar | Kolhapur | Arbhavi | Hyderabad | Karimnagar |
| N Levels | Genotype | | | | | | | |
| 100:50:50 | FQH-38 | 65.0 | 66.1 | 83.1 | 82.8 | 64.4 | 43.9 | 83.1 |
| | VIVEK HYBRID-21 | 60.8 | 63.5 | 84.2 | 82.8 | 60.6 | 45.2 | 84.2 |
| | VIVEK HYBRID-17 | 60.8 | 66.1 | 84.0 | 82.2 | 60.6 | 49.3 | 84.0 |
| | VIVEK QPM- 9 | 60.0 | 60.9 | 83.2 | 83.3 | 60.0 | 41.9 | 83.2 |
| | VIVEK HYBRID -9 | 64.2 | 65.7 | 83.6 | 83.3 | 63.6 | 51.3 | 83.6 |
| 150:65:65 | FQH-38 | 66.1 | 65.0 | 84.6 | 83.3 | 63.9 | 47.6 | 84.6 |
| | VIVEK HYBRID-21 | 65.3 | 62.6 | 83.1 | 83.1 | 62.8 | 47.2 | 83.1 |
| | VIVEK HYBRID-17 | 62.8 | 64.8 | 82.9 | 83.3 | 62.8 | 59.8 | 82.9 |
| | VIVEK QPM- 9 | 61.4 | 62.6 | 81.4 | 83.1 | 61.4 | 50.4 | 81.4 |
| | VIVEK HYBRID -9 | 66.9 | 66.5 | 83.3 | 83.3 | 65.6 | 55.7 | 83.3 |
| 200:80:80 | FQH-38 | 59.4 | 64.4 | 82.1 | 83.3 | 61.7 | 49.8 | 82.1 |
| | VIVEK HYBRID-21 | 62.5 | 62.0 | 83.3 | 81.7 | 61.9 | 49.3 | 83.3 |
| | VIVEK HYBRID-17 | 59.4 | 65.6 | 85.0 | 82.2 | 59.4 | 60.7 | 85.0 |
| | VIVEK QPM- 9 | 59.4 | 63.1 | 82.2 | 83.1 | 59.4 | 53.1 | 82.2 |
| | VIVEK HYBRID -9 | 60.3 | 65.9 | 83.1 | 83.3 | 58.9 | 56.7 | 83.1 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Location mean | 62.3 | 64.3 | 83.3 | 82.9 | 61.8 | 50.8 | 83.3 |
| C.D.(5%) AiBj-AiBk | 5.1 | 2.7 | 2.6 | 1.7 | 4.8 | 3.6 | 2.6 |
| C.D.(5%) AiBk-AjBk | 4.9 | 2.7 | 2.9 | 1.7 | 4.9 | 3.7 | 2.9 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 62.2 | 64.5 | 83.6 | 82.9 | 61.8 | 46.3 | 83.6 |
| 150:65:65 | 64.5 | 64.3 | 83.1 | 83.2 | 63.3 | 52.1 | 83.1 |
| 200:80:80 | 60.2 | 64.2 | 83.1 | 82.7 | 60.3 | 53.9 | 83.1 |

| | | | | | | | |
|-----------------|-----|------|------|------|------|-----|------|
| C.D.(5%) Ai-Aj | 2.0 | 1.2 | 1.9 | 0.8 | 2.5 | 1.9 | 1.9 |
| C.V.(%) Error A | 3.1 | 1.8 | 2.9 | 1.0 | 4.0 | 3.7 | 2.9 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| FQH-38 | 63.5 | 65.2 | 83.2 | 83.1 | 63.3 | 47.1 | 83.2 |
| VIVEK HYBRID-21 | 62.9 | 62.7 | 83.5 | 82.5 | 61.8 | 47.2 | 83.5 |
| VIVEK HYBRID-17 | 61.0 | 65.5 | 84.0 | 82.6 | 60.9 | 56.6 | 84.0 |
| VIVEK QPM- 9 | 60.3 | 62.2 | 82.3 | 83.1 | 60.3 | 48.5 | 82.3 |
| VIVEK HYBRID -9 | 63.8 | 66.0 | 83.3 | 83.3 | 62.7 | 54.6 | 83.3 |

| | | | | | | | |
|---------------|------|-----|------|------|------|-----|------|
| C.D.(5%)Bi-Bj | 2.9 | 1.6 | 1.5 | 1.0 | 2.8 | 2.1 | 1.5 |
| C.V.(%)ErrorB | 4.8 | 2.5 | 2.1 | 1.2 | 4.6 | 4.2 | 2.1 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | s | n.s. |

Cont....

A - 54

| Main Plot | Sub Plot | Plant Height (cm) | | | | Days to 50% Silking | |
|-----------|-----------------|-------------------|-----------|------------|----------|---------------------|----------|
| | | Arbhavi | Hyderabad | Karimnagar | Kolhapur | Hyderabad | Kolhapur |
| N Levels | Genotype | | | | | | |
| 100:50:50 | FQH-38 | 156.3 | 228.0 | 178.5 | 162.3 | 50.7 | 54.7 |
| | VIVEK HYBRID-21 | 156.0 | 230.3 | 169.8 | 154.7 | 50.0 | 55.7 |
| | VIVEK HYBRID-17 | 165.7 | 224.3 | 177.3 | 154.7 | 51.7 | 54.3 |
| | VIVEK QPM- 9 | 163.3 | 240.0 | 183.0 | 165.0 | 51.7 | 54.3 |
| | VIVEK HYBRID -9 | 171.7 | 235.0 | 183.0 | 162.0 | 50.3 | 53.7 |
| 150:65:65 | FQH-38 | 170.0 | 246.7 | 177.5 | 168.3 | 50.3 | 53.0 |
| | VIVEK HYBRID-21 | 170.0 | 234.0 | 177.0 | 166.0 | 51.3 | 52.7 |
| | VIVEK HYBRID-17 | 177.3 | 233.3 | 173.3 | 163.0 | 49.7 | 51.0 |
| | VIVEK QPM- 9 | 166.7 | 244.7 | 192.5 | 180.0 | 52.7 | 51.0 |
| | VIVEK HYBRID -9 | 171.0 | 241.0 | 187.8 | 168.3 | 49.3 | 52.7 |
| 200:80:80 | FQH-38 | 175.3 | 247.3 | 178.0 | 171.7 | 49.0 | 51.0 |
| | VIVEK HYBRID-21 | 160.3 | 234.3 | 174.8 | 170.3 | 50.0 | 52.0 |
| | VIVEK HYBRID-17 | 163.0 | 227.0 | 170.8 | 157.0 | 51.0 | 50.0 |
| | VIVEK QPM- 9 | 162.3 | 247.3 | 184.5 | 178.7 | 52.3 | 50.3 |
| | VIVEK HYBRID -9 | 158.0 | 241.7 | 174.5 | 181.0 | 50.0 | 49.3 |

| | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|
| Location mean | 165.8 | 237.0 | 178.8 | 166.9 | 50.7 | 52.4 |
| C.D.(5%) AiBj-AiBk | 9.3 | 10.4 | 6.5 | 8.5 | 1.9 | 1.3 |
| C.D.(5%) AiBk-AjBk | 9.2 | 13.1 | 10.4 | 9.7 | 1.8 | 1.3 |
| F(5%) | s | n.s. | s | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|-------|-------|-------|-------|------|------|
| 100:50:50 | 162.6 | 231.5 | 178.3 | 159.7 | 50.9 | 54.5 |
| 150:65:65 | 171.0 | 239.9 | 181.6 | 169.1 | 50.7 | 52.1 |
| 200:80:80 | 163.8 | 239.5 | 176.5 | 171.7 | 50.5 | 50.5 |

| | | | | | | |
|-----------------|-----|------|------|-----|------|-----|
| C.D.(5%) Ai-Aj | 4.0 | 9.4 | 8.7 | 6.1 | 0.7 | 0.5 |
| C.V.(%) Error A | 2.4 | 3.9 | 6.3 | 3.6 | 1.3 | 1.0 |
| F(5%) | s | n.s. | n.s. | s | n.s. | s |

| | | | | | | |
|-----------------|-------|-------|-------|-------|------|------|
| FQH-38 | 167.2 | 240.7 | 178.0 | 167.4 | 50.0 | 52.9 |
| VIVEK HYBRID-21 | 162.1 | 232.9 | 173.8 | 163.7 | 50.4 | 53.4 |
| VIVEK HYBRID-17 | 168.7 | 228.2 | 173.8 | 158.2 | 50.8 | 51.8 |
| VIVEK QPM- 9 | 164.1 | 244.0 | 186.7 | 174.6 | 52.2 | 51.9 |
| VIVEK HYBRID -9 | 166.9 | 239.2 | 181.8 | 170.4 | 49.9 | 51.9 |

| | | | | | | |
|---------------|------|-----|-----|-----|-----|-----|
| C.D.(5%)Bi-Bj | 5.4 | 6.0 | 3.7 | 4.9 | 1.1 | 0.8 |
| C.V.(%)ErrorB | 3.3 | 2.6 | 2.5 | 3.0 | 2.2 | 1.5 |
| F(5%) | n.s. | s | s | s | s | s |

Cont....

A - 55

| Main Plot | Sub Plot | Fodder Yield (Kg/ha) | Ear Height (cm) | Moisture (%) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob |
|-----------|-----------------|----------------------|-----------------|--------------|----------------|-----------------|-----------------|
| N Levels | Genotype | Arbhavi | | | | | |
| 100:50:50 | FQH-38 | 1944.4 | 73.0 | 19.1 | 13.5 | 12.5 | 15.5 |
| | VIVEK HYBRID-21 | 1944.4 | 70.7 | 20.7 | 13.1 | 12.2 | 14.0 |
| | VIVEK HYBRID-17 | 2000.0 | 72.7 | 20.5 | 13.0 | 12.2 | 15.1 |
| | VIVEK QPM- 9 | 2027.8 | 63.3 | 19.2 | 13.2 | 12.4 | 15.1 |
| | VIVEK HYBRID -9 | 1833.3 | 74.7 | 23.2 | 14.2 | 12.6 | 15.7 |
| 150:65:65 | FQH-38 | 2194.4 | 79.7 | 19.4 | 14.0 | 13.2 | 15.9 |
| | VIVEK HYBRID-21 | 2166.7 | 76.3 | 19.6 | 13.8 | 13.5 | 15.5 |
| | VIVEK HYBRID-17 | 2138.9 | 73.7 | 20.8 | 13.8 | 13.9 | 14.6 |
| | VIVEK QPM- 9 | 2138.9 | 75.7 | 19.2 | 14.0 | 13.5 | 16.5 |
| | VIVEK HYBRID -9 | 2111.1 | 78.0 | 21.8 | 14.1 | 13.4 | 15.5 |
| 200:80:80 | FQH-38 | 2277.8 | 75.7 | 19.7 | 13.6 | 12.8 | 15.5 |
| | VIVEK HYBRID-21 | 2194.4 | 72.7 | 19.4 | 13.8 | 14.4 | 14.6 |
| | VIVEK HYBRID-17 | 2222.2 | 71.3 | 20.0 | 12.9 | 12.6 | 14.7 |
| | VIVEK QPM- 9 | 2277.8 | 76.0 | 20.3 | 14.6 | 13.1 | 16.1 |
| | VIVEK HYBRID -9 | 2444.4 | 67.3 | 22.0 | 14.2 | 14.2 | 15.9 |

| | | | | | | |
|--------------------|--------|------|------|------|------|------|
| Location mean | 2127.8 | 73.4 | 20.3 | 13.7 | 13.1 | 15.4 |
| C.D.(5%) AiBj-AiBk | 273.2 | 5.9 | 2.7 | 0.7 | 0.9 | 0.7 |
| C.D.(5%) AiBk-AjBk | 314.8 | 6.0 | 2.4 | 0.7 | 0.8 | 1.0 |
| F(5%) | n.s. | s | n.s. | n.s. | s | s |

| | | | | | | |
|-----------|--------|------|------|------|------|------|
| 100:50:50 | 1950.0 | 70.9 | 20.6 | 13.4 | 12.4 | 15.1 |
| 150:65:65 | 2150.0 | 76.7 | 20.2 | 14.0 | 13.5 | 15.6 |
| 200:80:80 | 2283.3 | 72.6 | 20.3 | 13.8 | 13.4 | 15.4 |

| | | | | | | |
|-----------------|-------|-----|-----|-----|-----|------|
| C.D.(5%) Ai-Aj | 203.4 | 2.9 | 0.2 | 0.2 | 0.3 | 0.8 |
| C.V.(%) Error A | 9.4 | 3.9 | 1.1 | 1.2 | 2.4 | 5.1 |
| F(5%) | s | s | s | s | s | n.s. |

| | | | | | | |
|-----------------|--------|------|------|------|------|------|
| FQH-38 | 2138.9 | 76.1 | 19.4 | 13.7 | 12.8 | 15.6 |
| VIVEK HYBRID-21 | 2101.9 | 73.2 | 19.9 | 13.6 | 13.3 | 14.7 |
| VIVEK HYBRID-17 | 2120.4 | 72.6 | 20.4 | 13.3 | 12.9 | 14.8 |
| VIVEK QPM- 9 | 2148.1 | 71.7 | 19.6 | 13.9 | 13.0 | 15.9 |
| VIVEK HYBRID -9 | 2129.6 | 73.3 | 22.4 | 14.2 | 13.4 | 15.7 |

| | | | | | | |
|---------------|-------|------|-----|-----|------|-----|
| C.D.(5%)Bi-Bj | 157.7 | 3.4 | 1.6 | 0.4 | 0.5 | 0.4 |
| C.V.(%)ErrorB | 7.6 | 4.8 | 7.9 | 3.2 | 3.9 | 2.8 |
| F(5%) | n.s. | n.s. | s | s | n.s. | s |

Cont....

A - 56

| Main Plot | Sub Plot | No. of Kernels/ Row | Test Weight (g) 100 Grain | Shelling (%) | Moisture (%) |
|-----------|-----------------|---------------------|---------------------------|--------------|--------------|
| N Levels | Genotype | Arbhavi | Arbhavi | Arbhavi | Karimnagar |
| 100:50:50 | FQH-38 | 32.9 | 26.3 | 83.2 | 12.1 |
| | VIVEK HYBRID-21 | 30.8 | 26.3 | 82.6 | 12.0 |
| | VIVEK HYBRID-17 | 29.1 | 32.3 | 82.2 | 12.2 |
| | VIVEK QPM- 9 | 26.4 | 29.3 | 83.3 | 11.9 |
| | VIVEK HYBRID -9 | 30.3 | 27.7 | 83.2 | 11.9 |
| 150:65:65 | FQH-38 | 35.1 | 25.7 | 82.0 | 12.3 |
| | VIVEK HYBRID-21 | 34.2 | 30.3 | 81.5 | 12.2 |
| | VIVEK HYBRID-17 | 31.1 | 29.3 | 81.3 | 11.5 |
| | VIVEK QPM- 9 | 32.9 | 22.7 | 81.3 | 11.8 |
| | VIVEK HYBRID -9 | 30.8 | 29.3 | 82.2 | 12.4 |
| 200:80:80 | FQH-38 | 34.5 | 28.3 | 81.5 | 11.5 |
| | VIVEK HYBRID-21 | 34.0 | 28.3 | 81.8 | 12.7 |
| | VIVEK HYBRID-17 | 32.5 | 29.0 | 80.8 | 12.0 |
| | VIVEK QPM- 9 | 33.1 | 28.3 | 81.1 | 10.7 |
| | VIVEK HYBRID -9 | 30.5 | 32.0 | 81.0 | 11.6 |

| | | | | |
|--------------------|------|------|------|------|
| Location mean | 31.9 | 28.4 | 81.9 | 11.9 |
| C.D.(5%) AiBj-AiBk | 2.5 | 3.5 | 1.4 | 1.0 |
| C.D.(5%) AiBk-AjBk | 3.5 | 3.3 | 2.4 | 1.1 |
| F(5%) | s | s | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|------|
| 100:50:50 | 29.9 | 28.4 | 82.9 | 12.0 |
| 150:65:65 | 32.8 | 27.5 | 81.6 | 12.0 |
| 200:80:80 | 32.9 | 29.2 | 81.2 | 11.7 |

| | | | | |
|-----------------|------|-----|------|------|
| C.D.(5%) Ai-Aj | 2.8 | 1.1 | 2.1 | 0.5 |
| C.V.(%) Error A | 8.5 | 3.7 | 2.5 | 5.6 |
| F(5%) | n.s. | s | n.s. | n.s. |

| | | | | |
|-----------------|------|------|------|------|
| FQH-38 | 34.2 | 26.8 | 82.2 | 12.0 |
| VIVEK HYBRID-21 | 33.0 | 28.3 | 82.0 | 12.3 |
| VIVEK HYBRID-17 | 30.9 | 30.2 | 81.4 | 11.9 |
| VIVEK QPM- 9 | 30.8 | 26.8 | 81.9 | 11.4 |
| VIVEK HYBRID -9 | 30.5 | 29.7 | 82.1 | 12.0 |

| | | | | |
|---------------|-----|-----|------|------|
| C.D.(5%)Bi-Bj | 1.4 | 2.0 | 0.8 | 0.6 |
| C.V.(%)ErrorB | 4.7 | 7.4 | 1.0 | 6.1 |
| F(5%) | s | s | n.s. | n.s. |

A - 57

Table 13: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone V

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | | | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) |
|-----------|-----------------|---------------------|------------|--------|---------|-------------------|----------------------|
| | | Banswara | Chhindwara | Godhra | Udaipur | | |
| N Levels | Genotype | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Godhra |
| 100:50:50 | FH-3358 | 2828 | 3904 | 4460 | 3925 | 3761 | 6682 |
| | VIVEK HYBRID-21 | 2911 | 2904 | 4382 | 3920 | 3833 | 6538 |
| | VIVEK HYBRID-17 | 2922 | 3630 | 4269 | 2230 | 3639 | 6389 |
| | VIVEK QPM- 9 | 2917 | 3344 | 4964 | 2813 | 3750 | 7464 |
| | VIVEK HYBRID -9 | 3344 | 4798 | 4098 | 3625 | 4306 | 6133 |
| 150:65:65 | FH-3358 | 3139 | 4433 | 5076 | 4050 | 3972 | 7598 |
| | VIVEK HYBRID-21 | 3333 | 3694 | 4918 | 4003 | 4194 | 7376 |
| | VIVEK HYBRID-17 | 3217 | 3802 | 4976 | 2213 | 4000 | 7493 |
| | VIVEK QPM- 9 | 3756 | 4348 | 5687 | 2803 | 4806 | 8520 |
| | VIVEK HYBRID -9 | 3878 | 5237 | 4918 | 3510 | 5111 | 7360 |
| 200:80:80 | FH-3358 | 3389 | 4448 | 5122 | 4058 | 4528 | 7687 |
| | VIVEK HYBRID-21 | 4050 | 4163 | 5464 | 4113 | 5506 | 8151 |
| | VIVEK HYBRID-17 | 2922 | 4552 | 5064 | 2310 | 3861 | 7827 |
| | VIVEK QPM- 9 | 4222 | 5472 | 5871 | 2903 | 5569 | 8816 |
| | VIVEK HYBRID -9 | 3728 | 5374 | 4956 | 3508 | 4833 | 7438 |

| | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|
| Location mean | 3370.4 | 4273.6 | 4948.3 | 3332.0 | 4378.0 | 7431.4 |
| C.D.(5%) AiBj-AiBk | 543.9 | 1618.4 | 578.6 | 378.6 | 627.2 | 853.4 |
| C.D.(5%) AiBk-AjBk | 608.8 | 1640.4 | 772.1 | 411.6 | 744.5 | 1112.7 |
| F(5%) | s | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 2984 | 3716 | 4435 | 3303 | 3858 | 6641 |
| 150:65:65 | 3464 | 4303 | 5115 | 3316 | 4417 | 7669 |
| 200:80:80 | 3662 | 4802 | 5296 | 3378 | 4859 | 7984 |

| | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|
| C.D.(5%) Ai-Aj | 375.4 | 794.4 | 584.4 | 236.5 | 501.0 | 826.4 |
| C.V.(%) Error A | 11.0 | 18.3 | 11.7 | 9.2 | 11.3 | 11.0 |
| F(5%) | s | s | s | n.s. | s | s |

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| FH-3358 | 3119 | 4262 | 4886 | 4011 | 4087 | 7322 |
| VIVEK HYBRID-21 | 3431 | 3587 | 4921 | 4012 | 4511 | 7355 |
| VIVEK HYBRID-17 | 3020 | 3994 | 4770 | 2251 | 3833 | 7236 |
| VIVEK QPM- 9 | 3631 | 4388 | 5507 | 2839 | 4708 | 8267 |
| VIVEK HYBRID -9 | 3650 | 5136 | 4657 | 3548 | 4750 | 6977 |

| | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 314.0 | 934.4 | 334.1 | 218.6 | 362.1 | 492.7 |
| C.V.(%)ErrorB | 9.6 | 22.5 | 6.9 | 7.9 | 8.5 | 6.8 |
| F(5%) | s | s | s | s | s | s |

Cont....

A - 58

| Main Plot | Sub Plot | No. of Plant (000/ha) | | | | No. of Cobs (000/ha) | | | |
|-----------|-----------------|-----------------------|----------|----------|------------|----------------------|---------|----------|------------|
| | | N Levels | Genotype | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Chhindwara |
| 100:50:50 | FH-3358 | | 57.8 | 61.5 | 60.2 | 54.0 | 58.1 | 58.1 | 52.7 |
| | VIVEK HYBRID-21 | | 60.6 | 61.9 | 58.4 | 57.3 | 59.2 | 58.9 | 64.7 |
| | VIVEK HYBRID-17 | | 61.7 | 61.1 | 60.7 | 61.3 | 59.4 | 60.0 | 57.0 |
| | VIVEK QPM- 9 | | 61.1 | 63.3 | 58.4 | 53.3 | 60.6 | 60.0 | 55.7 |
| | VIVEK HYBRID -9 | | 59.7 | 62.6 | 58.4 | 56.7 | 62.5 | 58.9 | 58.0 |
| 150:65:65 | FH-3358 | | 63.9 | 61.9 | 62.4 | 53.2 | 63.6 | 61.5 | 52.0 |
| | VIVEK HYBRID-21 | | 63.3 | 63.0 | 58.0 | 57.5 | 64.4 | 63.3 | 64.0 |
| | VIVEK HYBRID-17 | | 63.9 | 63.3 | 59.1 | 60.0 | 62.2 | 61.5 | 58.0 |
| | VIVEK QPM- 9 | | 63.3 | 64.1 | 55.8 | 52.7 | 65.0 | 61.5 | 52.8 |
| | VIVEK HYBRID -9 | | 63.3 | 63.0 | 60.2 | 56.0 | 65.3 | 59.6 | 58.5 |
| 200:80:80 | FH-3358 | | 61.9 | 62.6 | 56.9 | 53.3 | 66.7 | 62.2 | 50.7 |
| | VIVEK HYBRID-21 | | 61.9 | 64.1 | 59.6 | 57.3 | 65.0 | 64.4 | 63.3 |
| | VIVEK HYBRID-17 | | 65.3 | 63.7 | 60.4 | 60.7 | 60.3 | 61.5 | 58.0 |
| | VIVEK QPM- 9 | | 65.3 | 64.4 | 57.1 | 53.3 | 66.1 | 61.9 | 53.3 |
| | VIVEK HYBRID -9 | | 63.9 | 65.2 | 58.2 | 44.7 | 65.6 | 63.3 | 55.8 |

| | | | | | | | |
|--------------------|------|------|------|------|------|------|------|
| Location mean | 62.5 | 63.0 | 58.9 | 55.4 | 62.9 | 61.1 | 57.0 |
| C.D.(5%) AiBj-AiBk | 6.5 | 5.5 | 6.7 | 10.2 | 5.3 | 5.6 | 4.0 |
| C.D.(5%) AiBk-AjBk | 6.3 | 5.2 | 7.1 | 10.8 | 5.2 | 5.3 | 4.5 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|------|------|------|------|------|------|------|
| 100:50:50 | 60.2 | 62.1 | 59.2 | 56.5 | 59.9 | 59.2 | 57.6 |
| 150:65:65 | 63.6 | 63.0 | 59.1 | 55.9 | 64.1 | 61.5 | 57.1 |
| 200:80:80 | 63.7 | 64.0 | 58.4 | 53.9 | 64.7 | 62.7 | 56.2 |

| | | | | | | | |
|-----------------|-----|------|------|------|-----|-----|------|
| C.D.(5%) Ai-Aj | 2.5 | 1.7 | 4.0 | 5.9 | 2.2 | 1.7 | 2.8 |
| C.V.(%) Error A | 4.0 | 2.7 | 6.7 | 13.7 | 3.4 | 2.8 | 6.3 |
| F(5%) | s | n.s. | n.s. | n.s. | s | s | n.s. |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| FH-3358 | 61.2 | 62.0 | 59.9 | 53.5 | 62.8 | 60.6 | 51.8 |
| VIVEK HYBRID-21 | 61.9 | 63.0 | 58.7 | 57.4 | 62.9 | 62.2 | 64.0 |
| VIVEK HYBRID-17 | 63.6 | 62.7 | 60.1 | 60.7 | 60.6 | 61.0 | 57.7 |
| VIVEK QPM- 9 | 63.2 | 64.0 | 57.1 | 53.1 | 63.9 | 61.1 | 53.9 |
| VIVEK HYBRID -9 | 62.3 | 63.6 | 59.0 | 52.4 | 64.4 | 60.6 | 57.4 |

| | | | | | | | |
|---------------|------|------|------|------|------|------|-----|
| C.D.(5%)Bi-Bj | 3.7 | 3.2 | 3.9 | 5.9 | 3.0 | 3.2 | 2.3 |
| C.V.(%)ErrorB | 6.2 | 5.2 | 6.7 | 12.8 | 5.0 | 5.5 | 4.9 |
| F(5%) | n.s. | n.s. | n.s. | s | n.s. | n.s. | s |

Cont....

A - 59

| Main Plot | Sub Plot | Plant Height (cm) | | | | Days to 50% Silking | | | |
|-----------|-----------------|-------------------|----------|----------|------------|---------------------|---------|----------|------------|
| | | N Levels | Genotype | Banswara | Chhindwara | Godhra | Udaipur | Banswara | Chhindwara |
| 100:50:50 | FH-3358 | | 133.3 | 144.7 | 156.7 | 152.8 | 44.0 | 50.3 | 48.3 |
| | VIVEK HYBRID-21 | | 156.7 | 173.7 | 170.0 | 178.0 | 48.0 | 49.7 | 46.7 |
| | VIVEK HYBRID-17 | | 153.3 | 154.0 | 197.3 | 162.0 | 47.3 | 48.0 | 47.7 |
| | VIVEK QPM- 9 | | 171.7 | 166.3 | 191.7 | 170.0 | 43.3 | 50.0 | 48.7 |
| | VIVEK HYBRID -9 | | 180.0 | 140.7 | 193.3 | 167.0 | 47.0 | 50.3 | 53.3 |
| 150:65:65 | FH-3358 | | 156.7 | 179.0 | 163.0 | 154.0 | 48.0 | 49.7 | 46.7 |
| | VIVEK HYBRID-21 | | 161.7 | 175.7 | 193.7 | 181.0 | 52.3 | 49.3 | 45.7 |
| | VIVEK HYBRID-17 | | 163.3 | 165.3 | 194.7 | 166.0 | 50.0 | 47.7 | 47.3 |
| | VIVEK QPM- 9 | | 176.7 | 175.3 | 205.0 | 172.5 | 49.7 | 49.3 | 48.3 |
| | VIVEK HYBRID -9 | | 165.3 | 142.0 | 200.7 | 168.8 | 50.0 | 49.7 | 51.7 |
| 200:80:80 | FH-3358 | | 136.0 | 191.0 | 166.7 | 155.0 | 48.0 | 48.0 | 46.7 |
| | VIVEK HYBRID-21 | | 185.0 | 184.7 | 207.3 | 182.0 | 53.0 | 48.0 | 45.3 |
| | VIVEK HYBRID-17 | | 161.0 | 179.3 | 205.0 | 168.8 | 51.0 | 47.7 | 46.3 |
| | VIVEK QPM- 9 | | 180.0 | 176.0 | 210.0 | 174.0 | 50.0 | 48.7 | 46.7 |
| | VIVEK HYBRID -9 | | 174.3 | 177.3 | 206.7 | 176.0 | 52.0 | 48.3 | 50.3 |

| | | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|------|
| Location mean | 163.7 | 168.3 | 190.8 | 168.5 | 48.9 | 49.0 | 48.0 |
| C.D.(5%) AiBj-AiBk | 19.2 | 13.7 | 9.2 | 6.3 | 4.7 | 1.7 | 1.3 |
| C.D.(5%) AiBk-AjBk | 22.4 | 13.4 | 9.3 | 8.7 | 5.4 | 1.8 | 1.7 |
| F(5%) | n.s. | s | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------|-------|-------|-------|-------|------|------|------|
| 100:50:50 | 159.0 | 155.9 | 181.8 | 166.0 | 45.9 | 49.7 | 48.9 |
| 150:65:65 | 164.7 | 167.5 | 191.4 | 168.5 | 50.0 | 49.1 | 47.9 |
| 200:80:80 | 167.3 | 181.7 | 199.1 | 171.2 | 50.8 | 48.1 | 47.1 |

| | | | | | | | |
|-----------------|------|-----|-----|------|-----|-----|-----|
| C.D.(5%) Ai-Aj | 14.9 | 5.6 | 4.5 | 6.7 | 3.4 | 0.9 | 1.3 |
| C.V.(%) Error A | 9.0 | 3.3 | 2.3 | 5.1 | 6.9 | 1.8 | 2.6 |
| F(5%) | n.s. | s | s | n.s. | s | s | s |

| | | | | | | | |
|-----------------|-------|-------|-------|-------|------|------|------|
| FH-3358 | 142.0 | 171.6 | 162.1 | 153.9 | 46.7 | 49.3 | 47.2 |
| VIVEK HYBRID-21 | 167.8 | 178.0 | 190.3 | 180.3 | 51.1 | 49.0 | 45.9 |
| VIVEK HYBRID-17 | 159.2 | 166.2 | 199.0 | 165.6 | 49.4 | 47.8 | 47.1 |
| VIVEK QPM- 9 | 176.1 | 172.6 | 202.2 | 172.2 | 47.7 | 49.3 | 47.9 |
| VIVEK HYBRID -9 | 173.2 | 153.3 | 200.2 | 170.6 | 49.7 | 49.4 | 51.8 |

| | | | | | | | |
|---------------|------|-----|-----|-----|-----|-----|-----|
| C.D.(5%)Bi-Bj | 11.1 | 7.9 | 5.3 | 3.6 | 2.7 | 1.0 | 0.8 |
| C.V.(%)ErrorB | 6.9 | 4.8 | 2.9 | 2.6 | 5.8 | 2.1 | 1.6 |
| F(5%) | s | s | s | s | s | s | s |

Cont....

A - 60

| Main Plot | Sub Plot | Shelling (%) | No. of PFSR affected Plant (000/ha) |
|-----------|-----------------|--------------|-------------------------------------|
| N Levels | Genotype | Udaipur | Udaipur |
| 100:50:50 | FH-3358 | 82.3 | 0.8 |
| | VIVEK HYBRID-21 | 82.3 | 0.5 |
| | VIVEK HYBRID-17 | 71.2 | 1.7 |
| | VIVEK QPM- 9 | 74.2 | 1.7 |
| | VIVEK HYBRID -9 | 76.1 | 1.7 |
| 150:65:65 | FH-3358 | 80.6 | 0.7 |
| | VIVEK HYBRID-21 | 81.1 | 0.3 |
| | VIVEK HYBRID-17 | 69.9 | 3.3 |
| | VIVEK QPM- 9 | 73.1 | 3.0 |
| | VIVEK HYBRID -9 | 75.2 | 3.7 |
| 200:80:80 | FH-3358 | 79.1 | 0.8 |
| | VIVEK HYBRID-21 | 80.0 | 0.5 |
| | VIVEK HYBRID-17 | 68.2 | 4.3 |
| | VIVEK QPM- 9 | 71.3 | 2.5 |
| | VIVEK HYBRID -9 | 73.1 | 3.7 |

| | | |
|--------------------|------|-----|
| Location mean | 75.8 | 1.9 |
| C.D.(5%) AiBj-AiBk | 2.9 | 1.0 |
| C.D.(5%) AiBk-AjBk | 3.8 | 1.1 |
| F(5%) | n.s. | s |

| | | |
|-----------|------|-----|
| 100:50:50 | 77.2 | 1.3 |
| 150:65:65 | 76.0 | 2.2 |
| 200:80:80 | 74.3 | 2.4 |

| | | |
|-----------------|------|------|
| C.D.(5%) Ai-Aj | 2.8 | 0.7 |
| C.V.(%) Error A | 4.8 | 47.9 |
| F(5%) | n.s. | s |

| | | |
|-----------------|------|-----|
| FH-3358 | 80.7 | 0.8 |
| VIVEK HYBRID-21 | 81.1 | 0.4 |
| VIVEK HYBRID-17 | 69.8 | 3.1 |
| VIVEK QPM- 9 | 72.8 | 2.4 |
| VIVEK HYBRID -9 | 74.8 | 3.0 |

| | | |
|---------------|-----|------|
| C.D.(5%)Bi-Bj | 1.7 | 0.6 |
| C.V.(%)ErrorB | 2.7 | 36.1 |
| F(5%) | s | s |

A - 61

**Table 14: Effect of Fertility levels and genotype on Sweet Corn
Yield at different location.**

| Main Plot | Sub Plot | Green Cob Yield (Kg/ha) | | | | |
|-----------|-----------------------|-------------------------|--------|----------|----------|-----------|
| | | Delhi | Karnal | Ludhiana | Varanasi | Hyderabad |
| N Levels | Genotype | | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 6222 | 7466.7 | 6937.5 | 4422 | 4500.0 |
| | MADHURI SWEET CORN | 6944 | 7156.7 | 8604.2 | 4822 | 4444.4 |
| | SWEET CORN HYBRID | 7056 | 6473.3 | 10361.1 | 6467 | 5925.9 |
| 150:65:65 | WIN ORANGE SWEET CORN | 7667 | 7530.0 | 7791.7 | 5511 | 4870.4 |
| | MADHURI SWEET CORN | 8444 | 7103.3 | 9083.3 | 5422 | 5555.6 |
| | SWEET CORN HYBRID | 8500 | 6596.7 | 11191.0 | 7044 | 6018.5 |
| 200:80:80 | WIN ORANGE SWEET CORN | 8556 | 7683.3 | 8027.8 | 5733 | 5555.6 |
| | MADHURI SWEET CORN | 9222 | 7260.0 | 9236.1 | 6378 | 5740.7 |
| | SWEET CORN HYBRID | 9389 | 6780.0 | 11489.6 | 7711 | 6111.1 |

| | | | | | |
|--------------------|--------|--------|--------|--------|--------|
| Location mean | 8000.0 | 7116.7 | 9191.4 | 5945.7 | 5413.6 |
| C.D.(5%) AiBj-AiBk | 519.9 | 504.9 | 898.7 | 1023.8 | 1238.3 |
| C.D.(5%) AiBk-AjBk | 447.7 | 1002.6 | 1041.3 | 1255.4 | 1164.3 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------|------|--------|--------|------|--------|
| 100:50:50 | 6741 | 7032.2 | 8634.3 | 5237 | 4956.8 |
| 150:65:65 | 8204 | 7076.7 | 9355.3 | 5993 | 5481.5 |
| 200:80:80 | 9056 | 7241.1 | 9584.5 | 6607 | 5802.5 |

| | | | | | |
|-----------------|-------|-------|-------|-------|-------|
| C.D.(5%) Ai-Aj | 145.4 | 919.2 | 749.4 | 948.9 | 588.6 |
| C.V.(%) Error A | 1.4 | 9.9 | 6.2 | 12.2 | 8.3 |
| F(5%) | s | n.s. | n.s. | s | s |

| | | | | | |
|-----------------------|------|--------|---------|------|--------|
| WIN ORANGE SWEET CORN | 7481 | 7560.0 | 7585.6 | 5222 | 4975.3 |
| MADHURI SWEET CORN | 8204 | 7173.3 | 8974.5 | 5541 | 5246.9 |
| SWEET CORN HYBRID | 8315 | 6616.7 | 11013.9 | 7074 | 6018.5 |

| | | | | | |
|---------------|-------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 300.2 | 291.5 | 518.9 | 591.1 | 715.0 |
| C.V.(%)ErrorB | 3.7 | 4.0 | 5.5 | 9.7 | 12.9 |
| F(5%) | s | s | s | s | s |

A - 62

| Main Plot | Sub Plot | Green Stover Yield (Kg/ha) | | | Sweet Corn Yield (Kg/ha) with huk |
|-----------|-----------------------|----------------------------|----------|----------|-----------------------------------|
| | | Delhi | Ludhiana | Varanasi | |
| N Levels | Genotype | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 7000 | 9027.8 | 8556 | 10020 |
| | MADHURI SWEET CORN | 7222 | 10902.8 | 8822 | 8617 |
| | SWEET CORN HYBRID | 8389 | 13993.1 | 11111 | 8273 |
| 150:65:65 | WIN ORANGE SWEET CORN | 8944 | 10277.8 | 8889 | 9750 |
| | MADHURI SWEET CORN | 9111 | 12256.9 | 9800 | 8933 |
| | SWEET CORN HYBRID | 10056 | 14583.3 | 12222 | 8347 |
| 200:80:80 | WIN ORANGE SWEET CORN | 10056 | 11111.1 | 10000 | 11250 |
| | MADHURI SWEET CORN | 10222 | 12361.1 | 11667 | 9567 |
| | SWEET CORN HYBRID | 11167 | 14201.4 | 13667 | 8100 |

| | | | | |
|--------------------|--------|---------|---------|--------|
| Location mean | 9129.6 | 12079.5 | 10525.9 | 9206.3 |
| C.D.(5%) AiBj-AiBk | 559.1 | 1256.2 | 969.8 | 891.0 |
| C.D.(5%) AiBk-AjBk | 509.1 | 1352.6 | 2917.9 | 993.2 |
| F(5%) | n.s. | n.s. | n.s. | n.s. |

| | | | | |
|-----------|-------|---------|-------|------|
| 100:50:50 | 7537 | 11307.9 | 9496 | 8970 |
| 150:65:65 | 9370 | 12372.7 | 10304 | 9010 |
| 200:80:80 | 10481 | 12557.9 | 11778 | 9639 |
| | | | | |

| | | | | |
|-----------------|-------|-------|--------|-------|
| C.D.(5%) Ai-Aj | 229.9 | 896.0 | 2815.8 | 686.6 |
| C.V.(%) Error A | 1.9 | 5.7 | 20.4 | 5.7 |
| F(5%) | s | s | n.s. | n.s. |

| | | | | |
|-----------------------|------|---------|-------|-------|
| WIN ORANGE SWEET CORN | 8667 | 10138.9 | 9148 | 10340 |
| MADHURI SWEET CORN | 8852 | 11840.3 | 10096 | 9039 |
| SWEET CORN HYBRID | 9870 | 14259.3 | 12333 | 8240 |

| | | | | |
|---------------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 322.8 | 725.3 | 559.9 | 514.4 |
| C.V.(%)ErrorB | 3.4 | 5.8 | 5.2 | 5.4 |
| F(5%) | s | s | s | s |

A - 63

| Main Plot | Sub Plot | Plant Stand (000/ha) | | | | |
|-----------|-----------------------|----------------------|--------|----------|----------|-----------|
| | | Delhi | Karnal | Ludhiana | Varanasi | Hyderabad |
| N Levels | Genotype | | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 83.3 | 74.7 | 76.7 | 38.7 | 48.7 |
| | MADHURI SWEET CORN | 82.2 | 69.3 | 76.0 | 38.2 | 49.8 |
| | SWEET CORN HYBRID | 82.2 | 83.7 | 78.8 | 38.0 | 54.1 |
| 150:65:65 | WIN ORANGE SWEET CORN | 83.3 | 78.3 | 76.7 | 37.6 | 54.8 |
| | MADHURI SWEET CORN | 83.3 | 78.0 | 76.4 | 36.0 | 57.2 |
| | SWEET CORN HYBRID | 82.8 | 82.7 | 79.5 | 37.3 | 58.0 |
| 200:80:80 | WIN ORANGE SWEET CORN | 81.7 | 66.7 | 75.7 | 38.9 | 48.5 |
| | MADHURI SWEET CORN | 82.8 | 67.7 | 76.4 | 37.6 | 55.9 |
| | SWEET CORN HYBRID | 83.3 | 81.7 | 78.1 | 37.6 | 60.6 |

| | | | | | |
|--------------------|------|------|------|------|------|
| Location mean | 82.8 | 75.9 | 77.2 | 37.8 | 54.2 |
| C.D.(5%) AiBj-AiBk | 1.7 | 10.8 | 6.7 | 2.0 | 7.6 |
| C.D.(5%) AiBk-AjBk | 2.0 | 10.8 | 8.2 | 2.8 | 7.6 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------|------|------|------|------|------|
| 100:50:50 | 82.6 | 75.9 | 77.2 | 38.3 | 50.9 |
| 150:65:65 | 83.1 | 79.7 | 77.5 | 37.0 | 56.7 |
| 200:80:80 | 82.6 | 72.0 | 76.7 | 38.0 | 55.0 |

| | | | | | |
|-----------------|------|------|------|------|-----|
| C.D.(5%) Ai-Aj | 1.5 | 6.3 | 6.1 | 2.3 | 4.4 |
| C.V.(%) Error A | 1.3 | 6.3 | 6.1 | 4.6 | 6.2 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | |
|-----------------------|------|------|------|------|------|
| WIN ORANGE SWEET CORN | 82.8 | 73.2 | 76.4 | 38.4 | 50.7 |
| MADHURI SWEET CORN | 82.8 | 71.7 | 76.3 | 37.3 | 54.3 |
| SWEET CORN HYBRID | 82.8 | 82.7 | 78.8 | 37.6 | 57.5 |

| | | | | | |
|---------------|------|-----|------|------|-----|
| C.D.(5%)Bi-Bj | 1.0 | 6.2 | 3.9 | 1.1 | 4.4 |
| C.V.(%)ErrorB | 1.2 | 8.0 | 4.9 | 3.0 | 7.9 |
| F(5%) | n.s. | s | n.s. | n.s. | s |

A - 64

| Main Plot | Sub Plot | No. of Green Cobs (000/ha) | | | |
|-----------|-----------------------|----------------------------|----------|----------|-----------|
| | | Delhi | Ludhiana | Varanasi | Hyderabad |
| N Levels | Genotype | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 81.7 | 75.7 | 40.9 | 43.7 |
| | MADHURI SWEET CORN | 80.0 | 74.7 | 40.9 | 39.4 |
| | SWEET CORN HYBRID | 79.4 | 77.1 | 40.7 | 49.1 |
| 150:65:65 | WIN ORANGE SWEET CORN | 82.2 | 78.8 | 44.0 | 48.3 |
| | MADHURI SWEET CORN | 81.1 | 76.4 | 40.7 | 45.4 |
| | SWEET CORN HYBRID | 81.1 | 78.8 | 39.8 | 54.4 |
| 200:80:80 | WIN ORANGE SWEET CORN | 80.0 | 80.2 | 45.1 | 49.3 |
| | MADHURI SWEET CORN | 81.7 | 77.4 | 43.8 | 50.9 |
| | SWEET CORN HYBRID | 80.6 | 79.5 | 42.0 | 56.3 |

| | | | | |
|--------------------|------|------|------|------|
| Location mean | 80.9 | 77.6 | 42.0 | 48.5 |
| C.D.(5%) AiBj-AiBk | 1.4 | 4.1 | 2.8 | 3.9 |
| C.D.(5%) AiBk-AjBk | 2.0 | 6.3 | 5.0 | 3.9 |
| F(5%) | s | n.s. | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|------|
| 100:50:50 | 80.4 | 75.8 | 40.8 | 44.1 |
| 150:65:65 | 81.5 | 78.0 | 41.5 | 49.4 |
| 200:80:80 | 80.7 | 79.1 | 43.6 | 52.2 |

| | | | | |
|-----------------|------|------|------|-----|
| C.D.(5%) Ai-Aj | 1.7 | 5.4 | 4.4 | 2.3 |
| C.V.(%) Error A | 1.6 | 5.3 | 8.1 | 3.6 |
| F(5%) | n.s. | n.s. | n.s. | s |

| | | | | |
|-----------------------|------|------|------|------|
| WIN ORANGE SWEET CORN | 81.3 | 78.2 | 43.3 | 47.1 |
| MADHURI SWEET CORN | 80.9 | 76.2 | 41.8 | 45.2 |
| SWEET CORN HYBRID | 80.4 | 78.5 | 40.8 | 53.3 |

| | | | | |
|---------------|------|------|-----|-----|
| C.D.(5%)Bi-Bj | 0.8 | 2.4 | 1.6 | 2.3 |
| C.V.(%)ErrorB | 1.0 | 3.0 | 3.8 | 4.5 |
| F(5%) | n.s. | n.s. | s | s |

A - 65

| Main Plot | Sub Plot | Plant Height (cm) | | | |
|-----------|-----------------------|-------------------|----------|----------|-----------|
| | | Delhi | Ludhiana | Varanasi | Hyderabad |
| N Levels | Genotype | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 136.0 | 149.0 | 166.3 | 171.3 |
| | MADHURI SWEET CORN | 140.3 | 145.0 | 158.3 | 178.0 |
| | SWEET CORN HYBRID | 138.7 | 143.7 | 172.7 | 189.7 |
| 150:65:65 | WIN ORANGE SWEET CORN | 146.0 | 154.0 | 176.3 | 174.7 |
| | MADHURI SWEET CORN | 149.7 | 157.7 | 176.7 | 180.7 |
| | SWEET CORN HYBRID | 148.3 | 149.0 | 183.0 | 188.7 |
| 200:80:80 | WIN ORANGE SWEET CORN | 152.7 | 161.7 | 180.3 | 178.3 |
| | MADHURI SWEET CORN | 155.3 | 156.7 | 184.3 | 177.7 |
| | SWEET CORN HYBRID | 155.0 | 150.0 | 185.3 | 188.3 |

| | | | | |
|--------------------|-------|-------|-------|-------|
| Location mean | 146.9 | 151.9 | 175.9 | 180.8 |
| C.D.(5%) AiBj-AiBk | 1.8 | 8.2 | 15.3 | 9.2 |
| C.D.(5%) AiBk-AjBk | 2.1 | 7.9 | 14.1 | 9.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. |

| | | | | |
|-----------|-------|-------|-------|-------|
| 100:50:50 | 138.3 | 145.9 | 165.8 | 179.7 |
| 150:65:65 | 148.0 | 153.6 | 178.7 | 181.3 |
| 200:80:80 | 154.3 | 156.1 | 183.3 | 181.4 |

| | | | | |
|-----------------|-----|-----|-----|------|
| C.D.(5%) Ai-Aj | 1.6 | 4.4 | 6.7 | 6.4 |
| C.V.(%) Error A | 0.8 | 2.2 | 2.9 | 2.7 |
| F(5%) | s | s | s | n.s. |

| | | | | |
|-----------------------|-------|-------|-------|-------|
| WIN ORANGE SWEET CORN | 144.9 | 154.9 | 174.3 | 174.8 |
| MADHURI SWEET CORN | 148.4 | 153.1 | 173.1 | 178.8 |
| SWEET CORN HYBRID | 147.3 | 147.6 | 180.3 | 188.9 |

| | | | | |
|---------------|-----|-----|------|-----|
| C.D.(5%)Bi-Bj | 1.0 | 4.7 | 8.8 | 5.3 |
| C.V.(%)ErrorB | 0.7 | 3.0 | 4.9 | 2.9 |
| F(5%) | s | s | n.s. | s |

A - 66

| Main Plot | Sub Plot | Days to 50% Silking | | | |
|-----------|-----------------------|---------------------|----------|----------|-----------|
| | | Karnal | Ludhiana | Varanasi | Hyderabad |
| N Levels | Genotype | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 59.7 | 58.0 | 49.7 | 45.0 |
| | MADHURI SWEET CORN | 58.7 | 57.7 | 50.0 | 44.0 |
| | SWEET CORN HYBRID | 59.0 | 54.3 | 51.0 | 45.3 |
| 150:65:65 | WIN ORANGE SWEET CORN | 59.7 | 56.3 | 48.7 | 46.0 |
| | MADHURI SWEET CORN | 61.0 | 57.3 | 49.0 | 44.3 |
| | SWEET CORN HYBRID | 59.7 | 54.0 | 50.3 | 45.7 |
| 200:80:80 | WIN ORANGE SWEET CORN | 61.7 | 54.7 | 48.7 | 44.7 |
| | MADHURI SWEET CORN | 61.0 | 56.7 | 48.3 | 44.7 |
| | SWEET CORN HYBRID | 59.7 | 53.3 | 50.0 | 45.0 |

| | | | | |
|--------------------|------|------|------|------|
| Location mean | 60.0 | 55.8 | 49.5 | 45.0 |
| C.D.(5%) AiBj-AiBk | 1.7 | 1.6 | 1.6 | 1.2 |
| C.D.(5%) AiBk-AjBk | 1.7 | 2.5 | 1.5 | 1.9 |
| F(5%) | n.s. | n.s. | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|------|
| 100:50:50 | 59.1 | 56.7 | 50.2 | 44.8 |
| 150:65:65 | 60.1 | 55.9 | 49.3 | 45.3 |
| 200:80:80 | 60.8 | 54.9 | 49.0 | 44.8 |

| | | | | |
|-----------------|-----|------|-----|------|
| C.D.(5%) Ai-Aj | 0.9 | 2.2 | 0.8 | 1.6 |
| C.V.(%) Error A | 1.2 | 2.9 | 1.2 | 2.7 |
| F(5%) | s | n.s. | s | n.s. |

| | | | | |
|-----------------------|------|------|------|------|
| WIN ORANGE SWEET CORN | 60.3 | 56.3 | 49.0 | 45.2 |
| MADHURI SWEET CORN | 60.2 | 57.2 | 49.1 | 44.3 |
| SWEET CORN HYBRID | 59.4 | 53.9 | 50.4 | 45.3 |

| | | | | |
|---------------|------|-----|-----|-----|
| C.D.(5%)Bi-Bj | 1.0 | 0.9 | 0.9 | 0.7 |
| C.V.(%)ErrorB | 1.6 | 1.7 | 1.8 | 1.5 |
| F(5%) | n.s. | s | s | s |

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| Main Plot | Sub Plot | Ear Height (cm) | | Days to 50% Tesseling | | |
|-----------|-----------------------|-----------------|----------|-----------------------|----------|----------|
| | | Ludhiana | Varanasi | Karnal | Ludhiana | Varanasi |
| N Levels | Genotype | | | | | |
| 100:50:50 | WIN ORANGE SWEET CORN | 62.3 | 86.0 | 57.7 | 54.0 | 43.7 |
| | MADHURI SWEET CORN | 68.0 | 90.7 | 56.7 | 54.7 | 43.3 |
| | SWEET CORN HYBRID | 73.3 | 96.0 | 57.0 | 52.0 | 44.0 |
| 150:65:65 | WIN ORANGE SWEET CORN | 69.7 | 89.7 | 57.7 | 53.3 | 43.0 |
| | MADHURI SWEET CORN | 74.3 | 94.7 | 59.0 | 54.3 | 43.3 |
| | SWEET CORN HYBRID | 77.7 | 101.7 | 57.7 | 51.3 | 43.7 |
| 200:80:80 | WIN ORANGE SWEET CORN | 77.7 | 92.3 | 59.7 | 52.0 | 42.7 |
| | MADHURI SWEET CORN | 73.3 | 89.7 | 61.7 | 53.3 | 43.3 |
| | SWEET CORN HYBRID | 75.3 | 102.0 | 57.7 | 51.0 | 43.7 |

| | | | | | |
|--------------------|------|------|------|------|------|
| Location mean | 72.4 | 93.6 | 58.3 | 52.9 | 43.4 |
| C.D.(5%) AiBj-AiBk | 11.3 | 7.8 | 3.7 | 1.3 | 1.4 |
| C.D.(5%) AiBk-AjBk | 10.4 | 11.1 | 4.0 | 1.9 | 1.5 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------|------|------|------|------|------|
| 100:50:50 | 67.9 | 90.9 | 57.1 | 53.6 | 43.7 |
| 150:65:65 | 73.9 | 95.3 | 58.1 | 53.0 | 43.3 |
| 200:80:80 | 75.4 | 94.7 | 59.7 | 52.1 | 43.2 |

| | | | | | |
|-----------------|-----|------|------|------|------|
| C.D.(5%) Ai-Aj | 5.0 | 9.1 | 2.7 | 1.5 | 1.0 |
| C.V.(%) Error A | 5.2 | 7.5 | 3.5 | 2.2 | 1.8 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------------------|------|------|------|------|------|
| WIN ORANGE SWEET CORN | 69.9 | 89.3 | 58.3 | 53.1 | 43.1 |
| MADHURI SWEET CORN | 71.9 | 91.7 | 59.1 | 54.1 | 43.3 |
| SWEET CORN HYBRID | 75.4 | 99.9 | 57.4 | 51.4 | 43.8 |

| | | | | | |
|---------------|------|-----|------|-----|------|
| C.D.(5%)Bi-Bj | 6.5 | 4.5 | 2.1 | 0.7 | 0.8 |
| C.V.(%)ErrorB | 8.8 | 4.7 | 3.6 | 1.4 | 1.8 |
| F(5%) | n.s. | s | n.s. | s | n.s. |

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| Main Plot | Sub Plot | Cob Length (cm) | Cob Girth (cm) | Brix Ratio | Days to 50% Brown Husk | Sugar (%) |
|-----------|-----------------------|-----------------|----------------|------------|------------------------|-----------|
| N Levels | Genotype | Karnal | Karnal | Karnal | Varanasi | Hyderabad |
| 100:50:50 | WIN ORANGE SWEET CORN | 15.8 | 4.4 | 18.7 | 68.7 | 16.6 |
| | MADHURI SWEET CORN | 17.0 | 4.3 | 18.3 | 69.7 | 17.3 |
| | SWEET CORN HYBRID | 16.3 | 4.3 | 18.0 | 70.0 | 26.8 |
| 150:65:65 | WIN ORANGE SWEET CORN | 17.4 | 4.4 | 17.3 | 68.7 | 20.1 |
| | MADHURI SWEET CORN | 17.9 | 4.2 | 17.7 | 68.0 | 16.0 |
| | SWEET CORN HYBRID | 17.5 | 4.3 | 17.7 | 70.7 | 25.5 |
| 200:80:80 | WIN ORANGE SWEET CORN | 18.7 | 4.3 | 17.2 | 68.3 | 16.7 |
| | MADHURI SWEET CORN | 17.6 | 4.4 | 17.3 | 69.3 | 15.5 |
| | SWEET CORN HYBRID | 16.5 | 4.3 | 17.7 | 71.0 | 24.1 |

| | | | | | |
|--------------------|------|------|------|------|------|
| Location mean | 17.2 | 4.3 | 17.8 | 69.4 | 19.9 |
| C.D.(5%) AiBj-AiBk | 1.6 | 0.3 | 2.8 | 1.7 | 1.8 |
| C.D.(5%) AiBk-AjBk | 1.9 | 0.3 | 2.6 | 2.6 | 1.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | |
|-----------|------|-----|------|------|------|
| 100:50:50 | 16.4 | 4.3 | 18.3 | 69.4 | 20.3 |
| 150:65:65 | 17.6 | 4.3 | 17.6 | 69.1 | 20.5 |
| 200:80:80 | 17.6 | 4.3 | 17.4 | 69.6 | 18.8 |

| | | | | | |
|-----------------|------|------|------|------|-----|
| C.D.(5%) Ai-Aj | 1.4 | 0.1 | 1.4 | 2.2 | 1.1 |
| C.V.(%) Error A | 6.2 | 2.5 | 5.8 | 2.5 | 4.1 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | |
|-----------------------|------|-----|------|------|------|
| WIN ORANGE SWEET CORN | 17.3 | 4.4 | 17.7 | 68.6 | 17.8 |
| MADHURI SWEET CORN | 17.5 | 4.3 | 17.8 | 69.0 | 16.3 |
| SWEET CORN HYBRID | 16.8 | 4.3 | 17.8 | 70.6 | 25.5 |

| | | | | | |
|---------------|------|------|------|-----|-----|
| C.D.(5%)Bi-Bj | 0.9 | 0.2 | 1.6 | 1.0 | 1.0 |
| C.V.(%)ErrorB | 5.4 | 3.5 | 8.7 | 1.4 | 5.0 |
| F(5%) | n.s. | n.s. | n.s. | s | s |

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Table 15: Response of Full Season maturity Quality Protein Maize (QPM) genotypes to fertility levels at different location.

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | | Cob Yield (Kg/ha) | | | Fodder Yield (Kg/ha) |
|-----------|--------------|---------------------|----------|-------------------|------------|----------|----------------------|
| | | Karimnagar | Kolhapur | Arbhavi | Karimnagar | Kolhapur | Arbhavi |
| N Levels | Genotypes | | | | | | |
| 100:50:50 | VEH QPM-3027 | 4885 | 6683 | 8611 | 5969 | 8017 | 5500 |
| | HQPM-1 | 4224 | 4911 | 7861 | 4692 | 5961 | 5222 |
| | HQPM-5 | 3899 | 5978 | 9583 | 5028 | 7136 | 5417 |
| | HQPM-7 | 4617 | 6964 | 8611 | 5328 | 8344 | 5583 |
| 150:65:65 | VEH QPM-3027 | 5993 | 7208 | 10083 | 7272 | 8642 | 5500 |
| | HQPM-1 | 6329 | 7006 | 8667 | 7699 | 8325 | 5528 |
| | HQPM-5 | 4642 | 7064 | 8556 | 6057 | 8478 | 5278 |
| | HQPM-7 | 6075 | 7661 | 9861 | 6811 | 9111 | 5333 |
| 200:80:80 | VEH QPM-3027 | 6594 | 8036 | 9722 | 8061 | 9700 | 5361 |
| | HQPM-1 | 6524 | 7894 | 8750 | 7631 | 9539 | 5333 |
| | HQPM-5 | 5708 | 8061 | 8472 | 6713 | 9672 | 5389 |
| | HQPM-7 | 6144 | 8847 | 8611 | 7054 | 10508 | 5667 |

| | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|
| Location mean | 5469.4 | 7192.8 | 8949.1 | 6526.2 | 8619.4 | 5425.9 |
| C.D.(5%) AiBj-AiBk | 479.3 | 611.1 | 634.6 | 482.0 | 721.1 | 512.7 |
| C.D.(5%) AiBk-AjBk | 530.6 | 638.7 | 618.3 | 517.7 | 720.0 | 698.2 |
| F(5%) | s | s | s | s | s | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 4406 | 6134 | 8667 | 5254 | 7365 | 5431 |
| 150:65:65 | 5760 | 7235 | 9292 | 6960 | 8639 | 5410 |
| 200:80:80 | 6243 | 8210 | 8889 | 7365 | 9855 | 5438 |

| | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|
| C.D.(5%) Ai-Aj | 333.6 | 366.1 | 290.9 | 309.1 | 367.7 | 547.5 |
| C.V.(%) Error A | 7.1 | 4.5 | 2.9 | 5.5 | 3.8 | 8.9 |
| F(5%) | s | s | s | s | s | n.s. |

| | | | | | | |
|--------------|------|------|------|------|------|------|
| VEH QPM-3027 | 5824 | 7309 | 9472 | 7101 | 8786 | 5454 |
| HQPM-1 | 5692 | 6604 | 8426 | 6674 | 7942 | 5361 |
| HQPM-5 | 4750 | 7034 | 8870 | 5932 | 8429 | 5361 |
| HQPM-7 | 5612 | 7824 | 9028 | 6398 | 9321 | 5528 |

| | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|
| C.D.(5%)Bi-Bj | 276.7 | 352.8 | 366.4 | 278.3 | 416.3 | 296.0 |
| C.V.(%)ErrorB | 6.0 | 5.0 | 4.1 | 5.1 | 4.9 | 5.5 |
| F(5%) | s | s | s | s | s | n.s. |

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| Main Plot | Sub Plot | No. of Plant (000/ha) | | | No. of Cobs (000/ha) | | Days to 50% Silking |
|-----------|--------------|-----------------------|------------|----------|----------------------|------------|---------------------|
| | | Arbhavi | Karimnagar | Kolhapur | Arbhavi | Karimnagar | |
| N Levels | Genotypes | | | | | | |
| 100:50:50 | VEH QPM-3027 | 58.3 | 60.6 | 66.7 | 58.3 | 60.6 | 62.3 |
| | HQPM-1 | 56.9 | 61.1 | 66.4 | 56.7 | 61.1 | 63.3 |
| | HQPM-5 | 60.8 | 61.0 | 66.7 | 60.8 | 61.0 | 64.3 |
| | HQPM-7 | 61.4 | 60.8 | 64.2 | 61.4 | 60.8 | 64.3 |
| 150:65:65 | VEH QPM-3027 | 61.7 | 60.1 | 65.0 | 61.7 | 60.1 | 61.3 |
| | HQPM-1 | 60.3 | 60.1 | 66.7 | 57.5 | 60.1 | 62.3 |
| | HQPM-5 | 60.8 | 61.4 | 66.7 | 55.3 | 61.4 | 63.0 |
| | HQPM-7 | 59.4 | 63.1 | 66.7 | 56.7 | 63.1 | 63.0 |
| 200:80:80 | VEH QPM-3027 | 63.3 | 62.2 | 66.7 | 63.3 | 62.2 | 61.0 |
| | HQPM-1 | 59.4 | 62.5 | 65.3 | 59.4 | 62.5 | 62.0 |
| | HQPM-5 | 58.3 | 61.8 | 64.4 | 63.9 | 61.8 | 63.7 |
| | HQPM-7 | 59.2 | 61.1 | 66.4 | 61.9 | 61.1 | 61.3 |

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Location mean | 60.0 | 61.3 | 66.0 | 59.7 | 61.3 | 62.7 |
| C.D.(5%) AiBj-AiBk | 4.1 | 2.0 | 2.5 | 3.9 | 2.0 | 2.3 |
| C.D.(5%) AiBk-AjBk | 4.3 | 2.1 | 3.2 | 4.7 | 2.1 | 2.8 |
| F(5%) | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 59.4 | 60.9 | 66.0 | 59.3 | 60.9 | 63.6 |
| 150:65:65 | 60.6 | 61.2 | 66.3 | 57.8 | 61.2 | 62.4 |
| 200:80:80 | 60.1 | 61.9 | 65.7 | 62.2 | 61.9 | 62.0 |

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| C.D.(5%) Ai-Aj | 2.5 | 1.3 | 2.4 | 3.3 | 1.3 | 2.0 |
| C.V.(%) Error A | 3.7 | 2.5 | 3.3 | 4.9 | 2.5 | 2.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|--------------|------|------|------|------|------|------|
| VEH QPM-3027 | 61.1 | 61.0 | 66.1 | 61.1 | 61.0 | 61.6 |
| HQPM-1 | 58.9 | 61.3 | 66.1 | 57.9 | 61.3 | 62.6 |
| HQPM-5 | 60.0 | 61.4 | 65.9 | 60.0 | 61.4 | 63.7 |
| HQPM-7 | 60.0 | 61.7 | 65.7 | 60.0 | 61.7 | 62.9 |

| | | | | | | |
|---------------|------|------|------|------|------|-----|
| C.D.(5%)Bi-Bj | 2.4 | 1.1 | 1.4 | 2.3 | 1.1 | 1.3 |
| C.V.(%)ErrorB | 4.0 | 2.2 | 2.2 | 3.8 | 2.2 | 2.1 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s |

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| Main Plot | Sub Plot | Plant Height (cm) | | | Ear Height (cm) | Moisture (%) | |
|-----------|--------------|-------------------|------------|----------|-----------------|--------------|------------|
| | | Arbhavi | Karimnagar | Kolhapur | | Arbhavi | Karimnagar |
| N Levels | Genotypes | Arbhavi | Karimnagar | Kolhapur | Arbhavi | Arbhavi | Karimnagar |
| 100:50:50 | VEH QPM-3027 | 173.0 | 150.0 | 175.7 | 87.3 | 12.4 | 12.5 |
| | HQPM-1 | 197.3 | 144.0 | 178.0 | 103.7 | 11.3 | 12.0 |
| | HQPM-5 | 199.3 | 155.8 | 188.7 | 101.0 | 11.0 | 13.5 |
| | HQPM-7 | 188.7 | 164.3 | 193.0 | 93.7 | 14.3 | 12.3 |
| 150:65:65 | VEH QPM-3027 | 191.3 | 149.5 | 180.0 | 99.3 | 12.8 | 12.8 |
| | HQPM-1 | 190.7 | 143.5 | 182.7 | 92.3 | 13.4 | 13.0 |
| | HQPM-5 | 191.0 | 160.0 | 198.3 | 94.7 | 13.2 | 13.5 |
| | HQPM-7 | 181.0 | 158.5 | 200.7 | 89.3 | 13.9 | 12.0 |
| 200:80:80 | VEH QPM-3027 | 193.3 | 148.8 | 195.3 | 93.0 | 12.7 | 12.8 |
| | HQPM-1 | 188.3 | 148.3 | 193.0 | 88.3 | 13.8 | 12.3 |
| | HQPM-5 | 197.7 | 165.0 | 198.3 | 100.3 | 12.4 | 11.8 |
| | HQPM-7 | 187.7 | 156.8 | 205.3 | 87.3 | 14.0 | 12.0 |

| | | | | | | |
|--------------------|-------|-------|-------|------|------|------|
| Location mean | 189.9 | 153.7 | 190.8 | 94.2 | 12.9 | 12.5 |
| C.D.(5%) AiBj-AiBk | 8.0 | 6.3 | 11.3 | 10.6 | 1.2 | 0.9 |
| C.D.(5%) AiBk-AjBk | 8.5 | 7.0 | 16.3 | 12.4 | 1.3 | 1.2 |
| F(5%) | s | s | n.s. | s | s | s |

| | | | | | | |
|-----------|-------|-------|-------|------|------|------|
| 100:50:50 | 189.6 | 153.5 | 183.8 | 96.4 | 12.2 | 12.6 |
| 150:65:65 | 188.5 | 152.9 | 190.4 | 93.9 | 13.3 | 12.8 |
| 200:80:80 | 191.8 | 154.7 | 198.0 | 92.3 | 13.2 | 12.2 |

| | | | | | | |
|-----------------|------|------|------|------|-----|------|
| C.D.(5%) Ai-Aj | 5.0 | 4.4 | 13.2 | 8.4 | 0.8 | 1.0 |
| C.V.(%) Error A | 2.3 | 3.3 | 6.1 | 7.9 | 5.5 | 9.1 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | |
|--------------|-------|-------|-------|------|------|------|
| VEH QPM-3027 | 185.9 | 149.4 | 183.7 | 93.2 | 12.6 | 12.7 |
| HQPM-1 | 192.1 | 145.3 | 184.6 | 94.8 | 12.8 | 12.4 |
| HQPM-5 | 196.0 | 160.3 | 195.1 | 98.7 | 12.2 | 12.9 |
| HQPM-7 | 185.8 | 159.8 | 199.7 | 90.1 | 14.1 | 12.1 |

| | | | | | | |
|---------------|-----|-----|-----|------|-----|-----|
| C.D.(5%)Bi-Bj | 4.6 | 3.6 | 6.5 | 6.1 | 0.7 | 0.5 |
| C.V.(%)ErrorB | 2.5 | 2.8 | 3.4 | 6.6 | 5.3 | 4.9 |
| F(5%) | s | s | s | n.s. | s | s |

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| Main Plot | Sub Plot | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels/Row | Test Weight (g) 100 Grain | Shelling (%) |
|-----------|--------------|----------------|-----------------|-----------------|--------------------|---------------------------|--------------|
| N Levels | Genotypes | Arbhavi | Arbhavi | Arbhavi | Arbhavi | Arbhavi | Arbhavi |
| 100:50:50 | VEH QPM-3027 | 11.7 | 12.4 | 14.0 | 27.5 | 34.3 | 86.5 |
| | HQPM-1 | 11.2 | 11.3 | 14.6 | 27.6 | 34.3 | 85.7 |
| | HQPM-5 | 11.9 | 11.0 | 14.3 | 26.4 | 36.7 | 85.1 |
| | HQPM-7 | 12.4 | 14.3 | 14.6 | 30.8 | 35.0 | 86.1 |
| 150:65:65 | VEH QPM-3027 | 10.9 | 12.8 | 14.5 | 31.5 | 38.7 | 84.7 |
| | HQPM-1 | 11.6 | 13.4 | 14.1 | 33.5 | 34.0 | 84.5 |
| | HQPM-5 | 12.0 | 13.2 | 14.7 | 29.9 | 36.0 | 83.9 |
| | HQPM-7 | 12.0 | 13.9 | 14.8 | 32.6 | 38.3 | 83.2 |
| 200:80:80 | VEH QPM-3027 | 11.8 | 12.7 | 14.3 | 31.2 | 35.3 | 84.4 |
| | HQPM-1 | 13.5 | 13.8 | 14.8 | 31.3 | 35.7 | 85.4 |
| | HQPM-5 | 12.3 | 12.4 | 14.3 | 30.0 | 38.3 | 85.8 |
| | HQPM-7 | 12.4 | 14.0 | 14.6 | 32.9 | 41.7 | 85.9 |

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Location mean | 12.0 | 12.9 | 14.5 | 30.4 | 36.5 | 85.1 |
| C.D.(5%) AiBj-AiBk | 1.2 | 1.2 | 1.0 | 4.7 | 4.1 | 1.6 |
| C.D.(5%) AiBk-AjBk | 1.3 | 1.3 | 1.2 | 5.7 | 5.2 | 2.0 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------|------|------|------|------|------|------|
| 100:50:50 | 11.8 | 12.2 | 14.4 | 28.1 | 35.1 | 85.8 |
| 150:65:65 | 11.7 | 13.3 | 14.5 | 31.9 | 36.8 | 84.1 |
| 200:80:80 | 12.5 | 13.2 | 14.5 | 31.4 | 37.8 | 85.4 |

| | | | | | | |
|-----------------|------|-----|------|------|------|------|
| C.D.(5%) Ai-Aj | 0.8 | 0.8 | 0.8 | 4.0 | 3.8 | 1.4 |
| C.V.(%) Error A | 6.0 | 5.5 | 4.9 | 11.6 | 9.2 | 1.5 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|--------------|------|------|------|------|------|------|
| VEH QPM-3027 | 11.5 | 12.6 | 14.3 | 30.1 | 36.1 | 85.2 |
| HQPM-1 | 12.1 | 12.8 | 14.5 | 30.8 | 34.7 | 85.2 |
| HQPM-5 | 12.1 | 12.2 | 14.4 | 28.8 | 37.0 | 84.9 |
| HQPM-7 | 12.3 | 14.1 | 14.7 | 32.1 | 38.3 | 85.0 |

| | | | | | | |
|---------------|------|-----|------|------|-----|------|
| C.D.(5%)Bi-Bj | 0.7 | 0.7 | 0.6 | 2.7 | 2.4 | 0.9 |
| C.V.(%)ErrorB | 5.6 | 5.3 | 4.0 | 9.0 | 6.5 | 1.1 |
| F(5%) | n.s. | s | n.s. | n.s. | s | n.s. |

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Table 16: Tillage management in maize based cropping system (Maize-Wheat cropping system) at Pantnagar.

| Treatment | Grain Yield (Kg/ha) | No. of Tillers/m | Plant Height (cm) | 1000 Grain Weight (g) | pH | EC (dSm ⁻¹) | Organic Carbon (%) | Bulk Density (Mg m ⁻³) | Irrigation Water applied (cm) |
|------------------------|---------------------|------------------|-------------------|-----------------------|-----|-------------------------|--------------------|------------------------------------|-------------------------------|
| T ₁ -Zero T | 2907 | 112.3 | 74.4 | 39.7 | 7.2 | 0.1 | 0.5 | 1.4 | 24.4 |
| T ₂ -Conve | 4110 | 134.7 | 85.3 | 39.2 | 7.1 | 0.1 | 0.4 | 1.3 | 35.8 |
| T ₃ -Fresh | 4240 | 125.7 | 86.6 | 39.4 | 7.1 | 0.1 | 0.5 | 1.1 | 27.9 |
| T ₄ -Perma | 4313 | 112.7 | 87.0 | 40.0 | 7.1 | 0.2 | 0.5 | 1.3 | 22.1 |

| | | | | | | | | | |
|--------------|--------|-------|------|------|------|------|------|-----|------|
| Mean | 3892.5 | 121.3 | 83.3 | 39.6 | 7.1 | 0.1 | 0.5 | 1.3 | 27.6 |
| CD | 403.7 | 18.6 | 2.0 | 1.4 | 0.2 | 0.0 | 0.1 | 0.1 | 9.6 |
| CV (%) | 5.2 | 7.7 | 1.2 | 1.8 | 1.1 | 10.4 | 10.7 | 4.7 | 17.5 |
| Significance | S | N.S. | S | N.S. | N.S. | N.S. | N.S. | S | N.S. |

Table 17: Tillage Management in Maize based cropping system (Maize-Wheat System) at Dholi.

| Treatment | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Days of 50% Silking | Plant Height (cm) |
|------------------------|-------------------|-----------------------|----------------------|---------------------|-------------------|
| T ₁ -Zero T | 6444 | 53.0 | 38.1 | 61.3 | 119.7 |
| T ₂ -Conve | 5674 | 51.1 | 42.1 | 61.3 | 122.5 |
| T ₃ -Fresh | 5881 | 53.2 | 44.7 | 58.7 | 136.4 |
| T ₄ -Perma | 6504 | 51.1 | 43.1 | 60.3 | 115.4 |

| | | | | | |
|--------------|--------|------|------|------|-------|
| Mean | 6125.9 | 52.1 | 42.0 | 60.4 | 123.5 |
| CD | 665.8 | 3.4 | 5.2 | 4.9 | 25.9 |
| CV (%) | 5.4 | 3.2 | 6.1 | 4.0 | 10.5 |
| Significance | N.S. | N.S. | N.S. | N.S. | N.S. |

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Table 18: Tillage Management in Rice-Maize system at Dholi.

| Treatment | Grain Yield (Kg/ha) | Stalk Weight (Kg/ha) | Days of 50% Silking |
|----------------|---------------------|----------------------|---------------------|
| T ₁ | 2556 | 5644 | 75.0 |
| T ₂ | 2311 | 5889 | 75.7 |
| T ₃ | 2356 | 6422 | 75.7 |
| T ₄ | 2244 | 6556 | 75.3 |

| | | | |
|--------------|--------|-------|------|
| Mean | 2366.7 | #### | 75.4 |
| CD | 750.9 | 978.0 | 2.8 |
| CV (%) | 15.9 | 8.0 | 1.9 |
| Significance | N.S. | N.S. | N.S. |

| Treatment | N | P | K |
|-------------------------------|-----|----|----|
| T ₁ - Zero | 100 | 40 | 20 |
| T ₂ - Conventional | 100 | 40 | 20 |
| T ₃ - Conventional | 100 | 40 | 20 |
| T ₄ - Conventional | 100 | 40 | 20 |

Table 19: Tillage based management in Maize based cropping system (Rice-maize) at Hyderabad.

| Treatment | Grain Yield (Kg/ha) | Fodder Yield (Kg/ha) | Effective Tillers/m ² | Panicles per m ² | Plant Height (cm) |
|----------------|---------------------|----------------------|----------------------------------|-----------------------------|-------------------|
| T ₁ | 4353 | 5480 | 451.4 | 353.8 | 105.2 |
| T ₂ | 4147 | 5333 | 425.0 | 327.0 | 105.0 |
| T ₃ | 2767 | 3420 | 261.4 | 245.4 | 89.6 |
| T ₄ | 4480 | 5913 | 417.2 | 325.0 | 101.6 |

| | | | | | |
|--------------|--------|-------|-------|-------|-------|
| Mean | 3936.7 | #### | 388.8 | 312.8 | 100.4 |
| CD | 432.6 | 574.0 | 78.3 | 37.6 | 4.7 |
| CV (%) | 8.0 | 8.3 | 14.6 | 8.7 | 3.4 |
| Significance | S | S | S | S | S |

| Treatment | Kharif (Rice) | Rabi (Maize) |
|----------------|----------------------|----------------------|
| T ₁ | Conventional tillage | Conventional tillage |
| T ₂ | Conventional tillage | Zero tillage |
| T ₃ | Zero tillage | Zero tillage |
| T ₄ | Conventional tillage | Raised bed system |

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Table 20: Tillage management in (Rice-Maize) cropping system at Banswara.

| Treatment | Grain Yield (Kg/ha) |
|---|---------------------|
| T ₁ : Zero Till in both crops | 1778 |
| T ₂ : Conventional Till in both crops | 1467 |
| T ₃ : Conventional Till in rice – beds | 1540 |
| T ₄ : Conventional Till in rice – Zero | 1800 |

| | |
|--------------|--------|
| Mean | 1646.1 |
| CD | 291.0 |
| CV (%) | 8.8 |
| Significance | N.S. |

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Table 21: Tillage X Genotype interaction at Dholi.

| Main Plot (Tillage) | Sub Plot (Genotype) | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Days of 50% Silking | Plant Height (cm) |
|---------------------|---------------------|-------------------|-----------------------|----------------------|---------------------|-------------------|
| S ₁ | G ₁ | 6178 | 54.7 | 51.9 | 63.0 | 106.3 |
| | G ₂ | 3274 | 51.1 | 39.4 | 70.7 | 96.3 |
| | G ₃ | 6000 | 50.5 | 52.0 | 62.7 | 104.7 |
| S ₂ | G ₁ | 6044 | 52.7 | 48.6 | 63.0 | 117.7 |
| | G ₂ | 3437 | 51.6 | 43.3 | 69.3 | 90.7 |
| | G ₃ | 6000 | 52.6 | 45.6 | 60.7 | 103.7 |
| S ₃ | G ₁ | 4548 | 57.0 | 52.6 | 61.0 | 117.0 |
| | G ₂ | 2148 | 49.0 | 37.3 | 69.3 | 93.3 |
| | G ₃ | 4993 | 54.8 | 49.3 | 57.7 | 97.7 |

Location mean ##### 52.7 46.7 64.1 103.0
 C.D.(5%) AiBj-AiBk 909.3 5.0 5.6 3.9 16.5
 C.D.(5%) AiBk-AjBi 943.3 4.9 5.2 6.8 21.4
 F(5%) n.s. n.s. n.s. n.s. n.s.

| | | | | | |
|----------------|------|------|------|------|-------|
| S ₁ | 5151 | 52.1 | 47.8 | 65.4 | 102.4 |
| S ₂ | 5160 | 52.3 | 45.8 | 64.3 | 104.0 |
| S ₃ | 3896 | 53.6 | 46.4 | 62.7 | 102.7 |

C.D.(5%) Ai-Aj 591.9 2.6 2.4 6.0 16.9
 C.V.(%) Error A 9.6 3.8 3.9 7.1 12.5
 F(5%) s n.s. n.s. n.s. n.s.

| | | | | | |
|----------------|------|------|------|------|-------|
| G ₁ | 5590 | 54.8 | 51.0 | 62.3 | 113.7 |
| G ₂ | 2953 | 50.6 | 40.0 | 69.8 | 93.4 |
| G ₃ | 5664 | 52.6 | 49.0 | 60.3 | 102.0 |

C.D.(5%)Bi-Bj 525.0 2.9 3.2 2.3 9.5
 C.V.(%)ErrorB 10.8 5.4 6.8 3.4 9.0
 F(5%) s s s s s

Treatment Details:

(a) Tillage (b) Genotype

S₁ - Zero Till G₁ - S4

S₂ - Permanent Bel G₂ - HQPM-1

S₃ - Conventional G₁ - 900 3

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Table 22: Effect of Tillage and weed control practice on productivity of wheat-maize cropping sequence at Udaipur.

| T (Tillage System) | Weed Management | (Kg/ha) | (Kg/ha) | tensity of | monocot | t of crop | monocot |
|--------------------|-----------------|---------|---------|------------|---------|-----------|---------|
| T ₁ | W ₁ | 2893 | 3316 | 135.0 | 61.3 | 145.0 | 67.0 |
| | W ₂ | 4928 | 7392 | 31.0 | 21.3 | 34.0 | 30.3 |
| | W ₃ | 4337 | 6592 | 37.0 | 26.3 | 40.3 | 27.7 |
| T ₂ | W ₁ | 1819 | 2692 | 90.0 | 95.0 | 94.0 | 116.3 |
| | W ₂ | 4015 | 6023 | 18.0 | 27.0 | 18.3 | 36.7 |
| | W ₃ | 3643 | 5537 | 20.0 | 29.0 | 22.7 | 36.0 |
| T ₃ | W ₁ | 2401 | 3553 | 130.0 | 63.0 | 138.3 | 74.0 |
| | W ₂ | 4201 | 6302 | 30.0 | 21.7 | 32.7 | 25.3 |
| | W ₃ | 4080 | 6202 | 35.3 | 25.7 | 39.7 | 27.7 |
| T ₄ | W ₁ | 1932 | 2860 | 85.0 | 93.3 | 91.0 | 109.0 |
| | W ₂ | 4281 | 6422 | 16.3 | 25.0 | 17.0 | 32.7 |
| | W ₃ | 3763 | 5720 | 18.3 | 26.7 | 19.3 | 35.3 |
| T ₅ | W ₁ | 2560 | 3788 | 135.3 | 62.0 | 145.3 | 68.7 |
| | W ₂ | 4386 | 6579 | 34.7 | 23.7 | 36.7 | 27.3 |
| | W ₃ | 3856 | 5861 | 39.0 | 26.0 | 40.7 | 29.0 |

| | | | | | | |
|--------------------|-------|--------|------|------|------|------|
| Location mean | ##### | 5255.9 | 57.0 | 41.8 | 61.0 | 49.5 |
| C.D.(5%) AiBj-AiBk | 574.6 | 953.0 | 5.8 | 6.0 | 8.3 | 5.8 |
| C.D.(5%) AiBk-AjBk | 609.2 | 917.8 | 6.7 | 6.9 | 10.7 | 7.8 |
| F(5%) | n.s. | n.s. | s | s | s | s |

| | | | | | | |
|----------------|------|------|------|------|------|------|
| T ₁ | 4053 | 5767 | 67.7 | 36.3 | 73.1 | 41.7 |
| T ₂ | 3159 | 4750 | 42.7 | 50.3 | 45.0 | 63.0 |
| T ₃ | 3561 | 5352 | 65.1 | 36.8 | 70.2 | 42.3 |
| T ₄ | 3326 | 5001 | 39.9 | 48.3 | 42.4 | 59.0 |
| T ₅ | 3600 | 5409 | 69.7 | 37.2 | 74.2 | 41.7 |

| | | | | | | |
|-----------------|-------|-------|-----|------|------|------|
| C.D.(5%) Ai-Aj | 389.7 | 488.5 | 4.8 | 4.9 | 8.3 | 6.2 |
| C.V.(%) Error A | 10.1 | 8.5 | 7.7 | 10.8 | 12.6 | 11.5 |
| F(5%) | s | s | s | s | s | s |

| | | | | | | |
|----------------|------|------|-------|------|-------|------|
| W ₁ | 2321 | 3242 | 115.1 | 74.9 | 122.7 | 87.0 |
| W ₂ | 4362 | 6543 | 26.0 | 23.7 | 27.7 | 30.5 |
| W ₃ | 3936 | 5982 | 29.9 | 26.7 | 32.5 | 31.1 |

| | | | | | | |
|---------------|-------|-------|-----|-----|-----|-----|
| C.D.(5%)Bi-Bj | 257.0 | 426.2 | 2.6 | 2.7 | 3.7 | 2.6 |
| C.V.(%)ErrorB | 9.5 | 10.6 | 5.9 | 8.4 | 8.0 | 6.8 |
| F(5%) | s | s | s | s | s | s |

* Treatment details is on next page

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Treatment detail:

A Tillage system

- T₁** Maize (conventional tillage)-Wheat (Conventional tillage)
- T₂** Maize Zero tillage)-Wheat (Zero tillage)
- T₃** Maize Conventional tillage)-Wheat (Zero tillage)
- T₄** Maize (Zero tillage)-Wheat (Conventional tillage)
- T₅** Maize(Bed plantinb)-Wheat(Furrow irrigated raised bed planting-FIRB)

B Weed management

- W₁** Unwedded
- W₂** Manual weeding (Weed free)
- W₃** Herbicidal control (Recommended for both the crops)

| Sl. No. | Treatment Combination |
|---------|---------------------------------|
| | Tillage System X Weed Managem |
| 1 | Maize(con)-Wheat(con) + Un wee |
| 2 | Maize(con)-Wheat(con) + Manua |
| 3 | Maize(con)-Wheat(con) + Herbici |
| 4 | Maize(zero)-Wheat(zero) + Un w |
| 5 | Maize(zero)-Wheat(zero) + Manu |
| 6 | Maize(zero)-Wheat(zero) + Herbi |
| 7 | Maize(con)-Wheat(zero) + Un we |
| 8 | Maize(con)-Wheat(zero) + Manu: |
| 9 | Maize(con)-Wheat(zero) + Herbic |
| 10 | Maize(zero)-Wheat(con) + Un we |
| 11 | Maize(zero)-Wheat(con) + Manu: |
| 12 | Maize(zero)-Wheat(con) + Herbic |
| 13 | Maize.bed)-Wheat(FIRB) + Un w |
| 14 | Maize.bed)-Wheat(FIRB) + Manu |
| 15 | Maize.bed)-Wheat(FIRB) + Herbi |

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Table 23: Effect of Germplasm x tillage practices on productivity and soil health under (Maize-Wheat) cropping sequence at Udaipur.

| Tillage Practice | Residue Management | Grain Yield (Kg/ha) | Stover Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Length of Cob (cm) | Girth of Cob (cm) | Test Weight (g) | Lodging (%) |
|------------------|--------------------|---------------------|----------------------|-----------------------|----------------------|-------------------|--------------------|-------------------|-----------------|-------------|
| T ₁ | G ₁ | 3990 | 6183 | 61.3 | 61.2 | 191.7 | 16.5 | 9.9 | 118.2 | 15.0 |
| T ₂ | | 3672 | 5611 | 60.0 | 59.0 | 195.3 | 16.0 | 10.1 | 115.2 | 55.0 |
| T ₃ | | 4343 | 6717 | 63.0 | 62.8 | 196.3 | 17.0 | 10.4 | 121.6 | 6.0 |
| T ₁ | G ₂ | 3661 | 5543 | 60.4 | 58.4 | 188.3 | 16.0 | 9.0 | 120.3 | 20.0 |
| T ₂ | | 3003 | 4503 | 60.4 | 57.5 | 176.3 | 15.5 | 9.2 | 117.4 | 60.0 |
| T ₃ | | 3711 | 5628 | 62.7 | 61.5 | 198.3 | 16.5 | 9.3 | 122.3 | 10.0 |

Mean of location ##### 5697.5 61.3 60.0 191.1 16.3 9.7 119.2 27.7
 C.D. at 5 % 680.0 1027.0 3.4 3.3 22.6 1.2 0.9 6.6 6.4
 F s s n.s. s n.s. n.s. s n.s. s

| | | | | | | | | | |
|----------------|------|------|------|------|-------|------|------|-------|------|
| T ₁ | 3831 | 5897 | 60.7 | 60.1 | 193.5 | 16.2 | 10.0 | 116.7 | 35.0 |
| T ₂ | 4002 | 6130 | 61.7 | 60.6 | 192.3 | 16.5 | 9.7 | 121.0 | 13.0 |
| T ₃ | 3357 | 5065 | 61.6 | 59.5 | 187.3 | 16.0 | 9.3 | 119.9 | 35.0 |

C.D. at 5 % 480.8 726.2 2.4 2.4 16.0 0.9 0.6 4.6 4.5
 F s s n.s. n.s. n.s. n.s. n.s. n.s. s

| | | | | | | | | | |
|----------------|------|------|------|------|-------|------|-----|-------|------|
| G ₁ | 3779 | 5801 | 61.6 | 60.5 | 188.1 | 16.3 | 9.9 | 119.1 | 27.0 |
| G ₂ | 3681 | 5594 | 61.0 | 59.6 | 194.0 | 16.2 | 9.4 | 119.3 | 28.3 |

C.D. at 5 % 392.6 592.9 2.0 1.9 13.1 0.7 0.5 3.8 3.7
 C.V. % 10.0 9.9 3.0 3.1 6.5 4.1 5.1 3.0 12.7
 F n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s.

Treatment detail:

A. Tillage practices

- T₁ Conventional tillage in both crop
- T₂ Zero tillage in both crop
- T₃ Bed planting of both crop on permanent beds

B. Germplasm

- G₁ HQPM-1
- G₂ Pratap Hybrid-1

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Table 24: Effect of residue management and tillage practices on productivity and soil health under (Maize-Wheat) cropping sequence at Udaipur.

| Tillage Practice | Residue Management | Grain Yield (Kg/ha) | Stover Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Length of Cob (cm) | Girth of Cob (cm) | Test Weight (g) | Lodging (%) | Barren Plant (000/ha) | No. of Seed/Cob |
|------------------|--------------------|---------------------|----------------------|-----------------------|----------------------|--------------------|-------------------|-----------------|-------------|-----------------------|-----------------|
| T ₁ | G ₁ | 3424 | 3514 | 61.5 | 61.3 | 17.1 | 10.4 | 138.7 | 15.3 | 0.4 | 355.0 |
| T ₂ | | 3130 | 3119 | 60.0 | 59.9 | 16.6 | 10.1 | 142.0 | 29.9 | 0.9 | 361.7 |
| T ₃ | | 3625 | 3611 | 63.0 | 63.4 | 17.6 | 11.0 | 143.7 | 5.0 | 0.1 | 382.3 |
| T ₁ | G ₂ | 3014 | 5148 | 60.6 | 59.3 | 16.5 | 10.0 | 136.0 | 14.5 | 0.6 | 354.0 |
| T ₂ | | 2737 | 4095 | 60.1 | 58.2 | 16.1 | 9.5 | 138.3 | 27.1 | 0.9 | 338.7 |
| T ₃ | | 3414 | 5190 | 61.6 | 61.3 | 17.0 | 10.5 | 140.7 | 3.1 | 0.4 | 355.3 |

Mean of location ##### 4112.9 61.1 60.6 16.8 10.3 139.9 15.8 0.6 357.8
 C.D. at 5 % 549.0 782.5 3.9 4.7 1.1 0.9 11.2 3.9 0.7 24.2
 F s s n.s. n.s. s s n.s. s s

| | | | | | | | | | | |
|----------------|------|------|------|------|------|------|-------|------|-----|-------|
| T ₁ | 3277 | 3317 | 60.7 | 60.6 | 16.8 | 10.2 | 140.3 | 22.6 | 0.7 | 358.3 |
| T ₂ | 3320 | 4380 | 61.8 | 61.3 | 17.1 | 10.5 | 139.8 | 9.8 | 0.4 | 368.2 |
| T ₃ | 3075 | 4642 | 60.9 | 59.8 | 16.5 | 10.0 | 139.5 | 15.1 | 0.7 | 347.0 |

C.D. at 5 % 388.2 553.3 2.8 3.4 0.8 0.7 7.9 2.7 0.5 17.1
 F n.s. s n.s. n.s. n.s. n.s. n.s. s n.s. n.s.

| | | | | | | | | | | |
|----------------|------|------|------|------|------|------|-------|------|-----|-------|
| G ₁ | 3262 | 3740 | 61.5 | 61.0 | 16.9 | 10.3 | 140.2 | 15.8 | 0.5 | 358.7 |
| G ₂ | 3186 | 4486 | 60.7 | 60.1 | 16.7 | 10.2 | 139.6 | 15.9 | 0.6 | 357.0 |

C.D. at 5 % 317.0 451.8 2.3 2.7 0.6 0.5 6.5 2.2 0.4 14.0
 C.V. % 9.4 10.5 3.5 4.3 3.6 4.9 4.4 13.4 66.5 3.7
 F n.s. s n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s.

Treatment Details:

A. Tillage practices

- T₁ Conventional tillage in both crop
- T₂ Zero tillage in both crop
- T₃ Bed planting of both crop on permanent beds

B. Residue Management

- R₁ Without residue
- R₂ With residue of both crop (30-35% residue)

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Table 25: Site Specific nutrient management in Maize-Wheat cropping system at Bajaura

| Treatment | Grain Yield (Kg/ha) | Plant Stand (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) |
|----------------|---------------------|----------------------|----------------------|-------------------|
| T ₁ | 2413 | 79.3 | 58.2 | 153.5 |
| T ₂ | 7338 | 82.6 | 75.2 | 197.4 |
| T ₃ | 8323 | 80.7 | 74.5 | 187.8 |
| T ₄ | 11073 | 81.1 | 77.0 | 198.0 |
| T ₅ | 3370 | 81.9 | 63.0 | 152.0 |
| T ₆ | 8098 | 80.4 | 74.4 | 184.5 |
| T ₇ | 8026 | 79.3 | 75.6 | 206.5 |
| Mean | 6948.9 | 80.7 | 71.1 | 182.8 |
| CD | 393.4 | 4.6 | 6.7 | 10.1 |
| CV (%) | 3.2 | 3.2 | 5.3 | 3.1 |
| Significance | S | N.S. | S | S |

Table 26: Site specific nutrient management (SSNM) in Maize-wheat cropping system under irrigated conditions during Kharif 2008 and rabi 2008-09 at Bajaura

| Treatment | Grain yield (q/ha) | |
|----------------|--------------------|---------------|
| | Maize (08) | Wheat (08-09) |
| T ₁ | 34.3 | 11.1 |
| T ₂ | 77.8 | 36.9 |
| T ₃ | 80.0 | 40.2 |
| T ₄ | 78.6 | 50.2 |
| T ₅ | 44.6 | 10.7 |
| T ₆ | 77.1 | 41.1 |
| T ₇ | 79.4 | 48.0 |
| CD 5% | 7.3 | 4.5 |

*Treatment details are given above both table

| Treatment | Treatment (Nutrients kg/ha) | |
|----------------|--|---|
| | Maize (Kharif) | Wheat (Rabi) |
| | (N+P ₂ O ₅ +K ₂ O+ZnSO ₄) | (N+P ₂ O ₅ +K ₂ O) |
| T ₁ | Control (no fertilizers) | Control (no fertilizers) |
| T ₂ | State recommendations = 120+60+40 | State recommendations = 120+60+30 |
| T ₃ | Improved nutrient recommendation = 150+60+40+25 | Improved nutrient recommendation = 120+60+30 |
| T ₄ | SSNM = 188+79+0+25 | SSNM = 188+97+0 |
| T ₅ | SSNM-nitrogen = 0+79+0+25 | SSNM-nitrogen = 0+97+0 |
| T ₆ | SSNM-phosphorus = 188+0+25 | SSNM-phosphorus = 188+0+0 |
| T ₇ | SSNM-potash = 188+79+0+25 | SSNM-potash = 188+97+0 |

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Table 27: Site Specific Nutrient Management (SNMP) in Maize-Wheat cropping system at Udhampur.

| Treatment | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | Stover Yield (Kg/ha) | Plant Stand (000/ha) | No. of Leaves/Plant | Plant Height (cm) |
|----------------|---------------------|-------------------|----------------------|----------------------|---------------------|-------------------|
| T ₁ | 2186 | 3073 | 4098 | 47.1 | 8.9 | 152.7 |
| T ₂ | 3588 | 5168 | 6376 | 62.8 | 9.1 | 157.2 |
| T ₃ | 4231 | 5561 | 7651 | 64.8 | 9.3 | 157.4 |
| T ₄ | 4656 | 6560 | 8051 | 62.1 | 9.1 | 160.3 |
| T ₅ | 3241 | 4547 | 5758 | 58.0 | 9.1 | 153.0 |
| T ₆ | 3920 | 5410 | 7320 | 63.2 | 9.3 | 164.2 |
| T ₇ | 4495 | 5835 | 7975 | 64.1 | 9.1 | 162.4 |
| Mean | 3759.6 | 5164.7 | 6747.1 | 60.3 | 9.1 | 158.2 |
| CD | 344.6 | 736.9 | 462.3 | 3.6 | 0.4 | 5.5 |
| CV (%) | 5.2 | 8.0 | 3.9 | 3.4 | 2.5 | 2.0 |
| Significance | S | S | S | S | N.S. | S |

T treatments Details 7 = N:P:K Zn (Kg/ha)

- T₁ - control
- T₂ - (State Recommendation , 60:40:20 10)
- T₃ - (Improved Nutrition 120:80:40 25)
- T₄ - (SSNM - 196:111:51 25)
- T₅ - (SSNM - N -:111:51 25)
- T₆ - (SSNM - P 196:-:51 25)
- T₇ - (SSNM - K 196:111:- 25)

Table 28: Site-Specific Nutrient Management in maize-wheat cropping system at Banswara.

| Treatment | Grain Yield (Kg/ha) |
|---|---------------------|
| T ₁ : Control | 2147 |
| T ₂ : State rec. of nutrient maize (90:40:30 kg/ha) | 3444 |
| T ₃ : N+P ₂ O ₅ +K ₂ O+ZnSO ₄ (120+60+40+25 kg/ha) | 5080 |
| T ₄ : N+P ₂ O ₅ +K ₂ O+ZnSO ₄ (229+72+0+25 kg/h) | 5324 |
| T ₅ : P ₂ O ₅ +K ₂ O+ZnSO ₄ (72+0+25 kg/ha) | 2964 |
| T ₆ : N+ K ₂ O+ZnSO ₄ (229+0+25 kg/ha) | 3804 |
| T ₇ : N+ P ₂ O ₅ +ZnSO ₄ (229+72+25 kg/ha) | 5067 |
| Mean | 3975.9 |
| CD | 386.3 |
| CV (%) | 5.5 |
| Significance | S |

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Table 29: Site Specific Nutrient Management (SSNM) Trail at Ludhiana.

| Treatments | Grain Yield (Kg/ha) | Plant Stand (000/ha) | No. of Cobs (000/ha) | Days to 50% Tasseling | Days to 50% Silking | Days to 75% Husk Brown | Plant Height (cm) | Ear Height (cm) | Cob Length (cm) | Cob Girth (cm) |
|----------------|---------------------|----------------------|----------------------|-----------------------|---------------------|------------------------|-------------------|-----------------|-----------------|----------------|
| T ₁ | 1828 | 65.6 | 54.3 | 67.0 | 71.3 | 104.3 | 120.0 | 46.7 | 10.5 | 3.2 |
| T ₂ | 4011 | 68.3 | 68.7 | 58.7 | 59.7 | 102.3 | 143.3 | 54.0 | 14.1 | 3.3 |
| T ₃ | 4359 | 66.3 | 66.7 | 57.7 | 60.0 | 101.3 | 148.3 | 59.0 | 14.6 | 3.4 |
| T ₄ | 4589 | 67.0 | 67.6 | 56.7 | 58.7 | 100.3 | 154.7 | 65.7 | 15.0 | 3.6 |
| T ₅ | 2365 | 65.7 | 58.3 | 61.0 | 64.3 | 102.7 | 141.7 | 48.7 | 12.0 | 3.3 |
| T ₆ | 3500 | 66.1 | 63.5 | 60.0 | 63.0 | 102.7 | 153.7 | 64.3 | 14.1 | 3.3 |
| T ₇ | 4588 | 68.3 | 68.1 | 56.7 | 59.0 | 100.7 | 154.3 | 60.7 | 14.9 | 3.4 |
| Mean | 3605.6 | 66.8 | 63.9 | 59.7 | 62.3 | 102.0 | 145.1 | 57.0 | 13.6 | 3.3 |
| CD | 224.2 | 3.5 | 4.8 | 3.1 | 3.1 | 4.6 | 6.1 | 7.4 | 0.9 | 0.4 |
| CV (%) | 3.5 | 2.9 | 4.2 | 2.9 | 2.8 | 2.5 | 2.4 | 7.3 | 3.6 | 7.4 |
| Significance | S | N.S. | S | S | S | N.S. | S | S | S | N.S. |

Treatments Details: 7

T₁ - control

T₂ - (N+P₂O₅+K₂O+ZnSO₄, 125+60+30+25Kg/ha)

T₃ - (N+P₂O₅+K₂O+ZnSO₄, 150+60+40+25Kg/ha)

T₄ - (N+P₂O₅+K₂O+ZnSO₄, 235+111+0+25Kg/ha)

T₅ - (N+P₂O₅+K₂O+ZnSO₄, 0+111+0+25Kg/ha)

T₆ - (N+P₂O₅+K₂O+ZnSO₄, 235+0+0+25Kg/ha)

T₇ - (N+P₂O₅+K₂O+ZnSO₄, 235+111+0+25Kg/ha)

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Table 30: Site specific nutrient management (SSNM) in maize based cropping system at Pantnagar.

| Treatment (Wheat) | Grain Yield (Kg/ha) | No. of Tillers/M Length | No. of Ears/m Length | Plant Height (cm) |
|-------------------|---------------------|-------------------------|----------------------|-------------------|
| T ₁ | 1310 | 73.8 | 67.5 | 72.3 |
| T ₂ | 3056 | 95.2 | 92.5 | 87.7 |
| T ₃ | 3274 | 107.9 | 104.8 | 89.7 |
| T ₄ | 3641 | 115.9 | 111.9 | 92.0 |
| T ₅ | 1810 | 87.3 | 80.2 | 77.3 |
| T ₆ | 2490 | 92.1 | 88.1 | 88.3 |
| T ₇ | 2738 | 93.7 | 90.9 | 89.7 |

| | | | | |
|--------------|--------|------|------|------|
| Mean | 2616.8 | 95.1 | 90.8 | 85.3 |
| CD | 809.0 | 13.1 | 11.4 | 6.0 |
| CV (%) | 17.4 | 7.7 | 7.1 | 3.9 |
| Significance | S | S | S | S |

| Treatment (Maize) | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No of Cobs (000/ha) | Plant Height (cm) | Days to 50% Tasseling | Days to 50% Silking | Cob Length (cm) | Cob Girth (cm) | Moisture (%) |
|-------------------|---------------------|-------------------|-----------------------|---------------------|-------------------|-----------------------|---------------------|-----------------|----------------|--------------|
| T ₁ | 754 | 1429 | 63.5 | 21.4 | 59.7 | 62.0 | 125.0 | 10.4 | 10.9 | 26.0 |
| T ₂ | 3770 | 6032 | 64.3 | 62.7 | 55.0 | 59.3 | 171.7 | 15.0 | 12.2 | 27.0 |
| T ₃ | 4286 | 6349 | 65.9 | 66.7 | 55.3 | 59.7 | 181.7 | 14.3 | 12.3 | 26.7 |
| T ₄ | 5119 | 7619 | 65.9 | 67.5 | 56.0 | 59.7 | 179.3 | 14.6 | 12.6 | 26.3 |
| T ₅ | 1151 | 1825 | 65.1 | 48.4 | 58.7 | 62.0 | 150.7 | 11.6 | 11.8 | 27.0 |
| T ₆ | 2976 | 4881 | 63.5 | 52.4 | 56.0 | 60.0 | 166.3 | 13.8 | 12.5 | 27.3 |
| T ₇ | 2937 | 5119 | 64.3 | 54.8 | 55.7 | 59.3 | 165.7 | 12.2 | 12.0 | 26.7 |

| | | | | | | | | | | |
|--------------|--------|--------|------|------|------|------|-------|------|------|------|
| Mean | 2998.9 | 4750.6 | 64.6 | 53.4 | 56.6 | 60.3 | 162.9 | 13.1 | 12.1 | 26.7 |
| CD | 579.1 | 689.9 | 5.5 | 13.9 | 1.2 | 0.8 | 20.5 | 2.4 | 1.2 | 1.7 |
| CV (%) | 10.9 | 8.2 | 4.7 | 14.6 | 1.2 | 0.8 | 7.1 | 10.1 | 5.4 | 3.5 |
| Significance | S | S | N.S. | S | S | S | S | S | N.S. | N.S. |

Treatment Details:

| S. No. | Treatments | | |
|--------|--|--|------------------------------|
| | For both crops Maize & Wheat | | Nutrient management |
| 1 | Control (no fertilizer) | | No fertilizer application |
| 2 | State recommendation of nutrient | | 120: 60: 40 :: N : P205 : K2 |
| 3 | Improved nutrient recommendation | | 150: 60: 40 :: N : P205 : K2 |
| 4 | Site specific nutrient management (SSNM) | | 148: 48: 97 :: N : P205 : K2 |
| 5 | SSNM - Nitrogen | | 48: 97 :: P205 : K20 kg/ha |
| 6 | SSNM - Phosphorus | | 148: 97 :: N : K20 kg/ha |
| 7 | SSNM - Potash | | 148: 48 :: N : P205 kg/ha |

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Table 31: Site Specific Nutrient Management (SSNM) in Maize-Wheat cropping system at Arbhavi

| Treatment | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Ear Height (cm) |
|----------------|-------------------|----------------------|-----------------------|----------------------|-------------------|-----------------|
| T ₁ | 2806 | 2167 | 47.5 | 47.5 | 175.3 | 83.0 |
| T ₂ | 5694 | 2833 | 58.1 | 58.1 | 168.3 | 76.0 |
| T ₃ | 5611 | 2500 | 60.3 | 60.3 | 167.3 | 76.0 |
| T ₄ | 5472 | 2500 | 56.4 | 56.4 | 166.3 | 72.3 |
| T ₅ | 4028 | 2111 | 53.6 | 53.6 | 165.7 | 71.3 |
| T ₆ | 5139 | 2097 | 56.7 | 56.7 | 164.0 | 72.3 |
| T ₇ | 5639 | 2528 | 57.5 | 57.5 | 165.0 | 71.7 |

| | | | | | | |
|--------------|--------|--------|------|------|-------|------|
| Mean | 4912.7 | 2390.9 | 55.7 | 55.7 | 167.4 | 74.7 |
| CD | 392.9 | 284.1 | 4.9 | 4.9 | 9.0 | 5.2 |
| CV (%) | 4.5 | 6.7 | 5.0 | 5.0 | 3.0 | 3.9 |
| Significance | S | S | S | S | N.S. | S |

| Treatment | Moisture (%) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels/Row | Test Weight (g) 100 Grain | Shelling (%) |
|----------------|--------------|----------------|-----------------|-----------------|--------------------|---------------------------|--------------|
| T ₁ | 30.3 | 10.2 | 10.5 | 12.0 | 23.7 | 25.3 | 83.6 |
| T ₂ | 31.4 | 11.6 | 13.3 | 14.3 | 27.6 | 37.0 | 84.0 |
| T ₃ | 30.7 | 11.5 | 13.8 | 14.1 | 27.7 | 32.3 | 83.8 |
| T ₄ | 29.8 | 11.0 | 13.3 | 13.1 | 30.3 | 36.7 | 84.0 |
| T ₅ | 30.0 | 10.4 | 12.3 | 12.8 | 29.9 | 29.3 | 83.5 |
| T ₆ | 31.0 | 10.5 | 12.5 | 13.7 | 28.0 | 30.0 | 84.1 |
| T ₇ | 31.2 | 11.5 | 13.6 | 13.5 | 31.7 | 33.0 | 84.4 |

| | | | | | | | |
|--------------|------|------|------|------|------|------|------|
| Mean | 30.6 | 11.0 | 12.7 | 13.4 | 28.4 | 32.0 | 83.9 |
| CD | 3.4 | 0.5 | 0.9 | 1.2 | 2.4 | 2.9 | 1.1 |
| CV (%) | 6.3 | 2.8 | 4.1 | 4.9 | 4.8 | 5.2 | 0.7 |
| Significance | N.S. | S | S | S | S | S | N.S. |

| Treatment | Fertilizers applied (Kg/ha) | | |
|-------------------------------|-----------------------------|-------------------------------|------------------|
| | N | P ₂ O ₅ | K ₂ O |
| T ₁ – Control | 0 | 0 | 0 |
| T ₂ – State RDF | 150 | 75 | 37.5 |
| T ₃ – DMR RDF | 120 | 60 | 40 |
| T ₄ – SSNM for NPK | 130 | 60 | 0 |
| T ₅ – SSNM for N | 0 | 60 | 0 |
| T ₆ – SSNM for P | 130 | 0 | 0 |
| T ₇ – SSNM for K | 130 | 60 | 0 |

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Table 32: Site specific nutrient management (SSNM) in rice-maize cropping sequence at Jorhat during Kharif 2009-10

| Treatment | Grain Yield of Rice (Kg/ha) | Straw Yield (Kg/ha) | No. of Tillers | No. of Ear Bearing Tillers | Plant Height (cm) |
|----------------|-----------------------------|---------------------|----------------|----------------------------|-------------------|
| T ₁ | 3355 | 7665 | 63.0 | 61.0 | 104.0 |
| T ₂ | 4322 | 10088 | 78.3 | 76.7 | 104.3 |
| T ₃ | 5699 | 14500 | 90.0 | 88.3 | 111.0 |
| T ₄ | 5463 | 12822 | 88.7 | 86.3 | 111.3 |
| T ₅ | 4799 | 9777 | 72.3 | 70.7 | 105.3 |
| T ₆ | 4366 | 9888 | 82.7 | 79.0 | 105.7 |
| T ₇ | 4533 | 11733 | 91.3 | 89.0 | 107.3 |
| Mean | 4648.0 | 10924.6 | 80.9 | 78.7 | 107.0 |
| CD | 1061.0 | 3355.1 | 13.8 | 12.0 | 8.4 |
| CV (%) | 12.8 | 17.3 | 9.6 | 8.6 | 4.4 |
| Significance | S | S | S | S | N.S. |

Treatment Details:

T₁ - Control-NPK @ 0:0:0

T₂ - State recommended dose- NPK@ 40:20:20

T₃ - National recommended dose-NPK @ 75:30:20

T₄ - SSNM - NPK @50.5:41:0

T₅ - SSNM

T₆ - SSNM for P2O5- NPK @50.5:0:0

T₇ - SSNM for K2O-NPK @ 50.5:41:0

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Table 33: Site Specific Nutrient Management (SSNM) in Rice-Maize system at Dholi.

| Treatment | N | P | K | Zn | Grain Yield (Kg/ha) | Stalk Weight (Kg/ha) | Days of 50% Silking |
|----------------|---------------|----|----|----|---------------------|----------------------|---------------------|
| T ₁ | No fertilizer | | | | 1358 | 3580 | 76.3 |
| T ₂ | 100 | 40 | 25 | 25 | 2642 | 8148 | 74.3 |
| T ₃ | 120 | 50 | 30 | 25 | 3037 | 9506 | 74.0 |
| T ₄ | 80 | 30 | 20 | 25 | 1877 | 7284 | 74.3 |
| T ₅ | 80 | 0 | 0 | 0 | 1852 | 7358 | 74.3 |
| T ₆ | 0 | 30 | 20 | 25 | 1457 | 5802 | 73.0 |
| T ₇ | 0 | 0 | 20 | 25 | 1136 | 3654 | 73.7 |

| | | | |
|--------------|--------|--------|------|
| Mean | 1908.3 | 6476.2 | 74.3 |
| CD | 583.1 | 1595.3 | 2.0 |
| CV (%) | 17.2 | 13.8 | 1.5 |
| Significance | S | S | N.S. |

Table 34: Site Specific Nutrient Management at Dholi.

| Treatment | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Days of 50% Silking | Plant Height (cm) |
|----------------|-------------------|-----------------------|----------------------|---------------------|-------------------|
| T ₁ | 2519 | 65.9 | 51.5 | 84.0 | 78.9 |
| T ₂ | 3630 | 64.1 | 58.5 | 74.7 | 73.1 |
| T ₃ | 4481 | 68.9 | 58.9 | 77.7 | 70.4 |
| T ₄ | 5167 | 68.5 | 65.2 | 74.7 | 70.3 |
| T ₅ | 3241 | 62.6 | 54.8 | 80.7 | 80.4 |
| T ₆ | 4778 | 69.3 | 68.9 | 77.0 | 72.7 |
| T ₇ | 6204 | 67.0 | 67.0 | 72.3 | 70.8 |

| | | | | | |
|--------------|--------|------|------|------|------|
| Mean | 4288.4 | 66.6 | 60.7 | 77.3 | 73.8 |
| CD | 1135.9 | 4.6 | 4.9 | 3.5 | 9.7 |
| CV (%) | 14.9 | 3.9 | 4.5 | 2.5 | 7.4 |
| Significance | S | N.S. | S | S | N.S. |

| Treatment | N | P | K | Zn |
|----------------|---------------|-----|----|----|
| T ₁ | No fertilizer | | | |
| T ₂ | 100 | 40 | 40 | 0 |
| T ₃ | 150 | 60 | 40 | 25 |
| T ₄ | 225 | 105 | 36 | 25 |
| T ₅ | 0 | 105 | 36 | 25 |
| T ₆ | 225 | 0 | 36 | 25 |
| T ₇ | 225 | 105 | 0 | 25 |

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Table 35: Site specific nutrient management in maize based cropping system (Rice-Maize system) at Hyderabad.

| Treatment | Grain Yield (Kg/ha) | Fodder Yield (Kg/ha) | Effective Tillers/m ² | Panicles/m ² | Grains/Panicle | Plant Height (cm) |
|----------------|---------------------|----------------------|----------------------------------|-------------------------|----------------|-------------------|
| T ₁ | 3626 | 4281 | 205.7 | 204.0 | 118.2 | 93.0 |
| T ₂ | 5311 | 6833 | 287.7 | 218.7 | 126.0 | 98.7 |
| T ₃ | 6041 | 7852 | 316.0 | 303.3 | 142.2 | 101.7 |
| T ₄ | 6817 | 7315 | 376.7 | 362.3 | 154.0 | 107.0 |
| T ₅ | 3667 | 4907 | 240.0 | 199.0 | 117.3 | 93.7 |
| T ₆ | 4930 | 5833 | 285.7 | 258.7 | 133.8 | 98.7 |
| T ₇ | 4811 | 6056 | 254.7 | 241.0 | 120.6 | 100.7 |
| Mean | 5028.8 | 6154.0 | 280.9 | 255.3 | 130.3 | 99.0 |
| CD | 593.2 | 830.4 | 36.5 | 31.8 | 13.9 | 4.9 |
| CV (%) | 6.6 | 7.6 | 7.3 | 7.0 | 6.0 | 2.8 |
| Significance | S | S | S | S | S | S |

| Treatments | Kharif (Rice) | Rabi (Maize) |
|----------------|--|--|
| T ₁ | Control (no fertilizers) | Control (no fertilizers) |
| T ₂ | State recommendations of nutrients for each crop | State recommendations of nutrients for each crop |
| T ₃ | N+ P2O5+ K2O+ZnSO4, 150 + 60+ 40 + 25 kg/ha | N+ P2O5+ K2O+ZnSO4, 150 + 60+ 40 + 25 kg/ha |
| T ₄ | N+ P2O5+ K2O+ZnSO4, 226 + 13+ 0 + 25 kg/ha | N+ P2O5+ K2O+ZnSO4, 272 + 0 + 0 + 25 kg/ha |
| T ₅ | P2O5+ K2O+ZnSO4, 13+ 0 + 25 kg/ha | P2O5+ K2O+ZnSO4, 0 + 0 + 25 kg/ha |
| T ₆ | N+ K2O+ZnSO4, 226 + 0 + 25 kg/ha | N+ K2O+ZnSO4, 272 + 0 + 25 kg/ha |
| T ₇ | N+ P2O5 +ZnSO4, 226 + 13+ 25 kg/ha | N+ P2O5 +ZnSO4, 272 + 0 + 25 kg/ha |

Table 36: Site-Specific Nutrient Management in rice-maize cropping system at Banswara.

| Treatment | Grain Yield (Kg/ha) |
|---|---------------------|
| T ₁ : Control | 2356 |
| T ₂ : State rec. of nutrient for rice (120+60+40kg N+P2O5+K2O) | 5756 |
| T ₃ : N+P2O5+K2O+ZnSO4 (120+60+40+25 kg/ha) | 6011 |
| T ₄ : N+P2O5+K2O+ZnSO4 (142+37+0+25 kg/ha) | 5356 |
| T ₅ : P2O5+K2O+ZnSO4 (37+0+25 kg/ha) | 2644 |
| T ₆ : N+ K2O +ZnSO4 (142+0+25 kg/ha) | 4289 |
| T ₇ : N+ P2O5+ZnSO4 (142+37+25 kg/ha) | 5289 |
| Mean | 4528.6 |
| CD | 388.1 |
| CV (%) | 4.8 |
| Significance | S |

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Table 37: Site specific nutrient management for realizing potential yield in maize at Ranchi

| Treatment | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Ear Height (cm) |
|----------------|---------------------|-------------------|----------------------|-----------------------|----------------------|-------------------|-----------------|
| T ₁ | 1169 | 1462 | 4431 | 63.6 | 34.4 | 159.1 | 53.3 |
| T ₂ | 4729 | 5578 | 8576 | 65.3 | 60.2 | 234.5 | 72.2 |
| T ₃ | 5076 | 5987 | 8911 | 65.3 | 62.4 | 247.1 | 77.3 |
| T ₄ | 5687 | 6693 | 9896 | 64.7 | 61.3 | 260.4 | 86.4 |
| T ₅ | 1771 | 2184 | 5249 | 64.7 | 38.9 | 172.8 | 59.9 |
| T ₆ | 4636 | 5469 | 8244 | 64.2 | 60.4 | 230.9 | 82.3 |
| T ₇ | 5336 | 6280 | 9462 | 65.6 | 61.6 | 255.5 | 83.2 |

| | | | | | | | |
|--------------|--------|--------|--------|------|------|-------|------|
| Mean | 4057.5 | 4807.6 | 7824.1 | 64.8 | 54.2 | 222.9 | 73.5 |
| CD | 716.9 | 787.2 | 1275.3 | 4.8 | 5.0 | 24.4 | 8.8 |
| CV (%) | 9.9 | 9.2 | 9.2 | 4.2 | 5.2 | 6.2 | 6.7 |
| Significance | S | S | S | N.S. | S | S | S |

| Treatment | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels/Row | Test Weight (g) 100 Grain | Shelling (%) |
|----------------|----------------|-----------------|-----------------|--------------------|---------------------------|--------------|
| T ₁ | 9.9 | 10.1 | 9.9 | 20.1 | 23.3 | 79.9 |
| T ₂ | 12.9 | 15.1 | 12.7 | 32.5 | 30.5 | 84.8 |
| T ₃ | 13.1 | 15.5 | 12.8 | 33.8 | 31.0 | 84.8 |
| T ₄ | 14.1 | 16.4 | 13.7 | 35.8 | 33.3 | 84.9 |
| T ₅ | 11.9 | 13.7 | 11.7 | 27.7 | 26.4 | 81.0 |
| T ₆ | 12.7 | 15.0 | 12.4 | 32.1 | 29.8 | 84.7 |
| T ₇ | 13.4 | 16.2 | 13.1 | 34.9 | 32.3 | 84.9 |

| | | | | | | |
|--------------|------|------|------|------|------|------|
| Mean | 12.6 | 14.6 | 12.3 | 31.0 | 29.5 | 83.6 |
| CD | 1.1 | 1.2 | 1.0 | 3.2 | 2.9 | 2.4 |
| CV (%) | 5.0 | 4.5 | 4.8 | 5.8 | 5.5 | 1.6 |
| Significance | S | S | S | S | S | S |

Treatment Details:

- T₁ Control (no fertilizer)
- T₂ State recommendation of nutrients (120:60:40 kg N:P₂O₅:K₂O/ha)
- T₃ Improved nutrient recommendation (150:60:40 kg N:P₂O₅:K₂O/ha)
- T₄ Site specific nutrient management (208:107:86:25 kg N:P₂O₅:K₂O:ZnSO₄ /ha)
- T₅ SSNM-nitrogen (107:86:25 kg P₂O₅:K₂O:ZnSO₄ /ha)
- T₆ SSNM-Phosphorus (208:86:25 kg N:K₂O:ZnSO₄ /ha)
- T₇ SSNM-Potash (208:107:25 kg N:P₂O₅:ZnSO₄ /ha)

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Table 38: Impact of site specific nutrient management on productivity of quality protein maize at Udaipur.

| Treatment | Grain Yield (Kg/ha) | Stover Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | No. of Cobs/Plant |
|----------------|---------------------|----------------------|-----------------------|----------------------|-------------------|
| T ₁ | 3783 | 5549 | 64.5 | 63.0 | 1.0 |
| T ₂ | 4520 | 6859 | 64.5 | 63.7 | 1.0 |
| T ₃ | 4610 | 7022 | 64.7 | 64.7 | 1.0 |
| T ₄ | 5258 | 8131 | 64.7 | 65.3 | 1.0 |
| T ₅ | 3866 | 5610 | 64.5 | 58.5 | 0.9 |
| T ₆ | 4543 | 6592 | 64.5 | 62.8 | 1.0 |
| T ₇ | 4477 | 6629 | 64.2 | 63.7 | 1.0 |

| | | | | | |
|--------------|--------|--------|------|------|-----|
| Mean | 4436.6 | 6627.3 | 64.5 | 63.1 | 1.0 |
| CD | 466.4 | 745.1 | 2.5 | 2.6 | 0.0 |
| CV (%) | 7.1 | 7.6 | 2.7 | 2.8 | 0.7 |
| Significance | S | S | N.S. | S | S |

Treatments Details:

| | |
|--|---|
| T ₁ - Control | (No fertilizer) |
| T ₂ - State Recommended dose of fertilizer | (115 Kg N+ 40 kg P2O5 + 30 K2O) |
| T ₃ - National Recommended dose of fertilizer | (150 kg N + 60 kg P2O5 + 40 Kg K2O + 25 Kg Zinc sulphate) |
| T ₄ - SSNM* | (229 kg N + 72 kg P2O5+00 kg K2) + 25 kg Z inc Sulphate) |
| T ₅ - SSNM Nitrogen | (00 kg N+ 72 kg P2O5+00 kg k2O+ 25 kg Zinc Sulphate) |
| T ₆ - SSNM Phosphorus | (229 kg N+ 00 kg P2O5+00 kg K2O + 25 kg Zinc Sulphate) |
| T ₇ - SSNM Potassium | (229 kg N +72 Kg P2O5 +00 kg K2o + 25 Kg Zinc sulphate) |

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Table 39: Production potential of Sweet Corn cultivar 'BAJAURA SWEET CORN' under different plant spacing & nutrient management at Bajaura.

| Main Plot Spacing | Sub Plot NM | Grain Yield (Kg/ha) | Green Cob Yield (Kg/ha) | Plant Stand ('000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Sugar Content (%) |
|-------------------|----------------|---------------------|-------------------------|-----------------------|----------------------|-------------------|-------------------|
| S ₁ | F ₁ | 3719 | 15386 | 80.8 | 70.3 | 170.1 | 28.1 |
| | F ₂ | 2470 | 16841 | 113.3 | 84.4 | 170.6 | 28.1 |
| | F ₃ | 3603 | 16149 | 79.7 | 70.3 | 182.1 | 27.5 |
| | F ₄ | 3000 | 21015 | 108.1 | 83.1 | 168.4 | 28.2 |
| S ₂ | F ₁ | 4757 | 18685 | 81.1 | 75.0 | 180.4 | 27.5 |
| | F ₂ | 4613 | 22370 | 107.7 | 93.6 | 188.3 | 26.5 |
| | F ₃ | 5156 | 20151 | 83.3 | 79.4 | 179.0 | 30.6 |
| | F ₄ | 5504 | 22968 | 115.6 | 105.3 | 180.5 | 27.8 |

| | | | | | | |
|------------------|--------|---------|------|------|-------|------|
| Mean of location | 4102.8 | 19195.5 | 96.2 | 82.7 | 177.4 | 28.0 |
| C.D. at 5 % | 563.6 | 1140.8 | 4.9 | 5.4 | 11.0 | 3.3 |
| F | s | s | s | s | n.s. | n.s. |

| | | | | | | |
|----------------|------|-------|------|------|-------|------|
| S ₁ | 3198 | 17348 | 95.5 | 77.0 | 172.8 | 28.0 |
| S ₂ | 5008 | 21043 | 96.9 | 88.3 | 182.1 | 28.1 |

| | | | | | | |
|-------------|-------|-------|------|-----|-----|------|
| C.D. at 5 % | 281.8 | 570.4 | 2.5 | 2.7 | 5.5 | 1.6 |
| F | s | s | n.s. | s | s | n.s. |

| | | | | | | |
|----------------|------|-------|-------|------|-------|------|
| F ₁ | 4238 | 17035 | 81.0 | 72.6 | 175.3 | 27.8 |
| F ₂ | 3541 | 19606 | 110.5 | 89.0 | 179.5 | 27.3 |
| F ₃ | 4380 | 18150 | 81.5 | 74.9 | 180.6 | 29.1 |
| F ₄ | 4252 | 21991 | 111.8 | 94.2 | 174.4 | 28.0 |

| | | | | | | |
|-------------|-------|-------|-----|-----|------|------|
| C.D. at 5 % | 398.5 | 806.7 | 3.5 | 3.8 | 7.8 | 2.3 |
| C.V. % | 7.8 | 3.4 | 2.9 | 3.7 | 3.5 | 6.7 |
| F | s | s | s | s | n.s. | n.s. |

Treatment Details:

Plant spacing:

S₁ = 60x20 cm

S₂ = 45x20 cm

Nutrient management:

F₁ = Vermicompost @ 5 tons/ha

F₂ = Vermicompost @ 10 tons/ha

F₃ = 50 % RD of NPK + Vermicompost 5 tons/ha

F₄ = Recommended NPK (90:45:30)

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Table 40: Production potential of Pop Corn cultivar 'BAJAURA POP CORN' under different plant spacing & nutrient management at Bajaura.

| Main Plot Spacing | Sub Plot NM | Grain Yield (Kg/ha) | Plant Stand ('000/ha) | No. of Cobs (000/ha) | Plant Height (cm) |
|-------------------|----------------|---------------------|-----------------------|----------------------|-------------------|
| S ₁ | F ₁ | 4234 | 78.3 | 72.8 | 227.7 |
| | F ₂ | 4738 | 109.2 | 95.8 | 205.0 |
| | F ₃ | 4057 | 80.6 | 71.9 | 206.3 |
| | F ₄ | 4061 | 107.2 | 101.9 | 209.7 |
| S ₂ | F ₁ | 5403 | 78.3 | 79.4 | 209.3 |
| | F ₂ | 6035 | 111.4 | 103.6 | 211.3 |
| | F ₃ | 6174 | 79.4 | 81.4 | 216.3 |
| | F ₄ | 7259 | 114.2 | 112.8 | 230.0 |

| | | | | |
|------------------|--------|------|------|-------|
| Mean of location | 5244.9 | 94.8 | 90.0 | 214.5 |
| C.D. at 5 % | 611.8 | 4.6 | 6.3 | 14.1 |
| F | s | n.s. | n.s. | s |

| | | | | |
|----------------|------|------|------|-------|
| S ₁ | 4272 | 93.8 | 85.6 | 212.2 |
| S ₂ | 6218 | 95.8 | 94.3 | 216.8 |

| | | | | |
|-------------|-------|------|-----|------|
| C.D. at 5 % | 305.9 | 2.3 | 3.2 | 7.1 |
| F | s | n.s. | s | n.s. |

| | | | | |
|----------------|------|-------|-------|-------|
| F ₁ | 4818 | 78.3 | 76.1 | 218.5 |
| F ₂ | 5386 | 110.3 | 99.7 | 208.2 |
| F ₃ | 5115 | 80.0 | 76.7 | 211.3 |
| F ₄ | 5660 | 110.7 | 107.4 | 219.8 |

| | | | | |
|-------------|-------|-----|-----|------|
| C.D. at 5 % | 432.6 | 3.3 | 4.5 | 10.0 |
| C.V. % | 6.7 | 2.8 | 4.0 | 3.8 |
| F | s | s | s | n.s. |

Treatment Details:

Plant spacing:

S₁ = 60x20 cm

S₂ = 45x20 cm

Nutrient management:

F₁ = Vermicompost @ 5 tons/ha

F₂ = Vermicompost @ 10 tons/ha

F₃ = 50 % RD of NPK + Vermicompost 5 tons/ha

F₄ = Recommended NPK (90:45:30)

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Table 41: Production potential of Baby Corn under different plant spacing & nutrient management at Bajaura.

| Main Plot Spacing | Sub Plot NM | Babycorn Yield (kg/ha) | Cob Yield with Husk (Kg/ha) | Green Fodder Yield (Kg/ha) | Discarded Baby Corn Yield (kg/ha) | No. of Plant (000/ha) | No. of Cobs ('000/ha) | Plant Height (cm) | Barrenness (%) |
|-------------------|----------------|------------------------|-----------------------------|----------------------------|-----------------------------------|-----------------------|-----------------------|-------------------|----------------|
| S ₁ | F ₁ | 902 | 5209 | 19166 | 176 | 108.1 | 228.1 | 154.9 | 1.6 |
| | F ₂ | 829 | 4668 | 21111 | 189 | 116.7 | 210.3 | 146.3 | 1.4 |
| | F ₃ | 1096 | 5888 | 20278 | 154 | 108.3 | 246.1 | 155.8 | 0.9 |
| | F ₄ | 981 | 4532 | 18611 | 191 | 116.7 | 215.8 | 152.9 | 1.6 |
| S ₂ | F ₁ | 1261 | 6611 | 20833 | 214 | 108.3 | 271.9 | 163.0 | 1.2 |
| | F ₂ | 1351 | 6352 | 23055 | 252 | 116.7 | 270.3 | 161.4 | 2.4 |
| | F ₃ | 1646 | 8204 | 23056 | 188 | 108.3 | 335.6 | 165.7 | 1.8 |
| | F ₄ | 1701 | 8212 | 23889 | 172 | 132.2 | 290.6 | 170.7 | 0.7 |

| | | | | | | | | |
|------------------|--------|--------|---------|-------|-------|-------|-------|------|
| Mean of location | 1220.9 | 6209.6 | 21249.9 | 192.1 | 114.4 | 258.6 | 158.8 | 1.4 |
| C.D. at 5 % | 205.3 | 645.9 | 1456.4 | 17.2 | 19.0 | 13.7 | 7.8 | 1.4 |
| F | n.s. | s | s | s | n.s. | s | n.s. | n.s. |

| | | | | | | | | |
|----------------|------|------|-------|-----|-------|-------|-------|-----|
| S ₁ | 952 | 5074 | 19792 | 177 | 112.4 | 225.1 | 152.5 | 1.4 |
| S ₂ | 1490 | 7345 | 22708 | 207 | 116.4 | 292.1 | 165.2 | 1.5 |

| | | | | | | | | |
|-------------|-------|-------|-------|-----|------|-----|-----|------|
| C.D. at 5 % | 102.6 | 323.0 | 728.2 | 8.6 | 9.5 | 6.9 | 3.9 | 0.7 |
| F | s | s | s | s | n.s. | s | s | n.s. |

| | | | | | | | | |
|----------------|------|------|-------|-----|-------|-------|-------|-----|
| F ₁ | 1082 | 5910 | 20000 | 195 | 108.2 | 250.0 | 158.9 | 1.4 |
| F ₂ | 1090 | 5510 | 22083 | 221 | 116.7 | 240.3 | 153.9 | 1.9 |
| F ₃ | 1371 | 7046 | 21667 | 171 | 108.3 | 290.8 | 160.8 | 1.4 |
| F ₄ | 1341 | 6372 | 21250 | 182 | 124.4 | 253.2 | 161.8 | 1.2 |

| | | | | | | | | |
|-------------|-------|-------|--------|------|------|-----|-----|------|
| C.D. at 5 % | 145.2 | 456.7 | 1029.8 | 12.2 | 13.5 | 9.7 | 5.5 | 1.0 |
| C.V. % | 9.6 | 5.9 | 3.9 | 5.1 | 9.5 | 3.0 | 2.8 | 56.8 |
| F | s | s | s | s | n.s. | s | s | n.s. |

Treatment Details:

Main Plot

Plant spacing:

S₁= 60x20 cm

S₂= 45x20 cm

Sub Plot

Nutrient management:

F₁= Vermicompost @ 5 tons/ha

F₂= Vermicompost @ 10 tons/ha

F₃= 50 % RD of NPK + Vermicompost 5 tons/ha

F₄= Recommended NPK (90:45:30)

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Table 42: Integrated Nutrient Management in Baby Corn in Udhampur.

| Treatment RD - 150:60::40 (Kg/ha) | Baby Corn Yield (Kg/ha) | Cob Yield With Husk (Kg/ha) | Green Fodder (Kg/ha) | Plant Stand (000/ha) | Plant Height (cm) |
|--------------------------------------|-------------------------------|-----------------------------------|----------------------------|----------------------------|-------------------------|
| T ₁ - Control | 775 | 4559 | 21221 | 83.0 | 150.2 |
| T ₂ - 50% RD | 846 | 7714 | 37145 | 84.1 | 155.7 |
| T ₃ - 100% RD | 1003 | 6014 | 18380 | 84.5 | 156.9 |
| T ₄ - 150% RD | 1644 | 10528 | 51351 | 85.0 | 158.9 |
| T ₅ - 50% RD+ 5 Ton FYM | 1289 | 7586 | 34532 | 83.7 | 156.3 |
| T ₆ - 100% RD + 5 Ton FYM | 922 | 5437 | 26024 | 83.8 | 160.4 |
| T ₇ - 150% RD + 5 Ton FYM | 1414 | 8361 | 44330 | 84.2 | 162.6 |
| Mean | 1127.6 | 7171.3 | 33283.2 | 84.0 | 157.3 |
| CD | 426.8 | 627.0 | 9330.6 | 2.7 | 5.0 |
| CV (%) | 21.3 | 4.9 | 15.8 | 1.8 | 1.8 |
| Significance | S | S | S | N.S. | S |

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Table 43: Integrated nutrient management in Baby corn at Srinagar.

| Organic Sources | Fertilizer Levels | Husked Baby Corn Yield (Kg/ha) | Dehusked Baby Corn Yield In (Kg/ha) | Green Fodder Yield (Kg/ha) | No. of Plants (000/ha) | No of Cobs (000/ha) | Plant Height (cm) | Cob Length (cm) | Cob Girth (cm) |
|------------------|-------------------|--------------------------------|-------------------------------------|----------------------------|------------------------|---------------------|-------------------|-----------------|----------------|
| N ₀ | F ₁ | 7203 | 1233 | 27333 | 98.3 | 194.5 | 185.7 | 20.5 | 7.1 |
| | F ₂ | 7618 | 1505 | 29167 | 98.9 | 204.4 | 194.5 | 22.1 | 7.8 |
| | F ₃ | 8020 | 1628 | 30900 | 99.6 | 207.8 | 199.9 | 23.0 | 8.2 |
| N ₁ | F ₁ | 7569 | 1425 | 31600 | 98.6 | 214.5 | 192.3 | 21.5 | 8.0 |
| | F ₂ | 8202 | 1722 | 33200 | 98.6 | 230.9 | 199.9 | 24.0 | 8.3 |
| | F ₃ | 8466 | 1880 | 34167 | 98.6 | 237.9 | 206.5 | 24.9 | 8.6 |
| Mean of location | | 7846.2 | 1565.8 | 31061.1 | 98.8 | 215.0 | 196.5 | 22.7 | 8.0 |
| C.D. at 5 % | | 265.1 | 52.2 | 1077.1 | 1.0 | 6.2 | 2.0 | 1.1 | 0.3 |
| F | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| N ₀ | | 7614 | 1456 | 29133 | 98.9 | 202.2 | 193.4 | 21.9 | 7.7 |
| N ₁ | | 8079 | 1676 | 32989 | 98.6 | 227.8 | 199.6 | 23.5 | 8.3 |
| C.D. at 5 % | | 153.0 | 30.1 | 621.9 | 0.6 | 3.6 | 1.1 | 0.7 | 0.2 |
| F | | s | s | s | n.s. | s | s | s | s |
| F ₁ | | 7386 | 1329 | 29467 | 98.5 | 204.5 | 189.0 | 21.0 | 7.6 |
| F ₂ | | 7910 | 1614 | 31183 | 98.8 | 217.6 | 197.2 | 23.1 | 8.1 |
| F ₃ | | 8243 | 1754 | 32533 | 99.1 | 222.9 | 203.2 | 24.0 | 8.4 |
| C.D. at 5 % | | 187.4 | 36.9 | 761.6 | 0.7 | 4.4 | 1.4 | 0.8 | 0.2 |
| C.V. % | | 1.9 | 1.8 | 1.9 | 0.6 | 1.6 | 0.5 | 2.7 | 2.0 |
| F | | s | s | s | n.s. | s | s | s | s |

Treatment details

Factor(A)

Organic sources-2,

N₀ - No FYM

N₁ - FYM@10 t/ha-1

FACTOR (B)

Fertilizer levels-3

F₁ - (50N, 60 P2O5, 30K20 kg/ha)

F₂ - (100N, 60 P2O5, 30K20 kg/ha)

F₃. (150N, 60P2O5, 30K2O kg/ha)

A - 96 (a)

Table 44: Integrated Nutrient Management (INM) in specialty corn - Baby Corn at Arbhavi.

| Main Plot (Organic Source) | Sub Plot (Fertility Levels) | Baby Corn Yield With husk (Kg/ha) | Baby Corn Yield Without Husk (Kg/ha) | Rejected Baby Corn Yield (Kg/ha) | Green Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No of Baby Corn (000/ha) |
|----------------------------|-----------------------------|-----------------------------------|--------------------------------------|----------------------------------|----------------------------|-----------------------|--------------------------|
| O ₁ | F ₁ | 6979 | 2288 | 163 | 22917 | 66.7 | 118.4 |
| | F ₂ | 6552 | 2295 | 116 | 23611 | 67.4 | 115.3 |
| | F ₃ | 7441 | 2665 | 236 | 23785 | 68.8 | 108.7 |
| | F ₄ | 6625 | 2681 | 151 | 24653 | 78.5 | 118.8 |
| O ₂ | F ₁ | 6813 | 2847 | 219 | 23958 | 70.8 | 94.4 |
| | F ₂ | 6813 | 2415 | 208 | 24583 | 72.6 | 122.9 |
| | F ₃ | 7097 | 2528 | 104 | 22396 | 69.1 | 115.3 |
| | F ₄ | 7271 | 2830 | 135 | 23958 | 69.4 | 105.2 |
| O ₃ | F ₁ | 6319 | 2323 | 111 | 23264 | 69.4 | 114.6 |
| | F ₂ | 6229 | 3069 | 177 | 22847 | 66.0 | 116.0 |
| | F ₃ | 6559 | 2484 | 139 | 22917 | 67.7 | 99.0 |
| | F ₄ | 6347 | 2938 | 274 | 26910 | 70.1 | 135.8 |

| | | | | | | |
|--------------------|--------|--------|-------|---------|------|-------|
| Location mean | 6753.8 | 2613.6 | 169.6 | 23816.6 | 69.7 | 113.7 |
| C.D.(5%) AiBj-AiBk | 730.0 | 505.1 | 192.8 | 3621.9 | 8.2 | 28.8 |
| C.D.(5%) AiBk-AjBk | 934.3 | 614.5 | 217.4 | 4262.5 | 10.8 | 37.6 |
| F(5%) | n.s. | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------|------|------|-----|-------|------|-------|
| O ₁ | 6899 | 2482 | 167 | 23741 | 70.3 | 115.3 |
| O ₂ | 6998 | 2655 | 167 | 23724 | 70.5 | 109.5 |
| O ₃ | 6364 | 2704 | 175 | 23984 | 68.3 | 116.3 |

| | | | | | | |
|-----------------|-------|-------|-------|--------|------|------|
| C.D.(5%) Ai-Aj | 700.2 | 439.9 | 142.3 | 2944.7 | 8.3 | 28.7 |
| C.V.(%) Error A | 9.1 | 14.9 | 74.1 | 10.9 | 10.6 | 22.2 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------|------|------|-----|-------|------|-------|
| F ₁ | 6704 | 2486 | 164 | 23380 | 69.0 | 109.1 |
| F ₂ | 6531 | 2593 | 167 | 23681 | 68.6 | 118.1 |
| F ₃ | 7032 | 2559 | 160 | 23032 | 68.5 | 107.6 |
| F ₄ | 6748 | 2816 | 187 | 25174 | 72.7 | 119.9 |

| | | | | | | |
|---------------|-------|-------|-------|--------|------|------|
| C.D.(5%)Bi-Bj | 421.5 | 291.6 | 111.3 | 2091.1 | 4.7 | 16.6 |
| C.V.(%)ErrorB | 6.3 | 11.3 | 66.3 | 8.9 | 6.8 | 14.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

*Treatment Details is on next page

Cont...

A - 96 (b)

| Main Plot (Organic Source) | Sub Plot (Fertility Levels) | Plant Height (cm) | Baby Corn Placement (cm) | Baby Corn Diameter (cm) | Baby Corn Length (cm) | No. of Leaves/Plant | Stem Diameter (cm) |
|-------------------------------|--------------------------------|-------------------|--------------------------|-------------------------|-----------------------|---------------------|--------------------|
| O ₁ | F ₁ | 158.7 | 81.0 | 1.3 | 7.2 | 11.6 | 1.7 |
| | F ₂ | 152.7 | 81.7 | 1.4 | 8.2 | 12.3 | 1.6 |
| | F ₃ | 156.7 | 79.7 | 1.1 | 7.3 | 11.5 | 1.6 |
| | F ₄ | 162.3 | 82.3 | 1.2 | 7.6 | 11.1 | 1.6 |
| O ₂ | F ₁ | 173.0 | 84.0 | 1.3 | 7.1 | 11.5 | 1.7 |
| | F ₂ | 166.0 | 81.3 | 1.2 | 7.0 | 10.7 | 1.7 |
| | F ₃ | 166.7 | 82.3 | 1.2 | 7.1 | 11.4 | 1.7 |
| | F ₄ | 170.0 | 82.7 | 1.4 | 7.7 | 11.1 | 1.6 |
| O ₃ | F ₁ | 166.7 | 82.7 | 1.3 | 8.3 | 11.3 | 1.6 |
| | F ₂ | 164.7 | 81.3 | 1.3 | 7.6 | 10.9 | 1.6 |
| | F ₃ | 165.3 | 84.3 | 1.3 | 7.4 | 11.1 | 1.7 |
| | F ₄ | 161.7 | 79.3 | 1.3 | 8.2 | 11.0 | 1.7 |

| | | | | | | |
|--------------------|-------|------|------|-----|------|------|
| Location mean | 163.7 | 81.9 | 1.3 | 7.6 | 11.3 | 1.6 |
| C.D.(5%) AiBj-AiBk | 10.5 | 5.6 | 0.3 | 0.6 | 0.9 | 0.2 |
| C.D.(5%) AiBk-AjBk | 11.1 | 5.6 | 0.2 | 0.6 | 1.0 | 0.2 |
| F(5%) | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | |
|----------------|-------|------|-----|-----|------|-----|
| O ₁ | 157.6 | 81.2 | 1.3 | 7.6 | 11.6 | 1.6 |
| O ₂ | 168.9 | 82.6 | 1.3 | 7.2 | 11.2 | 1.7 |
| O ₃ | 164.6 | 81.9 | 1.3 | 7.9 | 11.1 | 1.7 |

| | | | | | | |
|-----------------|-----|------|------|-----|------|------|
| C.D.(5%) Ai-Aj | 6.5 | 2.9 | 0.1 | 0.3 | 0.7 | 0.1 |
| C.V.(%) Error A | 3.5 | 3.1 | 8.6 | 3.7 | 5.4 | 5.1 |
| F(5%) | s | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | |
|----------------|-------|------|-----|-----|------|-----|
| F ₁ | 166.1 | 82.6 | 1.3 | 7.5 | 11.4 | 1.6 |
| F ₂ | 161.1 | 81.4 | 1.3 | 7.6 | 11.3 | 1.6 |
| F ₃ | 162.9 | 82.1 | 1.2 | 7.3 | 11.4 | 1.7 |
| F ₄ | 164.7 | 81.4 | 1.3 | 7.8 | 11.1 | 1.7 |

| | | | | | | |
|---------------|------|------|------|-----|------|------|
| C.D.(5%)Bi-Bj | 6.1 | 3.3 | 0.1 | 0.4 | 0.5 | 0.1 |
| C.V.(%)ErrorB | 3.7 | 4.0 | 11.5 | 4.7 | 4.7 | 5.7 |
| F(5%) | n.s. | n.s. | n.s. | s | n.s. | n.s. |

Treatment Details:

Main Plot

Organic Source

- O₁ No FYM
- O₂ FYM @ 6 t ha⁻¹
- O₃ FYM @ 10 t ha⁻¹

Sub Plot

Fertilizer Levels

- F₁ 150:75:37.5 kg
- F₂ 150:60:40 kg (DMR 100%)
- F₃ 187.5:75:50 (125% RDF)
- F₄ 225.0:90:60 (150% RDF)

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Table 45: Integrated nutrient management in specialty corn (Baby Corn) at Chhindwara.

| Main Plot | Sub Plot | Green Fodder Yield (Kg/ha) | Green Baby Corn Yield (Kg/ha) | No. of Plant (000/ha) | No of Cobs (000/ha) | Days to 50% Silking | Plant Height (cm) |
|----------------|----------------|----------------------------|-------------------------------|-----------------------|---------------------|---------------------|-------------------|
| F ₀ | N ₁ | 21889 | 1366 | 124.4 | 119.3 | 55.0 | 164.0 |
| | N ₂ | 22444 | 1528 | 126.3 | 124.1 | 55.3 | 172.0 |
| | N ₃ | 23667 | 1594 | 128.1 | 125.9 | 54.0 | 173.0 |
| | N ₄ | 25222 | 1633 | 129.6 | 127.8 | 53.7 | 178.3 |
| F ₁ | N ₁ | 22333 | 1503 | 125.6 | 121.5 | 55.7 | 170.3 |
| | N ₂ | 23630 | 1574 | 126.7 | 124.8 | 54.3 | 172.3 |
| | N ₃ | 24148 | 1604 | 128.9 | 126.3 | 55.0 | 174.0 |
| | N ₄ | 26000 | 1681 | 134.8 | 129.3 | 53.7 | 179.3 |

| | | | | | | |
|------------------|---------|--------|-------|-------|------|-------|
| Mean of location | 23666.7 | 1560.6 | 128.1 | 124.9 | 54.6 | 172.9 |
| C.D. at 5 % | 4380.7 | 500.0 | 4.7 | 6.8 | 2.3 | 13.2 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------|-------|------|-------|-------|------|-------|
| F ₀ | 23306 | 1530 | 127.1 | 124.3 | 54.5 | 171.8 |
| F ₁ | 24028 | 1591 | 129.0 | 125.5 | 54.7 | 174.0 |

| | | | | | | |
|-------------|--------|-------|------|------|------|------|
| C.D. at 5 % | 2190.3 | 250.0 | 2.3 | 3.4 | 1.1 | 6.6 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------|-------|------|-------|-------|------|-------|
| N ₁ | 22111 | 1435 | 125.0 | 120.4 | 55.3 | 167.2 |
| N ₂ | 23037 | 1551 | 126.5 | 124.4 | 54.8 | 172.2 |
| N ₃ | 23907 | 1599 | 128.5 | 126.1 | 54.5 | 173.5 |
| N ₄ | 25611 | 1657 | 132.2 | 128.5 | 53.7 | 178.8 |

| | | | | | | |
|-------------|--------|-------|-----|-----|------|------|
| C.D. at 5 % | 3097.6 | 353.5 | 3.3 | 4.8 | 1.6 | 9.3 |
| C.V. % | 10.6 | 18.3 | 2.1 | 3.1 | 2.4 | 4.4 |
| F | n.s. | n.s. | s | s | n.s. | n.s. |

Main Plot

| | |
|----------------|-------------------|
| F ₀ | No FYM |
| F ₁ | With 6 ton/ha FYM |

Sub Plot

| | |
|----------------|---|
| N ₁ | *State dose of Fertilizer applied: N120 : P60 and K40 Kg/ha |
| N ₂ | **Recommended dose of Fertilizer applied : N150 : P60 and K40 Kg/ha |
| N ₃ | *** 125 % Recommended dose of Fertilizer applied |
| N ₄ | ****150 % Recommended dose of Fertilizer applied |

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Table 46: Integrated Nutrient Management (INM) in specialty corn - Sweet Corn at Arbhavi.

| Main Plot (Organic Source) | Sub Plot (Fertility Levels) | Cob Yield (Kg/ha) | Green Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Cob Girth (Cm) | Cob Length (cm) |
|----------------------------|-----------------------------|-------------------|----------------------------|-----------------------|----------------------|-------------------|----------------|-----------------|
| O ₁ | F ₁ | 3229 | 3542 | 59.7 | 58.3 | 181.9 | 7.9 | 9.6 |
| | F ₂ | 3281 | 3177 | 59.4 | 59.4 | 187.0 | 6.8 | 8.6 |
| | F ₃ | 2865 | 3646 | 58.3 | 58.0 | 185.1 | 8.5 | 10.3 |
| | F ₄ | 2656 | 3281 | 68.8 | 68.4 | 185.1 | 8.0 | 9.3 |
| O ₂ | F ₁ | 2500 | 2500 | 55.9 | 55.9 | 186.4 | 7.0 | 7.7 |
| | F ₂ | 2344 | 3021 | 58.0 | 57.6 | 182.4 | 8.5 | 9.6 |
| | F ₃ | 3333 | 2865 | 54.9 | 53.8 | 179.8 | 8.1 | 9.8 |
| | F ₄ | 3177 | 3385 | 63.2 | 62.5 | 181.8 | 8.2 | 8.9 |
| O ₃ | F ₁ | 2500 | 2760 | 68.8 | 68.8 | 187.0 | 9.4 | 9.5 |
| | F ₂ | 2604 | 2604 | 68.4 | 68.1 | 183.8 | 9.1 | 9.7 |
| | F ₃ | 3073 | 2865 | 64.6 | 64.6 | 183.3 | 8.3 | 9.9 |
| | F ₄ | 2448 | 3229 | 74.7 | 71.2 | 185.1 | 8.0 | 9.1 |

| | | | | | | | |
|--------------------|--------|--------|------|------|-------|-----|-----|
| Location mean | 2834.2 | 3072.9 | 62.9 | 62.2 | 184.1 | 8.1 | 9.3 |
| C.D.(5%) AiBj-AiBk | 218.3 | 404.0 | 6.7 | 5.2 | 5.3 | 0.6 | 0.7 |
| C.D.(5%) AiBk-AjBk | 277.4 | 387.2 | 10.6 | 8.7 | 5.8 | 0.6 | 0.6 |
| F(5%) | s | s | n.s. | n.s. | n.s. | s | s |

| | | | | | | | |
|----------------|------|------|------|------|-------|-----|-----|
| O ₁ | 3008 | 3411 | 61.5 | 61.0 | 184.8 | 7.8 | 9.4 |
| O ₂ | 2839 | 2943 | 58.0 | 57.5 | 182.6 | 8.0 | 9.0 |
| O ₃ | 2656 | 2865 | 69.1 | 68.1 | 184.8 | 8.7 | 9.5 |

| | | | | | | | |
|-----------------|-------|-------|------|------|------|-----|-----|
| C.D.(5%) Ai-Aj | 206.6 | 170.4 | 9.0 | 7.6 | 3.6 | 0.4 | 0.1 |
| C.V.(%) Error A | 6.4 | 4.9 | 12.7 | 10.7 | 1.7 | 4.1 | 0.9 |
| F(5%) | s | s | n.s. | s | n.s. | s | s |

| | | | | | | | |
|----------------|------|------|------|------|-------|-----|------|
| F ₁ | 2743 | 2934 | 61.5 | 61.0 | 185.1 | 8.1 | 8.9 |
| F ₂ | 2743 | 2934 | 61.9 | 61.7 | 184.4 | 8.1 | 9.3 |
| F ₃ | 3090 | 3125 | 59.3 | 58.8 | 182.7 | 8.3 | 10.0 |
| F ₄ | 2760 | 3299 | 68.9 | 67.4 | 184.0 | 8.1 | 9.1 |

| | | | | | | | |
|---------------|-------|-------|-----|-----|------|------|-----|
| C.D.(5%)Bi-Bj | 126.1 | 233.2 | 3.9 | 3.0 | 3.1 | 0.3 | 0.4 |
| C.V.(%)ErrorB | 4.5 | 7.7 | 6.2 | 4.9 | 1.7 | 4.0 | 4.2 |
| F(5%) | s | s | s | s | n.s. | n.s. | s |

Treatment Details:

| Main Plot | Organic Source | Sub Plot | Fertilizer Levels |
|----------------|-----------------------------|----------------|-------------------------|
| O ₁ | No FYM | F ₁ | 150:75:37.5 kg |
| O ₂ | FYM @ 6 t ha ⁻¹ | F ₂ | 150:60:40 kg (DMR 100%) |
| O ₃ | FYM @ 10 t ha ⁻¹ | F ₃ | 187.5:75:50 (125% RDF) |
| | | F ₄ | 225.0:90:60 (150% RDF) |

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Table 47: Integrated nutrient management in specialty corn (Sweet Corn) at Chhindwara.

| Main Plot | Sub Plot | Green Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No of Cobs (000/ha) | Days to 50% Silking | Plant Height (cm) |
|----------------|----------------|----------------------------|-----------------------|---------------------|---------------------|-------------------|
| F ₀ | N ₁ | 11741 | 58.1 | 56.7 | 51.3 | 171.3 |
| | N ₂ | 11852 | 59.6 | 57.8 | 52.0 | 175.3 |
| | N ₃ | 12630 | 59.6 | 58.9 | 53.0 | 175.3 |
| | N ₄ | 13481 | 60.7 | 59.6 | 53.7 | 182.0 |
| F ₁ | N ₁ | 11741 | 58.9 | 57.8 | 52.0 | 175.3 |
| | N ₂ | 12519 | 60.0 | 58.5 | 52.7 | 175.7 |
| | N ₃ | 12704 | 60.4 | 59.3 | 53.3 | 181.7 |
| | N ₄ | 13556 | 61.9 | 61.1 | 53.3 | 184.3 |

| | | | | | |
|------------------|---------|------|------|------|-------|
| Mean of location | 12527.8 | 59.9 | 58.7 | 52.7 | 177.6 |
| C.D. at 5 % | 1511.3 | 3.1 | 2.2 | 2.0 | 6.5 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------|-------|------|------|------|-------|
| F ₀ | 12426 | 59.5 | 58.2 | 52.5 | 176.0 |
| F ₁ | 12630 | 60.3 | 59.2 | 52.8 | 179.3 |

| | | | | | |
|-------------|-------|------|------|------|------|
| C.D. at 5 % | 755.7 | 1.5 | 1.1 | 1.0 | 3.3 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------|-------|------|------|------|-------|
| N ₁ | 11741 | 58.5 | 57.2 | 51.7 | 173.3 |
| N ₂ | 12185 | 59.8 | 58.1 | 52.3 | 175.5 |
| N ₃ | 12667 | 60.0 | 59.1 | 53.2 | 178.5 |
| N ₄ | 13519 | 61.3 | 60.4 | 53.5 | 183.2 |

| | | | | | |
|-------------|--------|------|-----|------|-----|
| C.D. at 5 % | 1068.7 | 2.2 | 1.5 | 1.4 | 4.6 |
| C.V. % | 6.9 | 2.9 | 2.1 | 2.2 | 2.1 |
| F | s | n.s. | s | n.s. | s |

Main Plot

| | |
|----------------|-------------------|
| F ₀ | No FYM |
| F ₁ | With 6 ton/ha FYM |

Sub Plot

| | |
|----------------|---|
| N ₁ | *State dose of Fertilizer applied: N120 : P60 and K40 Kg/ha |
| N ₂ | **Recommended dose of Fertilizer applied : N150 : P60 and K40 Kg/ha |
| N ₃ | *** 125 % Recommended dose of Fertilizer applied |
| N ₄ | ****150 % Recommended dose of Fertilizer applied |

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Table 48: Integrated Nutrient Management on HQPM-1 at Baharaich.

| Treatments | Grain Yield (kg/ha) | Plant Stand (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) |
|----------------|---------------------|----------------------|----------------------|-------------------|
| T ₁ | 5533 | 75.8 | 77.3 | 145.3 |
| T ₂ | 5817 | 77.5 | 79.0 | 163.0 |
| T ₃ | 6550 | 76.5 | 77.9 | 182.3 |
| T ₄ | 7067 | 75.6 | 76.9 | 192.3 |
| T ₅ | 5717 | 74.6 | 76.5 | 186.3 |
| T ₆ | 6333 | 75.8 | 78.1 | 198.3 |
| T ₇ | 7033 | 75.4 | 78.1 | 205.5 |
| T ₈ | 7500 | 76.0 | 77.9 | 211.3 |
| Mean | 6443.8 | 75.9 | 77.7 | 185.5 |
| CD | 237.2 | 1.4 | 1.7 | 4.0 |
| CV (%) | 2.5 | 1.2 | 1.5 | 1.5 |
| Significance | S | S | N.S. | S |

*Treatment Details: Not available

A - 101 (a)

Table 49: Integrated Nutrient Management in specialty corn (QPM) at Arbhavi.

| Main Plot (Organic Source) | Sub Plot (Fertility Levels) | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Ear Height (cm) | Moisture (%) |
|----------------------------|-----------------------------|-------------------|----------------------|-----------------------|----------------------|-------------------|-----------------|--------------|
| O ₁ | F ₁ | 3385 | 2917 | 67.7 | 65.3 | 170.5 | 83.0 | 25.6 |
| | F ₂ | 5365 | 5365 | 79.0 | 77.6 | 180.0 | 76.5 | 26.3 |
| | F ₃ | 4375 | 3802 | 73.3 | 67.7 | 178.5 | 83.0 | 26.6 |
| | F ₄ | 5052 | 4115 | 72.4 | 70.3 | 175.5 | 76.0 | 30.8 |
| O ₂ | F ₁ | 3490 | 2604 | 57.8 | 55.7 | 181.3 | 79.5 | 25.3 |
| | F ₂ | 4063 | 4688 | 62.5 | 60.4 | 177.0 | 82.5 | 28.6 |
| | F ₃ | 4271 | 3611 | 68.6 | 63.0 | 178.5 | 78.5 | 28.3 |
| | F ₄ | 4340 | 4167 | 70.7 | 65.1 | 181.0 | 74.0 | 22.4 |
| O ₃ | F ₁ | 4271 | 3177 | 69.8 | 67.7 | 177.0 | 82.0 | 26.7 |
| | F ₂ | 4479 | 3611 | 65.3 | 63.2 | 178.0 | 80.5 | 32.4 |
| | F ₃ | 4323 | 3368 | 63.4 | 61.3 | 179.5 | 80.0 | 24.6 |
| | F ₄ | 4167 | 3194 | 62.2 | 53.1 | 182.0 | 80.5 | 25.7 |

| | | | | | | | |
|--------------------|--------|--------|------|------|-------|------|------|
| Location mean | 4298.3 | 3718.2 | 67.7 | 64.2 | 178.2 | 79.7 | 26.9 |
| C.D.(5%) AiBj-AiBk | 515.6 | 450.9 | 7.9 | 10.4 | 3.5 | 5.5 | 3.5 |
| C.D.(5%) AiBk-AjBk | 493.2 | 583.5 | 7.7 | 10.6 | 3.6 | 5.7 | 3.4 |
| F(5%) | s | s | s | s | s | n.s. | s |

| | | | | | | | |
|----------------|------|------|------|------|-------|------|------|
| O ₁ | 4544 | 4049 | 73.1 | 70.2 | 176.1 | 79.6 | 27.3 |
| O ₂ | 4041 | 3767 | 64.9 | 61.1 | 179.5 | 78.6 | 26.1 |
| O ₃ | 4310 | 3338 | 65.1 | 61.3 | 179.1 | 80.8 | 27.4 |

| | | | | | | | |
|-----------------|-------|-------|-----|-----|-----|------|------|
| C.D.(5%) Ai-Aj | 215.1 | 441.2 | 3.5 | 5.6 | 1.9 | 3.2 | 1.5 |
| C.V.(%) Error A | 4.4 | 10.5 | 4.6 | 7.8 | 1.0 | 3.5 | 5.1 |
| F(5%) | s | s | s | s | s | n.s. | n.s. |

| | | | | | | | |
|----------------|------|------|------|------|-------|------|------|
| F ₁ | 3715 | 2899 | 65.1 | 62.9 | 176.3 | 81.5 | 25.9 |
| F ₂ | 4635 | 4554 | 68.9 | 67.1 | 178.3 | 79.8 | 29.1 |
| F ₃ | 4323 | 3594 | 68.4 | 64.0 | 178.8 | 80.5 | 26.5 |
| F ₄ | 4520 | 3825 | 68.4 | 62.8 | 179.5 | 76.8 | 26.3 |

| | | | | | | | |
|---------------|-------|-------|------|------|-----|-----|-----|
| C.D.(5%)Bi-Bj | 297.7 | 260.3 | 4.6 | 6.0 | 2.0 | 3.2 | 2.0 |
| C.V.(%)ErrorB | 7.0 | 7.1 | 6.8 | 9.4 | 1.2 | 4.0 | 7.7 |
| F(5%) | s | s | n.s. | n.s. | s | s | s |

*Treatment Details is on next page

Cont...

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| Main Plot (Organic Source) | Sub Plot (Fertility Levels) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels/Row | Test Weight (g) 100 Grain | Shelling (%) |
|----------------------------|-----------------------------|----------------|-----------------|-----------------|--------------------|---------------------------|--------------|
| O ₁ | F ₁ | 12.8 | 12.8 | 13.3 | 28.7 | 38.9 | 80.2 |
| | F ₂ | 12.3 | 13.1 | 13.7 | 24.4 | 39.6 | 77.3 |
| | F ₃ | 12.2 | 12.3 | 14.2 | 28.5 | 36.6 | 79.4 |
| | F ₄ | 12.6 | 13.6 | 14.4 | 29.3 | 32.6 | 85.6 |
| O ₂ | F ₁ | 12.2 | 12.5 | 13.8 | 27.4 | 36.6 | 80.3 |
| | F ₂ | 12.1 | 11.8 | 13.9 | 28.4 | 37.4 | 82.2 |
| | F ₃ | 11.8 | 12.1 | 14.5 | 24.6 | 38.0 | 82.5 |
| | F ₄ | 12.2 | 11.4 | 14.5 | 26.6 | 42.8 | 77.2 |
| O ₃ | F ₁ | 12.5 | 13.1 | 14.7 | 27.8 | 42.3 | 80.9 |
| | F ₂ | 13.6 | 13.6 | 14.2 | 29.4 | 42.5 | 81.6 |
| | F ₃ | 13.7 | 12.4 | 13.6 | 33.7 | 40.4 | 80.0 |
| | F ₄ | 13.3 | 14.1 | 13.6 | 35.0 | 41.3 | 73.2 |

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Location mean | 12.6 | 12.7 | 14.0 | 28.6 | 39.1 | 80.0 |
| C.D.(5%) AiBj-AiBk | 0.5 | 0.9 | 0.6 | 2.4 | 2.8 | 4.7 |
| C.D.(5%) AiBk-AjBk | 0.4 | 0.8 | 1.0 | 2.6 | 6.7 | 6.5 |
| F(5%) | s | s | s | s | s | s |

| | | | | | | |
|----------------|------|------|------|------|------|------|
| O ₁ | 12.4 | 12.9 | 13.9 | 27.7 | 36.9 | 80.6 |
| O ₂ | 12.1 | 11.9 | 14.2 | 26.8 | 38.7 | 80.5 |
| O ₃ | 13.2 | 13.3 | 14.0 | 31.5 | 41.6 | 78.9 |

| | | | | | | |
|-----------------|-----|-----|------|-----|------|------|
| C.D.(5%) Ai-Aj | 0.2 | 0.3 | 0.8 | 1.7 | 6.3 | 5.2 |
| C.V.(%) Error A | 1.1 | 2.1 | 5.1 | 5.2 | 14.1 | 5.7 |
| F(5%) | s | s | n.s. | s | n.s. | n.s. |

| | | | | | | |
|----------------|------|------|------|------|------|------|
| F ₁ | 12.5 | 12.8 | 13.9 | 28.0 | 39.3 | 80.5 |
| F ₂ | 12.7 | 12.8 | 13.9 | 27.4 | 39.8 | 80.4 |
| F ₃ | 12.5 | 12.3 | 14.1 | 28.9 | 38.3 | 80.6 |
| F ₄ | 12.7 | 13.0 | 14.2 | 30.3 | 38.9 | 78.6 |

| | | | | | | |
|---------------|------|-----|------|-----|------|------|
| C.D.(5%)Bi-Bj | 0.3 | 0.5 | 0.4 | 1.4 | 1.6 | 2.7 |
| C.V.(%)ErrorB | 2.1 | 4.1 | 2.5 | 4.8 | 4.2 | 3.4 |
| F(5%) | n.s. | s | n.s. | s | n.s. | n.s. |

Treatment Details:

Main Plot Organic Source

| | |
|----------------|-----------------------------|
| O ₁ | No FYM |
| O ₂ | FYM @ 6 t ha ⁻¹ |
| O ₃ | FYM @ 10 t ha ⁻¹ |

Sub Plot Fertilizer Levels

| | |
|----------------|-------------------------|
| F ₁ | 150:75:37.5 kg |
| F ₂ | 150:60:40 kg (DMR 100%) |
| F ₃ | 187.5:75:50 (125% RDF) |
| F ₄ | 225.0:90:60 (150% RDF) |

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Table 50: Integrated nutrient management in specialty corn (QPM) at Chhindwara.

| Main Plot | Sub Plot | Grain Yield (Kg/ha) | No. of Plant (000/ha) | No of Cobs (000/ha) | Days to 50% Silking | Plant Height (cm) |
|----------------|----------------|---------------------|-----------------------|---------------------|---------------------|-------------------|
| F ₀ | N ₁ | 5341 | 59.3 | 60.4 | 57.7 | 172.7 |
| | N ₂ | 5985 | 60.4 | 61.5 | 56.7 | 180.3 |
| | N ₃ | 7026 | 60.7 | 62.2 | 56.3 | 181.7 |
| | N ₄ | 7048 | 61.5 | 63.3 | 56.0 | 185.0 |
| F ₁ | N ₁ | 5907 | 59.6 | 60.4 | 57.0 | 178.3 |
| | N ₂ | 6326 | 60.4 | 61.5 | 56.3 | 181.0 |
| | N ₃ | 7048 | 60.7 | 62.6 | 56.0 | 184.0 |
| | N ₄ | 7159 | 61.9 | 63.3 | 55.3 | 191.3 |

| | | | | | |
|------------------|--------|------|------|------|-------|
| Mean of location | 6480.1 | 60.6 | 61.9 | 56.4 | 181.8 |
| C.D. at 5 % | 1082.9 | 4.9 | 3.1 | 2.6 | 10.6 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------|------|------|------|------|-------|
| F ₀ | 6350 | 60.5 | 61.9 | 56.7 | 179.9 |
| F ₁ | 6610 | 60.6 | 61.9 | 56.2 | 183.7 |

| | | | | | |
|-------------|-------|------|------|------|------|
| C.D. at 5 % | 541.4 | 2.5 | 1.6 | 1.3 | 5.3 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------|------|------|------|------|-------|
| N ₁ | 5624 | 59.4 | 60.4 | 57.3 | 175.5 |
| N ₂ | 6156 | 60.4 | 61.5 | 56.5 | 180.7 |
| N ₃ | 7037 | 60.7 | 62.4 | 56.2 | 182.8 |
| N ₄ | 7104 | 61.7 | 63.3 | 55.7 | 188.2 |

| | | | | | |
|-------------|-------|------|------|------|-----|
| C.D. at 5 % | 765.7 | 3.5 | 2.2 | 1.8 | 7.5 |
| C.V. % | 9.5 | 4.7 | 2.9 | 2.6 | 3.3 |
| F | s | n.s. | n.s. | n.s. | s |

Main Plot

| | |
|----------------|-------------------|
| F ₀ | No FYM |
| F ₁ | With 6 ton/ha FYM |

Sub Plot

| | |
|----------------|---|
| N ₁ | *State dose of Fertilizer applied: N120 : P60 and K40 Kg/ha |
| N ₂ | **Recommended dose of Fertilizer applied : N150 : P60 and K40 Kg/ha |
| N ₃ | *** 125 % of R D |
| N ₄ | ****150% of R D |

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Table 51: Studies on Nutrient Scheduling in maize at Srinagar.

| Treatment | Grain Yield (Kg/ha) | No. of Plants (000/ha) | No. of Cobs (000/ha) | Days to 50% Silking | Grain Yield (Kg/ha) | No. of Plants (000/ha) | No. of Cobs (000/ha) | Days to 50% Silking |
|----------------|-----------------------------------|------------------------|----------------------|---------------------|---------------------|------------------------|----------------------|---------------------|
| | K.D.M. 438 Shalimar composite - 4 | | | | Sweet Corn Madhuri | | | |
| T ₁ | 5263 | 80.9 | 102.3 | 71.2 | 9889 | 80.8 | 97.8 | 65.2 |
| T ₂ | 5748 | 81.7 | 101.0 | 72.3 | 10327 | 80.3 | 97.7 | 65.1 |
| T ₃ | 5992 | 81.7 | 103.5 | 71.8 | 10678 | 80.5 | 99.2 | 64.8 |
| T ₄ | 6309 | 82.2 | 102.4 | 72.3 | 11353 | 81.1 | 98.2 | 65.3 |
| Mean | 5827.9 | 81.6 | 102.3 | 71.9 | 10561.7 | 80.7 | 98.2 | 65.1 |
| CD | 141.1 | 2.4 | 1.7 | 1.8 | 469.1 | 1.7 | 4.1 | 1.5 |
| CV (%) | 1.2 | 1.5 | 0.8 | 1.2 | 2.2 | 1.1 | 2.1 | 1.2 |
| Significance | S | N.S. | N.S. | N.S. | S | N.S. | N.S. | N.S. |

| Treatment | Grain Yield (Kg/ha) | No. of Plants (000/ha) | No. of Cobs (000/ha) | Days to 50% Silking | Grain Yield (Kg/ha) | No. of Plants (000/ha) | No. of Cobs (000/ha) | Days to 50% Silking |
|----------------|---------------------|------------------------|----------------------|---------------------|---------------------|------------------------|----------------------|---------------------|
| | QPM | | | | Pop Corn | | | |
| T ₁ | 4215 | 77.2 | 80.9 | 68.4 | 2066 | 81.2 | 83.0 | 57.8 |
| T ₂ | 4398 | 77.1 | 81.2 | 68.5 | 2427 | 82.1 | 83.3 | 57.8 |
| T ₃ | 4892 | 77.3 | 80.8 | 68.5 | 2754 | 81.7 | 83.5 | 57.5 |
| T ₄ | 5155 | 76.8 | 81.1 | 68.6 | 2817 | 82.0 | 83.2 | 57.8 |
| Mean | 4664.9 | 77.1 | 81.0 | 68.5 | 2516.0 | 81.8 | 83.2 | 57.7 |
| CD | 214.7 | 2.3 | 0.7 | 1.2 | 179.3 | 1.1 | 1.7 | 0.9 |
| CV (%) | 2.3 | 1.5 | 0.4 | 0.9 | 3.6 | 0.7 | 1.0 | 0.8 |
| Significance | S | N.S. | N.S. | N.S. | S | N.S. | N.S. | N.S. |

Treatments Details:

Stage of Nitrogen application

| Treatment | Stage of N application | | | | |
|----------------|------------------------|-------|-------|-----|------|
| | Basal | 4 LS* | 8 LS* | TE* | GFS* |
| T ₁ | 33 | nil | 33 | nil | 33 |
| T ₂ | 10 | 30 | 30 | 20 | 10 |
| T ₃ | 5 | 30 | 30 | 20 | 10 |
| T ₄ | 20 | 25 | 30 | 20 | 5 |

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Table 52: Studies on Nitrogen scheduling in maize at Arbhavi.

| Treatment | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Ear Height (cm) |
|----------------|---------------------|-------------------|----------------------|-----------------------|----------------------|-------------------|-----------------|
| T ₁ | 2037 | 2639 | 4722 | 72.2 | 62.5 | 168.0 | 80.3 |
| T ₂ | 2794 | 3611 | 4792 | 68.8 | 65.6 | 169.3 | 80.7 |
| T ₃ | 3217 | 4167 | 4931 | 70.1 | 65.6 | 167.3 | 81.0 |
| T ₄ | 2884 | 3819 | 4583 | 72.2 | 72.2 | 163.3 | 83.7 |
| T ₅ | 2772 | 3611 | 5625 | 72.6 | 63.5 | 163.0 | 90.3 |
| Mean | 2740.8 | 3569.4 | 4930.6 | 71.2 | 65.9 | 166.2 | 83.2 |
| CD | 317.7 | 450.1 | 774.6 | 5.2 | 4.8 | 12.4 | 8.7 |
| CV (%) | 6.2 | 6.7 | 8.3 | 3.9 | 3.9 | 3.9 | 5.5 |
| Significance | S | S | N.S. | N.S. | S | N.S. | N.S. |

| Treatment | Moisture (%) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/Cob | No. of Kernels /Row | Test Weight (g) 100 Grain | Shelling (%) |
|----------------|--------------|----------------|-----------------|-----------------|---------------------|---------------------------|--------------|
| T ₁ | 22.8 | 12.6 | 10.6 | 13.6 | 25.3 | 37.2 | 77.1 |
| T ₂ | 22.6 | 12.6 | 11.0 | 13.8 | 24.0 | 39.2 | 77.4 |
| T ₃ | 25.5 | 13.1 | 10.9 | 14.7 | 23.1 | 37.9 | 77.4 |
| T ₄ | 22.2 | 12.4 | 10.3 | 13.5 | 23.3 | 40.8 | 75.4 |
| T ₅ | 23.4 | 12.5 | 9.6 | 14.5 | 21.9 | 39.1 | 76.6 |
| Mean | 23.3 | 12.7 | 10.5 | 14.0 | 23.5 | 38.8 | 76.8 |
| CD | 9.4 | 1.6 | 2.3 | 1.0 | 6.3 | 4.5 | 3.3 |
| CV (%) | 21.4 | 6.6 | 11.4 | 3.7 | 14.2 | 6.2 | 2.3 |
| Significance | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

| Treatment | Stage of N application | | | | |
|----------------|------------------------|------------------------------|-------|-----|------|
| | Basal | 4 LS* | 8 LS* | TE* | EGF* |
| T ₁ | 33 | nil | 33 | 33 | nil |
| T ₂ | 10 | 30 | 30 | 20 | 10 |
| T ₃ | 5 | 30 | 40 | 15 | 10 |
| T ₄ | 20 | 25 | 30 | 20 | 5 |
| T ₅ | 33 | 33% at 30DAS & 33% at 45 DAS | | | |

LS* Leaf stage
TE* Tassel Emergence
EGF* Early grain filling

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Table 53: Realizing potential yield in maize at Pantnagar.

| Main Plot Spacing | Sub Plot Fertility Levels | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No of Cobs (000/ha) | Plant Height (cm) | Days to 50% Tasseling | Days to 50% Silking | Cob Length (cm) | Cob Girth (cm) | Moist ure (%) |
|--------------------|---------------------------|---------------------|-------------------|-----------------------|---------------------|-------------------|-----------------------|---------------------|-----------------|----------------|---------------|
| P ₁ | F ₁ | 3632 | 5729 | 53.5 | 56.3 | 188.0 | 53.8 | 58.0 | 17.4 | 13.7 | 25.5 |
| | F ₂ | 5042 | 7681 | 53.5 | 55.6 | 197.0 | 54.0 | 58.0 | 16.6 | 13.0 | 26.0 |
| | F ₃ | 5139 | 8007 | 52.1 | 54.2 | 198.0 | 53.8 | 58.0 | 16.3 | 14.3 | 27.0 |
| | F ₄ | 5250 | 8188 | 51.4 | 52.8 | 200.3 | 54.3 | 57.8 | 16.7 | 14.7 | 27.0 |
| P ₂ | F ₁ | 4743 | 7618 | 52.1 | 53.5 | 188.3 | 54.5 | 58.0 | 14.6 | 13.6 | 26.3 |
| | F ₂ | 5438 | 8708 | 53.5 | 55.6 | 186.8 | 54.5 | 58.5 | 15.4 | 13.6 | 26.0 |
| | F ₃ | 5576 | 8882 | 52.1 | 54.2 | 188.8 | 54.3 | 57.8 | 17.0 | 13.6 | 26.0 |
| | F ₄ | 5653 | 9097 | 52.8 | 53.5 | 189.3 | 53.8 | 57.8 | 18.0 | 13.9 | 25.8 |
| P ₃ | F ₁ | 5250 | 8361 | 53.5 | 54.9 | 187.0 | 53.8 | 57.8 | 17.4 | 13.9 | 26.5 |
| | F ₂ | 5750 | 9194 | 50.7 | 54.9 | 185.3 | 54.5 | 58.3 | 17.9 | 14.8 | 26.3 |
| | F ₃ | 6035 | 9813 | 53.5 | 54.9 | 195.5 | 54.8 | 58.5 | 16.9 | 14.8 | 27.0 |
| | F ₄ | 6104 | 9868 | 52.1 | 52.8 | 187.0 | 54.0 | 58.3 | 16.9 | 14.1 | 26.5 |
| P ₄ | F ₁ | 5201 | 8292 | 50.7 | 53.5 | 194.0 | 54.5 | 58.5 | 16.6 | 14.0 | 25.5 |
| | F ₂ | 5972 | 9479 | 51.4 | 54.2 | 193.5 | 54.8 | 58.8 | 15.8 | 14.4 | 26.3 |
| | F ₃ | 6875 | 11069 | 51.4 | 55.6 | 195.0 | 53.8 | 58.3 | 15.5 | 13.7 | 26.5 |
| | F ₄ | 7083 | 11153 | 51.4 | 54.2 | 196.5 | 53.5 | 57.8 | 15.9 | 13.7 | 26.3 |
| P ₅ | F ₁ | 5597 | 8896 | 53.5 | 56.3 | 183.8 | 54.0 | 58.0 | 15.9 | 13.8 | 25.8 |
| | F ₂ | 6229 | 9757 | 52.8 | 54.9 | 178.5 | 54.0 | 58.3 | 14.4 | 13.2 | 25.8 |
| | F ₃ | 6861 | 10944 | 52.8 | 54.9 | 188.8 | 53.8 | 58.0 | 16.9 | 14.3 | 26.5 |
| | F ₄ | 6938 | 11076 | 52.8 | 54.2 | 184.3 | 54.5 | 58.3 | 16.9 | 14.2 | 26.8 |
| Location mean | | 5718.4 | 9090.6 | 52.4 | 54.5 | 190.3 | 54.1 | 58.1 | 16.4 | 13.9 | 26.3 |
| C.D.(5%) AiBj-AiBk | | 532.9 | 607.3 | 4.8 | 7.8 | 15.8 | 1.1 | 0.9 | 2.3 | 1.7 | 1.5 |
| C.D.(5%) AiBk-AjBk | | 556.0 | 567.5 | 5.1 | 8.0 | 17.7 | 1.1 | 1.0 | 2.5 | 1.6 | 1.5 |
| F(5%) | | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| P ₁ | | 4766 | 7401 | 52.6 | 54.7 | 195.8 | 53.9 | 57.9 | 16.7 | 13.9 | 26.4 |
| P ₂ | | 5352 | 8576 | 52.6 | 54.2 | 188.3 | 54.3 | 58.0 | 16.2 | 13.7 | 26.0 |
| P ₃ | | 5785 | 9309 | 52.4 | 54.3 | 188.7 | 54.3 | 58.2 | 17.3 | 14.4 | 26.6 |
| P ₄ | | 6283 | 9998 | 51.2 | 54.3 | 194.8 | 54.1 | 58.3 | 15.9 | 13.9 | 26.1 |
| P ₅ | | 6406 | 10168 | 53.0 | 55.0 | 183.8 | 54.1 | 58.1 | 16.0 | 13.9 | 26.2 |
| C.V.(%) Error A | | 310.6 | 213.8 | 3.1 | 4.3 | 11.1 | 0.6 | 0.6 | 1.4 | 0.6 | 0.7 |
| C.V.(%) Error A | | 7.1 | 3.1 | 7.6 | 10.2 | 7.6 | 1.5 | 1.4 | 11.2 | 5.4 | 3.5 |
| F(5%) | | s | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| F ₁ | | 4885 | 7779 | 52.6 | 54.9 | 188.2 | 54.1 | 58.1 | 16.4 | 13.8 | 25.9 |
| F ₂ | | 5686 | 8964 | 52.4 | 55.0 | 188.2 | 54.4 | 58.4 | 16.0 | 13.8 | 26.1 |
| F ₃ | | 6097 | 9743 | 52.4 | 54.7 | 193.2 | 54.1 | 58.1 | 16.5 | 14.1 | 26.6 |
| F ₄ | | 6206 | 9876 | 52.1 | 53.5 | 191.5 | 54.0 | 58.0 | 16.8 | 14.1 | 26.5 |
| C.D.(5%)Bi-Bj | | 238.3 | 271.6 | 2.1 | 3.5 | 7.1 | 0.5 | 0.4 | 1.0 | 0.7 | 0.7 |
| C.V.(%)ErrorB | | 6.5 | 4.7 | 6.4 | 10.0 | 5.8 | 1.4 | 1.1 | 9.9 | 8.4 | 4.1 |
| F(5%) | | s | s | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

Treatments Details:

**Planting Density
(Main effect)**

**Fertility levels
(Sub plot effect)**

- P1 : 55 cm x 20 cm F1: 150:60:60:25 : : N:P205:K20: ZnS04 kg/ha)
P2 : 60 cm x 20 cm F2: 200:75:75:25 : : N:P205:K20: ZnS04 kg/ha)
P3 : 65 cm x 20 cm F3: 250:960:90:25 : : N:P205:K20: ZnS04 kg/ha)
P4 : 70 cm x 20 cm F4: 300:105:105:25 : : N:P205:K20: ZnS04 kg/ha)

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Table 54: Realizing potential in maize at Ambikapur.

| Main Plot Spacing | Sub plot Fertility Levels | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Ear Height (cm) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/ Cob | No. of Kernel s/Row | Test Weight (g) 100 Grain | Shelling (%) |
|-------------------|---------------------------|---------------------|-------------------|-----------------------|----------------------|-------------------|-----------------|----------------|-----------------|------------------|---------------------|---------------------------|--------------|
| S ₁ | F ₁ | 5185 | 6593 | 83.2 | 76.8 | 225.3 | 87.9 | 15.2 | 14.4 | 13.7 | 36.3 | 28.7 | 78.3 |
| | F ₂ | 5259 | 6306 | 81.2 | 75.1 | 240.1 | 92.6 | 15.5 | 16.1 | 14.3 | 37.0 | 34.8 | 82.3 |
| | F ₃ | 5284 | 6444 | 82.2 | 75.1 | 249.1 | 94.8 | 15.2 | 14.9 | 14.1 | 36.7 | 33.5 | 81.6 |
| | F ₄ | 4988 | 6198 | 82.7 | 77.5 | 250.8 | 99.9 | 15.2 | 15.1 | 14.1 | 36.1 | 33.3 | 80.6 |
| S ₂ | F ₁ | 4511 | 5556 | 75.3 | 70.9 | 214.1 | 96.3 | 15.1 | 15.0 | 14.1 | 36.5 | 33.5 | 81.7 |
| | F ₂ | 6356 | 7533 | 76.9 | 73.1 | 233.5 | 92.7 | 15.7 | 14.2 | 14.4 | 37.7 | 35.1 | 84.1 |
| | F ₃ | 5689 | 6933 | 75.1 | 70.2 | 235.8 | 98.9 | 15.9 | 14.3 | 14.1 | 38.7 | 33.2 | 82.1 |
| | F ₄ | 5667 | 7000 | 75.8 | 71.6 | 246.5 | 93.6 | 15.4 | 13.6 | 14.0 | 36.8 | 33.0 | 81.1 |
| S ₃ | F ₁ | 5826 | 7364 | 69.7 | 68.7 | 224.6 | 90.0 | 15.6 | 15.0 | 14.3 | 38.6 | 32.0 | 79.2 |
| | F ₂ | 6051 | 7036 | 68.9 | 67.9 | 235.5 | 94.6 | 15.7 | 15.8 | 13.9 | 39.4 | 36.3 | 85.7 |
| | F ₃ | 6687 | 8000 | 68.9 | 67.9 | 229.2 | 97.2 | 15.3 | 15.9 | 14.1 | 36.1 | 36.1 | 83.8 |
| | F ₄ | 6010 | 7241 | 68.9 | 68.1 | 228.7 | 102.2 | 16.1 | 15.9 | 14.6 | 37.6 | 35.9 | 82.8 |
| S ₄ | F ₁ | 5086 | 6286 | 65.0 | 64.4 | 215.7 | 96.6 | 15.6 | 15.9 | 14.2 | 38.8 | 31.5 | 80.6 |
| | F ₂ | 6038 | 7185 | 65.3 | 64.4 | 230.7 | 100.0 | 16.4 | 16.1 | 14.6 | 37.8 | 36.0 | 83.8 |
| | F ₃ | 6495 | 7657 | 65.0 | 64.0 | 231.7 | 93.9 | 16.1 | 16.2 | 14.5 | 36.5 | 36.5 | 84.9 |
| | F ₄ | 6210 | 7390 | 66.3 | 65.5 | 230.9 | 101.3 | 15.6 | 15.9 | 13.9 | 38.2 | 36.3 | 83.9 |
| S ₅ | F ₁ | 5387 | 6542 | 60.6 | 59.9 | 219.3 | 100.2 | 15.6 | 16.3 | 14.2 | 36.9 | 35.7 | 81.9 |
| | F ₂ | 5956 | 7004 | 62.2 | 61.3 | 214.3 | 102.3 | 16.0 | 15.7 | 14.7 | 37.1 | 35.7 | 84.9 |
| | F ₃ | 5209 | 6187 | 60.3 | 59.2 | 230.9 | 100.0 | 16.3 | 16.3 | 14.8 | 39.3 | 36.9 | 83.9 |
| | F ₄ | 6151 | 7378 | 60.8 | 60.1 | 236.7 | 96.8 | 16.3 | 16.3 | 13.9 | 37.7 | 36.7 | 82.9 |

| | | | | | | | | | | | | |
|------------------|--------|--------|------|------|-------|------|------|------|------|------|------|------|
| Mean of location | 5702.2 | 6891.6 | 70.7 | 68.1 | 231.2 | 96.6 | 15.7 | 15.5 | 14.2 | 37.5 | 34.5 | 82.5 |
| C.D. at 5 % | 1508.4 | 1852.5 | 3.8 | 4.2 | 16.0 | 8.8 | 0.7 | 1.1 | 0.9 | 2.3 | 2.7 | 4.2 |
| F | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | | | | | |
|----------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| S ₁ | 5179 | 6385 | 82.3 | 76.1 | 241.3 | 93.8 | 15.3 | 15.1 | 14.0 | 36.5 | 32.6 | 80.7 |
| S ₂ | 5556 | 6756 | 75.8 | 71.4 | 232.5 | 95.4 | 15.5 | 14.3 | 14.2 | 37.4 | 33.7 | 82.3 |
| S ₃ | 6144 | 7410 | 69.1 | 68.2 | 229.5 | 96.0 | 15.7 | 15.7 | 14.2 | 37.9 | 35.0 | 82.9 |
| S ₄ | 5957 | 7130 | 65.4 | 64.6 | 227.3 | 98.0 | 15.9 | 16.0 | 14.3 | 37.8 | 35.1 | 83.3 |
| S ₅ | 5676 | 6778 | 61.0 | 60.1 | 225.3 | 99.8 | 16.0 | 16.2 | 14.4 | 37.8 | 36.2 | 83.4 |

| | | | | | | | | | | | | |
|-------------|-------|-------|-----|-----|-----|------|-----|-----|------|------|-----|------|
| C.D. at 5 % | 754.2 | 926.3 | 1.9 | 2.1 | 8.0 | 4.4 | 0.3 | 0.5 | 0.5 | 1.1 | 1.3 | 2.1 |
| F | n.s. | n.s. | s | s | s | n.s. | s | s | n.s. | n.s. | s | n.s. |

| | | | | | | | | | | | | |
|----------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| F ₁ | 5199 | 6468 | 70.8 | 68.1 | 219.8 | 94.2 | 15.4 | 15.3 | 14.1 | 37.4 | 32.3 | 80.3 |
| F ₂ | 5932 | 7013 | 70.9 | 68.4 | 230.8 | 96.4 | 15.9 | 15.6 | 14.4 | 37.8 | 35.6 | 84.2 |
| F ₃ | 5873 | 7044 | 70.3 | 67.3 | 235.3 | 97.0 | 15.8 | 15.5 | 14.3 | 37.5 | 35.2 | 83.3 |
| F ₄ | 5805 | 7041 | 70.9 | 68.6 | 238.7 | 98.7 | 15.7 | 15.4 | 14.1 | 37.3 | 35.0 | 82.3 |

| | | | | | | | | | | | | |
|-------------|-------|-------|------|------|-----|------|-----|------|------|------|-----|-----|
| C.D. at 5 % | 674.6 | 828.5 | 1.7 | 1.9 | 7.2 | 3.9 | 0.3 | 0.5 | 0.4 | 1.0 | 1.2 | 1.9 |
| C.V. % | 16.0 | 16.3 | 3.3 | 3.7 | 4.2 | 5.5 | 2.5 | 4.2 | 3.9 | 3.6 | 4.7 | 3.1 |
| F | n.s. | n.s. | n.s. | n.s. | s | n.s. | s | n.s. | n.s. | n.s. | s | s |

Treatment Details:

A. Plant density (cm)

| | |
|----------------|---------|
| S ₁ | 55 X 20 |
| S ₂ | 60 X 20 |
| S ₃ | 65 X 20 |
| S ₄ | 70 X 20 |
| S ₅ | 75 X 20 |

B. Fertility level (kg/ha)

| | |
|----------------|----------------|
| F ₁ | 150:60:60:25 |
| F ₂ | 200:75:75:25 |
| F ₃ | 250:90:90:25 |
| F ₄ | 300:105:105:25 |

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Table 55: Realizing potential in maize at Ranchi.

| Main plot (Spacing) | Sub plot (Fertility Levels) | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | Fodder Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | Ear Height (cm) | Cob Girth (Cm) | Cob Length (cm) | No. of Rows/ Cob | No. of Kernels /Row | Test Weight (g) 100 Grain | Shelling (%) |
|---------------------|-----------------------------|---------------------|-------------------|----------------------|-----------------------|----------------------|-------------------|-----------------|----------------|-----------------|------------------|---------------------|---------------------------|--------------|
| S ₁ | F ₁ | 3011 | 3754 | 7394 | 87.7 | 71.9 | 226.3 | 92.9 | 12.4 | 13.6 | 11.6 | 32.5 | 23.7 | 80.0 |
| | F ₂ | 3537 | 4356 | 8267 | 87.9 | 70.5 | 236.9 | 98.6 | 13.2 | 14.8 | 12.7 | 34.5 | 26.7 | 81.1 |
| | F ₃ | 3830 | 4704 | 8703 | 87.9 | 70.5 | 246.1 | 101.8 | 13.3 | 15.8 | 13.0 | 33.0 | 28.7 | 81.4 |
| | F ₄ | 3507 | 4530 | 10182 | 87.5 | 72.5 | 247.7 | 105.9 | 12.5 | 14.5 | 12.3 | 33.7 | 25.8 | 77.4 |
| S ₂ | F ₁ | 3143 | 4015 | 6867 | 80.0 | 69.1 | 219.1 | 98.3 | 13.4 | 14.9 | 12.8 | 33.5 | 25.8 | 78.2 |
| | F ₂ | 4264 | 5127 | 8000 | 80.4 | 70.9 | 234.5 | 95.7 | 13.7 | 16.5 | 13.3 | 35.4 | 29.4 | 83.1 |
| | F ₃ | 3971 | 4854 | 9044 | 80.6 | 68.5 | 236.8 | 102.9 | 13.5 | 15.0 | 12.9 | 34.8 | 28.5 | 81.7 |
| | F ₄ | 3656 | 4469 | 8400 | 80.2 | 69.6 | 247.5 | 96.6 | 13.2 | 14.9 | 12.8 | 34.8 | 26.1 | 81.7 |
| S ₃ | F ₁ | 3370 | 4225 | 6646 | 74.0 | 68.5 | 228.6 | 89.0 | 13.8 | 15.5 | 13.3 | 34.1 | 26.1 | 79.7 |
| | F ₂ | 4358 | 5236 | 8123 | 73.8 | 67.9 | 235.5 | 94.6 | 14.0 | 16.0 | 13.7 | 35.9 | 29.6 | 83.1 |
| | F ₃ | 4179 | 5040 | 8082 | 74.2 | 67.9 | 229.2 | 98.2 | 13.6 | 15.4 | 13.4 | 35.5 | 29.4 | 82.9 |
| | F ₄ | 3629 | 4429 | 8677 | 73.8 | 68.0 | 228.7 | 102.2 | 14.0 | 16.2 | 13.4 | 35.3 | 27.3 | 81.5 |
| S ₄ | F ₁ | 3514 | 4308 | 6781 | 69.0 | 65.6 | 218.7 | 92.6 | 13.7 | 15.6 | 13.6 | 34.7 | 27.4 | 81.4 |
| | F ₂ | 4448 | 5303 | 7943 | 69.4 | 65.6 | 229.7 | 97.0 | 14.5 | 16.2 | 14.0 | 35.7 | 29.0 | 83.7 |
| | F ₃ | 4067 | 4916 | 7771 | 69.4 | 65.2 | 230.7 | 91.9 | 14.2 | 16.3 | 13.9 | 36.7 | 28.8 | 82.7 |
| | F ₄ | 3610 | 4374 | 7962 | 68.9 | 66.5 | 229.9 | 98.3 | 14.0 | 16.0 | 13.7 | 35.7 | 28.3 | 82.4 |
| S ₅ | F ₁ | 3648 | 4457 | 6578 | 64.0 | 62.4 | 222.3 | 93.2 | 13.7 | 15.9 | 13.8 | 35.5 | 26.7 | 81.7 |
| | F ₂ | 4212 | 5027 | 7751 | 64.3 | 63.6 | 213.3 | 96.3 | 14.3 | 15.9 | 14.3 | 36.7 | 29.7 | 83.7 |
| | F ₃ | 4006 | 4756 | 7271 | 64.6 | 61.8 | 229.9 | 95.0 | 14.5 | 16.7 | 14.2 | 37.5 | 29.1 | 84.0 |
| | F ₄ | 3599 | 4326 | 7858 | 64.4 | 62.5 | 235.7 | 90.8 | 14.2 | 16.1 | 13.8 | 36.1 | 28.6 | 83.2 |

Mean of location 3777.9 4610.3 7915.0 75.1 67.4 231.4 96.6 13.7 15.6 13.3 35.1 27.7 81.7

C.D. at 5 % 607.1 466.1 1787.7 2.9 3.5 21.9 8.9 1.0 1.2 1.0 2.3 2.6 5.4

F n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s.

| | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| S ₁ | 3471 | 4336 | 8636 | 87.7 | 71.4 | 239.3 | 99.8 | 12.8 | 14.7 | 12.4 | 33.4 | 26.2 | 80.0 |
| S ₂ | 3759 | 4616 | 8078 | 80.3 | 69.5 | 234.5 | 98.4 | 13.5 | 15.3 | 13.0 | 34.6 | 27.5 | 81.2 |
| S ₃ | 3884 | 4732 | 7882 | 74.0 | 68.1 | 230.5 | 96.0 | 13.9 | 15.8 | 13.4 | 35.2 | 28.1 | 81.8 |
| S ₄ | 3910 | 4725 | 7614 | 69.2 | 65.7 | 227.3 | 95.0 | 14.1 | 16.0 | 13.8 | 35.7 | 28.4 | 82.6 |
| S ₅ | 3866 | 4642 | 7364 | 64.3 | 62.6 | 225.3 | 93.8 | 14.2 | 16.2 | 14.0 | 36.4 | 28.5 | 83.1 |

C.D. at 5 % 303.5 233.0 893.9 1.4 1.7 11.0 4.5 0.5 0.6 0.5 1.1 1.3 2.7

F s s n.s. s s n.s. n.s. s s s s s n.s.

| | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| F ₁ | 3337 | 4152 | 6853 | 74.9 | 67.5 | 223.0 | 93.2 | 13.4 | 15.1 | 13.0 | 34.1 | 25.9 | 80.2 |
| F ₂ | 4164 | 5010 | 8017 | 75.2 | 67.7 | 230.0 | 96.4 | 13.9 | 15.9 | 13.6 | 35.6 | 28.9 | 83.0 |
| F ₃ | 4010 | 4854 | 8174 | 75.3 | 66.8 | 234.5 | 98.0 | 13.8 | 15.9 | 13.5 | 35.5 | 28.9 | 82.5 |
| F ₄ | 3600 | 4426 | 8616 | 75.0 | 67.8 | 237.9 | 98.7 | 13.6 | 15.6 | 13.2 | 35.1 | 27.2 | 81.2 |

C.D. at 5 % 271.5 208.4 799.5 1.3 1.6 9.8 4.0 0.5 0.5 0.5 1.0 1.2 2.4

C.V. % 9.7 6.1 13.7 2.3 3.1 5.7 5.6 4.6 4.6 4.7 3.9 5.6 4.0

F s s s n.s. n.s. s s n.s. s n.s. s s n.s.

Treatment Details:

A. Plant Density (cm)

S₁ 55 X 20
 S₂ 60 X 20
 S₃ 65 X 20
 S₄ 70 X 20
 S₅ 75 X 20

B. Fertility Level (kg/ha)

F₁ 150:60:60:25
 F₂ 200:75:75:25
 F₃ 250:90:90:25
 F₄ 300:105:105:25

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Table 56: Yield potential through nutrient management in maize Kharif 2009 at Hyderabad.

| Main Plot Spacing | Sub Plot N Levels | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Days to 50% Silking | Plant Height (cm) |
|--------------------|-------------------|---------------------|-------------------|-----------------------|----------------------|---------------------|-------------------|
| S ₁ | N ₁ | 5743 | 7207 | 66.9 | 49.8 | 54.3 | 230.7 |
| | N ₂ | 6437 | 9869 | 80.4 | 60.4 | 54.7 | 221.8 |
| | N ₃ | 8933 | 12170 | 81.3 | 71.1 | 57.0 | 243.0 |
| | N ₄ | 10109 | 11817 | 78.1 | 72.6 | 57.3 | 263.0 |
| S ₂ | N ₁ | 5872 | 5331 | 67.0 | 54.1 | 55.0 | 214.0 |
| | N ₂ | 8385 | 11544 | 78.3 | 60.0 | 55.3 | 220.0 |
| | N ₃ | 10130 | 12852 | 81.1 | 69.6 | 58.0 | 255.3 |
| | N ₄ | 8859 | 11426 | 75.9 | 70.7 | 60.7 | 252.7 |
| S ₃ | N ₁ | 5613 | 5815 | 57.8 | 43.0 | 54.7 | 228.3 |
| | N ₂ | 7796 | 6081 | 64.1 | 52.8 | 56.3 | 235.3 |
| | N ₃ | 7463 | 11319 | 73.5 | 64.4 | 59.0 | 262.0 |
| | N ₄ | 8915 | 10652 | 68.3 | 67.2 | 60.0 | 247.3 |
| S ₄ | N ₁ | 6828 | 6978 | 56.5 | 47.4 | 54.7 | 252.7 |
| | N ₂ | 8143 | 9359 | 70.0 | 61.5 | 56.3 | 240.7 |
| | N ₃ | 10854 | 12974 | 72.4 | 63.0 | 60.7 | 245.3 |
| | N ₄ | 10144 | 12296 | 69.3 | 66.3 | 61.0 | 239.3 |
| S ₅ | N ₁ | 5467 | 8544 | 54.6 | 46.7 | 54.7 | 244.0 |
| | N ₂ | 5481 | 8750 | 53.1 | 46.9 | 57.0 | 230.3 |
| | N ₃ | 7041 | 9700 | 56.1 | 54.1 | 59.3 | 231.3 |
| | N ₄ | 7169 | 9596 | 55.9 | 53.7 | 61.3 | 228.3 |
| Location mean | | 7769.1 | 9714.1 | 68.0 | 58.8 | 57.4 | 239.3 |
| C.D.(5%) AiBj-AiBk | | 1530.0 | 1617.9 | 6.2 | 4.3 | 1.3 | 20.4 |
| C.D.(5%) AiBk-AjBk | | 1489.4 | 1871.2 | 8.0 | 4.5 | 1.4 | 21.2 |
| F(5%) | | s | s | s | s | s | s |
| S ₁ | | 7806 | 10266 | 76.7 | 63.5 | 55.8 | 239.6 |
| S ₂ | | 8312 | 10288 | 75.6 | 63.6 | 57.3 | 235.5 |
| S ₃ | | 7447 | 8467 | 65.9 | 56.9 | 57.5 | 243.3 |
| S ₄ | | 8992 | 10402 | 67.0 | 59.5 | 58.2 | 244.5 |
| S ₅ | | 6289 | 9148 | 55.0 | 50.3 | 58.1 | 233.5 |
| C.D.(5%) Ai-Aj | | 683.9 | 1245.2 | 6.0 | 2.6 | 0.7 | 11.8 |
| C.V.(%) Error A | | 9.4 | 13.6 | 9.3 | 4.6 | 1.4 | 5.2 |
| F(5%) | | s | s | s | s | s | n.s. |
| N ₁ | | 5904 | 6775 | 60.6 | 48.2 | 54.7 | 233.9 |
| N ₂ | | 7249 | 9121 | 69.2 | 56.3 | 55.9 | 229.6 |
| N ₃ | | 8884 | 11803 | 72.9 | 64.4 | 58.8 | 247.4 |
| N ₄ | | 9039 | 11157 | 69.5 | 66.1 | 60.1 | 246.1 |
| C.D.(5%)Bi-Bj | | 684.3 | 723.6 | 2.8 | 1.9 | 0.6 | 9.1 |
| C.V.(%)ErrorB | | 11.8 | 10.0 | 5.5 | 4.4 | 1.4 | 5.1 |
| F(5%) | | s | s | s | s | s | s |

Treatment Details:

Spacings-5 (Main Plot)

- S₁ 55x20 cm
- S₂ 60x20 cm
- S₃ 65x20 cm
- S₄ 70x20 cm
- S₅ 75x 20 cm

Nutrient levels- 4 (Sub Plot)

- N₁ 150-60-60 N – P₂O₅ – K₂O kg/ha
- N₂ 200:75-75 N – P₂O₅ – K₂O kg/ha
- N₃ 250-90-90 N – P₂O₅ – K₂O kg/ha
- N₄ 300-105-105 N-P₂O₅-K₂O kg/ha

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Table 57: Response of Sweet Corn to fertility levels and plant population at Jorhat.

| Main Plot F Levels | Sub Plot Spacing | Cob Yield (Kg/ha) | Fresh Weight (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) |
|-----------------------|---------------------|-------------------------|----------------------------|-----------------------------|----------------------------|-------------------------|
| 0:00:00 | 60 x 15 cm | 7500 | 3561 | 75.9 | 62.9 | 165.3 |
| | 60 x 20 cm | 8133 | 3324 | 62.7 | 55.1 | 165.7 |
| | 60 x 25 cm | 8633 | 3398 | 52.3 | 48.7 | 172.7 |
| | 60 x 30 cm | 9267 | 3525 | 47.3 | 46.1 | 174.7 |
| 40:20:20 | 60 x 15 cm | 8100 | 4270 | 78.9 | 68.3 | 169.3 |
| | 60 x 20 cm | 8667 | 4928 | 55.3 | 49.7 | 171.3 |
| | 60 x 25 cm | 9167 | 5305 | 49.4 | 47.4 | 172.0 |
| | 60 x 30 cm | 9567 | 4200 | 43.5 | 42.2 | 176.7 |
| 80:40:40 | 60 x 15 cm | 9533 | 6359 | 78.5 | 70.2 | 169.3 |
| | 60 x 20 cm | 10133 | 7462 | 66.9 | 60.3 | 170.3 |
| | 60 x 25 cm | 11700 | 7988 | 61.8 | 59.3 | 175.3 |
| | 60 x 30 cm | 13833 | 6482 | 43.6 | 43.3 | 178.7 |
| 120:80:80 | 60 x 15 cm | 11300 | 6763 | 83.1 | 71.0 | 176.7 |
| | 60 x 20 cm | 12700 | 8755 | 67.3 | 60.5 | 178.3 |
| | 60 x 25 cm | 14800 | 8166 | 61.9 | 59.9 | 183.0 |
| | 60 x 30 cm | 15933 | 6855 | 44.3 | 43.8 | 184.0 |

| | | | | | |
|--------------------|---------|--------|------|------|-------|
| Location mean | 10560.4 | 5708.8 | 60.8 | 55.5 | 174.0 |
| C.D.(5%) AiBj-AiBk | 668.7 | 407.0 | 3.4 | 4.6 | 4.5 |
| C.D.(5%) AiBk-AjBk | 652.7 | 397.4 | 3.8 | 5.0 | 8.9 |
| F(5%) | s | s | s | s | n.s. |

| | | | | | |
|-----------|-------|------|------|------|-------|
| 0:00:00 | 8383 | 3452 | 59.5 | 53.2 | 169.6 |
| 16:20:20 | 8875 | 4676 | 56.8 | 51.9 | 172.3 |
| 8:40:40 | 11300 | 7073 | 62.7 | 58.3 | 173.4 |
| 120:80:80 | 13683 | 7635 | 64.2 | 58.8 | 180.5 |

| | | | | | |
|-----------------|-------|-------|-----|-----|------|
| C.V.(%) Error A | 304.3 | 185.4 | 2.4 | 3.1 | 8.1 |
| C.V.(%) Error B | 2.9 | 3.3 | 3.9 | 5.6 | 4.6 |
| F(5%) | s | s | s | s | n.s. |

| | | | | | |
|------------|-------|------|------|------|-------|
| 60 x 15 cm | 9108 | 5238 | 79.1 | 68.1 | 170.2 |
| 60 x 20 cm | 9908 | 6117 | 63.1 | 56.4 | 171.4 |
| 60 x 25 cm | 11075 | 6214 | 56.3 | 53.8 | 175.8 |
| 60 x 30 cm | 12150 | 5266 | 44.7 | 43.9 | 178.5 |

| | | | | | |
|---------------|-------|-------|-----|-----|-----|
| C.D.(5%)Bi-Bj | 334.3 | 203.5 | 1.7 | 2.3 | 2.2 |
| C.V.(%)ErrorB | 3.8 | 4.2 | 3.3 | 4.9 | 1.5 |
| F(5%) | s | s | s | s | s |

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Table 58: Effect of Fertility levels and genotype on grain yield of maize (Full Season) trail Kharif 2009 at Karnal.

| Main Plot N Levels | Sub Plot Genotype | Grain Yield (Kg/ha) | Plant Stand (000/ha) | Days to 50% Tasseling | Days to 50% Silking |
|--------------------|-------------------|---------------------|----------------------|-----------------------|---------------------|
| 0-0-0 | HKH 312 | 2843 | 49.9 | 56.7 | 58.7 |
| | HKH 307 | 2140 | 48.2 | 57.3 | 59.3 |
| | 164-7-6X1105 | 2857 | 42.9 | 57.0 | 59.0 |
| | HKH 311 | 3123 | 47.3 | 57.7 | 60.3 |
| | HM 9 | 2623 | 51.0 | 58.0 | 60.3 |
| 100-40-40 | HKH 312 | 4577 | 49.3 | 55.3 | 57.3 |
| | HKH 307 | 4823 | 47.5 | 57.0 | 59.3 |
| | 164-7-6X1105 | 4690 | 45.3 | 57.7 | 60.3 |
| | HKH 311 | 4767 | 47.1 | 56.7 | 59.0 |
| | HM 9 | 4297 | 47.1 | 59.0 | 61.7 |
| 150-60-60 | HKH 312 | 5513 | 51.0 | 55.7 | 58.3 |
| | HKH 307 | 5253 | 53.0 | 55.7 | 58.0 |
| | 164-7-6X1105 | 5573 | 49.5 | 58.7 | 61.0 |
| | HKH 311 | 5690 | 50.6 | 56.0 | 58.3 |
| | HM 9 | 5027 | 50.6 | 56.0 | 58.3 |
| 200-80-80 | HKH 312 | 5923 | 51.3 | 56.7 | 58.7 |
| | HKH 307 | 6160 | 51.7 | 57.3 | 59.3 |
| | 164-7-6X1105 | 5753 | 41.4 | 58.3 | 60.3 |
| | HKH 311 | 6243 | 46.0 | 56.7 | 59.3 |
| | HM 9 | 5793 | 49.5 | 56.7 | 58.7 |

| | | | | |
|--------------------|--------|------|------|------|
| Location mean | 4683.5 | 48.5 | 57.0 | 59.3 |
| C.D.(5%) AiBj-AiBk | 727.8 | 6.4 | 2.9 | 3.3 |
| C.D.(5%) AiBk-AjBk | n.s. | 7.2 | 3.0 | 3.3 |
| F(5%) | | n.s. | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|------|
| 0-0-0 | 2717 | 47.9 | 57.3 | 59.5 |
| 100-40-40 | 4631 | 47.3 | 57.1 | 59.5 |
| 150-60-60 | 5411 | 51.0 | 56.4 | 58.8 |
| 200-80-80 | 5975 | 48.0 | 57.1 | 59.3 |

| | | | | |
|-----------------|-------|------|------|------|
| C.D.(5%) Ai-Aj | 241.2 | 4.4 | 1.6 | 1.5 |
| C.V.(%) Error A | 5.8 | 10.2 | 3.2 | 2.8 |
| F(5%) | s | n.s. | n.s. | n.s. |

| | | | | |
|--------------|------|------|------|------|
| HKH 312 | 4714 | 50.4 | 56.1 | 58.3 |
| HKH 307 | 4594 | 50.1 | 56.8 | 59.0 |
| 164-7-6X1105 | 4718 | 44.8 | 57.9 | 60.2 |
| HKH 311 | 4956 | 47.7 | 56.8 | 59.3 |
| HM 9 | 4435 | 49.6 | 57.4 | 59.8 |

| | | | | |
|---------------|-------|-----|------|------|
| C.D.(5%)Bi-Bj | 363.9 | 3.2 | 1.4 | 1.6 |
| C.V.(%)ErrorB | 9.3 | 7.9 | 3.0 | 3.3 |
| F(5%) | n.s. | s | n.s. | n.s. |

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Table 59: Effect of Fertility levels and genotype on grain yield of maize (Full Season White) trail Kharif 2009 at Karnal.

| Main Plot N Levels | Sub Plot Genotype | Grain Yield (Kg/ha) | Plant Stand (000/ha) | Days to 50% Tasseling | Days to 50% Silking |
|--------------------|-------------------|---------------------|----------------------|-----------------------|---------------------|
| 0-0-0 | HKH 406 | 1847 | 46.8 | 58.5 | 60.5 |
| | HKH 407 | 3260 | 47.7 | 57.0 | 59.0 |
| | HM 5 | 3282 | 51.3 | 59.2 | 61.2 |
| 100-40-40 | HKH 406 | 3472 | 46.2 | 56.3 | 58.3 |
| | HKH 407 | 5190 | 50.9 | 57.5 | 59.7 |
| | HM 5 | 5257 | 50.5 | 57.7 | 60.2 |
| 150-60-60 | HKH 406 | 4052 | 45.2 | 58.8 | 60.8 |
| | HKH 407 | 6120 | 52.7 | 57.3 | 59.5 |
| | HM 5 | 6122 | 50.8 | 58.3 | 60.3 |
| 200-80-80 | HKH 406 | 4492 | 49.0 | 59.5 | 61.5 |
| | HKH 407 | 6700 | 53.7 | 58.7 | 60.8 |
| | HM 5 | 7053 | 51.8 | 59.2 | 61.2 |

| | | | | |
|--------------------|--------|------|------|------|
| Location mean | 4737.1 | 49.7 | 58.2 | 60.3 |
| C.D.(5%) AiBj-AiBk | 375.2 | 2.3 | 2.2 | 2.1 |
| C.D.(5%) AiBk-AjBk | 353.8 | 2.6 | 2.4 | 2.4 |
| F(5%) | s | s | n.s. | n.s. |

| | | | | |
|-----------|------|------|------|------|
| 0-0-0 | 2796 | 48.6 | 58.2 | 60.2 |
| 100-40-40 | 4639 | 49.2 | 57.2 | 59.4 |
| 150-60-60 | 5431 | 49.6 | 58.2 | 60.2 |
| 200-80-80 | 6082 | 51.5 | 59.1 | 61.2 |

| | | | | |
|-----------------|-------|-----|------|------|
| C.D.(5%) Ai-Aj | 177.3 | 1.8 | 1.6 | 1.7 |
| C.V.(%) Error A | 5.3 | 5.1 | 3.9 | 3.9 |
| F(5%) | s | s | n.s. | n.s. |

| | | | | |
|---------|------|------|------|------|
| HKH 406 | 3465 | 46.8 | 58.3 | 60.3 |
| HKH 407 | 5318 | 51.3 | 57.6 | 59.8 |
| HM 5 | 5428 | 51.1 | 58.6 | 60.7 |

| | | | | |
|---------------|-------|-----|------|------|
| C.D.(5%)Bi-Bj | 187.6 | 1.2 | 1.1 | 1.1 |
| C.V.(%)ErrorB | 6.8 | 4.0 | 3.3 | 3.0 |
| F(5%) | s | s | n.s. | n.s. |

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Table 60: Effect of Fertility levels and genotype on grain yield of Quality Protein Maize Station Trail Kharif 2009 at Karnal.

| Main Plot N Levels | Sub Plot Genotype | Plant Stand (000/ha) | Days to 50% Tasseling | Days to 50% Silking |
|--------------------|-------------------|----------------------|-----------------------|---------------------|
| 0-0-0 | HQPM 20 | 75.7 | 56.7 | 58.7 |
| | HQPM21 | 73.0 | 57.3 | 59.3 |
| | HQPM22 | 65.0 | 57.0 | 59.0 |
| | 191-2-6X163 | 71.7 | 57.7 | 60.3 |
| | HQPM1 | 77.3 | 58.0 | 60.3 |
| 100-40-40 | HQPM 20 | 74.7 | 55.3 | 57.3 |
| | HQPM21 | 72.0 | 57.0 | 59.3 |
| | HQPM22 | 68.7 | 57.7 | 60.3 |
| | 191-2-6X163 | 71.3 | 56.7 | 59.0 |
| | HQPM1 | 71.3 | 59.0 | 61.7 |
| 150-60-60 | HQPM 20 | 77.3 | 55.7 | 58.3 |
| | HQPM21 | 80.3 | 55.7 | 58.0 |
| | HQPM22 | 75.0 | 58.7 | 61.0 |
| | 191-2-6X163 | 76.7 | 56.0 | 58.3 |
| | HQPM1 | 76.7 | 56.0 | 58.3 |
| 200-80-80 | HQPM 20 | 77.7 | 56.7 | 58.7 |
| | HQPM21 | 78.3 | 57.3 | 59.3 |
| | HQPM22 | 62.7 | 58.3 | 60.3 |
| | 191-2-6X163 | 69.7 | 56.7 | 59.3 |
| | HQPM1 | 75.0 | 56.7 | 58.7 |

| | | | |
|--------------------|------|------|------|
| Location mean | 73.5 | 57.0 | 59.3 |
| C.D.(5%) AiBj-AiBk | 9.7 | 2.9 | 3.3 |
| C.D.(5%) AiBk-AjBk | 10.9 | 3.0 | 3.3 |
| F(5%) | n.s. | n.s. | n.s. |

| | | | |
|-----------|------|------|------|
| 0-0-0 | 72.5 | 57.3 | 59.5 |
| 100-40-40 | 71.6 | 57.1 | 59.5 |
| 150-60-60 | 77.2 | 56.4 | 58.8 |
| 200-80-80 | 72.7 | 57.1 | 59.3 |

| | | | |
|-----------------|------|------|------|
| C.D.(5%) Ai-Aj | 6.7 | 1.6 | 1.5 |
| C.V.(%) Error A | 10.2 | 3.2 | 2.8 |
| F(5%) | n.s. | n.s. | n.s. |

| | | | |
|-------------|------|------|------|
| HQPM 20 | 76.3 | 56.1 | 58.3 |
| HQPM21 | 75.9 | 56.8 | 59.0 |
| HQPM22 | 67.8 | 57.9 | 60.2 |
| 191-2-6X163 | 72.3 | 56.8 | 59.3 |
| HQPM1 | 75.1 | 57.4 | 59.8 |

| | | | |
|---------------|-----|------|------|
| C.D.(5%)Bi-Bj | 4.9 | 1.4 | 1.6 |
| C.V.(%)ErrorB | 7.9 | 3.0 | 3.3 |
| F(5%) | s | n.s. | n.s. |

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Table 61: Effect of UI-modified Urea on maize grain yield and yield characters at Karr

| Treatment | Grain Yield (Kg/ha) | Plant Stand (000/ha) | Plant Height (cm) | Ear Height (cm) |
|--|---------------------|----------------------|-------------------|-----------------|
| T ₁ - Control (No N) | 25798 | 41881 | 168.3 | 71.7 |
| T ₂ - Urea @ 150kgN/ha | 45901 | 46135 | 180.0 | 83.3 |
| T ₃ - Urea with A11 @ 150kgN/ha | 49586 | 46462 | 184.0 | 84.3 |
| T ₄ - Urea with A12 @ 150kgN/ha | 49108 | 46626 | 184.3 | 82.3 |
| T ₅ - Urea with A13 @ 150kgN/ha | 48485 | 45971 | 184.0 | 82.7 |
| T ₆ - Urea with A14 @ 150kgN/ha | 47432 | 46380 | 180.7 | 82.0 |
| T ₇ - Urea @ 187.5kgN/ha | 49443 | 46626 | 182.7 | 84.0 |
| Mean | 45107.7 | 45726.0 | 180.6 | 81.5 |
| CD | 2541.9 | 989.4 | 1.8 | 2.8 |
| CV (%) | 3.2 | 1.2 | 0.6 | 1.9 |
| Significance | S | S | S | S |

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Table 62: Weed management in maize at Pantnagar.

| Treatment | Grain Yield (Kg/ha) | Cob Yield (Kg/ha) | No. of Plant (000/ha) | No of Cobs (000/ha) | Plant Height (cm) | Days to 50% Tassel ing | Days to 50% Silking | Cob Length (cm) | Cob Girth (cm) | Moistur e (%) | Weed Dry Weight/m ² |
|----------------|---------------------|-------------------|-----------------------|---------------------|-------------------|------------------------|---------------------|-----------------|----------------|---------------|--------------------------------|
| T ₁ | 4981 | 8000 | 64.8 | 58.3 | 168.0 | 54.7 | 58.7 | 17.5 | 13.0 | 25.7 | 100.4 |
| T ₂ | 5509 | 8963 | 65.7 | 59.3 | 198.0 | 54.0 | 58.3 | 18.0 | 13.7 | 25.0 | 79.0 |
| T ₃ | 5870 | 9389 | 63.0 | 61.1 | 188.0 | 53.3 | 58.3 | 14.8 | 13.8 | 26.3 | 68.1 |
| T ₄ | 4157 | 6954 | 64.8 | 53.7 | 194.7 | 53.7 | 58.0 | 16.8 | 12.6 | 26.0 | 85.1 |
| T ₅ | 4833 | 7685 | 62.0 | 52.8 | 174.3 | 53.7 | 57.7 | 16.1 | 13.3 | 26.3 | 95.7 |
| T ₆ | 6046 | 9704 | 66.7 | 59.3 | 193.3 | 55.0 | 58.7 | 16.6 | 13.3 | 26.0 | 91.9 |
| T ₇ | 4398 | 7185 | 52.8 | 44.4 | 176.3 | 53.0 | 57.3 | 16.5 | 14.2 | 26.0 | 103.2 |
| T ₈ | 4009 | 6574 | 56.5 | 50.0 | 185.7 | 54.3 | 58.7 | 14.9 | 13.6 | 26.3 | 246.5 |
| T ₉ | 6278 | 9963 | 51.9 | 48.1 | 157.7 | 54.7 | 58.7 | 16.3 | 12.4 | 26.3 | 6.0 |
| Mean | 5120.4 | 8268.5 | 60.9 | 54.1 | 181.8 | 54.0 | 58.3 | 16.4 | 13.3 | 26.0 | 97.3 |
| CD | 482.6 | 673.1 | 13.8 | 7.9 | 29.9 | 1.0 | 1.2 | 3.9 | 1.1 | 1.4 | 21.3 |
| CV (%) | 5.4 | 4.7 | 13.1 | 8.4 | 9.5 | 1.1 | 1.2 | 13.8 | 4.9 | 3.1 | 12.7 |
| Significance | S | S | N.S. | S | N.S. | S | N.S. | N.S. | N.S. | N.S. | S |

Treatments: 09

T1 : Atrazine 1.0 kg a.i./ha - P.E. (2-3 DAS)

T2 : Metribuzine @ 0.25 kg a.i./ha P.E. (2-3 DAS)

T3 : Alchlolor @ 0.5 kg a.i./ha + Atrazine @0.5 kg a.i./ha - P.E.

T4 : Pendimethalin @ 0.5 kg a..i/ha P.E. (2-3 DAS) + Atrazine @0.5 kg a.i./ha - P.E.

T5 : Oxadiargyl @ 0.09 kg/ha (80% WP, top star) - PE

T6 : Atrazine 0.5 kg a.i./ha - P.E. followed by 2,4 D-DEE @ 0.4 kg a.i./ha POE at 25 DAS,

T7 : Cover crop (Cowpea)

T8 : Weedy

T9 : Weed free

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Table 63: Weed management in maize at Banswara.

| Treatment | Grain Yield (Kg/ha) |
|---|---------------------|
| T ₁ : Atrazine 1.0 kg a.i/ha pre-em (2-3 DAS) | 3116 |
| T ₂ : Metribuzine 0.25 kg a.i/ha pre-em | 2773 |
| T ₃ : Alachlor 0.5 kg a.i/ha+Atrazine 0.5 kg a.i/hakg a.i/ha | 3493 |
| T ₄ : Pendimethalin 0.5 kg a.i/ha+Atrazine 0.5 kg a.i/ha | 3747 |
| T ₅ : Pendimethalin 1.0 kg a.i/ha | 3049 |
| T ₆ : Atrazine 0.5 kg a.i/ha | 2849 |
| T ₇ : Atrazine 0.5 kg a.i/ha fb 2,4-DEE 0.4 kg a.i/ha PE at 25 DAS | 4164 |
| T ₈ : Cover crops (Cowpea) | 2556 |
| T ₉ : Weedy check | 1516 |
| T ₁₀ : Weed free | 4538 |

| | |
|--------------|--------|
| Mean | 3180.0 |
| CD | 435.4 |
| CV (%) | 8.0 |
| Significance | S |

Table 64: Efficacy of different herbicides alone and in combination against complex weed flora in kharif maize (kharif 2009) at Karnal.

| Treatment | Dose (g/ha) | Time (DAS) | Dry weight of weeds (g/m ²) | | Weed control (%) | | | Phyto-toxicity (%) | Grain yield (kg/ha) |
|--------------|-------------|------------|---|-------------|------------------|--------|-----|--------------------|---------------------|
| | | | Grassy | BLW+ Sedges | Grassy | Sedges | BLW | | |
| ATR | 1000 | 3 | 34.6 | 50.1 | 85 | 0 | 98 | 0 | 2763 |
| MTR | 250 | 3 | 9.2 | 70.9 | 97 | 0 | 98 | 0 | 3063 |
| OXL | 90 | 3 | 44.3 | 40 | 85 | 0 | 98 | 0 | 2688 |
| PMN+ATR | 1000+500 | 3 | 3.5 | 54.1 | 96 | 0 | 98 | 0 | 3069 |
| PMN+ESN | 1000+15 | 3 | 27.6 | 42.3 | 97 | 16.7 | 98 | 0 | 2902 |
| ATR+ESN | 500+15 | 3 | 75.4 | 23.7 | 38.3 | 38.3 | 98 | 0 | 2198 |
| ATR-2,4-D | 500-400 | 25-Mar | 41.1 | 8.5 | 85 | 51.7 | 98 | 0 | 3294 |
| ATR-AZS | 500-20 | 15-Mar | 74.7 | 0 | 90 | 100 | 100 | 100 | 0 |
| HSN+ATR | 40+1000 | 15 | 77.2 | 0 | 3.3 | 98 | 98 | 0 | 1837 |
| HSN | 75 | 15 | 100.6 | 0 | 0 | 100 | 100 | 0 | 1762 |
| Cover crop | | | 89.7 | 6.2 | 50 | 51.7 | 50 | 0 | 2201 |
| Hand weeding | | 20, 40 | 0 | 0 | 100 | 100 | 100 | 0 | 3499 |
| Weedy check | | | 196.6 | 43.8 | 0 | 0 | 0 | 0 | 1339 |
| CD 5% | | | 24.3 | 17.2 | - | - | - | - | 427 |

*ATR, atrazine; MTR, metribuzine; OXL, oxadiargyl; PMN, pendimethalin; ESN, ethoxysulfuron; AZS, azimsulfuron; HSN, halosulfuron; H.W., hand weeding

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Table: 65 Effect of weed management on the productivity of quality protein maize at Udaipur.

| Treatment | Weed Intensity of Grassy Weed (m ²) | | | Weed Intensity Broad Leaf Weed (m ²) | | | Weed Intensity Sedges(m ²) | | |
|-----------------|---|--------|--------|--|--------|--------|--|--------|--------|
| | 30 DAS | 60 DAS | 90 DAS | 30 DAS | 60 DAS | 90 DAS | 30 DAS | 60 DAS | 90 DAS |
| T ₁ | 33.0 | 50.3 | 55.0 | 6.3 | 12.0 | 14.0 | 3.0 | 5.0 | 7.0 |
| T ₂ | 40.0 | 60.0 | 65.0 | 4.0 | 8.0 | 10.0 | 3.0 | 5.0 | 6.7 |
| T ₃ | 20.0 | 35.3 | 40.0 | 6.0 | 12.0 | 14.0 | 2.0 | 3.0 | 4.7 |
| T ₄ | 20.0 | 40.0 | 45.0 | 6.0 | 8.0 | 11.3 | 3.0 | 4.0 | 6.3 |
| T ₅ | 8.0 | 10.0 | 16.0 | 3.0 | 4.0 | 6.3 | 1.0 | 1.0 | 2.0 |
| T ₆ | 6.0 | 8.0 | 14.0 | 3.0 | 3.3 | 5.3 | 1.0 | 1.0 | 1.3 |
| T ₇ | 45.0 | 60.0 | 65.0 | 6.0 | 10.0 | 13.0 | 3.0 | 5.0 | 7.0 |
| T ₈ | 50.0 | 65.3 | 70.7 | 4.0 | 8.0 | 11.3 | 2.0 | 4.0 | 6.0 |
| T ₉ | 30.0 | 40.0 | 45.7 | 6.3 | 2.3 | 4.3 | 3.0 | 5.0 | 7.0 |
| T ₁₀ | 32.0 | 8.3 | 13.0 | 7.0 | 1.3 | 1.0 | 3.0 | 5.0 | 5.3 |
| T ₁₁ | 70.3 | 90.3 | 96.3 | 30.0 | 11.7 | 13.0 | 2.0 | 4.0 | 7.3 |
| T ₁₂ | 4.7 | 8.0 | 45.0 | 2.3 | 9.0 | 12.3 | 2.0 | 4.0 | 7.0 |
| T ₁₃ | 90.3 | 119.7 | 125.3 | 35.0 | 30.0 | 32.7 | 3.0 | 5.0 | 7.7 |
| Mean | 34.6 | 45.8 | 53.5 | 9.2 | 9.2 | 11.4 | 2.4 | 3.9 | 5.8 |
| CD | 6.3 | 8.6 | 26.6 | 1.7 | 2.2 | 2.3 | 1.2 | 1.4 | 1.4 |
| CV (%) | 10.8 | 11.1 | 29.5 | 11.0 | 14.2 | 11.7 | 29.6 | 20.9 | 14.4 |
| Significance | S | S | S | S | S | S | S | S | S |

| Treatment | Grain Yield (Kg/ha) | No. of Plant (000/ha) | No. of Cobs (000/ha) | Plant Height (cm) | |
|-----------------|---------------------|-----------------------|----------------------|-------------------|------------|
| | | | | 30 DAS | At Harvest |
| T ₁ | 4019 | 58.9 | 56.0 | 80.0 | 185.0 |
| T ₂ | 3819 | 58.2 | 56.0 | 74.0 | 190.0 |
| T ₃ | 4256 | 60.9 | 59.3 | 82.0 | 195.3 |
| T ₄ | 3936 | 58.2 | 56.0 | 79.3 | 185.0 |
| T ₅ | 4011 | 58.7 | 57.3 | 50.3 | 170.3 |
| T ₆ | 4333 | 60.2 | 58.7 | 57.0 | 172.0 |
| T ₇ | 3644 | 54.2 | 52.0 | 65.0 | 172.3 |
| T ₈ | 3627 | 54.7 | 52.0 | 56.0 | 162.7 |
| T ₉ | 3723 | 58.7 | 53.3 | 80.3 | 180.0 |
| T ₁₀ | 0 | 0.0 | 0.0 | 78.0 | 0.0 |
| T ₁₁ | 2027 | 53.6 | 34.7 | 71.0 | 147.3 |
| T ₁₂ | 5266 | 62.4 | 60.2 | 85.3 | 225.0 |
| T ₁₃ | 1939 | 33.3 | 33.3 | 72.0 | 157.0 |
| Mean | 3430.5 | 51.7 | 48.4 | 71.6 | 164.8 |
| CD | 521.3 | 6.3 | 4.6 | 8.7 | 11.9 |
| CV (%) | 9.0 | 7.3 | 5.6 | 7.2 | 4.3 |
| Significance | S | S | S | S | S |

*Treatment details is on next page

A - 116 (b)

Treatment detail:

- T₁ Atrazine 1 kg/ha PE
- T₂ Metribuzin 0.25 kg/ha PE
- T₃ Alachlore 0.25 kg ai/ha+ Atrazine 0.5 kg ai/ha PE
- T₄ Pendi 0.5 kg ai/ha + Atrazine 0.5 kg ai /ha PE
- T₅ Pendi 1 kg ai/ha +Ethoxy sulfuron 0.01 kh ai/ha PE
- T₆ Atrazine 0.5 kg ai/ha + Ethoxy sulfuron 0.01 kg/ha PE
- T₇ Oxadi. 0.09 kg ai/ha using 80% WP (Top star)
- T₈ Oxadi. 0.09 kg ai/ha using 6% EC (raft)
- T₉ Atrazine 0.5 kg ai/ha PE fb 2,4D 0.4 kg ai/ha 25 DAS
- T₁₀ Atrazine 0.5 kg ai/ha PE fb Azumsulfuron 0.02 kg ai/ha 25 DAS
- T₁₁ Maize + cow pea as cover crop
- T₁₂ Weed free

Entomology 2009



INSECT HANDLING DEVICE

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Sixty-one germplasm of different maturity period were evaluated for resistance against *Chilo partellus* under artificial infestation condition. Some of the less susceptible germplasm are: Full Season Maturity: G K –3059 (AET 1st Yr); Medium Maturity: BH-406126 (AET 1st Yr); Early Maturity: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr) Extra Early Maturity: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr) QPM: VEH QPM-3027. Two hundred inbred lines were also evaluated in which 14 were least susceptible; 153 moderately susceptible and 33 susceptible. These lines will again be screened next season. The genotype DMRE-1 was found to be least susceptible to *Sesamia inferens*.

Habitat manipulation has been found to be one of the very potential pest management tactics in maize ecosystem. Based on percent plant of infestation, leaf injury rating and yield, maize intercropped with cowpea in the ratio of 2:1 row it as par with maize pest control by treatment with Endosulfan at Kolhapur. However in intercrop there is additional gain of cowpea produce and N₂ fixation for next crop. Also in Hyderabad and Karnal maize intercropped with cowpea in the ratio of 2:1 was on par with treatment with Endosulfan. Napier millet was found to be a good trap crop for the management of *C. partellus* at Ludhiana. Marigold for *Helicoverpa armigera*, cauliflower for *Spodoptera litura* and napier millet for *Chilo partellus* and *Sesamia inferens* were observed to be good trap crop.

Table 1: Summary of germplasm evaluation against *Chilo partellus* in each maturity group at different Coordinating Centres

| Level of susceptibility | Extra –early maturity | | Early maturity | | Medium maturity | | Full season maturity | | QPM 2-3 |
|-------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|
| | 1 st year | 2 nd year | 1 st year | 2 nd year | 1 st year | 2 nd year | 1 st year | 2 nd year | |
| | Total Entry | | | | | | | | |
| | 4 | 3 | 7 | 1 | 14 | 9 | 18 | 3 | 2 |
| Udaipur | | | | | | | | | |
| Least susceptible | - | - | - | - | 1 | - | - | - | - |
| Moderately susceptible | 3 | 3 | 6 | 1 | 1 | 2 | 1 | 1 | 1 |
| Highly susceptible | 1 | - | 1 | - | 12 | 7 | 17 | 2 | 1 |
| Ludhiana | | | | | | | | | |
| Least susceptible | - | - | - | - | 1 | 2 | 4 | 1 | - |
| Moderately susceptible | 4 | 3 | 4 | 1 | 13 | 7 | 14 | 2 | - |
| Highly susceptible | - | - | 3 | - | - | - | - | - | 2 |

| Hyderabad | | | | | | | | | |
|------------------------|---|---|---|---|----|---|----|---|---|
| Least susceptible | 3 | 1 | 1 | - | 2 | 1 | 2 | 1 | 1 |
| Moderately susceptible | 1 | 2 | 4 | - | 10 | 7 | 12 | 1 | - |
| Highly susceptible | - | - | 2 | 1 | 2 | 1 | 4 | 1 | 1 |
| Karnal | | | | | | | | | |
| Least susceptible | 1 | 1 | 1 | - | - | - | 3 | - | - |
| Moderately susceptible | 3 | 1 | 6 | 1 | 4 | 5 | 15 | 3 | 2 |
| Highly susceptible | - | 1 | - | - | 10 | 4 | - | - | - |
| Ranchi | | | | | | | | | |
| Least susceptible | 3 | 2 | 5 | - | - | - | - | - | 2 |
| Moderately susceptible | 1 | 1 | 2 | 1 | - | - | - | - | - |
| Highly susceptible | - | - | - | - | - | - | - | - | - |
| Kolhapur | | | | | | | | | |
| Least susceptible | 2 | 1 | 1 | - | 5 | 2 | 3 | 1 | 1 |
| Moderately susceptible | 2 | 2 | 4 | - | 9 | 6 | 15 | 2 | 1 |
| Highly susceptible | - | - | 2 | 1 | - | 1 | - | - | - |

The promising germplasm showing resistance against *C. partellus* are:

Full Season Maturity: G K -3059 (AET 1st Yr)
Medium Maturity: BH-406126 (AET 1st Yr)
Early Maturity: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr)
Extra Early Maturity: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr)
QPM: VEH QPM-3027

Table 2: Screening of maize germplasm (Trial No. 75, Full Season Maturity) to *Chilo partellus* during Kharif, 2009

| Ent. No. | Pedigree | Delhi | Udaipur | Ludhiana | Hyderabad | Karnal | Kolhapur | Mean |
|--------------------------------|--------------|-------|---------|----------|-----------|--------|----------|------|
| AET 1st YEAR | | | | | | | | |
| 1 | B H-417135 | 4.2 | 8.2 | 4.8 | 6.2 | 3.6 | 4.1 | 5.2 |
| 2 | B H-407138 | 4.4 | 7.4 | 4.0 | 5.8 | 3.7 | 2.9 | 4.7 |
| 3 | X 7B 401 | 2.0 | 7.4 | 5.9 | 5.8 | 2.7 | 4.9 | 4.8 |
| 4 | X 7B 403 | 1.4 | 3.6 | 5.4 | 3.8 | 4.7 | 5.5 | 4.1 |
| 5 | LAXMI-9495 | 1.2 | 7.6 | 4.3 | 4.8 | 4.8 | 3.0 | 4.2 |
| 6 | G K -3059 | 1.4 | 9.0 | 2.4 | 5.0 | 2.6 | 3.2 | 3.9 |
| 7 | PAC-745 | 1.3 | 9.0 | 3.6 | 6.0 | 3.4 | 3.0 | 4.4 |
| 8 | M 05 008 | 1.2 | 9.0 | 3.1 | 2.0 | 5.4 | 5.0 | 4.3 |
| 9 | PHS - 520247 | 1.3 | 8.2 | 4.1 | 7.6 | 3.6 | 4.7 | 4.9 |
| 10 | PFMH - 9737 | 2.8 | 9.0 | 3.3 | 4.4 | 2.7 | 3.8 | 4.3 |
| 11 | SMH-4502 | 1.3 | 9.0 | 3.6 | 3.0 | 5.3 | 3.6 | 4.3 |
| 12 | JKMH-8003 | 1.2 | 9.0 | 2.2 | 5.8 | 4.0 | 4.8 | 4.5 |
| 13 | BISCO-4564 | 1.9 | 9.0 | 2.7 | 6.0 | 4.4 | 4.8 | 4.8 |
| 14 | KMH-3669 | 1.5 | 9.0 | 3.8 | 4.4 | 4.5 | 3.9 | 4.5 |
| 15 | KMH SUPER-4 | 1.4 | 9.0 | 2.2 | 5.8 | 4.2 | 5.3 | 4.6 |
| 16 | B L-2801 | 2.2 | 6.2 | 3.5 | 7.4 | 4.4 | 4.0 | 4.6 |
| 17 | HTCH-5401 | 1.3 | 9.0 | 4.6 | 6.2 | 4.4 | 4.4 | 5.0 |
| 18 | MCH-38 | 1.4 | 9.0 | 4.1 | 4.2 | 3.3 | 4.2 | 4.4 |
| AET 2nd YEAR | | | | | | | | |
| 19 | X 6B 269 | 1.6 | 9.0 | 3.1 | 2.2 | 4.4 | 4.6 | 4.1 |
| 20 | MDMH-101 | 1.2 | 9.0 | 3.1 | 5.4 | 4.7 | 2.6 | 4.3 |
| 21 | MCH-36 | 1.3 | 6.0 | 2.3 | 6.8 | 3.3 | 4.7 | 4.1 |
| CHECKS | | | | | | | | |
| 22 | BIO-9681 | 1.4 | 9.0 | 5.2 | 3.8 | 5.5 | 5.1 | 5.0 |
| 23 | SEEDTEC-2324 | 1.3 | 9.0 | 3.6 | 7.2 | 5.1 | 6.2 | 5.4 |
| 24 | HQPM-1 | 1.3 | 9.0 | 4.8 | 3.0 | 4.7 | 4.4 | 4.5 |
| 25 | HQPM-7 | 1.3 | 9.0 | 3.3 | 6.0 | 3.7 | 2.7 | 4.3 |

Mean leaf injury rating on 1-9 scale

Table 3: Screening of maize germplasm (Trial No. 76, Medium Maturity) to *Chilo partellus* during Kharif, 2009

| Ent. No. | Pedigree | Delhi | Udaipur | Ludhiana | Hyderabad | Karnal | Kolhapur | Mean |
|--------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------|
| AET 1st YEAR | | | | | | | | |
| 1 | JH-31240 | 2.0 | 9.0 | 5.1 | 4.4 | 7.3 | 2.8 | 5.1 |
| 2 | JH-31242 | 1.4 | 9.0 | 4.0 | 5.6 | 6.2 | 2.8 | 4.8 |
| 3 | EH-1858 | 1.4 | 9.0 | 4.6 | 5.6 | 6.1 | 4.6 | 5.2 |
| 4 | EH-1877 | 1.3 | 9.0 | 4.3 | 5.2 | 5.8 | 3.7 | 4.9 |
| 5 | BH-406126 | 2.0 | 1.0 | 5.2 | 2.8 | 4.8 | 2.6 | 3.1 |
| 6 | BH-408005 | 1.5 | 9.0 | 5.7 | 6.8 | 4.0 | 3.9 | 5.1 |
| 7 | KLM-766 | 3.3 | 9.0 | 4.4 | 4.0 | 6.6 | 4.2 | 5.2 |
| 8 | EC-3160 | 1.4 | 8.0 | 3.2 | 5.6 | 4.3 | 3.0 | 4.3 |
| 9 | KH-717 | 1.7 | 9.0 | 4.5 | 4.3 | 7.1 | 4.0 | 5.1 |
| 10 | KH-9452 | 1.9 | 9.0 | 4.4 | 6.0 | 7.3 | 4.5 | 5.5 |
| 11 | HYBRID VMH-4060 | 1.2 | 9.0 | 3.8 | 3.0 | 7.3 | 3.2 | 4.6 |
| 12 | KMH-3712 | 1.7 | 9.0 | 3.4 | 3.5 | 6.4 | 3.7 | 4.6 |
| 13 | BL -2802 | 1.5 | 4.0 | 2.3 | 7.0 | 6.9 | 2.7 | 4.1 |
| 14 | MCH-37 | 2.6 | 9.0 | 3.8 | 5.0 | 7.1 | 3.6 | 5.2 |
| AET 2nd YEAR | | | | | | | | |
| 15 | JH-31153 | 1.3 | 9.0 | 5.1 | 2.6 | 5.4 | 2.6 | 4.3 |
| 16 | BH-4062(RETES.) | 1.0 | 9.0 | 2.9 | 6.2 | 7.8 | 2.7 | 4.9 |
| 17 | CP-828 | 1.6 | 9.0 | 2.9 | 5.4 | 6.3 | 3.7 | 4.8 |
| 18 | KDMH-1001 | 1.5 | 5.5 | 3.6 | 5.2 | 5.8 | 3.1 | 4.1 |
| 19 | BISCO-111 | 1.0 | 7.5 | 3.8 | 3.2 | 7.5 | 3.2 | 4.4 |
| 20 | BISCO-555 | 1.3 | 9.0 | 3.6 | 5.3 | 5.1 | 5.7 | 5.0 |
| 21 | BISCO-855 | 1.0 | 7.2 | 5.0 | 5.4 | 5.6 | 3.4 | 4.6 |
| 22 | CP-838 | 1.1 | 7.6 | 4.8 | 3.4 | 7.7 | 6.2 | 5.1 |
| 23 | KAVERI-25K60 | 1.8 | 5.8 | 3.9 | 6.0 | 5.5 | 3.9 | 4.5 |
| CHECKS | | | | | | | | |
| 24 | NAVJOT | 1.4 | 2.2 | 4.0 | 2.6 | 5.6 | 3.3 | 3.2 |
| 25 | HM-8 | 1.4 | 9.0 | 4.0 | 3.8 | 4.7 | 2.9 | 4.3 |
| 26 | HM-9 | 4.7 | 9.0 | 4.4 | 5.2 | 5.9 | 3.1 | 5.4 |
| 27 | HM-10 | 2.3 | 7.6 | 4.2 | 4.7 | 5.2 | 2.9 | 4.5 |

Mean leaf injury rating on 1-9 scale

Table 4: Screening of maize germplasm (Trial No. 77, EarlyMaturity) to *Chilo partellus* during Kharif, 2009

| ENT .NO | Pedigree | Delhi | Udaipur | Ludhiana | Hyderabad | Karnal | Ranchi | Kolhapur | Mean |
|--------------------------------|----------------|------------|------------|------------|------------|------------|------------|------------|------|
| AET 1st YEAR | | | | | | | | | |
| 1 | COMP.R-2006-1 | 3.1 | 5.6 | 6.1 | 6.8 | 3.6 | 4.3 | 6.5 | 5.1 |
| 2 | COMP.R-2007-1 | 1.0 | 3.9 | 5.9 | 5.5 | 3.5 | 2.3 | 4.6 | 3.8 |
| 3 | UMC-10 | 1.0 | 4.8 | 3.5 | 4.6 | 3.5 | 2.2 | 5.1 | 3.5 |
| 4 | UMC-11 | 1.1 | 4.8 | 4.5 | 4.5 | 4.8 | 2.1 | 2.9 | 3.5 |
| 5 | UMC-12 | 2.2 | 5.2 | 6.2 | 2.8 | 3.2 | 2.0 | 5.0 | 3.8 |
| 6 | KML-9 | 1.1 | 6.3 | 7.1 | 6.4 | 3.5 | 3.6 | 7.0 | 5.0 |
| 7 | KML-15 | 1.4 | 3.4 | 5.3 | 3.2 | 3.0 | 2.0 | 5.1 | 3.3 |
| CHECKS | | | | | | | | | |
| 8 | PARKASH PRATAP | 1.6 | 3.4 | 5.9 | 4.4 | 3.6 | 3.8 | 2.9 | 5.1 |
| 9 | MAKKA-4 PRATAP | 1.1 | 2.6 | 7.0 | 8.0 | 3.8 | 3.9 | 7.8 | 3.8 |
| 10 | MAKKA-5 | 1.0 | 3.0 | 4.4 | 3.2 | 4.3 | 3.7 | 7.7 | 3.5 |
| AET 2nd YEAR | | | | | | | | | |
| 11 | JH-31110 | 1.2 | 4.0 | 5.6 | 6.6 | 3.6 | 3.4 | 7.3 | 5.1 |

Mean leaf injury rating on 1-9 Scale

Table 5: Screening of maize germplasm (Trial No. 78, Extra Early Maturity) to *Chilo partellus* during Kharif, 2009

| Ent . No. | Pedigree | Delhi | Udaipur | Ludhiana | Hyderabad | Karnal | Ranchi | Kolhapur | Mean |
|--------------------------------|---------------------|-------|---------|----------|-----------|------------|--------|----------|------|
| AET 1st YEAR | | | | | | | | | |
| 1 | FH-3463 | 1.00 | 6.0 | 5.2 | 3.4 | 5.4 | 2.4 | 2.8 | 3.7 |
| 2 | FH-3464 | 1.7 | 5.6 | 5.5 | 2.2 | 2.6 | 2.4 | 2.8 | 3.3 |
| 3 | FH-3473 | 2.00 | 7.7 | 5.8 | 2.4 | 4.5 | 5.6 | 4.6 | 4.6 |
| 4 | FQH-55 | 1.2 | 4.4 | 5.4 | 2.0 | 4.4 | 2.1 | 3.7 | 3.3 |
| AET 2nd YEAR | | | | | | | | | |
| 5 | FH-3356 (RETESTING) | 1.00 | 5.8 | 5.3 | 2.6 | 6.1 | 2.4 | 2.6 | 3.7 |
| 6 | FH-3358 (RETESTING) | 2.6 | 4.9 | 4.6 | 3.2 | 2.3 | 3.6 | 3.9 | 3.6 |
| 7 | FQH-38 | 1.6 | 5.6 | 5.2 | 5.4 | 5.2 | 2.6 | 4.2 | 4.3 |

| CHECKS | | | | | | | | | |
|--------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 8 | VIVEH HYBRID-21 | 1.5 | 5.0 | 4.0 | 6.3 | 5.9 | 2.8 | 3.0 | 4.1 |
| 9 | VIVEK HYBRID-17 | 1.7 | 5.4 | 4.7 | 2.0 | 4.8 | 3.8 | 4.0 | 3.8 |
| 10 | VIVEK QPM-9 | 1.8 | 5.4 | 5.1 | 4.5 | 5.9 | 2.8 | 4.6 | 4.3 |
| 11 | VIVEK HYBRID-9 | 1.1 | 4.3 | 4.8 | 2.6 | 5.3 | 4.2 | 3.2 | 3.6 |
| 12 | PARKASH | 1.0 | 5.7 | 7.1 | 7.0 | 3.0 | 2.1 | 3.7 | 4.2 |

Mean leaf injury rating on 1-9 Scale

Table 6: Screening of Quality Protein Maize germplasm (Trial QPM-2-3) to *Chilo partellus* during Kharif, 2009

| Ent. No. | Pedigree | Delhi | Udaipur | Ludhiana | Hyderabad | Karnal | Ranchi | Kolhapur | Mean |
|----------------|--------------|-------|---------|----------|-----------|--------|--------|----------|------|
| TRQPM-2 | | | | | | | | | |
| 1 | VEH QPM-3018 | 0.0 | 9.0 | 9.0 | 2.0 | 3.6 | 2.1 | 4.0 | 4.2 |
| TRQPM-3 | | | | | | | | | |
| 2 | VEH QPM-3027 | 1.3 | 3.1 | 6.2 | 6.7 | 4.9 | 2.0 | 3.0 | 3.9 |
| CHECK | | | | | | | | | |
| 3 | HQPM-1 | 3.6 | 3.3 | 5.8 | 6.7 | 3.6 | 2.2 | 2.7 | 4.0 |
| 4 | HQPM-5 | 1.4 | 3.8 | 4.8 | 3.3 | 3.5 | 2.1 | 3.6 | 3.2 |
| 5 | HQPM-7 | 1.4 | 2.8 | 4.8 | 6.8 | 2.8 | 2.0 | 3.7 | 3.5 |

Mean leaf injury rating on 1-9 Scale

Germplasm of different maturity periods showing resistance against *C. partellus* are:

Full Season Maturity: G K –3059 (AET 1st Yr)

Medium Maturity: BH-406126 (AET 1st Yr)

Early Maturity: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr)

Extra Early Maturity: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr)

QPM: VEH QPM-3027

Two hundred inbred lines were screened under artificial infestation condition at six centres.

Table 7: Inbred lines screened against stem borer *Chilo partellus* during Kharif, 2009

| S.No. | Entry NO | Pedigree | AVERAGE MEAN LIR | | | | | |
|-------|----------|---|------------------|----------------|----------------|---------|----------|-----------|
| | | | Delhi* | Karnal | Ludhiana | Udaipur | Kolhapur | Hyderabad |
| 1. | 2270 | HSSW (HS)C1f3(SH2SH2) | 1.0 | 5.4 | 7.1 | 6.0 | 1.3 | 2.9 |
| 2. | 2271 | Insec 2 (K4) | 1.0 | no Germination | No germination | 8.8 | 1.1 | 9.0 |
| 3. | 2272 | Insec 2 (K4)' Insec (K4) | 1.0 | 7.6 | 3.3 | 1.0 | 1.2 | 3.5 |
| 4. | 2273 | Mas madu (sh2 sh2) | 1.0 | 7.0 | 6.0 | 3.4 | 1.0 | 6.8 |
| 5. | 2278 | NSS2W9301A(sh2sh2) | 1.8 | 6.0 | 6.3 | 3.0 | 1.6 | 7.5 |
| 6. | 2280 | Sweet corn Insec 1 (K4) | 9.0 | 8.0 | No germination | 3.2 | 1.4 | 3.8 |
| 7. | 2281 | Win Sweet Corn | 1.0 | No germination | 7.5 | 3.0 | 1.1 | 6.0 |
| 8. | 2282 | WSCI X MUS MADHU | 1.0 | 7.0 | 8.1 | 7.4 | 1.2 | 5.2 |
| 9. | 2286 | 951-7 | 1.0 | 8.0 | 9.0 | 6.4 | 1.4 | 3.4 |
| 10. | 2287 | Dulce Amanillo (su su) ' Dulce Blanco (su su) | 1.0 | 2.0 | 1.3 | 3.5 | 1.1 | 2.0 |
| 11. | 2288 | Dulce Amanillo (su su) ' Dulce Blanco (su su) | 1.0 | 2.0 | 9.0 | 3.3 | 1.2 | 4.3 |
| 12. | 2289 | WINPOP-16 | 1.4 | 2.0 | 7.8 | 3.6 | 1.0 | 6.7 |
| 13. | 2290 | CP Golden Sweet 3 | 2.0 | 1.0 | 4.2 | 3.5 | 1.5 | 6.2 |
| 14. | 2291 | CUBA 378 | 2.4 | 5.5 | 4.5 | 3.8 | 1.2 | 2.8 |
| 15. | 2292 | CUBA 377 | 1.0 | 2.0 | 4.5 | 3.0 | 1.4 | 7.0 |
| 16. | 2293 | CUBA 379 | 1.0 | 2.0 | 6.7 | 8.0 | 1.0 | 4.8 |
| 17. | 2294 | CUBA 380 | 1.0 | 6.0 | 4.7 | 5.0 | 1.4 | 5.5 |
| 18. | 2296 | NC 392 | 1.0 | 7.0 | 4.3 | 3.8 | 1.0 | 2.0 |
| 19. | 2297 | DMSC 1 | 1.4 | no germination | 5.3 | 1.0 | 1.5 | 4.3 |
| 20. | 2298 | DMSC3 | 1.0 | no germination | 4.9 | 4.8 | 1.1 | 2.0 |
| 21. | 2299 | DDMSC-4-1 DR 10 | 1.0 | 2.0 | 9.0 | 3.0 | 1.3 | 7.5 |
| 22. | 2301 | DMSC 6 | 3.0 | 1.0 | 3.0 | 6.3 | 1.2 | 6.2 |
| 23. | 2303 | DMSC8 | 2.0 | 5.6 | 2.0 | 4.8 | 1.3 | 7.5 |
| 24. | 2304 | DMSC14 | 1.0 | 3.6 | 2.1 | 3.6 | 1.3 | 5.5 |
| 25. | 2306 | DMSC16 | 2.8 | 3.0 | 2.0 | 5.3 | 1.1 | 7.0 |
| 26. | 2307 | DMSC16 | 1.8 | 5.0 | 4.8 | 3.4 | 1.7 | 2.0 |
| 27. | 2308 | DMSC20 | 1.0 | 8.2 | 5.0 | 2.0 | 1.0 | 6.0 |

| | | | | | | | | |
|-----|------|---------------------------|------|---------------|---------|-----|-----|--------|
| 28. | 2309 | DMSC-22-3 | 1.75 | 8.0 | 5.7 | 2.6 | 1.0 | 3.8 |
| 29. | 2312 | DMSC28 | 1.8 | 3.0 | 2.0 | 2.8 | 1.0 | 2.0 |
| 30. | 2314 | DMSC36 | 1.0 | 2.0 | 2.3 | 3.4 | 1.4 | 3.5 |
| 31. | 2315 | DMSC-37-3 | 1.0 | 7.0 | 4.1 | 4.0 | 1.1 | 3.2 |
| 32. | 2316 | Gen11858 | 2.7 | 8.0 | 2.2 | 1.0 | 1.4 | 3.3 |
| 33. | 2317 | Sc Male | 1.0 | 3.0 | 5.0 | 1.5 | 1.3 | 4.8 |
| 34. | 2318 | HKI PC 4B | 2.4 | 5.0 | 2.0 | 2.0 | 1.0 | 4.8 |
| 35. | 2320 | HKI PC-4B-1 | 1.0 | 5.5 | 5.5 | 2.6 | 1.2 | 2.0 |
| 36. | 2321 | HKI-PC-BT-3 | 1.7 | 3.0 | 3.7 | 3.0 | 1.2 | 4.7 |
| 37. | 2323 | HKI-PC-5 | 1.0 | 6.2 | 5.8 | 3.4 | 1.7 | 4.3 |
| 38. | 2325 | HKI-PC-5 | 1.0 | 3.2 | No Germ | 4.5 | 1.2 | 2.0 |
| 39. | 2326 | HKI-PC-7 | 1.0 | 2.0 | 3.3 | 2.3 | 1.0 | 5.6 |
| 40. | 2327 | HKI-PC-8 | 1.0 | 4.0 | 2.4 | 2.3 | 1.9 | 2.0 |
| 41. | 2329 | HKI-PC-8-2 | 1.0 | 6.0 | 3.9 | 7.0 | 1.2 | 6.2 |
| 42. | 2330 | HKI-PC-8-2 | 1.0 | 4.5 | 7.0 | 7.5 | 1.4 | 6.2 |
| 43. | 2331 | WINPOP | 1.0 | 4.0 | 4.1 | 4.0 | 1.2 | 6.2 |
| 44. | 2332 | WINPOP | 1.0 | 4.0 | 5.7 | 6.0 | 1.7 | 6.5 |
| 45. | 2333 | WINPOP | 1.0 | 5.4 | 4.9 | 4.5 | 1.5 | 6.5 |
| 46. | 2334 | WINPOP | 1.0 | 5.2 | 4.3 | 7.8 | 1.6 | 3.0 |
| 47. | 2335 | WINPOP-8 | 1.0 | 4.3 | 6.6 | 8.0 | 2.2 | 5.5 |
| 48. | 2336 | WINPOP-21 | 1.0 | 6.0 | 6.7 | 5.5 | 1.2 | 4.3 |
| 49. | 2337 | WINPOP-21 | 1.0 | 2.0 | 5.3 | 6.8 | 1.3 | Absent |
| 50. | 2338 | WINPOP-43 | 1.0 | 5.0 | 3.9 | 5.2 | 1.5 | 2.0 |
| 51. | 2339 | WINPOP-43 | 1.0 | 2.0 | 5.2 | 2.2 | 1.7 | 2.0 |
| 52. | 2340 | WINPOPIIXWIPO PIII | 1.0 | 2.0 | 2.5 | 2.6 | 2.1 | 6.0 |
| 53. | 2342 | HKI-2-6-2-4(1-2)-4 | 1.0 | 1.0 | 2.1 | 2.0 | 1.7 | 6.0 |
| 54. | 2345 | HKI 209 | 1.0 | 3.0 | 4.2 | 2.4 | 1.3 | 7.6 |
| 55. | 2349 | HKI 226 | 1.0 | 4.6 | 6.7 | 3.0 | 1.3 | 7.3 |
| 56. | 2353 | HKI-536-7 | 2.1 | 4.2 | 9.0 | 2.2 | 1.0 | 2.0 |
| 57. | 2354 | HKI 586-1 WG'33 | 1.0 | 3.2 | 5.0 | 8.0 | 1.7 | 6.2 |
| 58. | 2357 | HKI 1040-5 | 2.0 | 3.5 | 9.0 | 3.0 | 2.2 | 6.7 |
| 59. | 2359 | HKI 1040-11 | 1.0 | 5.0 | 9.0 | 5.8 | 1.1 | 4.0 |
| 60. | 2360 | HKI-1040-11-7 | 1.0 | 4.5 | 7.7 | 7.5 | 1.0 | 5.0 |
| 61. | 2362 | HKI1040C2 | 1.0 | 8.0 | 4.7 | 2.6 | 1.0 | 4.3 |
| 62. | 2363 | HKI 1094-WG | 1.0 | 1.0 | 5.2 | 3.0 | 1.4 | 4.3 |
| 63. | 2368 | CML 451(P2) | 1.0 | 1.0 | 7.0 | 7.7 | 2.3 | 4.3 |
| 64. | 2369 | DTPYC9-F46-3-1 | 1.0 | 6.0 | 5.0 | 7.0 | 1.3 | 5.7 |
| 65. | 2370 | DTPWC9-F115-1-4 | 1.0 | 6.0 | 5.3 | 4.2 | 2.2 | 7.7 |
| 66. | 2371 | ESM-11-3 | 1.0 | 2.5 | 4.0 | 4.6 | 1.8 | 6.7 |
| 67. | 2372 | PFSR/51016-1 | 1.6 | 7.0 | 6.0 | 4.0 | 1.8 | 2.0 |
| 68. | 2374 | WS KHOTHAI-1- WAXY-1-1 | 1.0 | 6.0 | 3.3 | 2.2 | 1.2 | 2.0 |
| 69. | 2376 | Gen 6033 | 1.0 | 5.0 | 9.0 | 4.0 | 1.7 | 4.3 |
| 70. | 2378 | Hyd05R/2-1 | 1.0 | 2.0 | 2.8 | 2.0 | 1.0 | 4.4 |
| 71. | 2379 | Hyd05R/13-2 | 8.0 | 4.0 | 5.0 | 6.2 | 1.2 | 5.3 |
| 72. | 2384 | Hyd05R/204-1 | 1.0 | 6.0 | 5.2 | 4.0 | 1.5 | 5.2 |
| 73. | 2391 | LM 5 | 1.6 | 6.0 | 6.9 | 6.0 | 2.2 | 7.8 |
| 74. | 2392 | LM 6 | 3.9 | 8.0 | 3.5 | 5.0 | 2.5 | 5.8 |
| 75. | 2398 | LM 11 | 1.0 | 7.9 | 6.5 | 8.5 | 1.7 | 4.0 |
| 76. | 2399 | LM12 | 1.0 | 6.0 | 9.0 | 5.3 | 1.4 | 6.5 |
| 77. | 2404 | LM15 | 2.3 | 6.0 | 7.3 | 3.7 | 1.0 | 4.3 |
| 78. | 2405 | LM15 | 1.5 | no germina | 6.0 | 3.5 | 1.2 | 4.3 |

| | | | | | | | | |
|------|------|----------------------------|-----|----------------|---------|-----|-----|-----|
| | | | | tion | | | | |
| 79. | 2406 | LM16 | 1.0 | 8.0 | 4.7 | 2.6 | 2.9 | 3.8 |
| 80. | 2409 | LTP-1-1 | 1.0 | no germination | 8.0 | 3.6 | 1.7 | 2.0 |
| 81. | 2411 | V 335 | 1.0 | no germination | 7.4 | 3.0 | 1.4 | 7.2 |
| 82. | 2412 | V 341 | 1.1 | 8.4 | 9.0 | 2.0 | 1.5 | 9.0 |
| 83. | 2413 | V 341 | 1.8 | 5.0 | 9.0 | 7.2 | 2.4 | 7.0 |
| 84. | 2415 | V 351 | 1.0 | 5.0 | 0.0 | 3.0 | 2.1 | 2.6 |
| 85. | 2416 | V 351 | 1.0 | 5.4 | 6.0 | 6.2 | 1.1 | 5.3 |
| 86. | 2417 | V 351 | 1.0 | 3.0 | 5.2 | 4.0 | 1.5 | 2.3 |
| 87. | 2421 | NC 296-2 | 1.8 | 6.0 | 7.2 | 4.0 | 3.1 | 2.5 |
| 88. | 2429 | NC 406-1 | 2.1 | 8.2 | 9.0 | 4.5 | 2.1 | 2.0 |
| 89. | 2430 | NC 416 | 1.0 | 8.1 | 9.0 | 2.5 | 1.4 | 2.0 |
| 90. | 2435 | CM104 | 1.0 | no germination | 6.5 | 2.0 | 1.6 | 2.0 |
| 91. | 2436 | CM105 | 1.5 | 8.6 | 6.6 | 3.4 | 1.3 | 7.7 |
| 92. | 2437 | CM114 | 1.0 | 5.5 | 7.7 | 4.7 | 1.0 | 4.3 |
| 93. | 2440 | CM121 | 2.1 | 2.0 | 8.4 | 5.5 | 1.0 | 3.3 |
| 94. | 2441 | CM123 | 1.0 | no germination | 6.8 | 2.5 | 1.4 | 2.0 |
| 95. | 2442 | CM124 | 1.0 | 9.0 | No Germ | 2.0 | 2.5 | 7.7 |
| 96. | 2445 | CM128 | 3.4 | 7.5 | 8.0 | 2.0 | 1.1 | 4.3 |
| 97. | 2447 | CM129 | 1.1 | 8.0 | No Germ | 1.7 | 1.4 | 4.3 |
| 98. | 2449 | CM132 | 1.0 | 7.0 | 7.0 | 2.0 | 1.3 | 6.7 |
| 99. | 2450 | CM133 | 2.3 | 4.0 | 4.3 | 1.7 | 1.5 | 2.0 |
| 100. | 2456 | CM139 | 1.0 | 4.0 | 3.3 | 2.0 | 1.0 | 2.0 |
| 101. | 2459 | CM144 | 1.0 | 9.0 | 5.3 | 4.0 | 1.0 | 4.3 |
| 102. | 2461 | CM146 | 1.6 | 5.4 | 5.8 | 6.6 | 1.2 | 2.0 |
| 103. | 2462 | CM149 | 2.4 | 3.0 | 9.0 | 5.7 | 1.4 | 8.3 |
| 104. | 2467 | CM500 | 1.8 | 7.0 | 6.2 | 4.0 | 2.0 | 2.0 |
| 105. | 2468 | CM501 | 1.0 | 1.0 | 5.9 | 1.6 | 1.4 | 4.3 |
| 106. | 2469 | CM502 | 1.0 | 1.0 | 7.6 | 6.0 | 1.5 | 2.0 |
| 107. | 2471 | HKI C 78 | 2.1 | 4.5 | 6.7 | 5.5 | 1.2 | 2.0 |
| 108. | 2473 | HKI 141 | 2.6 | 2.0 | 6.6 | 5.0 | 1.0 | 3.3 |
| 109. | 2474 | HKI 141 | 1.1 | 3.0 | 3.0 | 5.0 | 1.8 | 4.3 |
| 110. | 2478 | HKI C 323 | 1.0 | 1.0 | 6.3 | 6.0 | 1.4 | 2.0 |
| 111. | 2483 | HKI 1352-5-8-9 | 1.2 | 7.0 | 7.5 | 6.4 | 1.7 | 6.7 |
| 112. | 2484 | Pool 16 BNSEQ.C3F6x38-1 | 1.7 | 6.0 | 5.5 | 4.4 | 1.3 | 2.0 |
| 113. | 2485 | ae-40 | 1.0 | 9.0 | 4.4 | 7.0 | 1.2 | 2.0 |
| 114. | 2486 | CML 141 | 1.0 | 1.0 | 4.5 | 5.0 | 1.3 | 5.5 |
| 115. | 2490 | CML 154 | 1.1 | 6.6 | 3.6 | 7.6 | 1.0 | 2.0 |
| 116. | 2492 | CML 269 | 1.0 | 7.0 | 3.3 | 2.2 | 1.3 | 5.5 |
| 117. | 2493 | CML 384 | 1.0 | 6.2 | 4.7 | 6.0 | 1.2 | 2.0 |
| 118. | 2495 | CML 395 | 1.0 | 5.0 | 6.2 | 8.0 | 1.3 | 5.5 |
| 119. | 2498 | MIRT&PT-3 | 1.0 | 9.0 | 4.0 | 6.0 | 1.0 | 2.0 |
| 120. | 2511 | HKI 17-2 | 1.0 | 5.5 | 5.0 | 7.7 | 1.5 | 2.0 |
| 121. | 2513 | HKI 26-2-4-(1-2) | 0.0 | 4.4 | 7.0 | 3.0 | 1.4 | 2.0 |
| 122. | 2516 | HKI 31-2 | 1.0 | 1.0 | 4.6 | 5.2 | 1.8 | 2.0 |

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|------|------|------------------------|-----|----------------|---------|---------|-----|--------|
| 123. | 2518 | HKI 31-2 | 1.0 | 2.0 | 3.3 | 7.8 | 1.5 | 2.0 |
| 124. | 2521 | HKI34(1+2)-1 | 1.8 | 4.5 | 5.0 | 6.0 | 1.0 | 5.5 |
| 125. | 2524 | HKI-162-2 | 1.0 | 5.4 | 6.8 | 4.5 | 2.0 | 5.3 |
| 126. | 2526 | HKI 164-4-(1-3)-2 | 1.0 | 6.0 | 5.4 | 3.3 | 1.2 | 6.7 |
| 127. | 2527 | HKI 162-3 (2-1)-1 | 0.0 | 8.0 | 9.0 | 8.0 | 1.4 | 2.0 |
| 128. | 2528 | HKI 164-3 (2-1)-1 | 1.0 | 7.3 | 9.0 | 4.3 | 1.3 | 6.7 |
| 129. | 2529 | HKI-164-4-(1-3)-2-2 | 1.0 | 6.3 | 9.0 | 6.3 | 1.4 | 2.0 |
| 130. | 2532 | HKI 164-4-(1-3)-2 | 1.0 | 7.5 | 8.5 | 4.5 | 1.6 | 5.5 |
| 131. | 2534 | HKI 164-3 (2-1)-1 | 8.0 | 8.0 | 9.0 | 3.6 | 1.2 | 5.5 |
| 132. | 2538 | HKI 164-D-3-3-2 | 1.0 | 6.3 | 7.0 | 6.0 | 1.3 | 3.8 |
| 133. | 2539 | HKI 164-7-7 ER2 | 1.0 | 6.0 | 6.2 | 5.8 | 1.6 | 2.0 |
| 134. | 2540 | HKI 164-7-6x161 | 1.0 | 5.5 | 2.7 | 8.0 | 1.0 | 5.5 |
| 135. | 2541 | HKI 164-7-4 ER-3 | 2.0 | 5.0 | 2.8 | 9.0 | 1.9 | 2.0 |
| 136. | 2542 | HKI 164-7-4 | 1.0 | 5.0 | 7.8 | 6.2 | 1.4 | 6.7 |
| 137. | 2543 | HKI-164-7-4-2 | 1.0 | 2.0 | 6.8 | 6.7 | 1.5 | 2.0 |
| 138. | 2545 | HKI 164-7-2 | 1.0 | 2.0 | 6.0 | 6.7 | 1.2 | 5.5 |
| 139. | 2546 | HKI 164-1-4 | 1.0 | 6.0 | 5.8 | 3.0 | 1.1 | 2.0 |
| 140. | 2548 | HKI 164-4-(1-3) | 1.0 | 4.0 | 4.0 | 6.3 | 1.5 | 2.0 |
| 141. | 2550 | HKI-164-7-6X161-2 | 1.0 | 4.2 | 5.0 | 7.0 | 1.2 | 9.0 |
| 142. | 2551 | HKI 191-1-2-5 | 1.2 | 1.0 | 2.0 | 7.8 | 1.0 | 6.7 |
| 143. | 2553 | HKI 193-2-2 | 1.0 | 4.5 | 8.4 | 6.6 | 2.2 | 9.0 |
| 144. | 2554 | HKI 193-2-2 | 1.0 | 7.2 | 8.0 | 4.0 | 1.1 | 2.0 |
| 145. | 2555 | HKI-193-2-2-4 | 1.0 | 5.0 | 8.0 | 7.0 | 1.0 | 6.7 |
| 146. | 2556 | HKI 193-1 | 1.7 | 4.5 | 9.0 | 8.0 | 1.5 | 8.8 |
| 147. | 2558 | HKI 5072-2-BT | 1.0 | 4.5 | 8.0 | 8.3 | 1.2 | 8.3 |
| 148. | 2560 | CML 165 | 1.5 | 5.0 | 6.8 | 6.2 | 1.6 | 6.3 |
| 149. | 2561 | CML 165 | 1.0 | 6.3 | 7.8 | Escaped | 1.9 | 2.0 |
| 150. | 2562 | CML 167 | 1.0 | 1.0 | No Germ | 3.6 | 1.0 | 2.0 |
| 151. | 2564 | CML 171 | 1.1 | 6.3 | 5.6 | 4.0 | 1.3 | 6.7 |
| 152. | 2566 | CML 172 | 1.0 | 3.0 | 6.2 | 6.8 | 1.4 | 3.7 |
| 153. | 2567 | HKI MBR-139 | 1.0 | 2.0 | 7.5 | 5.8 | 1.4 | 6.7 |
| 154. | 2568 | HKI-MBR-139-2 | 1.0 | 6.6 | 7.8 | 6.0 | 1.5 | 7.3 |
| 155. | 2570 | DMR QPM-03-104 | 1.0 | 6.2 | 5.0 | 6.0 | 1.5 | 6.7 |
| 156. | 2571 | DMRQPM 03-113 | 1.0 | no germination | 9.0 | 4.0 | 1.8 | 2.0 |
| 157. | 2572 | DMR QPM-03-124 | 1.0 | 3.6 | 4.7 | 7.5 | 1.5 | 2.0 |
| 158. | 2575 | DMR QPM-58-26 | 1.1 | 6.6 | 4.4 | 2.0 | 1.7 | 2.0 |
| 159. | 2579 | CML 158 | 1.0 | 4.5 | 7.4 | 3.6 | 1.2 | 5.5 |
| 160. | 2580 | CML175 | 1.0 | 2.0 | 4.0 | 6.2 | 1.4 | 2.7 |
| 161. | 2583 | CL-QRCYQ47 | 1.0 | 2.0 | 4.5 | 8.0 | 1.5 | 2.0 |
| 162. | 2584 | CLQRCYQ-47-B | 1.0 | 7.0 | 1.9 | 7.2 | 1.0 | 5.5 |
| 163. | 2586 | CLQ-RCYQ30 | 0.0 | 3.0 | 6.2 | 8.6 | 1.0 | 5.5 |
| 164. | 2587 | CLQ-RCYQ36 | 1.0 | 2.0 | 4.0 | 8.3 | 1.3 | 6.7 |
| 165. | 2589 | CLQ-RCYQ41 | 1.0 | 5.5 | 3.0 | 7.0 | 1.7 | 6.7 |
| 166. | 2590 | CLQ-RCYQ40 | 1.0 | 4.2 | 4.0 | 5.5 | 1.2 | 6.7 |
| 167. | 2592 | CML 451Q | 1.0 | 4.0 | 5.9 | 8.0 | 1.5 | 9.0 |
| 168. | 2595 | DMRQPM 58 | 1.0 | 2.0 | 4.6 | 6.0 | 1.4 | 5.3 |
| 169. | 2596 | DMRQPM 58 | 1.5 | 6.8 | 3.0 | 4.7 | 1.6 | Absent |
| 170. | 2597 | HIGH OIL POPULATION II | 1.0 | 1.0 | No Germ | 5.0 | 1.6 | Absent |
| 171. | 2598 | HIGH OIL | 1.0 | 2.0 | No Germ | 1.0 | 1.5 | Absent |

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|------|---------------------------|--|-----|-----|-----|---------|-----|-----|
| | | POPULATION II | | | | | | |
| 172. | 2599 | HIGH OIL POPULATION II | 1.0 | 3.2 | 3.0 | 8.2 | 2.0 | 4.0 |
| 173. | 2600 | HIGH OIL POPULATION II | 1.0 | 1.0 | 5.3 | 9.0 | 1.1 | 4.5 |
| 174. | 2601 | HIGH OIL POPULATION II | 0.0 | 9.0 | 3.0 | 9.0 | 1.3 | 9.0 |
| 175. | 2603 | HKI 3322 | 1.0 | 6.0 | 2.5 | 5.7 | 1.8 | 7.8 |
| 176. | 2605 | HKI Tall 1-2-F | 1.0 | 5.8 | 4.7 | 7.0 | 1.6 | 5.5 |
| 177. | 2606 | HKI Tall-8-1-1 | 2.0 | 1.0 | 4.0 | 3.6 | 1.8 | 6.7 |
| 178. | 2607 | SHD-1 ER6 | 0.0 | 1.0 | 5.3 | 6.0 | 1.1 | 5.5 |
| 179. | 2609 | DMHOC 4 | 1.0 | 1.0 | 4.8 | 2.2 | 1.0 | 7.3 |
| 180. | 2610 | Temp.HOC15 | 1.0 | 7.0 | 3.8 | 5.0 | 1.0 | 7.3 |
| 181. | 2612 | 02POOL 33 C24 | 1.0 | 5.0 | 5.0 | 4.0 | 1.9 | 6.7 |
| 182. | 2613 | POBLAC 61 C3 | 1.7 | 9.0 | 3.0 | 2.0 | 2.0 | 7.3 |
| 183. | 2615 | Temp. Trop High oil QPM | 1.1 | 7.0 | 8.5 | 4.6 | 1.6 | 5.5 |
| 184. | 2618 | PFSR-R2 | 2.7 | 7.0 | 4.7 | 5.0 | 1.1 | 3.8 |
| 185. | 2619 | PFSR-R3 | 4.2 | 7.4 | 5.2 | 3.0 | 1.6 | 6.7 |
| 186. | 2620 | PFSR-R9 | 3.1 | 3.0 | 4.4 | 2.0 | 1.4 | 5.5 |
| 187. | 2621 | PFSR-R10 | 1.4 | 2.0 | 5.9 | 7.6 | 2.0 | 7.5 |
| 188. | 2622 | PFSR-R10 | 2.9 | 4.0 | 5.0 | 9.0 | 2.1 | 9.0 |
| 189. | 2623 | PFSR-S2 | 1.8 | 2.0 | 7.7 | 6.0 | 2.8 | 9.0 |
| 190. | 2624 | PFSR-S3 | 1.7 | 5.6 | 4.8 | Escaped | 2.3 | 6.7 |
| 191. | 2625 | PFSR-S3 | 1.0 | 6.0 | 3.3 | 4.0 | 1.8 | 2.0 |
| 192. | 2626 | CM-117-3-2-1-1-1- 1-3 | 1.6 | 4.0 | 7.7 | 5.0 | 1.6 | 6.3 |
| 193. | 2627 | SW-930-313-23-PO-49-54-1-3- 1-1-1-2-1-2-1-2-3-1-1-2 | 1.0 | 2.0 | 4.2 | 7.7 | 1.5 | 2.0 |
| 194. | 2630 | JCY2-1-2-1-1B-1- 2-3-1-1-1 | 1.0 | 5.0 | 4.8 | 8.0 | 2.7 | 2.0 |
| 195. | 2631 | JCY2-7-1-2-1-B-1- 2-1-1 | 1.0 | 3.3 | 5.6 | 5.6 | 1.2 | 2.0 |
| 196. | 2632 | JCY3-7-1-2-1-B-1- 1-4-1 | 1.0 | 4.0 | 3.9 | 4.0 | 1.6 | 2.0 |
| 197. | 197 (DMR E- 2) | DMR E-2 | 1.5 | 4.0 | 3.8 | 8.0 | 1.0 | 2.0 |
| 198. | 198 (WINSYNTH ETIC) | WINSYNTHETIC | 1.9 | 3.8 | 5.6 | 2.0 | 2.1 | 5.5 |
| 199. | 199 (CM 500) | CM 500 | 1.0 | 6.3 | 3.4 | 3.3 | 1.0 | 6.7 |
| 200. | 200 (CML 287) | CML 287 | 1.0 | 1.0 | 9.0 | 9.0 | 1.5 | 7.3 |

*Experiment was conducted under natural infestation of *Chilo partellus* at New Delhi.

Based on the mean leaf injury level the inbred lines have been categorized as follow.

Least Susceptible: 14

Moderately Susceptible: 153

Susceptible: 33

Table 8: Least susceptible inbred lines

| S.No. | Pedigree | Mean LIR | S.No. | Pedigree | Mean LIR |
|-------|---|----------|-------|------------------------|----------|
| 1. | Dulce Amanillo (su su) ' Dulce Blanco (su su) | 2.2 | 8. | V351 | 2.7 |
| 2. | DMSC28 | 2.5 | 9. | CM133 | 3.0 |
| 3. | DMSC36 | 2.8 | 10. | CM139 | 2.8 |
| 4. | HKI-PC-7 | 2.7 | 11. | CML 167 | 2.2 |
| 5. | WINPOP-43 | 2.9 | 12. | DMRQPM 03-113 | 3.0 |
| 6. | HKI-2-6-2-4(1-2)-4 | 2.8 | 13. | HIGH OIL POPULATION II | 3.0 |
| 7. | Hyd05R/2-1 | 2.8 | 14. | HIGH OIL POPULATION II | 1.5 |

Table 9: Moderately susceptible inbred lines

| S.No. | Pedigree | Mean LIR | S.No. | Pedigree | Mean LIR |
|-------|---|----------|-------|-------------------------|----------|
| 1 | HSSW (HS)C1f3(SH2SH2) | 5.3 | 78. | CM146 | 5.0 |
| 2 | Insec 2 (K4)' Insec (K4) | 3.9 | 79. | CM500 | 4.8 |
| 3 | Mas madu (sh2 sh2) | 5.8 | 80. | CM501 | 3.2 |
| 4 | NSS2W9301A(sh2sh2) | 5.7 | 81. | CM502 | 4.2 |
| 5 | Sweet corn Insec 1 (K4) | 5.0 | 82. | HKI C 78 | 3.8 |
| 6 | Win Sweet Corn | 5.5 | 83. | HKI 141 | 3.8 |
| 7 | Dulce Amanillo (su su) ' Dulce Blanco (su su) | 4.7 | 84. | HKI C 323 | 4.5 |
| 8 | WINPOP-16 | 5.0 | 85. | HKI 1352-5-8-9 | 5.6 |
| 9 | CP Golden Sweet 3 | 3.7 | 86. | Pool 16 BNSEQ.C3F6x38-1 | 4.0 |
| 10 | CUBA 378 | 4.2 | 87. | ae-40 | 5.0 |
| 11 | CUBA 377 | 4.1 | 88. | CML 141 | 4.5 |
| 12 | CUBA 379 | 5.4 | 89. | CML 154 | 5.6 |
| 12 | CUBA 380 | 5.3 | 90. | CML 269 | 4.0 |
| 13 | NC 392 | 4.3 | 91. | CML 384 | 5.0 |
| 14 | DMSC 1 | 3.5 | 92. | CML 395 | 4.5 |
| 15 | DMSC3 | 3.9 | 93. | MIRT&PT-3 | 4.7 |
| 16 | DDMSC-4-1 DR 10 | 5.4 | 94. | HKI 26-2-4-(1-2) | 5.3 |
| 17 | DMSC 6 | 4.1 | 95. | HKI 31-2 | 5.0 |
| 18 | DMSC8 | 5.0 | 96. | HKI 31-2 | 4.1 |
| 19 | DMSC14 | 3.7 | 97. | HKI34(1+2)-1 | 3.2 |
| 20 | DMSC16 | 4.3 | 98. | HKI-162-2 | 3.8 |
| 21 | DMSC16 | 3.8 | 99. | HKI 164-4-(1-3)-2 | 5.3 |
| 23 | DMSC20 | 5.3 | 100. | HKI 162-3 (2-1)-1 | 5.5 |
| 24 | DMSC-22-3 | 5.0 | 101. | HKI 164-3 (2-1)-1 | 5.4 |
| 25 | DMSC-37-3 | 4.6 | 102. | HKI 164-3 (2-1)-1 | 5.9 |
| 26 | Genl1858 | 3.6 | 103. | HKI 164-7-6x161 | 5.8 |
| 27 | Sc Male | 3.6 | 104. | HKI 164-7-4 ER-3 | 5.0 |
| 28 | HKI PC 4B | 3.5 | 105. | HKI 164-7-4 | 5.4 |
| 29 | HKI PC-4B-1 | 3.9 | 106. | HKI-164-7-4-2 | 4.7 |
| 30 | HKI-PC-BT-3 | 3.6 | 107. | HKI 164-1-4 | 4.4 |
| 31 | HKI-PC-5 | 4.9 | 108. | HKI 164-4-(1-3) | 5.0 |
| 32 | HKI-PC-5 | 3.2 | 109. | HKI-164-7-6X161-2 | 4.2 |
| 33 | HKI-PC-7 | 3.3 | 110. | HKI 191-1-2-5 | 4.0 |
| 34 | HKI-PC-8-2 | 5.8 | 111. | HKI 193-2-2 | 5.3 |
| 35 | WINPOP | 4.6 | 112. | CML 165 | 6.0 |
| 36 | WINPOP | 5.6 | 113. | CML 165 | 5.4 |

| | | | | | |
|----|-----------------------|-----|-----|--|-----|
| 37 | WINPOP | 5.3 | 114 | CML 171 | 5.7 |
| 38 | WINPOP | 5.0 | 115 | CML 172 | 4.9 |
| 39 | WINPOP-21 | 4.7 | 116 | HKI MBR-139 | 5.5 |
| 40 | WINPOP-43 | 4.0 | 117 | DMR QPM-03-104 | 6.0 |
| 41 | WINPOPIIXWIPOPIII | 3.3 | 118 | DMR QPM-03-124 | 4.4 |
| 42 | HKI 209 | 4.3 | 119 | DMR QPM-58-26 | 3.8 |
| 43 | HKI 226 | 5.4 | 120 | CML 158 | 5.3 |
| 44 | HKI-536-7 | 4.4 | 121 | CML175 | 3.7 |
| 45 | HKI 586-1 WG'33 | 5.6 | 122 | CL-QRCYQ47 | 4.1 |
| 46 | HKI 1040-5 | 5.6 | 123 | CLQRCYQ-47-B | 5.4 |
| 47 | HKI1040C2 | 4.9 | 124 | CLQ-RCYQ30 | 5.8 |
| 48 | HKI 1094-WG | 3.4 | 125 | CLQ-RCYQ36 | 5.3 |
| 49 | CML 451(P2) | 5.0 | 126 | CLQ-RCYQ41 | 5.6 |
| 50 | DTPYC9-F46-3-1 | 5.9 | 127 | CLQ-RCYQ40 | 5.1 |
| 51 | DTPWC9-F115-1-4 | 5.8 | 128 | DMRQPM 58 | 4.5 |
| 52 | ESM-11-3 | 4.5 | 129 | DMRQPM 58 | 4.8 |
| 53 | PFSR/51016-1 | 4.8 | 130 | HIGH OIL POPULATION II | 4.6 |
| 54 | WS KHOTHAI-1-WAXY-1-1 | 3.4 | 131 | HIGH OIL POPULATION II | 5.0 |
| 55 | Gen 6033 | 5.6 | 132 | HKI 3322 | 5.5 |
| 56 | Hyd05R/13-2 | 5.1 | 133 | HKI Tall 1-2-F | 5.8 |
| 57 | Hyd05R/204-1 | 5.1 | 134 | HKI Tall-8-1-1 | 3.8 |
| 58 | LM 6 | 5.6 | 135 | SHD-1 ER6 | 4.5 |
| 59 | LM15 | 5.3 | 136 | DMHOC 4 | 3.8 |
| 60 | LM15 | 4.3 | 137 | Temp.HOC15 | 5.8 |
| 61 | LM16 | 4.8 | 138 | 02POOL 33 C24 | 5.2 |
| 62 | LTP-1-1 | 4.5 | 139 | POBLAC 61 C3 | 5.3 |
| 63 | V 335 | 5.9 | 140 | PFSR-R2 | 5.1 |
| 64 | V 351 | 5.7 | 141 | PFSR-R3 | 5.6 |
| 65 | V 351 | 3.6 | 142 | PFSR-R9 | 3.7 |
| 66 | NC 296-2 | 4.9 | 143 | PFSR-R10 | 5.8 |
| 67 | NC 406-1 | 5.9 | 144 | PFSR-S3 | 5.7 |
| 68 | NC 416 | 5.4 | 145 | PFSR-S3 | 3.8 |
| 69 | CM104 | 3.5 | 146 | CM-117-3-2-1-1-1-1-3 | 5.8 |
| 70 | CM114 | 5.6 | 147 | SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2 | 4.0 |
| 71 | CM121 | 4.8 | 148 | JCY2-1-2-1-1B-1-2-3-1-1-1 | 5.0 |
| 73 | CM123 | 3.8 | 149 | JCY2-7-1-2-1-B-1-2-1-1 | 4.1 |
| 74 | CM128 | 5.5 | 150 | JCY3-7-1-2-1-B-1-1-4-1 | 3.5 |
| 75 | CM129 | 4.7 | 151 | DMR E-2 | 4.5 |
| 76 | CM132 | 5.7 | 152 | WINSYNTHETIC | 4.2 |
| 77 | CM144 | 5.7 | 153 | CM 500 | 4.9 |

HABITAT MANIPULATION

By Trap Crops

Habitat manipulation has been found to be one of the very potential pest management tactics in maize ecosystem. Different crops have been used as trap crop for arresting the spread of different pests. Some of the successful examples of trap crops used at Hyderabad are given below.

Table 10: Maize ecosystem manipulation using Napier millet and finger millet as trap crops at Hyderabad

| S.No | Treatment | <i>Sesamia inferens</i> in maize | | <i>Sesamia inferens</i> in trap | |
|------|--|----------------------------------|----------------|---------------------------------|----------------|
| | | Plants with leaf injury (%) | Dead hearts(%) | Plants with leaf injury (%) | Dead hearts(%) |
| 1 | Maize+Napier millet | 3.95 | 0.42 | 4.5 | 13.0 |
| 2 | Maize+Ragi | 3.33 | 0.44 | 0.75 | 20.5 |
| 3 | Sole Maize with endosulfan spray at 12 DAG | 2.07 | 0.86 | ----- | ----- |
| 4 | Control | 7.75 | 1.43 | ----- | ----- |

Table 11: Maize ecosystem manipulation using marigold as trap crops at Hyderabad

| S.No | Treatment | % Plants infested with <i>Helicoverpa armigera</i> in maize | % Plants infested with Hairy caterpillar in maize | % Plants infested with <i>Helicoverpa armigera</i> in trap |
|------|----------------|---|---|--|
| 1 | Maize+Marigold | 1.31 | 1.68 | 1.67 |
| 2 | Control | 0.41 | 2.44 | ----- |

Table 12: Maize ecosystem manipulation using cauliflower as trap crops at Hyderabad

| S.No | Treatment | % Plants infested with <i>Spodoptera litura</i> in maize | % Plants infested with <i>Spodoptera litura</i> in cauliflower |
|------|-------------------|--|--|
| 1 | Maize+Cauliflower | 0.44 | 2.86 |
| 2 | Control | 1.22 | ----- |

By intercrops

Based on percent plant of infestation, leaf injury rating and yield, maize intercropped with cowpea in the ratio of 2:1 row it as par with maize pest control by treatment with Endosulfan at Kolhapur. However in intercrop there is additional gain of cowpea produce and N₂ fixation for next crop. Also in Hyderabad and Karnal maize intercropped with cowpea in the ratio of 2:1 was on par with treatment with Endosufan.

Table 13: Maize intercropped with cowpea at Kolhapur

| Treatments | Plan infestation (%) | LIR (%) | Grain Yield (Kg/ha) |
|----------------|----------------------|-------------------|------------------------|
| Maize + Cowpea | 1.47 ^a | 1.24 ^a | 7784 ^a (53) |
| Standard check | 1.86 ^a | 1.34 ^a | 7610 ^a |
| Control | 3.47 ^b | 2.16 ^b | 5779 ^b |
| SE± | 0.53 | 0.98 | 321.4 |
| CD at 5% | 1.23 | 0.23 | 741.2 |
| CV | 37.21 | 9.81 | 7.2 |

N B: Figure in parentheses indicates cowpea yield

Table 14: Maize intercropped with cowpea at Karnal

| Treatment | Mean % dead hearts | Yield/plant (g) |
|-------------------------|--------------------|--------------------|
| Maize +cowpea | 10.7 ^a | 201.3 ^a |
| Sole maize (Endosulfan) | 11.25 ^a | 163.2 ^b |
| Sole maize (Control) | 26.5 ^b | 116.9 ^c |
| SE | 1.88 | 10.05 |
| CD (0.05) | 4.61 | 24.59 |
| CV | 16.5 | 8.86 |

Table 15: Maize intercropped with cowpea at Hyderabad

| S.No. | Treatment | Dead hearts/Plot |
|-------|-------------------------------|------------------|
| 1 | 2 rows maize + 1 row cowpea | 0.0 |
| 2 | 3 rows maize + 1 row cowpea | 1.33 |
| 3 | Sole maize | 0.67 |
| 4 | Sole maize + 0.1 % Endosulfan | 0.00 |

In Ludhiana one of the treatments was Napier millet as trap crop on border, in another treatment maize was intercrop with cowpea. This was compared with chemically protected maize and control. In treatment with Napier millet, number of egg masses and number of eggs per plant ; percent plant infestation and dead hearts were significantly less than in all other treatments and yield was significantly higher. The yields of other treatment were at par.

Table 16: Maize intercropped with cowpea and bordered by napier millet at Ludhiana

| Treatment | 11 DAE | | 45 DAE | | Grain yield (q/ ha) |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|------------------------|
| | Egg masses /plant | Egg / per plant | % plant infestation | % dead hearts | |
| NM border maize | 0.0099 ^a (1.00) | 0.0420 ^a (1.020) | 4.20 ^a (11.52) | 2.67 ^a (9.90) | 75.30 ^a |
| Maize + cowpea | 0.0090 ^b (1.004) | 0.176 ^b (1.084) | 10.22 ^b (18.40) | 5.81 ^a (13.29) | 63.68 ^b |
| Chemically protected maize | 0.0160 ^c (1.008) | 0.392 ^c (1.179) | 16.23 ^c (23.65) | 9.17 ^b (17.60) | 66.15 ^b |
| Control | 0.010 ^c (1.005) | 0.271 ^c (1.123) | 23.99 ^d (29.301) | 14.22 ^b (21.71) | 61.42 ^b |
| CD | 0.0022 | 0.061 | 4.91 | 5.78 | 4.91 |

Feeding preference of *C. partellus* and its survival

Survival and weight gained was less on napier- millet fed larvae as compared to maize plant fed larvae of *C. partellus*.

Table 17 Survival rate and weight gain of *Chilo partellus* on different host plants

| Host plant | Survival (%) | | | Weight (mg) | | |
|-------------------------|------------------|------------------|------------------|-------------|-------|--------|
| | 4 DAI | 7 DAI | 10 DAI | 4 DAI | 7 DAI | 10 DAI |
| 2 day-old larvae | | | | | | |
| Maize | 82.50 (66.93) | 33.50 (35.24) | 26.50 (30.77) | 0.70 | 4.07 | 12.85 |
| Napier Millet | 71.50 (61.32) | 24.50 (29.62) | 19.00 (25.64) | 0.34 | 0.89 | 3.25 |
| CD (p=0.05) | (NS) | (3.25) | (4.14) | 0.10 | 0.53 | 1.87 |
| 9 day-old larvae | | | | | | |
| Maize | 88.00 (73.00) | 80.00 (65.18) | 64.00 (53.59) | 14.82 | 18.72 | 33.79 |
| Napier Millet | 88.00 (75.72) | 53.00 (46.50) | 33.00 (31.78) | 13.12 | 14.12 | 21.01 |
| CD (p=0.05) | (NS) | (12.86) | (13.90) | NS | 3.46 | 3.88 |

Figures in parentheses are in arcsine transformed values

Light trap studies in the farm of HAREC Bajaura

Light trap studies were carried out in the farm of HAREC Bajaura from the last week of May, 2009 by using 160 watt mercury bulb as a light source to monitor the population of insect pests are presented in the table below:

Table 18 Number of different insects trapped in the light trap

| Period | Light trap(no. of insects/week) | | | | | Total | % age of total |
|-----------------------------------|---------------------------------|-------|--------------------|------|------|-------|----------------|
| | WGB | Ha | <i>Agrotis spp</i> | Po | Hc | | |
| 1 st week of May | 2 | 18 | 22 | 20 | 10 | 72 | 5.08 |
| 2 nd week | 3 | 26 | 32 | 21 | 6 | 88 | 6.21 |
| 3 rd week | 1 | 8 | 21 | 8 | 8 | 46 | 3.24 |
| 4 th week | 12 | 6 | 22 | 14 | 4 | 58 | 4.09 |
| 1 st week of June | 27 | 10 | 17 | 6 | 2 | 62 | 4.37 |
| 2 nd week | 50 | 12 | 13 | 3 | 1 | 79 | 5.57 |
| 3 rd week | 74 | 9 | 12 | 2 | 0 | 97 | 6.84 |
| 4 th week | 80 | 8 | 9 | 2 | 1 | 100 | 7.05 |
| 1 st week of July | 99 | 4 | 6 | 1 | 0 | 110 | 7.76 |
| 2 nd week | 87 | 3 | 7 | 2 | 0 | 99 | 6.98 |
| 3 rd week | 156 | 9 | 5 | 0 | 0 | 170 | 11.99 |
| 4 th week | 128 | 10 | 5 | 2 | 3 | 148 | 10.44 |
| 1 st week of August | 60 | 11 | 4 | 0 | 0 | 75 | 5.29 |
| 2 nd week | 64 | 7 | 5 | 0 | 0 | 76 | 5.36 |
| 3 rd week | 51 | 9 | 3 | 2 | 2 | 67 | 4.72 |
| 4 th week | 24 | 6 | 2 | 0 | 0 | 32 | 2.26 |
| 1 st week of September | 10 | 3 | 4 | 0 | 0 | 17 | 1.20 |
| 2 nd week | 6 | 3 | 0 | 2 | 1 | 12 | 0.84 |
| 3 rd week | 3 | 1 | 0 | 0 | 2 | 6 | 0.42 |
| 4 th week | 3 | 0 | 0 | 0 | 0 | 3 | 0.21 |
| Total | 940 | 163 | 189 | 85 | 40 | 1417 | |
| % age of total | 66.33 | 11.50 | 13.33 | 5.99 | 2.82 | | |

WGB=White grub beetles, Ha=*Helicoverpa armigera*, Po=*Plusia orichalcea*,Hc=Hairy caterpillars

Light trap catches of the beetles of white grubs from the farm of HAREC Bajaura (1100 mamsl) during May to September, 2009

Studies were also carried out to get the different white grub species identified after trapping them and the date are presented in the table below:

Table 19 Different white grub species trapped

| Species of beetles | May | June | July | August | September | Total | Total %) |
|--------------------------------|------|-------|-------|--------|-----------|-------|----------|
| <i>Maldera sp</i> | 0 | 42 | 109 | 26 | 0 | 177 | 18.82 |
| <i>Adoretus simplex</i> | 0 | 22 | 90 | 50 | 6 | 168 | 17.87 |
| <i>Adoretus spp</i> | 0 | 26 | 78 | 30 | 2 | 136 | 14.46 |
| <i>Brahminia coriacea</i> | 3 | 20 | 30 | 6 | 1 | 60 | 6.38 |
| <i>Xylotrupes gideon</i> | 2 | 10 | 14 | 20 | 0 | 46 | 4.89 |
| <i>Anomala rufiventris</i> | 3 | 6 | 9 | 10 | 0 | 28 | 2.97 |
| <i>Holotrichia longipennes</i> | 0 | 6 | 20 | 18 | 1 | 45 | 4.78 |
| <i>Anomala.dimidiata</i> | 0 | 32 | 52 | 14 | 0 | 98 | 10.42 |
| <i>Phyllognathus dionysius</i> | 0 | 14 | 6 | 0 | 0 | 20 | 2.12 |
| <i>Anomala spp</i> | 0 | 21 | 32 | 0 | 0 | 53 | 5.63 |
| Others | 10 | 32 | 30 | 25 | 12 | 109 | 11.59 |
| Total | 18 | 231 | 470 | 199 | 22 | 940 | |
| % age of total | 1.91 | 24.57 | 50.00 | 21.17 | 2.34 | | |

Efficacy of some insecticides against cutworms in pre-treated maize seeds: A trial with maize (variety early composite) was laid on June 27, 2009 with 7 treatments each replicated thrice. The seeds were treated with fipronil, cruiser and imidacloprid with two doses of each i.e. 4ml/Kg and 6ml/Kg. The data are presented in the table below

Table 20: Efficacy of some insecticides against cutworms in pre-treated maize seeds

| Chemicals | % germination | % plant kill due to cutworms after different days | | | | | | |
|-------------------------|---------------|---|----------------|-----------------|----------------|----------------|----------------|-------|
| | | 4 | 8 | 12 | 16 | 20 | 24 | Yield |
| Fipronil 5%SC@4ml/kg | 98.66 | 0.88 (4.41) | 0.45 (2.22) | 0.45 (2.22) | 1.36 (5.40) | 0.92 (4.49) | 0.00 (0.00) | 55.33 |
| Fipronil 5%SC@6ml/kg | 99.10 | 0.44 (2.20) | 0.90 (4.44) | 0.00 (0.00) | 0.45 (2.22) | 0.45 (2.23) | 0.00 (0.00) | 54.47 |
| Imidacloprid @4ml/kg | 99.10 | 0.45 (2.22) | 0.89 (4.42) | 0.90 (3.15) | 1.83 (6.36) | 0.91 (3.16) | 0.00 (0.00) | 51.70 |
| Imidacloprid @6ml/kg | 98.66 | 0.45 (2.23) | 0.89 (4.42) | 0.45 (2.23) | 0.45 (2.22) | 0.00 (0.00) | 0.00 (0.00) | 51.03 |
| Cruiser 350FS 4ml/kg | 98.66 | 0.91 (3.17) | 0.89 (4.42) | 0.92 (4.49) | 1.37 (5.41) | 0.45 (2.23) | 0.00 (0.00) | 50.41 |
| Cruiser 350FS 4ml/kg | 99.10 | 0.90 (3.15) | 0.44 (2.20) | 0.45 (2.22) | 0.45 (2.22) | 0.45 (2.23) | 0.00 (0.00) | 52.70 |
| Control | 98.21 | 2.73 (8.50) | 2.30 (8.62) | 4.70 (12.49) | 2.46 (8.71) | 1.51 (5.69) | 1.06 (4.70) | 48.41 |
| CD (5%) | NS | NS | NS | 3.40 | NS | NS | 2.43 | 3.04 |

Figures in the parenthesis are the Arc Sin Transformations

Efficacy of pre-treated maize seeds with imidacloprid 600FS @7ml/kg seed against shoot fly

A trial with maize (variety HQPM-1) was laid on July 3, 2009 with 7 treatments each replicated thrice. The seeds were treated with imidacloprid at the same day and different days i.e. 1,4,7,10 and 14 days before sowing. Gum was used as an adhesive. The observations were recorded on the percent germination, dead hearted (infested) plants due to shoot fly after every week and the yield of the crop. The period up to 14 days of sowing after the seed treatment did not adversely affected.

Table 21: Efficacy of pre-treated maize seeds with imidacloprid 600FS @7ml/kg seed against shoot fly

| Chemicals | Days after treatment | Per cent germination | Dead heart due to shoot fly (%) | | | Yield (Q/ha) |
|-----------------------------|----------------------|----------------------|---------------------------------|-----------------------------|----------------|--------------------|
| | | | 7 DAG | 14 DAG | 21 DAG | |
| Imidacloprid 600 FS @7ml/kg | SDT | 97.60 | 1.98 ^a (7.79) | 1.16 ^a (6.10) | 1.47 (6.88) | 53.03 ^b |
| Imidacloprid 600 FS @7ml/kg | 1DBS | 98.33 | 1.12 ^a (6.00) | 0.56 ^a (3.52) | 2.04 (8.16) | 54.70 ^a |
| Imidacloprid 600 FS @7ml/kg | 4DBS | 98.05 | 1.13 ^a (6.01) | 0.86 ^a (5.31) | 0.86 (4.29) | 54.09 ^a |
| Imidacloprid 600 FS @7ml/kg | 7DBS | 97.77 | 0.84 ^a (4.24) | 0.86 ^a (5.31) | 0.86 (4.29) | 56.75 ^a |
| Imidacloprid 600 FS @7ml/kg | 10DBS | 97.49 | 0.86 ^a (5.61) | 1.14 ^a (6.05) | 0.29 (1.78) | 57.33 ^a |
| Imidacloprid 600 FS @7ml/kg | 14DBS | 97.49 | 0.56 ^a (3.52) | 0.57 ^a (3.53) | 0.57 (3.55) | 54.70 ^a |
| Control | | 98.05 | 4.53 ^b (12.20) | 2.66 ^b (9.30) | 1.52 (7.00) | 51.66 ^b |
| CD (5%) | | NS | 3.52 | 3.37 | NS | 3.86 |

Figures in the parenthesis are the Arc Sin Transformations

SDT= Same day treatment, DBS= No. of days before seed treated.

PATHOLOGY

ALL INDIA COORDIANATED MAIZE IMPROVEMENT PROJECT

Annual Progress Report

Appendix Table

PATHOLOGY

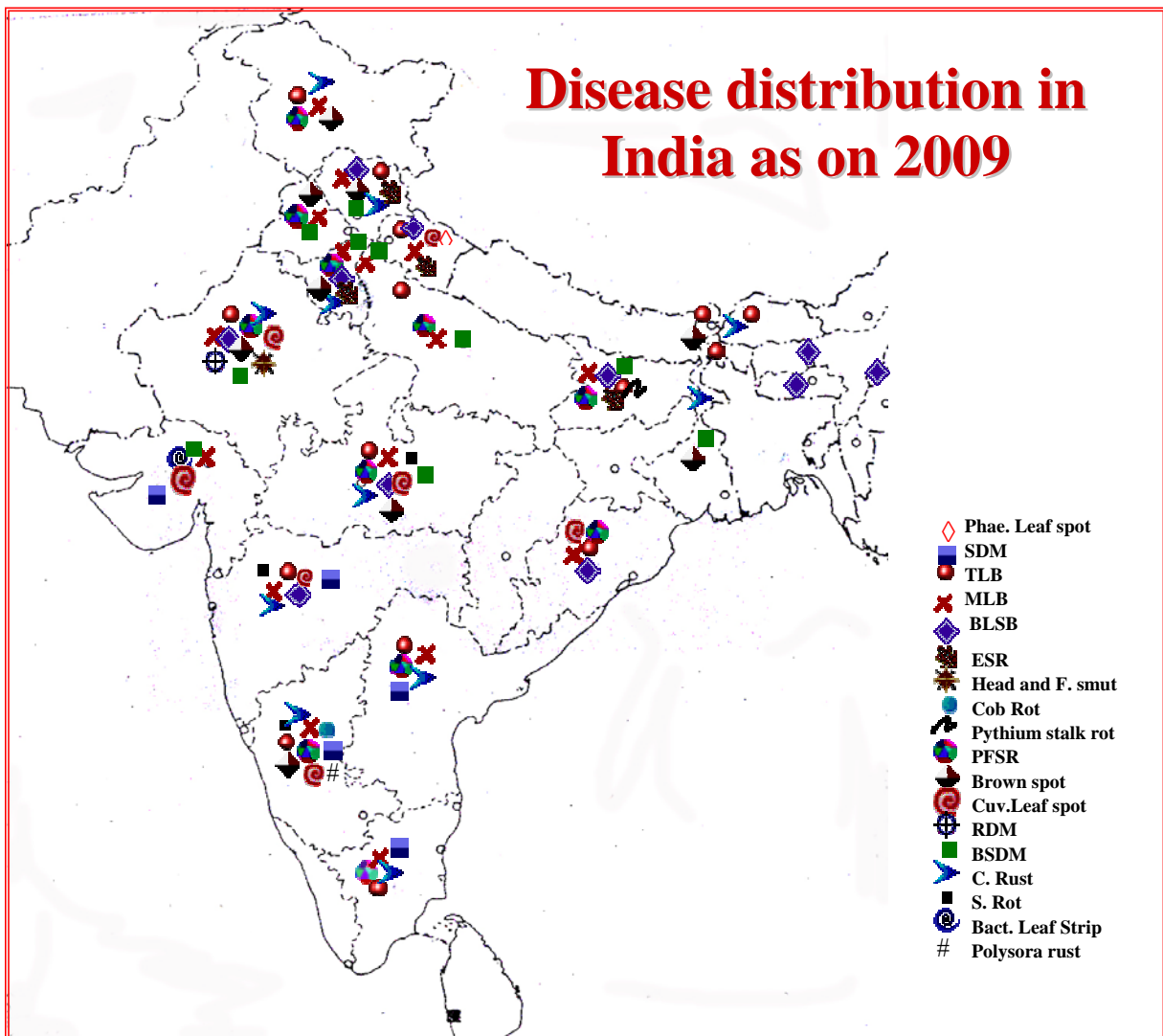
2009

DIRECTORATE OF MAIZE RESEARCH
PUSA CAMPUS, NEW DELHI-110012

Achievement for the year 2009 Pathology

Survey and Surveillance

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Karnataka, Tamil Nadu, and Himachal Pradesh. The most common diseases of the areas were Turcicum Leaf Blight in Karnataka and H. P. , Banded leaf and sheath blight in Rajasthan and H. P. , Brown stripe downy mildew, Erwinia stalk rots, Brown spot rot in H. P. Polysora rust is emerging as a potential threat in Karnataka. A new disease identified as zonate leaf spot caused by *Gloeocerospora sorghi* was reported from Experimental Farm of VPKAS, Almora (Uttarakhand) in 2008. Based on the survey surveillance, the disease map was updated.



Coordinated Trials

A total of 202 maize genotypes and 17 QPM genotypes in 10 different trials comprising of various maturity groups were evaluated against different maize diseases *viz.* Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Brown stripe downy mildew (BSDM), Rajasthan downy mildew (RDM), Post-flowering stalk rot (PFSR), Common rust (C. Rust), Polysora rust (P. Rust) and Erwinia stalk rot (ESR). The screenings of these genotypes were carried out under artificially inoculated conditions in the various hot spots located in different agroclimatic zones of the country. The most promising genotypes with combined resistance to various diseases are:

Resistant Maize genotypes in IET full season maturity (Trial 61) –

A total of thirty six genotypes were resistant out of fifty two genotypes. Some of the important entries with multiple disease resistance are:

| | |
|------------------------|----------------------------------|
| CMH 08 - 282 | MLB, TLB, RDM, PFSR |
| H K H - 406 | MLB, TLB, BSDM, P.RUST, C.RUST |
| J H - 12108 | TLB, RDM, P.RUST, C.RUST |
| H K I 1126 X HKI 163-1 | TLB, BSDM, P.RUST, C.RUST |
| M C H - 40 | MLB, BSDM, ESR, PFSR, C.RUST |
| LAXMI GOLD | TLB, P.RUST, C.RUST |
| N M H - 920 | TLB, BSDM, ESR, P RUST, C.RUST |
| N K - 6246 | TLB, RDM, P.RUST, C.RUST |
| PRO - 378 | MLB, TLB, BSDM, P. RUST, C. RUST |

Moderately Resistant to BLSB

| | |
|--------------|------|
| CMH 08 - 282 | BLSB |
|--------------|------|

Resistant Maize genotypes in IET medium maturity (Trial 62) –

A total of sixteen genotypes showed resistant reaction out of forty two genotypes, out of them some important are

| | |
|-----------------|-----------------------------------|
| 1. X 8 B 557 | MLB, ESR, P.RUST, C.RUST |
| 2. X 8 B 6 9 1 | MLB, BSDM, ESR, P.RUST, C.RUST |
| 3. MCH - 41 | MLB, BLSB, RDM, BSDM, ESR, C.RUST |
| 4. HKH - 308 | BSDM, ESR, C.RUST |
| 5. SARPUNCH-171 | BSDM, P.RUST, C.RUST |
| 6. KDMH 017 | BSDM, ESR, P.RUST, C.RUST |

Resistant Maize genotypes in IET early maturity (Trial 63) –

Following maize genotypes showed resistant reaction out of seventeen genotypes

| | |
|------------|-------------------------|
| EHL 162508 | MLB, BLSB, BSDM, C.RUST |
| FH 3506 | MLB, RDM, BSDM, ESR |
| BIO – 605 | MLB, RDM, BSDM, C.RUST |
| REH – 2003 | BSDM, ESR, C.RUST |
| A H 97017 | BSDM, C. RUST |

Resistant Maize genotypes in IET extra early maturity (Trial 64) -

Promising genotypes showed resistant reaction to various diseases are

| | |
|-------------|---------------------------|
| F H 3478 | MLB, BSDM, C.RUST |
| F H 3483 | RDM, BSDM, P.RUST, C.RUST |
| A H - 97020 | PFSR, C.RUST |

Resistant Maize genotypes in AET full season maturity (Trial 75) –

Promising genotypes with combined resistance to various diseases are

| | |
|------------------|-------------------------------|
| 1. B H - 417135 | MLB, TLB, ESR, P.RUST, C.RUST |
| 2. LAXMI - 9495 | TLB, BSDM, P.RUST, C.RUST |
| 3. G K - 3059 | MLB, BLSB, ESR, P.RUST |
| 4. KMH - 3669 | MLB, BLSB, BSDM |
| 5. HTCH - 5401 | MLB, BLSB, RDM, PFSR |
| 6. MCH - 38 | MLB, BLSB |
| 7. MDMH - 101 | BLSB, C.RUST |
| 8. KMH SUPER 244 | BSDM, PFSR, ESR, C.RUST |

Resistant Maize genotypes in AET medium maturity (TRIAL 76) –

Promising genotypes with combined resistance to various diseases are

| | |
|----------------|-----------------------------------|
| 1. B H 408005 | MLB, BLSB, BSDM, ESR |
| 2. JH 31153 | MLB, PFSR, P.RUST, C.RUST |
| 3. C. P – 828 | MLB, BLSB, RDM, PFSR, ESR, C.RUST |
| 4. BISCO 855 | MLB, BSDM, PFSR |
| 5. C. P – 838 | MLB, BSDM, PFSR |
| 6. BH - 406126 | BSDM, C.RUST |
| 7. EC – 3160 | BSDM, PFSR |
| 8. B L – 2802 | RDM, BSDM, PFSR |

Resistant Maize genotypes in AET early maturity (Trial 77) –

Promising genotypes with combined resistance to various diseases are

| | |
|-------------------|--------------------------------|
| COMP.R – 2006 – 1 | MLB, BSDM, PFSR |
| COMP.R – 2007 – 1 | MLB, BSDM, ESR, P.RUST, C.RUST |
| J H – 31110 | MLB, BSDM, PFSR, ESR, C.RUST |
| UMC - 12 | BSDM, PFSR |
| KML - 9 | BSDM, P.RUST, C.RUST |

Resistant Maize genotypes in AET extra early maturity (Trial 78) –

Promising genotypes with combined resistance to various diseases are

| | |
|-----------------------|---------------------------|
| F H – 3463 | MLB, BSDM |
| F H – 3464 | MLB, BSDM, P.RUST, C.RUST |
| F H – 3358(RETESTING) | MLB, RDM, BSDM, PFSR |

Resistant QPM genotypes to various diseases**QPM – 1**

| | |
|----------------|---------------------|
| HQPM-20 | TLB, BSDM, ESR |
| BAUSYN-8-9-502 | TLB, BSDM |
| VEHQ-3019 | MLB, TLB, BSDM, ESR |
| VQPMH-282 | MLB, TLB, BSDM |
| JHQPM-304 | TLB, BSDM |

QPM – 2 & 3

VEH QPM-3027

MLB

Nematology

Two hundred and twelve (212) maize entries belong to different maturity groups were screened against cyst nematode, *Heterodera zaeae* maize entries viz. LAXMI GOLD, NMH – 731, HKH – 309, HKH – 312, JH – 31292, G K – 3059, PHS – 520247, KMH – 3712, BISCO – 855, KAVERI – 25K60 showed moderately resistant reaction to *H. zaeae*.

Survey was carried out in maize growing areas to find out occurrence and distribution of *H. zaeae*. Maximum occurrence (73.33 %) was observed from Rajsamand followed by Udaipur (70.00 %) and Ajmer (66.67%) district of Rajasthan. On an average, occurrence of cyst nematode was recorded 65.28 per cent. Maximum average nematode population was obtained in the samples collected from Rajsamand (17.00 cyst/plant, 12.55 cyst/100 cc soil and 732.73 larvae/100 cc soil) and minimum population of nematode (3.56 cyst/plant, 6.00 cyst/100 cc soil and 350.00 larvae/100 cc soil) was observed in the samples received from Godhara (Guj).

Inbred Line Evaluation

A total of 196 inbred lines were evaluated against major diseases of maize under artificial epiphytotic conditions at various hot spot locations i.e. PFSR at Hyderabad, Udaipur, Delhi and Ludhiana, MLB at Ludhiana, TLB and P. rust at Mandya and BLSB at Delhi and SDM at Mandya. Out of them some promising lines are-

Resistant lines identified are -

| | |
|-----------------|--|
| CUBA 380 | MLB, TLB, BSDM |
| DDMSC-4-1 DR 10 | MLB, PFSR, TLB, ESR |
| DMSC14 | MLB, TLB, BSDM, P.RUST |
| DMSC16 | MLB, BLSB |
| DMSC16 | MLB, ESR, P.RUST |
| DMSC-37-3 | TLB, BSDM, ESR |
| Gen1858 | TLB, BSDM, P.RUST |
| HKI –PC-4B-1 | BSDM, BLSB |
| HKI-PC-7 | MLB, SDM, TLB, BSDM, BLSB, ESR, P.RUST |
| HKI-PC-8-2 | TLB, BSDM, ESR |
| HKI-PC-8-2 | BSDM, BLSB |
| WINPOP-21 | BLSB |
| Hyd05R/204-1 | MLB, PFSR, BSDM, P.RUST |
| LM 5 | MLB, PFSR, TLB, ESR |
| V 335 | MLB, BSDM, BLSB |
| NC 406-1 | MLB, TLB, BSDM, P.RUST |
| CM 132 | MLB, PFSR, TLB, BSDM, P.RUST |
| CM 146 | MLB, PFSR, BSDM, ESR, P.RUST |
| CM501 | MLB, PFSR, TLB, P.RUST |
| CM502 | MLB, TLB, BSDM, P.RUST |
| HKI C 78 | TLB, BSDM |
| HKI 141 | MLB, TLB |
| HKI 141 | MLB, PFSR, BSDM, TLB, P.RUST |

| | |
|---------------------------|-----------------------------------|
| HKI C 323 | MLB, PFSR, BSDM, TLB |
| HKI 1352-5-8-9 | MLB, TLB, P.RUST |
| CML 141 | MLB, TLB, P.RUST |
| CML 154 | MLB, BSDM, P.RUST |
| CML 269 | MLB, PFSR, TLB |
| CML 384 | MLB, BSDM, TLB, P.RUST |
| HKI-162-2 | MLB, BSDM, TLB, ESR |
| HKI 164-3 (2-1)-1 | MLB, BSDM, P.RUST, TLB |
| HKI-164-4-(1-3)-2-2 | MLB, TLB, BSDM, P.RUST |
| HKI 164-3 (2-1)-1 | MLB, TLB, BSDM, ESR, P.RUST |
| HKI 164-D-3-3-2 | MLB, TLB, BSDM |
| HKI 164-7-6 x 161 | MLB, BSDM, TLB, ESR |
| HKI 164-7-4 ER-3 | MLB, PFSR TLB, |
| HKI 164-7-4 | MLB, P.RUST, TLB |
| HKI-164-7-4-2 | MLB, TLB, ESR |
| HKI 164-7-2 | MLB, PFSR, BSDM, BLSB, TLB |
| HKI-164-7-6X161-2 | MLB, TLB, P.RUST |
| HKI 193-2-2 | ESR, PFSR, TLB |
| HKI-193-2-2-4 | MLB, BSDM, TLB |
| HKI 193-1 | SDM, P.RUST, BSDM |
| CML 165 | MLB, BSDM, TLB |
| CML 167 | MLB, PFSR, BSDM, ESR, TLB, P.RUST |
| HKI MBR-139 | MLB, PFSR, TLB, P.RUST |
| HKI-MBR-139-2 | MLB, BSDM, TLB, P.RUST |
| DMR QPM-03-124 | MLB, BSDM, P.RUST |
| CLQ-RCYQ30 | TLB, BSDM |
| CLQ-RCYQ41 | MLB, TLB, BSDM, P.RUST |
| CML 451Q | MLB, TLB, BSDM |
| HIGH OIL POPULATION II | MLB, TLB |
| HIGH OIL POPULATION II | MLB, TLB, P.RUST |
| HKI Tall-8-1-1 | MLB, BSDM, TLB |
| 02POOL 33 C24 | TLB, BSDM, P.RUST |
| PFSR - R9 | MLB, PFSR, TLB, BSDM, ESR, BLSB |
| PFSR - R10 | PFSR, TLB, BLSB |
| PFSR - S3 | MLB, PFSR, TLB, BSDM, ESR, BLSB |
| PFSR - S3 | PFSR, TLB, BSDM, ESR, BLSB |
| JCY2-1-2-1-1B-1-2-3-1-1-1 | MLB, PFSR, TLB, BSDM, ESR, BLSB |
| JCY2-7-1-2-1-B-1-2-1-1 | MLB, PFSR, TLB, BSDM, |
| JCY3-7-1-2-1-'B-1-1-4-1 | MLB, PFSR, BSDM, ESR, BLSB |

Evaluation of inbred lines against PFSR at Delhi, Hyderabad, Ludhiana, Udaipur

A total of 74 entries were evaluated and out of them 22 were selected as a resistant to PFSR across the locations with disease score of <5.0 (1-9 rating scale)

Assessment of yield losses –

Trials on assessment of yield losses were conducted for various diseases in different locations *viz* for TLB at Arabhavi, the yield loss was 22.62% in DMH-2, 7.84% in EH 434042 (Arjun) and 16.55% in Bio 9681 over protected plot. At Hyderabad, the yield loss was 20.11% in genotype 30V92 due to PFSR (*M. phaseolina*), whereas the loss due to *Fusarium*

miniliforme was 36.23% at Udaipur in variety Mahi Dhawal. In Delhi trial on yield losses for PFSR (*M. phaseolina*) and MLB were conducted but due to unfavorable weather conditions at the time of inoculation the disease incidence was not satisfactory hence the yield data was not useful to draw any conclusion.

In House Project

❖ **Studies on variability among the isolates of *M. phaseolina* and *F. moniliforme* in maize and Identification of sources of resistance against Post Flowering Stalk Rots of maize.**

- Thirty entries out of fifty three were identified as resistant (<2.0 disease score) to *M. phaseolina* and *F. moniliforme* causal organisms of Charcoal rot disease. Some of the promising lines are-

1. CML 298
2. AF-04-B-5796-A- 7-1
3. CM 202
4. JCY3-7-1-2-1-'b-6-1-2-1
5. SKV 18
6. 951-7
7. DMSC1
8. DMSC3
9. HKI 226
10. HKI 17-2



Fusarium moniliforme



Macrophomina phaseolina



Resistant Plant

❖ **Post harvest management of losses due to microbial colonization in stored maize grains**

1. Maize grains, artificially inoculated with toxic strains of *A. flavus* were treated with *Trichoderma harzianum*, Sodium tripolyphosphate and Ammonium carbonate. Germination % in treated grains 70-100% whereas in untreated ranged from 70-80%. Ammonium carbonate was the best in minimizing AFB1 up to 85 percent.
2. Experiment to find out the efficacy of biocontrol agents and non-toxic chemicals for the management of stored grains (Pinnacle and DHM III) is in progress. Maize grains were inoculated with toxic isolate of *A. flavus* and treated with *T. harzianum*, *A. flavus* (non-toxic strain) and Ammonium carbonate. Data on different parameters are being recorded.

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|----|---|-------------|
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Table: 1

Trial 61 : Evaluation of Maize Genotypes (IET full season maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | |
|------|-------------------------|--------------|-----|-----|-----|--------------|-----|-----|------|---------------|------|
| | | BAJ | DEL | DHO | LUD | BAJ | ARB | ALM | MAND | DEL | PANT |
| 1 | KNMH - 40901 | 2.0 | 1.5 | 2.5 | 2.0 | 3.0 | 2.5 | 1.5 | 2.0 | 4.0 | 3.0 |
| 2 | KNMH - 40902 | 2.0 | 2.0 | 3.0 | 2.0 | 4.0 | 2.9 | 1.5 | 2.0 | 4.0 | 5.0 |
| 3 | KNMH - 40903 | 2.0 | 1.5 | 3.0 | 2.5 | 2.5 | 2.5 | 1.5 | 2.0 | 3.5 | 3.5 |
| 4 | KNMH - 40904 | 2.0 | 2.0 | 3.5 | 3.0 | 4.5 | 3.8 | 1.8 | 3.3 | 3.0 | 4.3 |
| 5 | CMH 08 - 154 | 1.0 | 1.5 | 2.5 | 2.5 | 0.5 | 2.4 | 1.0 | 3.3 | 3.0 | 4.0 |
| 6 | CMH 08 - 156 | 2.0 | 1.5 | 2.5 | 2.0 | 2.0 | 2.6 | 1.5 | 2.8 | 3.5 | 3.8 |
| 7 | CMH 08 - 282 | 2.0 | 1.5 | 2.2 | 1.7 | 1.0 | 1.4 | 1.0 | 2.5 | 2.5 | 2.8 |
| 8 | H K H - 406 | 2.0 | 1.5 | 2.5 | 2.2 | 2.5 | 2.1 | 1.5 | 2.0 | 3.5 | 4.5 |
| 9 | H K H - 407 | 2.0 | 2.0 | 3.0 | 2.5 | 3.0 | 3.4 | 1.3 | 3.5 | 4.0 | 4.5 |
| 10 | J H - 12108 | 2.0 | 1.5 | 2.8 | 1.7 | 2.5 | 2.2 | 1.5 | 2.0 | 3.0 | 3.0 |
| 11 | J H - 12114 | 2.0 | 1.5 | 2.5 | 2.2 | 4.0 | 2.4 | 1.3 | 2.5 | 4.0 | 3.0 |
| 12 | IDX - 2901 | 2.0 | 1.5 | 2.0 | 1.5 | 3.0 | 2.3 | 1.3 | 3.3 | 3.0 | 3.3 |
| 13 | B M H - 107 | 2.0 | 1.5 | 2.5 | 3.2 | 3.0 | 2.7 | 1.0 | 3.5 | 3.5 | 4.3 |
| 14 | B M H - 109 | 1.5 | 2.0 | 3.5 | 3.0 | 2.5 | 3.2 | 1.0 | 3.5 | 3.0 | 3.0 |
| 15 | V M H - 2000 | 2.5 | 2.0 | 4.0 | 2.2 | 3.0 | 3.6 | 1.3 | 2.8 | 3.0 | 4.8 |
| 16 | JCY 2-7 X H K I 163 - 1 | 2.0 | 1.5 | 2.5 | 1.5 | 1.5 | 2.4 | 1.3 | 2.8 | 3.0 | 4.3 |
| 17 | H K I 1126 X HKI 163-1 | 2.0 | 1.5 | 2.8 | 1.7 | 1.5 | 2.1 | 1.3 | 2.0 | 3.0 | 4.8 |
| 18 | M C H - 39 | 2.0 | 2.0 | 2.6 | 2.2 | 3.0 | 3.6 | 1.8 | 3.8 | 3.0 | 2.8 |
| 19 | M C H - 40 | 2.0 | 1.5 | 2.5 | 1.7 | 3.0 | 3.0 | 1.5 | 3.3 | 3.0 | 3.0 |
| 20 | APSA - 91 | 2.5 | 1.5 | 4.0 | 2.0 | 2.0 | 2.2 | 1.5 | 3.8 | 3.0 | 3.5 |
| 21 | G K - 3060 | 2.0 | 2.0 | 4.0 | 2.0 | 3.0 | 3.3 | 1.5 | 2.8 | 3.5 | 4.5 |
| 22 | G K - 3074 | 2.0 | 2.0 | 3.0 | 2.2 | 2.5 | 3.5 | 1.5 | 3.5 | 4.0 | 4.3 |
| 23 | G K - 3076 | 2.0 | 2.0 | 2.0 | 1.7 | 2.0 | 3.0 | 1.8 | 4.3 | 3.0 | 4.0 |
| 24 | LAXMI GOLD | 1.5 | 1.5 | 3.0 | 2.0 | 2.0 | 2.3 | 1.5 | 2.0 | 3.0 | 2.5 |
| 25 | LAXMI 405 | 2.0 | 2.5 | 3.5 | 2.0 | 3.5 | 3.2 | 1.5 | 3.3 | 3.0 | 3.8 |
| 26 | LAXMI 288 | 1.5 | 2.5 | 3.0 | 2.2 | 1.5 | 2.9 | 1.3 | 2.5 | 3.5 | 2.8 |
| 27 | BISCO - 74 | 2.0 | 2.0 | 4.0 | 1.7 | 2.5 | 2.8 | 1.5 | 3.5 | 3.5 | 3.5 |
| 28 | BISCO - 574 | 2.0 | 2.0 | 3.5 | 3.0 | 3.5 | 3.4 | 1.5 | 3.5 | 3.5 | 4.5 |
| 29 | PAC - 799 | 1.5 | 2.0 | 3.0 | 1.7 | 1.5 | 2.0 | 1.3 | 2.8 | 4.0 | 2.8 |
| 30 | BIO - 265 | 2.0 | 1.5 | 3.0 | 1.7 | 3.5 | 3.5 | 1.5 | 3.5 | 2.5 | 3.5 |

Table: 1

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | |
|----------------|----------------------|--------------|-----|-----|-----|--------------|-----|-----|------|---------------|------|
| | | BAJ | DEL | DHO | LUD | BAJ | ARB | ALM | MAND | DEL | PANT |
| 31 | N M H - 731 | 2.0 | 1.5 | 2.6 | 1.7 | 2.5 | 2.6 | 1.5 | 2.8 | 3.0 | 3.5 |
| 32 | N M H - 920 | 1.5 | 2.0 | 3.2 | 1.5 | 2.5 | 2.0 | 1.3 | 2.0 | 4.0 | 4.0 |
| 33 | N M H - 958 | 2.0 | 2.0 | 3.2 | 2.0 | 2.0 | 2.5 | 1.5 | 3.5 | 3.5 | 3.3 |
| 34 | AMAR 6669 | 1.5 | 2.0 | 3.0 | 1.7 | 1.5 | 3.5 | 1.8 | 4.3 | 3.0 | 4.8 |
| 35 | OM 7878 | 2.0 | 2.0 | 3.0 | 2.5 | 2.0 | 3.2 | 1.5 | 3.5 | 3.5 | 4.0 |
| 36 | JKMH 8033 | 2.5 | 2.0 | 2.5 | 2.5 | 3.5 | 4.0 | 2.0 | 3.8 | 3.5 | 3.8 |
| 37 | JKMH - 7005 | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 3.5 | 1.8 | 3.5 | 3.0 | 3.3 |
| 38 | PRO - 377 | 2.5 | 2.5 | 3.0 | 2.0 | 2.0 | 2.9 | 1.5 | 4.3 | 3.5 | 3.0 |
| 39 | PRO - 378 | 2.0 | 1.5 | 2.0 | 2.0 | 2.5 | 2.5 | 1.5 | 2.0 | 3.0 | 3.0 |
| 40 | N K - 6246 | 2.0 | 1.5 | 3.5 | 2.0 | 2.5 | 2.2 | 1.5 | 2.0 | 3.5 | 5.0 |
| 41 | N K - 6267 | 2.5 | 2.0 | 2.5 | 2.5 | 3.0 | 3.4 | 1.8 | 4.3 | 3.0 | 3.0 |
| 42 | N K - 6607 | 2.5 | 1.5 | 2.5 | 2.0 | 3.0 | 2.8 | 2.0 | 2.8 | 3.5 | 3.8 |
| 43 | N K - 6617 | 0.5 | 2.0 | 3.0 | 2.0 | 1.0 | 2.1 | 1.5 | 2.5 | 4.0 | 4.8 |
| 44 | KMH - 3670 | 2.5 | 2.0 | 3.5 | 3.0 | 1.5 | 2.2 | 1.5 | 2.8 | 2.0 | 3.8 |
| 45 | K M H - 548 | 1.5 | 1.5 | 3.5 | 1.7 | 2.0 | 3.6 | 1.5 | 3.8 | 3.0 | 3.5 |
| 46 | X7A303 | 2.0 | 1.5 | 2.5 | 2.2 | 3.5 | 3.4 | 1.5 | 3.8 | 3.5 | 3.3 |
| 47 | X8B562 | 2.0 | 1.5 | 1.5 | 1.2 | 3.5 | * | 2.0 | 2.0 | 3.0 | 3.8 |
| 48 | K H - 404 | 2.5 | 1.5 | 2.8 | 2.5 | 3.0 | 3.8 | 1.8 | 4.5 | 3.0 | 3.5 |
| 49 | MAIZE POLO | 2.5 | 2.0 | 3.5 | 2.5 | 3.5 | 2.7 | 2.0 | 3.5 | 3.5 | 3.8 |
| 50 | C. - 1950 | 2.0 | 2.0 | 3.2 | 2.2 | 3.0 | 3.5 | 1.5 | 2.5 | 3.5 | 4.8 |
| 51 | C. - 1945 | 2.5 | 2.0 | 3.0 | 2.0 | 4.0 | 3.8 | 1.8 | 4.5 | 3.0 | 2.8 |
| 52 | K F - 105 | 2.5 | 1.5 | 3.5 | 2.0 | 4.5 | 3.3 | 1.8 | 4.3 | 3.5 | 3.5 |
| CHECKS: | | | | | | | | | | | |
| 53 | BIO - 9681 (C) | 2.5 | 2.0 | 3.0 | 2.0 | 4.0 | 3.7 | 1.8 | 2.0 | 3.5 | 4.3 |
| 54 | SEEDTEC - 2324 (C) | 1.5 | 1.5 | 3.5 | 1.5 | 2.5 | 2.7 | 1.5 | 4.3 | 3.0 | 3.0 |
| 55 | HQPM - 1 (C) | 1.5 | 2.0 | 3.0 | 3.0 | 1.0 | 3.1 | 1.3 | 2.0 | 3.5 | 2.5 |
| 56 | HQPM -7 (C) | 2.0 | 2.0 | 3.0 | 3.0 | 2.5 | 3.3 | 1.5 | 3.5 | 3.5 | 3.5 |
| | S.C CM-202 | - | - | - | - | - | 5.0 | - | - | - | - |
| | R.C | - | - | - | - | - | - | - | 2.0 | - | - |
| | S.C | - | - | - | - | - | - | 2.8 | 4.5 | - | - |
| | Local Check | - | - | 4.5 | 2.5 | - | - | - | - | - | - |

* seed were not recieved

Table: 1

| S.NO | Pedigree | SDM | DM | RDM | BSDM | | PFSR | | ESR | | P.RUST | C.RUST | CYST Nema# | |
|------|-------------------------|-------|-------|-------|-------|------|-------|-----|-----|------|--------|--------|------------|--------|
| | | (%) | (%) | (%) | (1-5) | PANT | (1-9) | HYD | UDP | (%) | (1-5) | (1-5) | UDP | |
| | | MAND | COIM | UDP | DHAU | PANT | LUD | HYD | UDP | DHAU | PANT | MAND | ARB | UDP |
| 1 | KNMH - 40901 | 100.0 | 87.2 | 69.50 | 1.0 | 1.5 | 5.9 | 5.7 | 5.6 | 15.7 | 0.0 | 4.3 | 1.0 | 15-24 |
| 2 | KNMH - 40902 | 100.0 | 100.0 | 68.00 | 1.0 | 1.8 | 6.3 | 6.5 | 4.3 | 17.5 | 13.5 | 4.3 | 1.3 | 11--18 |
| 3 | KNMH - 40903 | 100.0 | 100.0 | 78.30 | 2.0 | 1.3 | 7.1 | 5.8 | 3.8 | 26.7 | 0.0 | 4.5 | 2.5 | 20-27 |
| 4 | KNMH - 40904 | 100.0 | 100.0 | 82.60 | 1.0 | 1.5 | 4.4 | 6.1 | 3.5 | 68.6 | 18.2 | 4.3 | 2.3 | 8--13 |
| 5 | CMH 08 - 154 | 100.0 | 100.0 | 88.00 | 1.0 | 1.8 | 3.8 | 5.1 | 2.7 | 64.1 | 3.1 | 4.5 | 3.0 | 21-29 |
| 6 | CMH 08 - 156 | 100.0 | 100.0 | 88.00 | 2.0 | 1.3 | 4.0 | 5.9 | 2.9 | 49.0 | 10.7 | 3.3 | 2.4 | 29-36 |
| 7 | CMH 08 - 282 | 71.90 | 63.2 | 0.00 | 3.0 | 1.3 | 3.5 | 4.4 | 3.0 | 17.8 | 14.2 | 3.5 | 1.5 | 20-25 |
| 8 | H K H - 406 | 100.0 | 100.0 | 45.80 | 1.0 | 1.5 | 4.3 | 4.5 | 8.0 | 33.7 | 6.9 | 2.0 | 1.3 | 48-58 |
| 9 | H K H - 407 | 100.0 | 100.0 | 56.50 | 1.0 | 1.5 | 4.7 | 4.4 | 8.2 | 1.9 | 0.0 | 2.8 | 1.3 | 45-53 |
| 10 | J H - 12108 | 70.10 | 69.9 | 4.20 | 2.0 | 1.5 | 3.8 | 5.4 | 2.3 | 17.6 | 0.0 | 2.0 | 1.0 | 10--15 |
| 11 | J H - 12114 | 100.0 | 100.0 | 64.00 | 1.5 | 1.3 | 4.8 | 5.8 | 2.5 | 5.6 | 7.7 | 4.3 | 2.5 | 9--13 |
| 12 | IDX - 2901 | 100.0 | 92.6 | 4.20 | 1.0 | 1.3 | 4.1 | 4.8 | 4.7 | 3.5 | 0.0 | 3.5 | 1.8 | 5--11 |
| 13 | B M H - 107 | 100.0 | 100.0 | 57.10 | 1.0 | 1.8 | 4.9 | 5.2 | 4.2 | 12.4 | 4.5 | 3.8 | 3.2 | 14-21 |
| 14 | B M H - 109 | 100.0 | 95.9 | 54.20 | 1.0 | 1.3 | 6.1 | 5.1 | 7.7 | 2.3 | 0.0 | 3.5 | 1.5 | 30-37 |
| 15 | V M H - 2000 | 100.0 | 100.0 | 48.00 | 2.0 | 1.3 | 4.9 | 7.8 | 5.6 | 16.4 | 0.0 | 3.8 | 1.5 | 46-54 |
| 16 | JCY 2-7 X H K I 163 - 1 | 100.0 | 97.4 | 52.00 | 2.0 | 1.8 | 2.7 | 4.8 | 3.3 | 9.2 | 6.2 | 4.0 | 3.8 | 25-32 |
| 17 | H K I 1126 X HKI 163-1 | 100.0 | 100.0 | 88.90 | 1.0 | 1.5 | 4.1 | 5.0 | 4.4 | 20.2 | 0.0 | 2.0 | 1.0 | 15-20 |
| 18 | M C H - 39 | 100.0 | 100.0 | 55.60 | 2.0 | 1.8 | 4.6 | 4.0 | 4.0 | 92.1 | 2.6 | 2.5 | 1.0 | 36-42 |
| 19 | M C H - 40 | 100.0 | 100.0 | 52.00 | 1.0 | 1.8 | 3.6 | 3.4 | 4.6 | 7.0 | 10.0 | 2.8 | 1.0 | 50-55 |
| 20 | APSA - 91 | 25.20 | 75.9 | 0.00 | 1.5 | 1.5 | 4.2 | 3.5 | 5.4 | 33.1 | 0.0 | 2.5 | 1.3 | 23-30 |
| 21 | G K - 3060 | 100.0 | 100.0 | 52.20 | 2.0 | 1.3 | 4.0 | 5.0 | 4.3 | 34.5 | 5.7 | 4.5 | 1.5 | 50-58 |
| 22 | G K - 3074 | 100.0 | 100.0 | 90.00 | 2.0 | 1.0 | 6.9 | 5.1 | 2.3 | 18.8 | 3.3 | 4.5 | 1.0 | 37-43 |
| 23 | G K - 3076 | 100.0 | 100.0 | 77.80 | 2.5 | 1.3 | 3.7 | 5.0 | 4.0 | 15.4 | 0.0 | 3.8 | 2.0 | 20-27 |
| 24 | LAXMI GOLD | 93.90 | 100.0 | 37.50 | 2.0 | 1.5 | 4.5 | 5.9 | 4.5 | 33.5 | 13.9 | 2.0 | 1.0 | 3--8 |
| 25 | LAXMI 405 | 92.00 | 100.0 | 38.10 | 2.0 | 1.8 | 4.6 | 5.5 | 4.7 | 23.2 | 3.1 | 3.3 | 1.4 | 20-26 |
| 26 | LAXMI 288 | 84.60 | 100.0 | 8.60 | 1.5 | 1.5 | 4.7 | 5.8 | 5.0 | 19.2 | 2.6 | 3.5 | 1.9 | 52-62 |
| 27 | BISCO - 74 | 100.0 | 100.0 | 48.00 | 1.0 | 1.5 | 3.9 | 5.6 | 4.4 | 8.9 | 0.0 | 3.5 | 1.0 | 38-45 |
| 28 | BISCO - 574 | 100.0 | 100.0 | 81.80 | 1.0 | 1.5 | 7.4 | 6.5 | 5.6 | 16.7 | 3.5 | 3.8 | 1.1 | 53-61 |
| 29 | PAC - 799 | 100.0 | 100.0 | 90.50 | 1.0 | 1.0 | 4.3 | 5.5 | 2.6 | 0.0 | 4.6 | 4.0 | 1.0 | 29-37 |
| 30 | BIO - 265 | 100.0 | 100.0 | 62.50 | 1.0 | 1.8 | 3.3 | 4.8 | 3.1 | 0.0 | 3.6 | 3.3 | 1.0 | 13-20 |
| 31 | N M H - 731 | 100.0 | 100.0 | 72.00 | 2.0 | 1.5 | 4.5 | 5.6 | 5.1 | 0.0 | 0.0 | 3.5 | 3.5 | 4--7 |

range of cyst/ plant

Table: 1

| S.NO | Pedigree | SDM | DM | RDM | BSDM | | PFSR | | ESR | | P.RUST | C.RUST | CYST Nema# | |
|----------------|----------------------|-------|-------|------|-------|------|-------|-----|-----|------|--------|--------|------------|-------|
| | | (%) | (%) | (%) | (1-5) | PANT | (1-9) | LUD | HYD | UDP | DHAU | PANT | (1-5) | (1-5) |
| | | MAND | COIM | UDP | DHAU | PANT | LUD | HYD | UDP | DHAU | PANT | MAND | ARB | UDP |
| 32 | N M H - 920 | 100.0 | 100.0 | 65.2 | 2.0 | 1.3 | 5.3 | 5.2 | 5.4 | 7.9 | 0.0 | 2.0 | 1.4 | 28-34 |
| 33 | N M H - 958 | 100.0 | 100.0 | 59.1 | 2.0 | 1.3 | 4.7 | 5.8 | 6.7 | 8.1 | 0.0 | 3.8 | 1.1 | 43-53 |
| 34 | AMAR 6669 | 100.0 | 100.0 | 80.0 | 2.0 | 1.3 | 3.3 | 6.3 | 3.9 | 21.2 | 2.9 | 3.5 | 1.5 | 21-29 |
| 35 | OM 7878 | 100.0 | 100.0 | 33.3 | 1.0 | 1.3 | 4.7 | 5.4 | 5.3 | 7.6 | 0.0 | 3.5 | 2.9 | 39-47 |
| 36 | JKMH 8033 | 100.0 | 100.0 | 96.0 | 1.0 | 1.8 | 5.3 | 4.8 | 4.1 | 18.8 | 5.9 | 4.8 | 1.3 | 35-41 |
| 37 | JKMH - 7005 | 12.8 | 3.8 | 4.3 | 1.0 | 1.0 | 6.3 | 5.8 | 5.6 | 22.7 | 9.4 | 2.0 | 1.3 | 44-51 |
| 38 | PRO - 377 | 100.0 | 100.0 | 33.3 | 3.0 | 1.5 | 5.0 | 6.3 | 4.6 | 30.9 | 0.0 | 3.5 | 1.3 | 11-18 |
| 39 | PRO - 378 | 84.0 | 100.0 | 52.0 | 2.0 | 1.5 | 4.1 | 5.2 | 2.1 | 29.3 | 0.0 | 2.0 | 1.1 | 30-36 |
| 40 | N K - 6246 | 0.0 | 48.8 | 0.0 | 2.5 | 1.3 | 2.9 | 5.8 | 8.5 | 24.2 | 3.3 | 2.0 | 1.1 | 44-52 |
| 41 | N K - 6267 | 7.8 | 60.7 | 0.0 | 3.0 | 1.8 | 3.9 | 4.5 | 3.3 | 36.9 | 0.0 | 3.8 | 3.6 | 22-30 |
| 42 | N K - 6607 | 0.0 | 74.1 | 0.0 | 2.0 | 1.3 | 4.7 | 4.5 | 5.8 | 15.0 | 0 | 3.5 | 2.0 | 44-54 |
| 43 | N K - 6617 | 1.7 | 32.7 | 0.0 | 2.0 | 1.5 | 6.0 | 5.0 | 3.8 | 3.6 | 27.4 | 3.3 | 2.3 | 37-43 |
| 44 | KMH - 3670 | 100.0 | 100.0 | 37.5 | 3.0 | 1.0 | 5.7 | 6.0 | 5.0 | 42.4 | 0.0 | 2.8 | 1.2 | 31-38 |
| 45 | K M H - 548 | 100.0 | 100.0 | 24.0 | 2.0 | 1.8 | 4.0 | 5.2 | 6.8 | 6.1 | 0.0 | 4.3 | 1.5 | 42-55 |
| 46 | X7A303 | 100.0 | 100.0 | 66.7 | 2.5 | 1.0 | 3.9 | 5.6 | 4.6 | 13.2 | 4.2 | 3.5 | 1.3 | 52-60 |
| 47 | X8B562 | 100.0 | 100.0 | 36.0 | 3.0 | 1.5 | 3.7 | 6.5 | 4.0 | 44.5 | 0.0 | 2.0 | * | 16-24 |
| 48 | K H - 404 | 100.0 | 100.0 | 34.8 | 2.0 | 1.5 | 4.6 | 4.3 | 3.4 | 26.2 | 0.0 | 3.5 | 2.0 | 30-36 |
| 49 | MAIZE POLO | 83.5 | 77.7 | 24.0 | 2.0 | 1.0 | 4.3 | 4.4 | 3.8 | 20.8 | 5.5 | 4.3 | 1.2 | 21-27 |
| 50 | C. - 1950 | 25.9 | 92.7 | 0.0 | 2.0 | 1.3 | 4.9 | 4.6 | 4.6 | 22.1 | 0.0 | 4.0 | 3.3 | 47-56 |
| 51 | C. - 1945 | 10.3 | 42.1 | 0.0 | 3.0 | 1.5 | 4.4 | 5.8 | 3.8 | 2.4 | 7.1 | 3.5 | 2.6 | 30-37 |
| 52 | K F - 105 | 95.0 | 100.0 | 62.5 | 2.0 | 1.5 | 5.0 | 4.3 | 6.4 | 4.1 | 0.0 | 4.5 | 3.3 | 25-32 |
| CHECKS: | | | | | | | | | | | | | | |
| 53 | BIO - 9681 (C) | 95.0 | 100.0 | 52.2 | 2.0 | 1.3 | 5.8 | 4.2 | 5.1 | 8.7 | 6.6 | 3.8 | 2.3 | 34-45 |
| 54 | SEEDTEC - 2324 (C) | 85.9 | 100.0 | 16.7 | 2.8 | 1.3 | 3.4 | 4.2 | 2.9 | 7.3 | 0.0 | 3.0 | 1.3 | 19-26 |
| 55 | HQPM - 1 (C) | 100.0 | 100.0 | 92.0 | 2.0 | 1.8 | 3.5 | 5.4 | 2.7 | 16.6 | 0.0 | 4.5 | 2.4 | 35-42 |
| 56 | HQPM -7 (C) | 100.0 | 100.0 | 88.0 | 2.0 | 1.0 | 6.3 | 6.5 | 3.3 | 6.3 | 0.0 | 2.8 | 1.3 | 52-61 |
| | (Check) | - | - | - | - | - | - | 7.2 | - | - | - | - | 3.5 | 38-47 |
| | Local W | - | - | 19.0 | - | - | 5.9 | - | 4.4 | - | - | - | - | - |
| | R.C | 11.2 | 9.5 | - | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 4.5 | - | - |
| | Surya | | | 56.0 | - | - | - | - | - | - | - | - | - | - |

* seed were not recived

range of cyst/ plant

Table: 2

Trial 62 : Evaluation of Maize Genotypes (IET medium maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | |
|------|------------------------|--------------|-----|-------|-----|--------------|-----|-----|------|---------------|------|
| | | BAJ | DEL | Dholi | LUD | BAJ | ARB | ALM | MAND | DEL | PANT |
| 1 | P L M - 21 | 2.5 | 2.5 | 3.2 | 2.7 | 4.0 | 3.2 | 1.5 | 4.0 | 3.5 | 2.3 |
| 2 | L - 183 | 2.5 | 2.0 | 3.5 | 3.0 | 3.0 | 3.0 | 2.0 | 4.5 | 4.0 | 3.5 |
| 3 | E H L - 162308 | 2.0 | 2.0 | 2.5 | 2.0 | 2.5 | 2.9 | 1.8 | 3.5 | 4.0 | 3.0 |
| 4 | PMSY - 3 | 2.5 | 2.0 | 3.5 | 2.7 | 3.5 | 3.0 | 1.8 | 3.5 | 4.0 | 2.8 |
| 5 | PMSW - 4 | 2.5 | 2.5 | 2.5 | 2.2 | 2.5 | 3.5 | 1.8 | 4.0 | 3.5 | 3.5 |
| 6 | PMSQ - 5 | 2.0 | 2.5 | 3.0 | 3.5 | 2.5 | 3.3 | 1.5 | 3.8 | 3.5 | 2.5 |
| 7 | H K H - 308 | 2.0 | 2.0 | 3.0 | 2.5 | 2.5 | 3.0 | 1.5 | 3.0 | 3.5 | 3.8 |
| 8 | H K H - 309 | 2.5 | 2.5 | 3.0 | 3.2 | 3.0 | 3.0 | 1.5 | 2.8 | 3.5 | 2.3 |
| 9 | H K H - 310 | 2.0 | 2.0 | 3.2 | 3.2 | 3.5 | 2.6 | 1.8 | 3.3 | 3.5 | 3.3 |
| 10 | MALVIYA MAKKA - 2 | 2.0 | 2.0 | 2.5 | 2.5 | 4.5 | 3.1 | 2.0 | 4.5 | 3.5 | 3.0 |
| 11 | H K H - 311 | 2.0 | 2.0 | 2.5 | 3.0 | 3.5 | 2.6 | 2.8 | 3.0 | 3.5 | 3.3 |
| 12 | H K H - 312 | 2.5 | 2.5 | 2.0 | 3.0 | 3.5 | 2.6 | 2.0 | 3.5 | 3.5 | 2.5 |
| 13 | H K H - 313 | 2.0 | 2.0 | 2.5 | 2.7 | 4.0 | 3.8 | 1.8 | 4.5 | 3.5 | 3.5 |
| 14 | E H - 1974 | 2.0 | 2.0 | 2.5 | 3.0 | 3.5 | 3.8 | 1.5 | 4.5 | 3.5 | 3.0 |
| 15 | E H - 1986 | 2.0 | 2.0 | 3.0 | 2.5 | 3.5 | 3.3 | 1.5 | 2.8 | 4.0 | 4.0 |
| 16 | E H - 2025 | 2.0 | 2.5 | 3.0 | 2.0 | 4.5 | 3.6 | 2.0 | 3.5 | 3.0 | 2.3 |
| 17 | VEH - 09-1 | 2.0 | 2.5 | 3.0 | 1.7 | 3.5 | 3.4 | 2.0 | 4.5 | 4.5 | 3.5 |
| 18 | VEH - 09-2 | 2.0 | 2.0 | 1.8 | 2.5 | 3.5 | 3.2 | 2.3 | 3.5 | 3.0 | 2.3 |
| 19 | REH - 2101 | 2.5 | 2.0 | 2.5 | 2.0 | 3.0 | 3.7 | 2.8 | 4.5 | 3.5 | 3.0 |
| 20 | REH - 2102 | 2.0 | 2.0 | 3.0 | 2.2 | 2.5 | 3.4 | 2.8 | 3.3 | 3.5 | 2.5 |
| 21 | REH - 2103 | 1.5 | 1.5 | 3.0 | 2.7 | 3.0 | 3.0 | 1.8 | 3.3 | 3.5 | 2.3 |
| 22 | J H - 31314 | 2.5 | 2.0 | 3.0 | 2.2 | 4.0 | 3.9 | 3.0 | 4.8 | 3.0 | 3.3 |
| 23 | J H - 31285 | 2.5 | 2.0 | 2.0 | 2.0 | 3.5 | 3.0 | 1.8 | 3.3 | 3.5 | 2.5 |
| 24 | J H - 31336 | 2.5 | 1.5 | 2.0 | 1.7 | 4.0 | 3.2 | 2.3 | 4.8 | 3.5 | 3.0 |
| 25 | J H - 31292 | 2.5 | 1.5 | 2.5 | 2.0 | 4.0 | 3.9 | 2.8 | 2.8 | 3.5 | 2.3 |
| 26 | J H - 31288 | 2.5 | 1.5 | 2.0 | 1.7 | 4.0 | 3.2 | 3.0 | 4.5 | 4.0 | 3.5 |
| 27 | A H - 97001 | 2.0 | 2.0 | 3.0 | 2.2 | 3.5 | 3.1 | 3.0 | 4.5 | 4.0 | 2.8 |
| 28 | H K I 1105 X HKI 163-1 | 2.0 | 2.5 | 2.5 | 2.7 | 3.5 | 3.5 | 1.8 | 3.0 | 4.0 | 3.3 |
| 29 | BML 7 X HKI 163-1 | 1.5 | 2.0 | 2.2 | 2.0 | 1.5 | 3.0 | 1.5 | 2.8 | 3.0 | 3.0 |
| 30 | HKI 1128 X HKI 163-1 | 1.5 | 1.5 | 3.0 | 1.7 | 2.0 | 2.3 | 1.5 | 3.5 | - | 2.5 |

Table: 2

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | |
|-----------------|----------------|--------------|-----|-------|-----|--------------|-----|-----|------|---------------|------|
| | | BAJ | DEL | Dholi | LUD | BAJ | ARB | ALM | MAND | DEL | PANT |
| 31 | KMH - 218 | 2.0 | 2.0 | 3.0 | 2.0 | 3.0 | 3.3 | 1.8 | 3.3 | 4.0 | 2.5 |
| 32 | KMH - 3426 | 2.0 | 1.5 | 2.5 | 2.2 | 3.5 | 3.6 | 1.8 | 3.8 | 3.5 | 3.3 |
| 33 | LAXMI 306 | 2.0 | 2.0 | 2.5 | 2.5 | 3.5 | 3.1 | 1.5 | 4.5 | 4.0 | 4.0 |
| 34 | MUKHYA - 108 | 2.0 | 2.0 | 3.5 | 3.0 | 3.5 | 3.1 | 1.5 | 4.5 | 3.5 | 3.5 |
| 35 | SARPUNCH - 171 | 1.5 | 2.0 | 3.5 | 2.2 | 3.5 | 2.5 | 1.8 | 3.5 | 3.0 | 3.3 |
| 36 | KDMH - 017 | 2.0 | 2.0 | 3.0 | 1.7 | 3.5 | 3.5 | 1.8 | 2.0 | 3.0 | 3.3 |
| 37 | N M H - 803 | 2.0 | 1.5 | 2.5 | 2.7 | 4.5 | 3.7 | 2.8 | 4.5 | 3.5 | 4.3 |
| 38 | X 8 B 557 | 2.0 | 1.5 | 1.5 | 2.2 | 3.5 | 3.0 | 2.8 | 4.3 | 3.5 | 2.3 |
| 39 | X 8 B 6 91 | 1.0 | 1.5 | 2.5 | 1.7 | 2.0 | 3.0 | 1.5 | 2.0 | 3.5 | 2.5 |
| 40 | M C H - 41 | 1.0 | 2.0 | 2.0 | 1.5 | 2.0 | 3.1 | 1.3 | 3.5 | 2.5 | 2.3 |
| 41 | M C H - 42 | 1.5 | 2.0 | 3.0 | 2.0 | 2.0 | 3.3 | 1.8 | 3.5 | 3.0 | 2.0 |
| CHECKS : | | | | | | | | | | | |
| 42 | NAVJOT | 2.5 | 2.0 | 3.0 | 2.5 | 2.0 | 3.8 | 2.8 | 3.8 | 3.5 | 3.3 |
| 43 | BIO - 9637 | 2.0 | 2.5 | 2.8 | 3.0 | 2.5 | 3.2 | 1.5 | 4.3 | 2.5 | 2.3 |
| 44 | H M - 9 | 2.0 | 2.0 | 2.5 | 2.2 | 3.0 | 3.4 | 1.5 | 2.8 | 3.5 | 2.5 |
| 45 | R.C | - | - | - | - | - | - | - | 1.8 | - | - |
| 46 | S.C | - | - | - | - | - | 5.0 | 2.8 | 5.0 | - | - |
| 47 | Local Check | - | - | 4.5 | 2.2 | - | - | - | - | - | - |

Table : 2

| S.NO | Pedigree | SDM | DM | RDM | BSDM | | PFSR | | | ESR | | P.RUST | C.RUST | CYST Nema [#] |
|------|------------------------|-------|-------|------|-------|------|-------|-----|-----|------|------|--------|--------|------------------------|
| | | (%) | (%) | (%) | (1-5) | PANT | (1-9) | HYD | UDP | (%) | PANT | (1-5) | (1-5) | UDP |
| | | MAND | COIM | UDP | DHAU | | LUD | | | DHAU | | MAND | ARB | |
| 1 | P L M - 21 | 82.5 | 95.7 | 36.8 | 2.0 | 1.8 | 6.2 | 4.9 | 3.3 | 7.4 | 24.3 | 4.5 | 2.9 | 11--18 |
| 2 | L - 183 | 100.0 | 89.1 | 17.4 | 3.0 | 1.5 | 4.1 | 6.2 | 5.4 | 3.2 | 6.1 | 3.8 | 2.5 | 16-24 |
| 3 | E H L - 162308 | 100.0 | 100.0 | 70.8 | 2.0 | 2.0 | 7.8 | 6.3 | 3.5 | 6.3 | 10.0 | 4.5 | 3.4 | 20-28 |
| 4 | PMSY - 3 | 100.0 | 100.0 | 60.9 | 2.0 | 1.8 | 5.1 | 5.0 | 6.0 | 13.4 | 34.3 | 4.5 | 2.9 | 25-33 |
| 5 | PMSW - 4 | 100.0 | 100.0 | 78.9 | 1.0 | 1.8 | 6.0 | 6.0 | 4.2 | 2.2 | 16.7 | 4.3 | 3.6 | 30-38 |
| 6 | PMSQ - 5 | 100.0 | 100.0 | 90.5 | 1.0 | 1.5 | 5.6 | 6.1 | 4.7 | 10.3 | 27.2 | 3.5 | 2.0 | 23-29 |
| 7 | H K H - 308 | 100.0 | 100.0 | 37.5 | 1.0 | 2.3 | 7.8 | 6.0 | 3.3 | 7.9 | 0.0 | 4.3 | 2.5 | 13-17 |
| 8 | H K H - 309 | 100.0 | 100.0 | 86.4 | 2.0 | 1.5 | 3.5 | 5.2 | 3.2 | 9.1 | 33.9 | 4.0 | 2.9 | 4--9 |
| 9 | H K H - 310 | 100.0 | 97.8 | 55.0 | 3.0 | 2.5 | 6.0 | 5.9 | 1.8 | 8.3 | 0.0 | 4.5 | 3.9 | 30-40 |
| 10 | MALVIYA MAKKA - 2 | 100.0 | 100.0 | 78.3 | 2.0 | 1.5 | 6.2 | 6.2 | 3.2 | 2.4 | 15.0 | 4.8 | 3.2 | 45-52 |
| 11 | H K H - 311 | 100.0 | 100.0 | 43.5 | 2.0 | 1.5 | 5.4 | 4.8 | 2.7 | 2.4 | 8.8 | 4.5 | 3.7 | 10--14 |
| 12 | H K H - 312 | 100.0 | 100.0 | 36.0 | 2.0 | 1.8 | 5.7 | 6.4 | 4.2 | 28.0 | 0.0 | 5.0 | 3.6 | 3--8 |
| 13 | H K H - 313 | 100.0 | 100.0 | 83.3 | 2.0 | 2.0 | 5.5 | 5.7 | 8.1 | 25.3 | 19.6 | 2.8 | 1.4 | 51-56 |
| 14 | E H - 1974 | 100.0 | 100.0 | 34.8 | 2.0 | 2.3 | 6.4 | 6.0 | 2.9 | 19.1 | 10.9 | 4.8 | 2.5 | 17-22 |
| 15 | E H - 1986 | 100.0 | 100.0 | 25.0 | 2.0 | 1.8 | 6.6 | 6.2 | 3.1 | 42.8 | 4.2 | 4.5 | 2.2 | 23-26 |
| 16 | E H - 2025 | 100.0 | 100.0 | 72.0 | 2.0 | 1.5 | 4.8 | 5.7 | 3.6 | 12.2 | 14.5 | 3.8 | 3.3 | 12--16 |
| 17 | VEH - 09-1 | 100.0 | 97.8 | 42.8 | 3.0 | 2.0 | 6.5 | 5.7 | 2.9 | 18.6 | 0.0 | 4.5 | 2.1 | 11--18 |
| 18 | VEH - 09-2 | 100.0 | 95.0 | 20.8 | 2.0 | 1.8 | 2.6 | 5.4 | 3.3 | 2.6 | 0.0 | 2.8 | 1.7 | 25-32 |
| 19 | REH - 2101 | 94.0 | 95.1 | 22.7 | 1.0 | 2.5 | 5.1 | 5.4 | 3.9 | 25.0 | 15.5 | 4.5 | 3.1 | 10--15 |
| 20 | REH - 2102 | 100.0 | 92.5 | 36.4 | 1.0 | 1.5 | 3.7 | 5.3 | 4.0 | 6.8 | 7.1 | 4.0 | 2.4 | 12--18 |
| 21 | REH - 2103 | 100.0 | 85.4 | 63.6 | 1.0 | 1.3 | 4.9 | 5.7 | 4.8 | 24.7 | 7.9 | 2.8 | 1.9 | 10--14 |
| 22 | J H - 31314 | 100.0 | 100.0 | 68.0 | 1.0 | 1.8 | 4.9 | 5.6 | 4.6 | 4.8 | 0.0 | 3.8 | 1.5 | 32-37 |
| 23 | J H - 31285 | 100.0 | 97.8 | 37.5 | 1.0 | 1.5 | 3.5 | 6.1 | 2.5 | 3.8 | 8.3 | 4.0 | 3.4 | 27- 34 |
| 24 | J H - 31336 | 100.0 | 95.0 | 76.0 | 2.0 | 1.5 | 4.5 | 5.7 | 8.0 | 8.1 | 4.5 | 3.5 | 1.5 | 22-27 |
| 25 | J H - 31292 | 100.0 | 97.8 | 47.8 | 2.0 | 1.5 | 3.3 | 5.9 | 4.3 | 28.5 | 0.0 | 2.8 | 1.3 | 4--8 |
| 26 | J H - 31288 | 100.0 | 100.0 | 57.1 | 2.5 | 1.3 | 3.4 | 5.7 | 2.9 | 30.8 | 0.0 | 4.8 | 3.3 | 23-26 |
| 27 | A H - 97001 | 100.0 | 100.0 | 58.3 | 2.0 | 1.8 | 5.5 | 6.0 | 5.1 | 37.3 | 11.6 | 4.5 | 2.7 | 22-30 |
| 28 | H K I 1105 X HKI 163-1 | 100.0 | 100.0 | 72.0 | 1.0 | 1.3 | 6.6 | 4.7 | 3.3 | 22.0 | 34.3 | 3.8 | 2.4 | 18-23 |
| 29 | BML 7 X HKI 163-1 | 100.0 | 100.0 | 66.7 | 1.0 | 1.0 | 3.5 | 6.3 | 3.3 | 9.1 | 10.0 | 2.8 | 1.9 | 20-25 |
| 30 | HKI 1128 X HKI 163-1 | 100.0 | 100.0 | 84.0 | 1.0 | 1.5 | 3.9 | 6.2 | 6.3 | 1.2 | 15.9 | 3.0 | 1.4 | 11--16 |

range of cyst/ plant

Table : 2

| S.NO | Pedigree | SDM | DM | RDM | BSDM | | PFSR | | | ESR | | P.RUST | C.RUST | CYST Nema# |
|------|-------------------------------|-------|-------|------|-------|------|-------|-----|-----|------|------|--------|--------|------------|
| | | (%) | (%) | (%) | (1-5) | PANT | (1-9) | HYD | UDP | (%) | PANT | (1-5) | (1-5) | UDP |
| | | MAND | COIM | UDP | DHAU | | LUD | | | DHAU | | MAND | ARB | |
| 31 | KMH - 218 | 100.0 | 100.0 | 43.5 | 2.0 | 1.5 | 3.8 | 5.9 | 4.4 | 4.5 | 12.5 | 3.5 | 1.0 | 23-28 |
| 32 | KMH - 3426 | 100.0 | 97.8 | 88.9 | 1.5 | 1.3 | 4.4 | 5.7 | 3.3 | 4.3 | 5.0 | 2.8 | 1.7 | 38-45 |
| 33 | LAXMI 306 | 100.0 | 100.0 | 39.1 | 2.0 | 2.3 | 4.7 | 5.8 | 5.5 | 18.3 | 11.1 | 2.8 | 2.2 | 35-42 |
| 34 | MUKHYA - 108 | 100.0 | 100.0 | 84.0 | 1.5 | 1.5 | 3.9 | 5.1 | 7.5 | 0.0 | 4.5 | 3.5 | 2.4 | 30-38 |
| 35 | SARPUNCH - 171 | 100.0 | 85.4 | 24.0 | 1.5 | 1.5 | 4.4 | 5.3 | 4.4 | 21.9 | 14.3 | 2.5 | 1.3 | 32-40 |
| 36 | KDMH - 017 | 82.0 | 100.0 | 33.3 | 1.0 | 1.8 | 3.2 | 6.2 | 2.7 | 1.8 | 4.5 | 2.0 | 1.3 | 44-53 |
| 37 | N M H - 803 | 100.0 | 100.0 | 92.0 | 2.0 | 1.8 | 7.1 | 5.8 | 5.7 | 5.4 | 18.8 | 4.5 | 3.9 | 35-43 |
| 38 | X 8 B 557 | 100.0 | 100.0 | 50.0 | 2.5 | 1.0 | 4.1 | 6.4 | 2.7 | 3.0 | 0.0 | 2.5 | 1.1 | 15-22 |
| 39 | X 8 B 6 91 | 100.0 | 100.0 | 20.0 | 2.0 | 1.5 | 4.4 | 6.2 | 3.0 | 0.0 | 5.0 | 2.0 | 1.8 | 27-34 |
| 40 | M C H - 41 | 23.6 | 51.9 | 0.0 | 2.0 | 1.3 | 3.8 | 6.0 | 2.9 | 4.4 | 13.3 | 3.8 | 2.0 | 50-57 |
| 41 | M C H - 42 | 74.6 | 76.5 | 9.9 | 2.5 | 1.5 | 3.8 | 6.0 | 5.3 | 16.0 | 10.8 | 3.5 | 2.2 | 43-51 |
| 42 | M C H - 42 | 92.5 | - | 95.8 | 2.0 | 1.8 | 6.0 | - | 4.3 | 3.6 | 18.6 | - | 3.5 | 10--16 |
| | CHECKS : | | | | | | | | | | | | | |
| 43 | NAVJOT | 96.4 | 100.0 | 28.0 | 1.0 | 1.5 | 4.6 | 6.2 | 4.2 | 17.3 | 25.8 | 5.0 | 3.4 | 15-19 |
| 44 | BIO - 9637 | 100.0 | 100.0 | 58.3 | 1.0 | 1.5 | 6.3 | 5.6 | 3.9 | 12.8 | 7.1 | 4.8 | 2.6 | 24-31 |
| 45 | H M - 9 | - | - | - | - | - | - | 5.9 | - | - | - | 3.0 | - | - |
| | Local Check | - | - | 24.0 | - | - | 6.5 | 7.2 | 4.4 | - | - | - | - | - |
| | R.C | 16.7 | 4.9 | - | - | - | - | - | - | - | - | 1.5 | - | - |
| | S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 4.8 | 3.4 | - |
| | Surya | - | - | 56.5 | - | - | - | - | - | - | - | - | - | - |
| | PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 40-46 |
| | # range of cyst/ plant | | | | | | | | | | | | | |

Table : 3

Trial 63 : Evaluation of Maize Genotypes (IET early maturity) against various diseases of maizeduring Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | |
|------|----------------|--------------|-----|-------|-----|--------------|-----|-----|------|---------------|------|
| | | BAJ | DEL | Dholi | LUD | BAJ | ARB | ALM | MAND | DEL | PANT |
| 1 | EHL - 162408 | 2.0 | 2.0 | 2.5 | 2.5 | 3.5 | 2.6 | 2.3 | 4.5 | 4.0 | 2.5 |
| 2 | EHL - 162508 | 1.0 | 1.5 | 2.0 | 2.0 | 1.5 | 3.3 | 1.8 | 3.5 | 2.5 | 2.3 |
| 3 | F H - 3506 | 2.0 | 1.5 | 2.0 | 2.5 | 2.5 | 2.7 | 1.5 | 3.5 | 4.0 | 2.8 |
| 4 | E H - 2005 | 1.5 | 2.5 | 2.8 | 2.5 | 1.5 | 2.9 | 1.8 | 4.5 | 4.0 | 3.0 |
| 5 | E H - 1992 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 1.8 | 4.5 | 4.0 | 3.0 |
| 6 | E H - 1971 | 2.0 | 2.0 | 3.0 | 2.7 | 3.5 | 3.3 | 2.3 | 4.5 | 3.0 | 2.3 |
| 7 | KDM - 399 | 2.0 | 2.0 | 3.0 | 2.2 | 3.5 | 2.7 | 2.3 | 4.3 | 4.0 | 3.0 |
| 8 | REH - 2001 | 2.0 | 2.0 | 2.5 | 2.5 | 4.0 | 3.3 | 1.8 | 4.0 | 4.0 | 2.0 |
| 9 | REH - 2002 | 2.0 | 2.5 | 3.0 | 2.2 | 3.0 | 3.2 | 2.0 | 4.5 | 4.0 | 2.3 |
| 10 | REH - 2003 | 2.5 | 2.0 | 2.5 | 3.0 | 2.0 | 2.3 | 1.5 | 3.5 | 3.5 | 2.8 |
| 11 | J H - 31236 | 2.0 | 1.5 | 3.0 | 2.5 | 4.5 | 2.8 | 2.8 | 4.5 | 4.0 | 2.8 |
| 12 | J H - 31308 | 2.0 | 2.0 | 2.2 | 2.2 | 4.5 | 2.7 | 2.8 | 4.5 | 4.0 | 3.0 |
| 13 | AH - 97002 | 2.0 | 2.0 | 2.2 | 2.2 | 4.5 | 3.1 | 1.8 | 3.5 | 3.5 | 3.0 |
| 14 | A H - 97017 | 2.0 | 2.0 | 2.8 | 2.5 | 3.5 | 3.5 | 1.5 | 4.5 | 5.0 | 4.0 |
| 15 | A H - 97018 | 2.5 | 2.0 | 2.8 | 2.5 | 3.5 | 3.7 | 1.5 | 3.5 | 3.5 | 3.3 |
| 16 | BIO - 605 | 2.0 | 2.5 | 1.5 | 2.0 | 2.5 | 3.5 | 1.3 | 3.5 | 3.0 | 2.5 |
| 17 | K H - 9560 | 2.5 | 2.0 | 2.5 | 3.0 | 2.5 | 3.5 | 1.5 | 4.5 | 4.5 | 2.8 |
| | CHECKS: | | | | | | | | | | |
| 18 | PARKASH | 2.0 | 2.0 | 2.0 | 2.7 | 4.5 | 2.8 | 2.5 | 4.5 | 3.5 | 3.0 |
| | Local Check | - | - | 4.5 | 2.5 | - | - | - | - | - | - |
| | R.C | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | - | - | - | - | 5.0 | 5.0 | 3.0 | 5.0 | - | - |

TABLE : 3

| S.NO | Pedigree | SDM | DM | RDM | BSDM | PFSR | | | ESR | | P.RUST | C.RUST | CYST Nema# | |
|-------------------------------|----------------|-------|-------|------|-------|------|-----|-----|------|-------|--------|--------|------------|--------|
| | | (%) | (%) | (%) | (1-5) | LUD | HYD | UDP | (%) | (1-5) | (1-5) | (1-5) | UDP | |
| | | MAND | COIM | UDP | DHAU | PANT | | | DHAU | PANT | MAND | ARB | UDP | |
| 1 | EHL - 162408 | 100.0 | 100.0 | 95.0 | 2.0 | 1.5 | 3.8 | 4.5 | 8.1 | 33.3 | 0.0 | 4.5 | 1.3 | 38-43 |
| 2 | EHL - 162508 | 100.0 | 100.0 | 95.4 | 2.0 | 1.8 | 6.3 | 5.1 | 5.8 | 17.0 | 0.0 | 4.5 | 1.3 | 40-47 |
| 3 | F H - 3506 | 78.0 | 69.9 | 0.00 | 2.0 | 1.3 | 7.4 | 5.5 | 2.2 | 5.0 | 0.0 | 4.3 | 1.9 | 20-26 |
| 4 | E H - 2005 | 100.0 | 100.0 | 72.0 | 3.0 | 1.5 | 5.3 | 6.0 | 5.5 | 46.4 | 2.5 | 4.3 | 1.8 | 15-23 |
| 5 | E H - 1992 | 100.0 | 97.3 | 52.4 | 2.0 | 2.0 | 4.5 | 5.6 | 3.6 | 50.0 | 42.9 | 4.8 | 2.3 | 11--15 |
| 6 | E H - 1971 | 96.0 | 100.0 | 37.5 | 2.0 | 1.3 | 4.6 | 5.4 | 5.4 | 56.1 | 20.5 | 3.8 | 1.3 | 30-37 |
| 7 | KDM - 399 | 100.0 | 100.0 | 64.0 | 3.0 | 1.0 | 6.2 | 4.6 | 6.3 | 69.4 | 15.4 | 4.0 | 1.7 | 21-28 |
| 8 | REH - 2001 | 100.0 | 97.3 | 66.7 | 2.0 | 1.3 | 6.0 | 5.7 | 7.0 | 10.0 | 0.0 | 3.5 | 1.7 | 41-48 |
| 9 | REH - 2002 | 100.0 | 91.3 | 52.0 | 2.0 | 1.3 | 4.7 | 5.2 | 5.7 | 24.9 | 5.0 | 3.8 | 1.7 | 44-54 |
| 10 | REH - 2003 | 100.0 | 100.0 | 60.0 | 2.0 | 1.8 | 4.6 | 6.2 | 3.3 | 10.7 | 15.5 | 3.8 | 1.2 | 52-57 |
| 11 | J H - 31236 | 100.0 | 100.0 | 84.0 | 2.0 | 2.3 | 4.2 | 5.3 | 5.2 | 12.1 | 10.1 | 3.5 | 1.7 | 16-22 |
| 12 | J H - 31308 | 100.0 | 100.0 | 87.5 | 1.5 | 1.8 | 4.7 | 6.0 | 6.0 | 57.6 | 6.6 | 4.5 | 1.9 | 40-47 |
| 13 | AH - 97002 | 100.0 | 100.0 | 64.0 | 2.0 | 2.3 | 5.4 | 6.0 | 4.3 | 73.9 | 14.7 | 4.8 | 1.5 | 12--20 |
| 14 | A H - 97017 | 100.0 | 100.0 | 80.0 | 2.0 | 1.3 | 4.5 | 5.0 | 3.7 | 60.9 | 10.8 | 4.5 | 1.3 | 10--15 |
| 15 | A H - 97018 | 100.0 | 100.0 | 95.6 | 3.0 | 1.5 | 3.6 | 5.5 | 4.4 | 46.7 | 0.0 | 4.5 | 1.3 | 47-56 |
| 16 | BIO - 605 | 65.3 | 80.0 | 15.8 | 2.0 | 1.4 | 3.6 | 6.3 | 3.9 | 41.6 | 32.2 | 4.3 | 1.0 | 22-26 |
| 17 | K H - 9560 | 100.0 | 100.0 | 80.9 | 3.0 | 1.8 | 5.1 | 5.7 | 3.5 | 39.2 | 0.0 | 5.0 | 1.9 | 25-33 |
| CHECKS: | | | | | | | | | | | | | | |
| 18 | PARKASH | 100.0 | 100.0 | - | 2.0 | 1.8 | 5.6 | 5.6 | 5.2 | 60.2 | 13.3 | 3.5 | 1.8 | 44-53 |
| | Local Check | - | - | 87.5 | - | - | 5.5 | 7.2 | 3.4 | - | - | - | - | - |
| | R.C | 13.2 | 4.9 | - | - | - | - | - | - | - | - | 1.5 | - | - |
| | S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 5.0 | 2.3 | - |
| | Surya | - | - | 47.6 | - | - | - | - | - | - | - | - | - | - |
| | PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 39-45 |
| # range of cyst/ plant | | | | | | | | | | | | | | |

Table : 4

Trial 64 : Evaluation of Maize Genotypes (IET extra early maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | |
|----------------|------------------|--------------|-----|-------|-----|--------------|-----|-----|------|---------------|------|
| | | BAJ | DEL | Dholi | LUD | BAJ | ARB | ALM | MAND | DEL | PANT |
| 1 | F H - 3478 | 2.0 | 2.0 | 2.0 | 1.2 | 2.5 | 3.5 | 1.3 | 4.3 | 5.0 | 4.0 |
| 2 | F H - 3487 | 2.0 | 2.0 | 2.5 | 2.2 | 3.5 | 2.8 | 1.3 | 4.0 | 5.0 | 2.8 |
| 3 | F H - 3488 | 2.0 | 1.5 | 1.5 | 1.7 | 3.0 | 3.7 | 1.5 | 4.3 | 5.0 | 4.0 |
| 4 | F H - 3483 | 1.0 | 2.0 | 2.0 | 2.0 | 2.5 | 3.1 | 1.5 | 2.0 | 4.0 | 2.5 |
| 5 | F Q H - 76 | 2.5 | 2.0 | 3.5 | 3.0 | 2.5 | 3.3 | 1.3 | 3.8 | 3.5 | 3.8 |
| 6 | D H - 177 | 2.5 | 2.0 | 3.5 | 2.7 | 4.5 | 3.8 | 2.0 | 4.5 | 3.5 | 3.5 |
| 7 | D H - 179 | 2.0 | 2.5 | 3.2 | 2.7 | 4.0 | 2.7 | 1.8 | 4.5 | 5.0 | 3.5 |
| 8 | A H - 97020 | 2.5 | 2.0 | 2.8 | 1.7 | 3.5 | 3.3 | 1.8 | 4.5 | 3.5 | 2.5 |
| 9 | A H - 97024 | 2.0 | 2.0 | 3.0 | 3.0 | 4.5 | 3.4 | 1.8 | 4.3 | 4.0 | 2.8 |
| CHECKS: | | | | | | | | | | | |
| 10 | VIVEK QPM - 9 | 2.0 | 1.5 | 2.2 | 1.7 | 3.5 | 3.9 | 1.5 | 3.8 | 4.0 | 3.3 |
| 11 | VIVEK HYBRID - 9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 2.9 | 1.5 | 3.5 | 4.0 | 2.0 |
| | Local Check | - | - | 4.5 | 2.5 | - | - | - | - | - | - |
| | R.C | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | - | - | - | - | - | 5.0 | 2.8 | 4.8 | - | - |

Table : 4

| S.NO | Pedigree | SDM | DM | RDM | BSDM | PFSR | | | | ESR | P.RUST | C.RUST | CYST Nema [#] | |
|-------------------------------|------------------|-------|-------|------|-------|-------|-----|-----|-----|------|--------|--------|------------------------|--------|
| | | (%) | (%) | (%) | (1-5) | (1-9) | | | | (%) | (1-5) | (1-5) | | |
| | | MAND | COIM | UDP | DHAU | PANT | LUD | HYD | UDP | DHAU | PANT | MAND | ARB | UDP |
| 1 | F H - 3478 | 100.0 | 100.0 | 62.2 | 1.0 | 1.3 | 8.5 | 5.8 | 4.3 | 18.2 | 0.0 | 5.0 | 1.3 | 18-23 |
| 2 | F H - 3487 | 100.0 | 100.0 | 57.1 | 2.0 | 1.8 | 7.7 | 4.7 | 2.5 | 44.1 | 0.0 | 4.5 | 1.3 | 38-46 |
| 3 | F H - 3488 | 100.0 | 100.0 | 20.8 | 2.0 | 1.5 | 5.7 | 6.3 | 2.2 | 25.2 | 12.3 | 5.0 | 1.9 | 30-34 |
| 4 | F H - 3483 | 100.0 | 100.0 | 0.0 | 2.0 | 1.3 | 5.3 | 6.0 | 2.3 | 26.2 | 0.0 | 2.0 | 1.8 | 24-30 |
| 5 | F Q H - 76 | 100.0 | 100.0 | 65.0 | 1.0 | 3.5 | 5.0 | 4.1 | 6.8 | 60.4 | 4.4 | 4.3 | 1.8 | 60-70 |
| 6 | D H - 177 | 100.0 | 100.0 | 77.3 | 1.0 | 1.5 | 5.5 | 5.0 | 4.7 | 48.7 | 14.9 | 3.8 | 1.8 | 58-66 |
| 7 | D H - 179 | 100.0 | 100.0 | 69.6 | 2.0 | 1.8 | 6.3 | 6.0 | 6.0 | 61.3 | 29.1 | 4.3 | 1.7 | 25-32 |
| 8 | A H - 97020 | 100.0 | 100.0 | 77.3 | 2.5 | 1.3 | 4.5 | 4.6 | 2.8 | 41.9 | 11.5 | 4.3 | 1.3 | 9--15 |
| 9 | A H - 97024 | 100.0 | 100.0 | 88.0 | 2.0 | 1.8 | 5.0 | 5.3 | 3.4 | 38.6 | 0.0 | 4.0 | 2.4 | 11--18 |
| CHECKS: | | | | | | | | | | | | | | |
| 10 | VIVEK QPM - 9 | 100.0 | 100.0 | 78.3 | 3.5 | 1.3 | 5.5 | 6.2 | 7.5 | 26.4 | 0.0 | 4.8 | 2.1 | 60-72 |
| 11 | VIVEK HYBRID - 9 | 100.0 | 100.0 | 47.6 | 2.0 | 1.3 | 2.9 | 5.0 | 6.2 | 37.6 | 3.3 | 5.0 | 1.8 | 23-33 |
| | Local check | - | - | 50.0 | - | - | 3.5 | 7.2 | 3.5 | - | - | - | - | - |
| | R.C | 10.5 | 7.0 | - | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 5.0 | 2.2 | - |
| | Surya | - | - | 73.9 | - | - | - | - | - | - | - | - | - | - |
| | PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 40-47 |
| # range of cyst/ plant | | | | | | | | | | | | | | |

Table : 5

Trial 75 : Evaluation of Maize Genotypes (full season maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | | |
|---------------------|-----------------|--------------|-----|-------|-----|--------------|-----|-----|-----|---------------|-----|------|
| | | BAJ | DEL | Dholi | LUD | BAJ | ARB | BAP | ALM | MAND | DEL | PANT |
| AET 1st YEAR | | | | | | | | | | | | |
| 1 | B H - 417135 | 1.0 | 1.5 | 2.5 | 2.0 | 0.5 | 1.9 | 2.3 | 1.5 | 2.0 | 3.0 | 3.5 |
| 2 | B H - 407138 | 0.5 | 1.5 | 3.5 | 2.5 | 3.5 | 3.3 | 2.8 | 1.8 | 3.8 | 3.0 | 3.3 |
| 3 | X 7B 401 | 1.0 | 1.5 | 2.0 | 2.7 | 3.5 | 3.7 | 2.8 | 1.8 | 3.3 | 3.5 | 3.3 |
| 4 | X 7B 403 | 2.0 | 1.5 | 2.5 | 1.7 | 2.0 | 3.3 | 2.5 | 1.8 | 3.5 | 2.0 | 3.0 |
| 5 | LAXMI - 9495 | 1.5 | 1.5 | 3.0 | 2.0 | 1.5 | 2.5 | 2.3 | 1.5 | 2.0 | 3.0 | 2.0 |
| 6 | G K - 3059 | 0.5 | 1.5 | 2.5 | 1.7 | 1.5 | 2.9 | 2.0 | 1.5 | 2.0 | 2.0 | 2.3 |
| 7 | PAC - 745 | 0.5 | 2.0 | 3.0 | 2.0 | 1.0 | 2.7 | 2.0 | 1.5 | 2.8 | 2.5 | 3.0 |
| 8 | M 05 008 | 2.0 | 2.0 | 4.0 | 3.0 | 2.5 | 3.3 | 2.8 | 1.5 | 3.8 | 3.0 | 2.8 |
| 9 | PHS - 520247 | 1.0 | 2.5 | 3.0 | 3.0 | 3.0 | 3.6 | 3.5 | 1.8 | 4.3 | 3.0 | 2.0 |
| 10 | PFMH - 9737 | 1.5 | 1.5 | 3.0 | 2.7 | 2.5 | 3.3 | 2.8 | 1.3 | 3.5 | 3.0 | 2.5 |
| 11 | SMH - 4502 | 0.5 | 2.0 | 3.5 | 2.5 | 2.0 | 3.5 | 2.8 | 1.5 | 3.5 | 3.0 | 2.3 |
| 12 | JKMH - 8003 | 0.5 | 2.0 | 4.0 | 2.7 | 1.0 | 3.5 | 3.5 | 1.5 | 3.0 | 3.0 | 3.8 |
| 13 | BISCO - 4564 | 2.0 | 1.5 | 3.5 | 1.7 | 3.0 | 3.8 | 3.5 | 1.8 | 3.5 | 3.5 | 3.5 |
| 14 | KMH - 3669 | 1.0 | 1.5 | 2.5 | 2.0 | 0.5 | 3.4 | 2.3 | 1.0 | 2.0 | 2.5 | 2.5 |
| 15 | KMH SUPER - 244 | 0.5 | 1.5 | 3.0 | 2.0 | 0.5 | 2.5 | 1.8 | 1.5 | 3.3 | 3.5 | 3.0 |
| 16 | B L - 2801 | 0.5 | 2.0 | 2.5 | 1.2 | 0.5 | 3.5 | 2.0 | 1.5 | 2.5 | 2.5 | 2.8 |
| 17 | HTCH - 5401 | 1.0 | 1.5 | 2.5 | 1.5 | 2.0 | 3.5 | 2.3 | 1.5 | 3.5 | 2.5 | 2.3 |
| 18 | M C H - 38 | 0.5 | 1.5 | 2.0 | 2.0 | 1.0 | 3.8 | 2.3 | 1.5 | 3.8 | 2.5 | 2.3 |
| AET 2nd YEAR | | | | | | | | | | | | |
| 19 | X 6B 269 | - | 2.0 | 2.5 | 2.0 | 1.0 | 3.4 | 3.0 | 1.5 | 2.0 | 3.5 | 2.5 |
| 20 | MDMH - 101 | - | 1.5 | 2.0 | 2.2 | 1.5 | 3.6 | 2.8 | 1.5 | 3.8 | 2.5 | 2.3 |
| 21 | MCH - 36 | 1.0 | 1.5 | 3.0 | 2.0 | 2.0 | 3.0 | 2.5 | 1.5 | 3.8 | 3.0 | 2.8 |
| CHECKS: | | | | | | | | | | | | |
| 22 | BIO - 9681 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 | 2.7 | 2.8 | 1.5 | 3.8 | 4.0 | 4.0 |
| 23 | SEEDTEC - 2324 | 1.5 | 2.0 | 4.0 | 3.0 | 2.0 | 2.7 | 3.0 | 1.3 | 3.3 | 3.0 | 2.3 |
| 24 | HQPM - 1 | 1.5 | 2.0 | 2.5 | 3.0 | 1.0 | 2.5 | 2.8 | 1.3 | 2.5 | 3.0 | 3.0 |
| 25 | HQPM - 7 | 1.5 | 2.0 | 2.8 | 3.0 | 1.0 | 2.8 | 2.8 | 1.0 | 2.0 | 3.5 | 2.8 |
| | Local Check | - | - | 4.5 | 2.2 | - | - | - | - | - | - | - |
| | R.C | - | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | - | - | - | - | - | 5.0 | - | 2.8 | 4.8 | - | - |

| Table : 5 | SDM (%) | DM (%) | RDM (%) | BSDM (1-5) | | PFSR (1-9) | | | ESR (%) | | P.RUST (1-5) | C.RUST (1-5) | CYST Nema# |
|---------------------|---------|--------|---------|------------|------|------------|-----|-----|---------|------|--------------|--------------|------------|
| S.NO Pedigree | MAND | COIM | UDP | DHAU | PANT | LUD | HYD | UDP | DHAU | PANT | MAND | ARB | UDP |
| AET 1st YEAR | | | | | | | | | | | | | |
| 1 B H - 417135 | 100.0 | 95.7 | 20.0 | 2.0 | 1.8 | 3.4 | 5.2 | 5.0 | 15.3 | 0.0 | 2.0 | 1.8 | 42-53 |
| 2 B H - 407138 | 100.0 | 97.3 | 95.2 | 2.0 | 1.8 | 3.3 | 5.6 | 3.5 | 13.2 | 0.0 | 4.3 | 2.3 | 30-37 |
| 3 X 7B 401 | 100.0 | 95.0 | 21.7 | 1.5 | 1.3 | 3.9 | 4.9 | 3.3 | 20.9 | 33.5 | 2.0 | 1.1 | 12--18 |
| 4 X 7B 403 | 100.0 | 100.0 | 47.8 | 1.0 | 1.0 | 4.9 | 4.5 | 4.1 | 19.5 | 0.0 | 2.5 | 1.3 | 21-26 |
| 5 LAXMI - 9495 | 96.0 | 90.0 | 22.7 | 1.0 | 1.0 | 5.1 | 5.9 | 3.3 | 27.5 | 0.0 | 2.0 | 1.8 | 15-22 |
| 6 G K - 3059 | 100.0 | 97.3 | 32.0 | 2.0 | 1.0 | 3.1 | 5.7 | 4.9 | 15.8 | 3.5 | 2.0 | 2.6 | 3--7 |
| 7 PAC - 745 | 68.0 | 70.7 | 0.0 | 2.5 | 1.3 | 3.7 | 5.7 | 1.9 | 33.1 | 3.1 | 3.5 | 2.4 | 14-20 |
| 8 M 05 008 | 98.0 | 89.7 | 36.0 | 1.0 | 1.5 | 2.7 | 4.5 | 2.3 | 22.6 | 0.0 | 2.8 | 1.3 | 12--17 |
| 9 PHS - 520247 | 90.3 | 100.0 | 38.5 | 1.5 | 1.0 | 5.3 | 5.2 | 4.5 | 25.0 | 2.8 | 3.5 | 1.3 | 4--9 |
| 10 PFMH - 9737 | 100.0 | 100.0 | 73.9 | 2.0 | 1.3 | 5.7 | 4.8 | 6.5 | 25.6 | 3.8 | 3.5 | 3.4 | 30-35 |
| 11 SMH - 4502 | 98.1 | 100.0 | 96.0 | 2.5 | 1.0 | 2.5 | 5.2 | 3.1 | 11.8 | 6.7 | 4.3 | 2.3 | 31-38 |
| 12 JKMH - 8003 | 100.0 | 100.0 | 4.0 | 1.0 | 1.5 | 6.1 | 5.3 | 3.3 | 38.8 | 8.3 | 3.5 | 2.0 | 34-43 |
| 13 BISCO - 4564 | 100.0 | 100.0 | 80.0 | 1.5 | 1.3 | 6.3 | 6.2 | 4.9 | 43.2 | 0.0 | 3.8 | 2.0 | 41-50 |
| 14 KMH - 3669 | 90.4 | 97.3 | 30.8 | 1.0 | 1.3 | 4.0 | 5.8 | 2.9 | 19.8 | 15.0 | 3.5 | 2.6 | 11--16 |
| 15 KMH SUPER - 244 | 98.2 | 100.0 | 32.0 | 1.0 | 1.3 | 3.2 | 3.6 | 3.8 | 7.5 | 0.0 | 2.8 | 1.2 | 26-32 |
| 16 B L - 2801 | 69.4 | 100.0 | 0.0 | 1.5 | 1.0 | 3.3 | 4.0 | 4.8 | 21.9 | 0.0 | 3.5 | 2.7 | 9--15 |
| 17 HTCH - 5401 | 31.8 | 100.0 | 8.0 | 1.0 | 1.3 | 3.8 | 5.3 | 4.8 | 46.0 | 0.0 | 4.0 | 2.4 | 24-28 |
| 18 M C H - 38 | 95.2 | 100.0 | 13.0 | 1.5 | 1.0 | 2.9 | 5.3 | 6.4 | 36.2 | 0.0 | 3.0 | 1.4 | 33-42 |
| AET 2nd YEAR | | | | | | | | | | | | | |
| 19 X 6B 269 | 85.8 | 84.2 | 15.0 | 2.0 | 1.5 | 4.8 | 4.9 | 2.8 | 32.6 | 0.0 | 2.0 | 2.5 | 8--13 |
| 20 MDMH - 101 | 92.5 | 100.0 | 8.0 | 3.0 | 1.0 | 4.6 | 4.5 | 2.8 | 44.6 | 2.6 | 3.5 | 3.3 | 9--15 |
| 21 MCH - 36 | 98.3 | 97.3 | 16.0 | 2.5 | 1.8 | 5.1 | 4.3 | 6.8 | 50.7 | 0.0 | 3.3 | 2.0 | 30-36 |
| CHECK: | | | | | | | | | | | | | |
| 22 BIO - 9681 | 96.2 | 97.5 | 37.5 | 2.5 | 1.5 | 4.2 | 4.3 | 2.1 | 19.6 | 2.0 | 3.8 | 1.9 | 10--14 |
| 23 SEEDTEC - 2324 | 92.9 | 92.5 | 36.0 | 2.5 | 1.0 | 4.1 | 5.6 | 3.9 | 30.2 | 0.0 | 3.5 | 1.7 | 12--19 |
| 24 HQPM - 1 | 100.0 | 100.0 | 83.3 | 2.0 | 1.3 | 3.2 | 5.9 | 3.3 | 44.2 | 3.1 | 4.5 | 3.3 | 21-27 |
| 25 HQPM - 7 | 100.0 | 100.0 | 52.0 | 2.0 | 1.0 | 4.1 | 5.4 | 5.4 | 36.1 | 0.0 | 2.0 | 2.3 | 31-38 |
| 26 Local Check | - | - | 50.0 | - | - | 5.7 | 7.2 | 3.9 | - | - | - | - | - |
| 27 R.C | 17.2 | 7.0 | - | - | - | - | - | - | - | - | 2.0 | - | - |
| 28 S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 5.0 | 3.5 | - |
| 29 Surya | - | - | 63.1 | - | - | - | - | - | - | - | - | - | - |
| 30 PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 39-45 |

range of cyst/ rust

Table : 6

Trial 76 : Evaluation of Maize Genotypes (medium maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | | PANT |
|---------------------|--------------------|--------------|-----|-------|-----|--------------|-----|-----|-----|---------------|-----|------|
| | | BAJ | DEL | Dholi | LUD | BAJ | ARB | BAP | ALM | MAND | DEL | |
| AET 1st YEAR | | | | | | | | | | | | |
| 1 | J H - 31240 | 1.5 | 1.5 | 2.0 | 2.2 | 3.5 | 3.5 | 3.3 | 1.8 | 4.0 | 3.5 | 4.0 |
| 2 | J H - 31242 | 1.0 | 1.5 | 2.5 | 2.5 | 2.5 | 3.1 | 3.0 | 2.0 | 3.5 | 3.0 | 2.5 |
| 3 | E H - 1858 | 1.5 | 1.5 | 2.8 | 3.0 | 3.0 | 3.3 | 3.5 | 3.3 | 4.3 | 3.0 | 3.3 |
| 4 | EH - 1877 | 2.0 | 2.5 | 2.0 | 2.2 | 3.5 | 3.4 | 3.8 | 3.3 | 4.5 | 3.0 | 3.3 |
| 5 | B H - 406126 | 2.5 | 1.5 | 3.0 | 3.2 | 3.5 | 3.2 | 2.3 | 2.3 | 4.5 | 3.5 | 3.3 |
| 6 | B H - 408005 | 2.0 | 1.5 | 1.5 | 2.5 | 3.0 | 3.6 | 2.5 | 2.8 | 2.8 | 2.0 | 2.5 |
| 7 | KLM - 766 | 2.0 | 2.5 | 3.0 | 3.0 | 2.5 | 3.5 | 2.8 | 1.5 | 3.8 | 3.5 | 3.3 |
| 8 | EC - 3160 | 2.0 | 2.0 | 3.0 | 3.2 | 2.5 | 3.4 | 2.5 | 1.5 | 3.8 | 3.5 | 4.0 |
| 9 | K H - 717 | 1.0 | 2.0 | 2.5 | 3.0 | 1.5 | 3.4 | 2.5 | 1.8 | 3.3 | 3.0 | 3.0 |
| 10 | K H - 9452 | 1.0 | 2.5 | 2.5 | 2.0 | 1.5 | 3.5 | 2.8 | 1.8 | 3.3 | 2.5 | 2.8 |
| 11 | HYBRID VMH - 4060 | 2.0 | 2.0 | 3.5 | 3.5 | 2.0 | 3.1 | 2.8 | 1.5 | 4.3 | 4.0 | 3.8 |
| 12 | KMH - 3712 | 2.5 | 1.5 | 1.5 | 2.0 | 4.0 | 3.3 | 3.5 | 1.5 | 4.3 | 3.5 | 3.3 |
| 13 | B L - 2802 | 1.5 | 1.5 | 2.5 | 2.5 | 2.0 | 3.3 | 3.3 | 1.8 | 4.3 | 3.0 | 2.8 |
| 14 | M C H - 37 | 2.0 | 1.5 | 1.5 | 1.7 | 2.5 | 3.3 | 2.5 | 1.8 | 3.3 | 2.0 | 3.0 |
| AET 2nd YEAR | | | | | | | | | | | | |
| 15 | J H - 31153 | 1.5 | 1.5 | 2.0 | 2.2 | 3.0 | 3.5 | 2.8 | 1.8 | 2.0 | 3.0 | 3.5 |
| 16 | B H - 4062(RETES.) | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.4 | 2.0 | 1.8 | 2.0 | 3.5 | 3.0 |
| 17 | C.P - 828 | 1.0 | 2.0 | 2.0 | 2.2 | 2.5 | 3.8 | 3.0 | 1.8 | 3.3 | 2.5 | 2.3 |
| 18 | KDMH - 1001 | 1.0 | 1.5 | 2.0 | 2.0 | 2.0 | 3.6 | 2.5 | 2.0 | 3.5 | 2.0 | 2.8 |
| 19 | BISCO - 111 | 1.0 | 2.0 | 2.5 | 2.2 | 0.5 | 3.1 | 2.0 | 2.5 | 3.5 | 2.0 | 3.8 |
| 20 | BISCO - 555 | 1.5 | 1.5 | 2.5 | 3.0 | 1.5 | 3.3 | 2.0 | 1.5 | 2.5 | 3.0 | 3.0 |
| 21 | BISCO - 855 | 1.5 | 2.0 | 2.2 | 2.5 | 2.5 | 3.4 | 2.0 | 2.0 | 3.3 | 3.5 | 3.3 |
| 22 | C P - 838 | 1.5 | 1.5 | 1.5 | 2.2 | 2.5 | 3.1 | 2.3 | 2.3 | 3.5 | 3.0 | 2.8 |
| 23 | KAVERI - 25K60 | 1.5 | 2.0 | 1.5 | 2.5 | 0.5 | 3.0 | 1.5 | 1.3 | 2.3 | 3.0 | 2.5 |
| CHECKS: | | | | | | | | | | | | |
| 24 | NAVJOT | 2.0 | 2.5 | 3.5 | 3.2 | 4.0 | 3.7 | 2.8 | 1.3 | 4.5 | 4.0 | 4.3 |
| 25 | HM - 8 | 2.0 | 1.5 | 2.2 | 3.2 | 2.5 | 3.4 | 1.8 | 1.3 | 2.0 | 2.5 | 3.0 |
| 26 | H M - 9 | 1.5 | 1.5 | 2.0 | 2.2 | 2.0 | 3.2 | 1.8 | 1.8 | 2.0 | 2.5 | 3.0 |
| 27 | H M - 10 | 2.0 | 1.5 | 2.0 | 3.0 | 1.0 | 3.2 | 1.8 | 1.3 | 2.8 | 3.0 | 2.5 |
| | Local check | - | - | 4.5 | 2.5 | - | - | - | - | - | - | - |
| | R.C | - | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | - | - | - | - | - | 5.0 | - | 3.8 | 4.5 | - | - |

| Table :6 | | SDM | DM | RDM | BSDM | PFSR | | | ESR | | P.RUST | C.RUST | CYST Nema# | |
|-------------------------------|--------------------|-------|-------|-------|-------|-------|-----|-----|-----|-------|--------|--------|------------|--------|
| | | (%) | (%) | (%) | (1-5) | (1-9) | | | (%) | (1-5) | (1-5) | | | |
| S.NO | Pedigree | MAND | COIM | UDP | DHAU | PANT | LUD | HYD | UDP | DHAU | PANT | MAND | ARB | UDP |
| AET 1st YEAR | | | | | | | | | | | | | | |
| 1 | J H - 31240 | 100.0 | 100.0 | 32.0 | 1.5 | 1.8 | 3.2 | 4.8 | 4.4 | 24.9 | 3.80 | 3.5 | 2.0 | 22-30 |
| 2 | J H - 31242 | 100.0 | 100.0 | 88.0 | 1.5 | 1.5 | 4.6 | 5.2 | 2.6 | 18.5 | 0.00 | 4.3 | 2.4 | 18-24 |
| 3 | E H - 1858 | 98.3 | 97.5 | 47.6 | 1.5 | 1.8 | 4.3 | 4.9 | 3.5 | 22.2 | 3.80 | 4.8 | 2.8 | 24-32 |
| 4 | EH - 1877 | 100.0 | 97.5 | 50.0 | 1.0 | 1.8 | 5.2 | 4.4 | 4.1 | 23.3 | 6.70 | 4.3 | 2.5 | 16-22 |
| 5 | B H - 406126 | 100.0 | 100.0 | 100.0 | 2.0 | 2.0 | 4.3 | 5.7 | 6.1 | 35.5 | 14.30 | 4.5 | 1.9 | 25-31 |
| 6 | B H - 408005 | 100.0 | 100.0 | 63.1 | 1.5 | 1.5 | 3.7 | 5.8 | 4.8 | 16.7 | 17.50 | 3.8 | 2.7 | 30-36 |
| 7 | KLM - 766 | 100.0 | 100.0 | 40.0 | 2.3 | 2.0 | 5.1 | 4.1 | 4.1 | 37.7 | 2.90 | 4.5 | 1.7 | 21-27 |
| 8 | EC - 3160 | 100.0 | 92.3 | 40.9 | 2.0 | 1.5 | 4.1 | 4.6 | 3.8 | 24.9 | 13.00 | 3.8 | 2.5 | 31-40 |
| 9 | K H - 717 | 98.0 | 100.0 | 43.5 | 2.5 | 2.0 | 3.2 | 5.0 | 2.5 | 10.7 | 4.50 | 4.5 | 2.0 | 27-35 |
| 10 | K H - 9452 | 97.9 | 84.6 | 13.0 | 3.0 | 1.5 | 4.9 | 5.1 | 5.9 | 22.9 | 3.30 | 2.8 | 3.5 | 13-18 |
| 11 | HYBRID VMH - 4060 | 100.0 | 100.0 | 54.2 | 3.0 | 1.8 | 4.4 | 5.5 | 5.2 | 38.0 | 0.00 | 3.5 | 2.4 | 11--16 |
| 12 | KMH - 3712 | 94.0 | 100.0 | 45.8 | 2.5 | 1.5 | 4.7 | 5.0 | 5.5 | 10.3 | 6.30 | 3.8 | 1.9 | 5--9 |
| 13 | B L - 2802 | 60.4 | 57.1 | 0.0 | 2.0 | 1.5 | 4.2 | 4.6 | 2.0 | 39.5 | 3.60 | 4.5 | 2.7 | 42-52 |
| 14 | M C H - 37 | 100.0 | 100.0 | 54.2 | 2.0 | 1.8 | 4.4 | 5.4 | 2.3 | 14.8 | 0.00 | 4.5 | 3.1 | 31-38 |
| AET 2nd YEAR | | | | | | | | | | | | | | |
| 15 | J H - 31153 | 100.0 | 100.0 | 88.0 | 2.5 | 1.5 | 4.8 | 4.7 | 4.2 | 26.9 | 0.00 | 2.0 | 2.0 | 12--20 |
| 16 | B H - 4062(RETES.) | 100.0 | 86.1 | 48.0 | 2.0 | 1.5 | 2.9 | 5.3 | 3.2 | 34.2 | 12.30 | 2.0 | 2.2 | 9--14 |
| 17 | C.P - 828 | 50.8 | 60.5 | 0.0 | 3.0 | 1.3 | 4.7 | 4.2 | 1.6 | 18.1 | 0.00 | 3.3 | 1.7 | 12--17 |
| 18 | KDMH - 1001 | 83.7 | 82.1 | 15.0 | 3.0 | 1.5 | 5.1 | 4.9 | 5.2 | 38.3 | 3.80 | 3.5 | 2.2 | 36-42 |
| 19 | BISCO - 111 | 98.1 | 100.0 | 40.0 | 2.5 | 1.5 | 3.9 | 4.9 | 3.7 | 22.6 | 12.10 | 3.5 | 2.6 | 17-24 |
| 20 | BISCO - 555 | 100.0 | 100.0 | 61.9 | 2.0 | 2.0 | 4.3 | 5.2 | 3.7 | 43.9 | 25.40 | 4.5 | 2.7 | 33-40 |
| 21 | BISCO - 855 | 100.0 | 100.0 | 58.3 | 3.0 | 1.5 | 5.4 | 5.3 | 2.6 | 28.1 | 3.60 | 4.5 | 4.1 | 3--7 |
| 22 | C P - 838 | 100.0 | 100.0 | 50.0 | 2.0 | 1.8 | 3.9 | 4.4 | 4.0 | 32.4 | 9.10 | 3.8 | 2.1 | 27-33 |
| 23 | KAVERI - 25K60 | 100.0 | 100.0 | 54.5 | 2.5 | 1.5 | 4.0 | 4.7 | 2.9 | 36.0 | 4.20 | 3.5 | 2.9 | 2--6 |
| CHECKS: | | | | | | | | | | | | | | |
| 24 | NAVJOT | 100.0 | 100.0 | 76.0 | 3.0 | 1.5 | 6.0 | 5.6 | 6.0 | 31.6 | 3.30 | 4.3 | 2.3 | 51-56 |
| 25 | HM - 8 | 100.0 | 100.0 | 72.7 | 2.5 | 1.5 | 5.5 | 4.3 | 3.2 | 39.1 | 8.30 | 2.0 | 1.8 | 41-46 |
| 26 | H M - 9 | 94.0 | 100.0 | 34.8 | 2.5 | 1.5 | 4.8 | 4.5 | 3.7 | 51.7 | 4.50 | 3.8 | 2.2 | 22-30 |
| 27 | H M - 10 | 77.2 | 100.0 | 48.0 | 3.0 | 1.8 | 2.8 | 4.2 | 6.6 | 29.9 | 5.50 | 4.0 | 3.3 | 28-35 |
| | Local check | - | - | 56.5 | - | - | 4.8 | 7.2 | 3.7 | - | - | - | - | - |
| | R.C | 15.7 | 5.6 | - | - | - | - | - | - | - | - | 2.0 | - | - |
| | S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 4.8 | 3.0 | - |
| | Surya | - | - | 64.0 | - | - | - | - | - | - | - | - | - | - |
| | PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 37-44 |
| # range of cyst/ plant | | | | | | | | | | | | | | |

Table : 7

Trial 77 : Evaluation of Maize Genotypes (early maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB | | | | | | TLB | | | | | | BLSB |
|---------------------|------------------|--------------|-----|-------|-----|--------------|-----|-----|-----|-----|------|--------------|------|------|
| | | (1-5) BAJ | DEL | Dholi | LUD | (1-5) RAN | BAJ | ARB | BAP | ALM | MAND | (1-5) DEL | PANT | |
| AET 1st YEAR | | | | | | | | | | | | | | |
| 1 | COMP. R - 2006-1 | 2.0 | 2.0 | 2.0 | 2.5 | 2.0 | 3.5 | 3.7 | 1.5 | 1.5 | 3.0 | 3.0 | 3.0 | |
| 2 | COMP. R- 2007-1 | 2.0 | 1.5 | 2.5 | 3.0 | 2.0 | 3.5 | 3.9 | 2.0 | 1.3 | 2.0 | 2.5 | 3.3 | |
| 3 | U M C - 10 | 2.5 | 2.5 | 2.5 | 2.2 | 2.5 | 3.0 | 3.5 | 2.5 | 1.3 | 4.5 | 3.0 | 3.8 | |
| 4 | U M C - 11 | 2.0 | 2.0 | 2.5 | 2.7 | 2.3 | 4.0 | 2.8 | 2.8 | 1.8 | 3.5 | 3.5 | 4.0 | |
| 5 | U M C - 12 | 2.0 | 3.0 | 3.0 | 2.5 | 3.0 | 4.5 | 3.8 | 3.0 | 2.0 | 3.8 | 3.5 | 3.8 | |
| 6 | KML - 9 | 1.5 | 1.5 | 3.0 | 2.0 | 2.3 | 3.0 | 3.0 | 2.5 | 2.3 | 2.0 | 3.5 | 2.5 | |
| 7 | K M L - 15 | 2.5 | 2.0 | 3.0 | 2.5 | 2.5 | 3.5 | 2.9 | 2.5 | 1.8 | 3.3 | 3.0 | 4.5 | |
| CHECKS: | | | | | | | | | | | | | | |
| 8 | PARKASH | 2.0 | 2.0 | 2.5 | 2.0 | 2.3 | 4.5 | 3.5 | 3.8 | 2.5 | 4.8 | 3.0 | 3.8 | |
| 9 | PRATAP MAKKA - 4 | 1.5 | 2.0 | 2.5 | 3.0 | 2.3 | 3.0 | 3.5 | 3.8 | 1.8 | 4.5 | 3.0 | 4.0 | |
| 10 | PRATAP MAKKA - 5 | 2.0 | 2.0 | 3.0 | 3.2 | 2.5 | 4.0 | 3.4 | 3.8 | 2.0 | 3.8 | 3.0 | 4.0 | |
| AET 2nd YEAR | | | | | | | | | | | | | | |
| 11 | J H - 31110 | 2.5 | 1.5 | 2.0 | 2.5 | 1.8 | 5.0 | 3.8 | 3.8 | 3.3 | 4.8 | 2.0 | 3.8 | |
| | Local check | - | - | 4.5 | 2.5 | 4.5 | - | - | - | - | - | - | - | |
| | R.C | - | - | - | - | - | - | - | - | - | 1.5 | - | - | |
| | S.C | - | - | - | - | - | - | 4.9 | - | 3.0 | 4.8 | - | - | |
| | BM-1 | - | - | - | - | 2.2 | - | - | - | - | - | - | - | |

| Table :7 | | SDM | DM | RDM | BSDM | PFSR | | | ESR | | P.RUST | C.RUST | CYST Nema [#] | |
|---------------------|------------------|-------|-------|------|-------|-------|-----|-----|-----|-------|--------|--------|------------------------|--------|
| S.NO | Pedigree | (%) | (%) | (%) | (1-5) | (1-9) | | | (%) | (1-5) | (1-5) | | | |
| | | MAND | COIM | UDP | DHAU | PANT | LUD | HYD | UDP | DHAU | PANT | MAND | ARB | UDP |
| AET 1st YEAR | | | | | | | | | | | | | | |
| 1 | COMP. R - 2006-1 | 59.1 | 100.0 | 23.8 | 2.5 | 1.3 | 4.9 | 4.1 | 2.6 | 16.9 | 7.1 | 2.8 | 2.3 | 11--16 |
| 2 | COMP. R- 2007-1 | 100.0 | 97.5 | 64.0 | 2.0 | 1.3 | 5.7 | 5.4 | 6.9 | 6.1 | 0.0 | 2.0 | 1.8 | 21-27 |
| 3 | U M C - 10 | 80.0 | 100.0 | 41.7 | 3.0 | 1.3 | 5.7 | 4.7 | 5.3 | 31.5 | 3.6 | 3.8 | 1.8 | 35-43 |
| 4 | U M C - 11 | 87.0 | 100.0 | 34.8 | 3.0 | 1.0 | 5.8 | 4.5 | 5.6 | 38.9 | 10.0 | 4.3 | 1.6 | 17-24 |
| 5 | U M C - 12 | 82.0 | 97.5 | 75.0 | 2.5 | 1.0 | 4.9 | 4.7 | 4.3 | 26.9 | 6.7 | 4.5 | 1.7 | 43-52 |
| 6 | KML - 9 | 96.1 | 84.2 | 32.0 | 2.0 | 1.0 | 4.0 | 5.0 | 1.9 | 25.0 | 0.0 | 2.0 | 1.7 | 37-45 |
| 7 | K M L - 15 | 79.1 | 100.0 | 40.0 | 2.0 | 1.0 | 5.7 | 4.7 | 3.5 | 28.7 | 15.9 | 4.5 | 2.3 | 10--18 |
| CHECKS: | | | | | | | | | | | | | | |
| 8 | PARKASH | 100.0 | 100.0 | 84.0 | 2.5 | 1.0 | 4.1 | 5.3 | 6.0 | 25.0 | 7.3 | 2.0 | 2.0 | 48-58 |
| 9 | PRATAP MAKKA - 4 | 83.3 | 100.0 | 68.2 | 2.0 | 1.5 | 6.2 | 4.4 | 5.6 | 34.3 | 9.0 | 4.5 | 2.2 | 8--14 |
| 10 | PRATAP MAKKA - 5 | 77.5 | 100.0 | 87.5 | 2.0 | 1.0 | 5.7 | 5.2 | 5.5 | 42.7 | 20.7 | 4.8 | 1.7 | 21-27 |
| AET 2nd YEAR | | | | | | | | | | | | | | |
| 11 | J H - 31110 | 90.4 | 100.0 | 83.3 | 1.0 | 1.0 | 4.3 | 4.7 | 3.3 | 18.4 | 5.4 | 2.8 | 1.8 | 23-30 |
| | Local check | - | - | 39.1 | - | - | 4.8 | 7.2 | 3.7 | - | - | - | - | - |
| | R.C | 12.0 | 5.1 | - | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | 100.0 | 100.0 | - | - | - | - | - | - | - | - | 5.0 | 2.0 | - |
| | Surya | - | - | 61.9 | - | - | - | - | - | - | - | - | - | - |
| | PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 39-47 |

range of cyst/ plant

Table : 8

Trial 78 : Evaluation of Maize Genotypes (extra early maturity) against various diseases of maize during Kharif 2009

| S.NO | Pedigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | | | PANT |
|---------------------|------------------------|--------------|-----|-------|-----|--------------|-----|-----|-----|---------------|------|-----|------|
| | | BAJ | DEL | Dholi | LUD | RAN | BAJ | ARB | BAP | ALM | MAND | DEL | |
| AET 1st YEAR | | | | | | | | | | | | | |
| 1 | F H - 3463 | 1.0 | 1.5 | 2.5 | 2.2 | 2.0 | 1.0 | 2.9 | 1.8 | 1.5 | 2.0 | 3.5 | 4.5 |
| 2 | F H - 3464 | 1.0 | 1.5 | 2.5 | 2.5 | 2.0 | 0.5 | 3.3 | 1.0 | 1.0 | 2.0 | 4.0 | 3.3 |
| 3 | F H - 3473 | 1.5 | 1.5 | 1.5 | 2.0 | 1.5 | 2.0 | 3.0 | 1.3 | 1.3 | 2.0 | 4.0 | 4.5 |
| 4 | FQH - 55 | 2.0 | 1.5 | 2.5 | 2.0 | 2.0 | 2.5 | 2.8 | 3.3 | 1.8 | 2.5 | 4.0 | 4.8 |
| AET 2nd YEAR | | | | | | | | | | | | | |
| 5 | FH - 3356 (RETESTING.) | 2.5 | 2.0 | 3.0 | 3.2 | 2.5 | 2.5 | 2.6 | 1.8 | 1.5 | 2.5 | 4.5 | 5.0 |
| 6 | FH - 3358 (RETESTING.) | 1.0 | 1.5 | 2.0 | 1.7 | 1.8 | 1.5 | 2.8 | 1.8 | 1.5 | 1.8 | 4.5 | 4.8 |
| 7 | FQH - 38 | 2.5 | 2.0 | 3.2 | 2.0 | 2.6 | 3.5 | 2.1 | 2.0 | 1.8 | 2.5 | 4.5 | 4.0 |
| CHECKS: | | | | | | | | | | | | | |
| 8 | VIVEK HYBRID - 21 | 2.0 | 1.5 | 3.2 | 2.5 | 2.4 | 3.0 | 3.3 | 2.5 | 1.8 | 2.3 | 4.0 | 4.8 |
| 9 | VIVEK HYBRID - 17 | 2.0 | 2.0 | 3.0 | 2.5 | 2.5 | 2.0 | 2.8 | 2.5 | 1.8 | 2.8 | 5.0 | 4.8 |
| 10 | VIVEK QPM - 9 | 2.5 | 2.0 | 2.5 | 2.0 | 2.3 | 3.0 | 4.0 | 2.3 | 1.8 | 2.8 | 4.0 | 4.0 |
| 11 | VIVEK HYBRID - 9 | 2.5 | 1.5 | 3.0 | 2.0 | 2.3 | 3.0 | 2.8 | 2.3 | 1.5 | 2.8 | 4.5 | 4.8 |
| 12 | PARKASH | 2.5 | 1.5 | 2.5 | 2.5 | 2.0 | 4.0 | 3.9 | 3.0 | 2.8 | 4.8 | 3.5 | 3.5 |
| | Local check | - | - | 4.5 | 2.7 | 2.3 | - | - | - | - | - | - | - |
| | R.C | - | - | - | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | - | - | - | - | - | - | 5.0 | - | 2.8 | 4.8 | - | - |

Table : 8

| S.NO | Pedigree | SDM | DM | RDM | BSDM | PFSR | | | ESR | P.RUST | | C.RUST | CYST Nema# | |
|---------------------|-----------------------|-------------|-------------|------------|---------------|--------------|-----|-----|-------------|--------|---------------|--------------|------------|--------|
| | | (%) MAND | (%) COIM | (%) UDP | (1-5) DHAU | (1-9) LUD | HYD | UDP | (%) DHAU | PANT | (1-5) MAND | (1-5) ARB | UDP | |
| AET 1st YEAR | | | | | | | | | | | | | | |
| 1 | F H - 3463 | 100.0 | 95.65 | 52.2 | 1.0 | 1.3 | 4.2 | 4.7 | 5.6 | 31.7 | 3.1 | 5.0 | 2.0 | 28-36 |
| 2 | F H - 3464 | 100.0 | 100.00 | 60.0 | 1.0 | 1.0 | 5.1 | 4.9 | 8.2 | 28.1 | 10.0 | 2.0 | 1.3 | 11--17 |
| 3 | F H - 3473 | 90.9 | 95.65 | 39.1 | 1.0 | 1.0 | 5.0 | 5.1 | 2.3 | 36.9 | 0.0 | 4.8 | 1.5 | 8--14 |
| 4 | FQH - 55 | 80.7 | 100.00 | 52.2 | 1.5 | 1.0 | 3.6 | 4.7 | 5.9 | 44.0 | 0.0 | 5.0 | 2.2 | 30-39 |
| AET 2nd YEAR | | | | | | | | | | | | | | |
| 5 | FH - 3356 (RETESTING. | 78.2 | 100.00 | 44.0 | 2.5 | 1.0 | 7.5 | 5.0 | 2.5 | 59.4 | 0.0 | 5.0 | 1.8 | 10--19 |
| 6 | FH - 3358 (RETESTING. | 94.4 | 100.00 | 0.0 | 1.0 | 1.0 | 3.9 | 4.9 | 2.3 | 68.9 | 0.0 | 4.8 | 2.5 | 17-23 |
| 7 | FQH - 38 | 83.8 | 100.00 | 92.0 | 1.5 | 1.0 | 7.2 | 5.6 | 6.6 | 75.9 | 5.5 | 4.5 | 2.6 | 35-42 |
| CHECKS: | | | | | | | | | | | | | | |
| 8 | VIVEK HYBRID - 21 | 100.0 | 100.00 | 95.8 | 1.0 | 1.0 | 4.2 | 5.0 | 5.7 | 76.4 | 0.0 | 5.0 | 2.0 | 49-58 |
| 9 | VIVEK HYBRID - 17 | 100.0 | 100.00 | 72.7 | 1.5 | 1.0 | 6.4 | 5.3 | 7.9 | 52.9 | 0.0 | 4.8 | 2.1 | 36-44 |
| 10 | VIVEK QPM - 9 | 100.0 | 100.00 | 64.0 | 1.0 | 1.5 | 5.7 | 6.1 | 8.0 | 51.6 | 4.5 | 4.8 | 1.7 | 29-37 |
| 11 | VIVEK HYBRID - 9 | 100.0 | 100.00 | 66.7 | 1.5 | 1.0 | 3.6 | 4.1 | 5.8 | 22.1 | 0.0 | 5.0 | 1.9 | 26-32 |
| 12 | PARKASH | 100.0 | 100.00 | 36.0 | 1.0 | 1.0 | 4.6 | 4.3 | 5.0 | 36.1 | 0.0 | 2.0 | 1.5 | 28-38 |
| | Local check | - | - | 81.8 | - | - | 4.5 | 7.2 | 3.3 | - | - | - | - | - |
| | R.C | 12.7 | 4.76 | - | - | - | - | - | - | - | - | 2.0 | - | - |
| | S.C | 100.0 | 100.00 | - | - | - | - | - | - | - | - | 4.8 | 2.5 | - |
| | Surya | - | - | 60.0 | - | - | - | - | - | - | - | - | - | - |
| | PEHM-2 (Check) | - | - | - | - | - | - | - | - | - | - | - | - | 37-44 |

range of cyst/ plant

Table : 9

Trap Nursery - Evaluation of Genotype against various Maize diseases in natural enviromental condition during Kharif 2009

| S.No | Pedigree | MLB (1-5) | | | | | | | | | TLB (1-5) | | | | | | |
|------|-------------|-----------|-----|-----|------|-----|-----|-----|-----|------|-----------|------|-----|-----|------|-----|-----|
| | | DHO | UDP | DEL | DHAU | LUD | BAP | ALM | BAJ | COIM | HYD | COIM | ARB | ALM | MAND | BAP | BAJ |
| 1 | HKI-163 | 2.0 | 1.5 | 1.0 | 2.0 | 2.5 | 2.5 | 1.3 | 2.0 | 0.0 | 2.0 | 1.0 | 3.5 | 1.0 | 3.5 | 2.0 | 1.5 |
| 2 | HKI-1931 | 2.5 | 2.0 | 1.0 | 3.0 | 3.0 | 3.0 | 2.8 | 3.0 | 1.0 | 2.0 | 0.0 | 3.0 | 1.3 | 3.5 | 2.5 | 2.0 |
| 3 | HKI-323 | 2.5 | 2.5 | 1.0 | 2.0 | 3.0 | 3.0 | 1.0 | 2.0 | 0.0 | 2.7 | 1.0 | 3.0 | 1.5 | 4.5 | 3.0 | 4.0 |
| 4 | CM-128 | NG | -- | 1.0 | 2.0 | 2.5 | 3.8 | 1.8 | - | 0.0 | 3.0 | 1.0 | 2.5 | 1.8 | 4.0 | 3.5 | 4.5 |
| 5 | CM-136 | 2.5 | -- | 1.0 | 2.0 | 2.5 | 3.3 | 1.0 | 2.0 | 0.0 | 2.0 | 1.0 | 2.5 | 1.5 | 3.5 | 3.5 | 3.5 |
| 6 | CM-137 | 2.0 | -- | 1.0 | 3.0 | 1.5 | 3.5 | 1.0 | 2.0 | 1.0 | 2.6 | 0.0 | 2.0 | 1.5 | 4.0 | 3.5 | 3.0 |
| 7 | CM-138 | 1.5 | -- | 1.0 | 3.0 | 2.0 | 4.0 | 1.5 | 2.0 | 0.0 | 3.5 | 1.0 | 2.5 | 2.5 | 4.0 | 3.5 | 4.0 |
| 8 | CM-145 | 1.5 | -- | 1.0 | 3.0 | 2.0 | 3.0 | 1.0 | 2.5 | 1.0 | 2.0 | 0.0 | 3.0 | 1.3 | 4.0 | 2.5 | 2.0 |
| 9 | CM-150 | 2.0 | 1.5 | 1.0 | 3.0 | 2.5 | 3.0 | 1.0 | 2.5 | 0.0 | 2.0 | 1.0 | 3.5 | 1.3 | 4.5 | 3.5 | 3.5 |
| 10 | CM-151 | 2.5 | - | 2.0 | 3.0 | 2.0 | 3.5 | 1.0 | 2.0 | 1.0 | 1.5 | 0.0 | 3.0 | 1.5 | 3.5 | 3.5 | 2.0 |
| 11 | CM-212 | NG | - | 2.5 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 | 1.0 | 2.7 | 0.0 | 2.5 | 2.5 | NG | 3.5 | 4.0 |
| | Local Check | - | 1.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| S.No | Pedigree | BLSB (1-5) | | | | PFSR (%) | | | | CLS (1-5) | | | RDM (%) | BSDM (1-5) | ESR (%) | | |
|------|-------------|------------|-----|------|------|----------|------|-------|-----|-----------|-----|------|---------|------------|---------|------|------|
| | | UDP | BAJ | PANT | DHAU | HYD | UDP | DEL | LUD | UDP | BAJ | DHAU | UDP | DHAU | PANT | PANT | DHAU |
| 1 | HKI-163 | - | 3.5 | - | 2.0 | 4.4 | 11.8 | 87.5 | 5.0 | Tr. | 2.5 | 2.0 | 29.4 | 2.0 | - | - | 10.4 |
| 2 | HKI-1931 | - | 2.0 | - | 2.0 | 5.3 | 22.2 | 25.0 | 4.2 | Tr. | 2.0 | 3.0 | 16.7 | 3.0 | - | - | 16.6 |
| 3 | HKI-323 | Tr. | 2.0 | - | 3.0 | 4.8 | 16.7 | 75.0 | 5.7 | 2 | - | 3.0 | 33.3 | 2.0 | - | - | 33.3 |
| 4 | CM-128 | - | 2.0 | 1.5 | 1.0 | 4.9 | 40.0 | 100.0 | 3.8 | 3 | - | 3.0 | 13.3 | 2.0 | 2.0 | 0.0 | 37.5 |
| 5 | CM-136 | - | 1.5 | 2.0 | 2.0 | 5.1 | 16.7 | 92.3 | 3.0 | - | - | 4.0 | 0 | 2.0 | 2.5 | 0.0 | 6.6 |
| 6 | CM-137 | - | 2.0 | 2.0 | 2.0 | 4.9 | 18.7 | 66.7 | 4.5 | 1.5 | - | 4.0 | 6.2 | 2.0 | 1.5 | 16.7 | 12.5 |
| 7 | CM-138 | - | 2.5 | 1.5 | 2.0 | 6.6 | 12.5 | 45.5 | 4.8 | - | - | 2.0 | 6.2 | 2.0 | 1.0 | 0.0 | 12.0 |
| 8 | CM-145 | Tr. | 1.5 | 3.0 | 3.0 | 3.9 | 27.8 | 83.3 | 3.7 | - | 2.5 | 2.0 | 5.5 | 2.0 | 2.0 | 0.0 | 16.6 |
| 9 | CM-150 | Tr. | 2.0 | 2.0 | 2.0 | 4.6 | 31.6 | 90.0 | 4.1 | 1.5 | - | 3.0 | 15.8 | 3.0 | 2.5 | 0.0 | 33.3 |
| 10 | CM-151 | 1.5 | 2.0 | 3.0 | 1.0 | 3.7 | 15.0 | 38.5 | 3.6 | 2.5 | - | 3.0 | 30 | 1.0 | 2.0 | 16.7 | 10.0 |
| 11 | CM-212 | -- | 2.5 | 2.0 | 4.0 | 5.9 | 29.4 | 62.5 | 4.0 | 3.5 | - | 3.0 | 58.8 | 1.0 | 2.5 | 0.0 | 20.0 |
| | Local Check | - | - | - | - | - | 5.2 | - | - | 2.0 | - | - | 5.2 | - | - | - | - |

Table : 9

| S.No | Pedigree | Rust (1-5) | | | SDM (%) | P.Rust (1-5) | B.S (1-5) | UDP | Other disease | MAND |
|------|-------------|------------|-----|------|---------|--------------|-----------|-----|---------------|----------------------|
| | | HYD | ARB | COIM | MAND | MAND | DHAU | | UDP | |
| 1 | HKI-163 | 1.5 | 2.5 | 1.0 | 100.0 | 3.0 | 2.0 | - | - | Curvularia leaf spot |
| 2 | HKI-1931 | 1.0 | 2.5 | 0.0 | 100.0 | 4.0 | 2.0 | - | - | Maydis leaf blight |
| 3 | HKI-323 | 1.0 | 2.0 | 1.0 | 100.0 | 4.0 | 2.0 | - | - | - |
| 4 | CM-128 | 2.0 | 2.0 | 1.0 | 80.0 | 3.5 | 1.0 | - | - | - |
| 5 | CM-136 | 1.6 | 1.5 | 1.0 | 100.0 | 4.5 | 2.0 | - | - | Phaeospora leaf spot |
| 6 | CM-137 | 1.8 | 2.5 | 0.0 | 100.0 | 4.5 | 1.0 | Tr | Virus (?) | - |
| 7 | CM-138 | 2.0 | 2.0 | 1.0 | 100.0 | 3.5 | 1.0 | Tr. | - | Stalk rot |
| 8 | CM-145 | 2.0 | 2.0 | 0.0 | 88.0 | 3.5 | 3.0 | Tr. | - | Stalk rot |
| 9 | CM-150 | 1.7 | 1.5 | 1.0 | 100.0 | 4.0 | 3.0 | -- | Virus (?) | - |
| 10 | CM-151 | 1.8 | 1.5 | 0.0 | 88.0 | 4.0 | 2.0 | - | - | Stalk rot |
| 11 | CM-212 | 2.0 | 2.0 | 0.0 | 100.0 | NG | 3.0 | Tr. | - | - |
| | Local Check | - | - | - | - | - | - | - | - | - |
| | S.C | - | - | - | 100.0 | - | - | - | - | - |

Table : 10

Evaluation of QPM - 1 Genotype against Maize diseases during Kharif 2009

| S.No | Padigree | MLB (1-5) | | | | | TLB (1-5) | | | | BLSB (1-5) | BSDM (1-5) | ESR (%) | P. Rust (1-5) | RDM (%) | PFSSR (1-9) | |
|------|----------------|-----------|-----|-----|-----|--------|-----------|-----|-----|-----|------------|------------|---------|---------------|---------|-------------|--|
| | | DHO | DEL | BAJ | LUD | RANCHI | MAND | BAJ | ALM | DEL | DHAU | DHAU | MAND | UDP | UDP | LUD | |
| 1 | HQPM-20 | 2.5 | 3.0 | 2.5 | 3.5 | 3.0 | 1.5 | 2.5 | 1.8 | 3.0 | 1.5 | 6.3 | 5.0 | 56.5 | 3.2 | 4.3 | |
| 2 | HQPM-21 | 3.0 | 3.0 | 2.5 | 3.7 | 3.1 | 2.5 | 5.0 | 1.5 | 3.0 | 1.0 | 12.8 | 4.8 | 40.0 | 1.9 | 4.6 | |
| 3 | BAUQH-8-9-201 | 2.5 | 2.5 | 2.0 | 3.0 | 2.5 | 3.0 | 2.5 | 1.8 | 3.5 | 2.0 | 15.8 | 4.8 | 73.9 | 5.1 | 4.8 | |
| 4 | BAUSYN-8-9-501 | 2.5 | 2.0 | 2.0 | 3.0 | 2.5 | 3.0 | 2.5 | 1.5 | 3.0 | 1.0 | 18.9 | 4.8 | 73.9 | 4.3 | 3.8 | |
| 5 | BAUSYN-8-9-502 | 3.0 | 1.5 | 2.0 | 3.0 | 2.5 | 2.5 | 2.5 | 1.3 | 3.5 | 1.5 | 22.4 | 4.8 | 40.0 | 3.4 | 4.9 | |
| 6 | ECQ-3152 | 2.0 | 2.0 | 2.0 | 2.7 | 2.4 | 2.8 | 1.0 | 1.8 | 3.5 | 2.5 | 30.2 | 3.5 | 65.0 | 4.3 | 5.4 | |
| 7 | VEHQ-3019 | 2.5 | 1.5 | 1.0 | 2.5 | 1.8 | 1.5 | 1.0 | 1.5 | 3.0 | 1.0 | 11.8 | 4.3 | 45.4 | 2.4 | 4.0 | |
| 8 | VQPMH-282 | 2.5 | 1.5 | 1.5 | 2.5 | 2.0 | 2.3 | 0.5 | 1.5 | 3.0 | 1.5 | 31.1 | 3.5 | 79.2 | 4.0 | 4.5 | |
| 9 | JHQPM-304 | 3.0 | 2.0 | 1.0 | 3.0 | 2.0 | 1.8 | 1.0 | 1.3 | 3.0 | 1.0 | 35.3 | 3.8 | 83.3 | 5.3 | 3.8 | |
| 10 | CHECKS: | | | | | | | | | | | | | | | | |
| 11 | HQPM-1 | 3.5 | 1.5 | 1.0 | 3.2 | 2.1 | 2.3 | 1.0 | 1.3 | 3.0 | 1.0 | 34.2 | 5.0 | 44.0 | 3.5 | 3.6 | |
| 12 | HQPM-5 | 2.5 | 1.5 | 1.0 | 2.5 | 1.8 | 1.8 | 1.0 | 1.5 | 2.5 | 1.5 | 49.7 | 1.8 | 68.4 | 4.3 | 3.6 | |
| 13 | HQPM-7 | 2.5 | 2.0 | 2.5 | 3.5 | 3.0 | 1.8 | 1.5 | 1.5 | 3.0 | 2.0 | 22.4 | 1.8 | 56.0 | 4.5 | 4.1 | |
| | Local Check | 4.5 | - | - | 2.7 | 2.0 | - | - | - | - | - | - | - | 28.0 | 3.4 | 6.3 | |
| | Surya | - | - | - | - | - | - | - | - | - | - | - | - | 79.2 | - | - | |
| | R.C | - | - | - | - | - | 1.8 | - | - | - | - | - | 1.5 | - | - | - | |
| | S.C | - | - | - | - | - | 4.5 | - | 3.3 | - | - | - | 4.8 | - | - | - | |

Table : 11

Evaluation of QPM - 2 & 3 Genotype against Maize diseases during Kharif 2009

| S.NO | Padigree | MLB (1-5) | | | | TLB (1-5) | | | | BLSB (1-5) | RDM (%) | BSDM (1-5) | ESR (%) | P. Rust (1-5) | PFSR (1-9) | LUD |
|----------------|--------------|-----------|-----|--------|-----|-----------|------|-----|-----|------------|---------|------------|---------|---------------|------------|-----|
| | | DHO | DEL | RANCHI | BAJ | LUD | MAND | BAJ | ALM | DEL | UDP | DHAU | DHAU | MAND | UDP | |
| TRQPM-2 | | | | | | | | | | | | | | | | |
| 1 | VEH QPM-3018 | 2.0 | 2.0 | 2.0 | 2.0 | 2.7 | 4.5 | 1.5 | 1.3 | 3.5 | 100.0 | 1.0 | 74.3 | 2.5 | * | 4.1 |
| TRQPM-3 | | | | | | | | | | | | | | | | |
| 2 | VEH QPM-3027 | 2.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.0 | 1.0 | 1.5 | 3.0 | 20.0 | 1.0 | 13.9 | 4.3 | 4.9 | 3.5 |
| CHECKS: | | | | | | | | | | | | | | | | |
| 3 | HQPM-1 | 2.5 | 2.0 | 2.0 | 2.5 | 3.0 | 1.8 | 1.5 | 1.5 | 3.5 | 60.0 | 1.5 | 22.0 | 4.5 | 4.8 | 2.9 |
| 4 | HQPM-5 | 3.0 | 2.0 | 2.0 | 2.0 | 3.0 | 2.0 | 2.5 | 1.5 | 3.0 | 60.9 | 2.0 | 36.4 | 2.0 | 3.9 | 4.1 |
| 5 | HQPM-7 | 2.0 | 2.0 | 2.0 | 1.5 | 3.0 | 1.8 | 2.0 | 1.5 | 3.0 | 48.0 | 1.0 | 27.4 | 2.0 | 4.8 | 3.0 |
| | Local Check | 4.5 | - | 2.8 | - | 2.7 | - | - | - | - | 44.0 | - | - | - | 3.9 | 4.4 |
| | Surya | - | - | - | - | - | - | - | - | - | 60.0 | - | - | - | - | - |
| | R.C | - | - | - | - | - | 1.5 | - | - | - | - | - | - | 1.8 | - | - |
| | S.C | - | - | - | - | - | 4.8 | - | 3.0 | - | - | - | - | 4.5 | - | - |

* Stunted plants

Table : 12

Evaluation of inbred lines of maize against major diseases of maize at Hyderabad, Udaipur, Delhi, Ludhiana, Dhaulakuan & Mandya during Kharif 2009.

| S.No. | Pedigree | MLB | TLB | BSDM | BLSB | SDM | | | PFSR | | | ESR | P. rust |
|-------|--------------------------|-------|-------|-------|-------|-----|-------|-----|------|-----|-----|-------|---------|
| | | (1-5) | (1-5) | (1-5) | (1-5) | (%) | (1-9) | | | | (%) | (1-5) | |
| | | LUD | MAND | DHAU | DHAU | DEL | MAND | HYD | UDP | LUD | DEL | DHAU | MAND |
| 1 | HSSW(HS)C1f3(SH2SH2) | 3.0 | 3.5 | 1.5 | 1.5 | 5.0 | 100.0 | 6.7 | 7.0 | 4.5 | 3.3 | 100.0 | 3.0 |
| 2 | Insec 2 (K4) | - | 4.0 | 1.0 | 1.0 | - | 100.0 | 4.7 | 6.8 | - | - | 100.0 | 3.5 |
| 3 | Insec 2 (K4)' Insec (K4) | 3.5 | 3.0 | 2.0 | 1.0 | 4.5 | 100.0 | 5.5 | * | 5.0 | 5.5 | 57.1 | 4.5 |
| 4 | Mas madu (sh2 sh2)- | 2.5 | 3.0 | 2.5 | 1.0 | 4.0 | 100.0 | 5.6 | 4.0 | 3.7 | 2.8 | 50.0 | 2.0 |
| 5 | NSS2W9301A(sh2sh2) | 3.0 | 2.5 | 3.0 | 3.5 | 4.0 | 100.0 | 5.8 | 4.9 | 4.8 | 4.2 | 25.0 | 5.0 |
| 6 | Sweet corn 'Insec 1 (K4) | 2.5 | 3.5 | - | - | 5.0 | 100.0 | 5.5 | 7.7 | 4.3 | 4.4 | NG | 3.5 |
| 7 | Win Sweet Corn | 4.0 | 5.0 | 1.5 | 2.0 | 5.0 | 100.0 | 6.8 | 3.2 | 5.5 | 6.1 | 66.6 | 4.0 |
| 8 | WSC1 X MUS MADHU | 4.0 | 4.5 | 1.5 | 1.5 | 4.0 | 100.0 | 7.2 | 6.8 | 5.0 | 4.0 | 50.0 | 4.0 |
| 9 | 951-7 | 2.5 | 4.5 | 2.5 | 3.0 | 2.5 | 100.0 | 5.5 | 6.3 | 5.0 | 1.1 | 33.3 | 2.0 |
| 10 | Dulce Amanillo (Su Su) | 2.5 | 4.5 | 2.0 | 1.5 | 5.0 | 100.0 | 4.3 | 7.4 | 3.7 | - | 66.6 | 4.5 |
| 11 | Dulce Amanillo (Su Su) | 2.0 | 2.5 | 1.5 | 3.0 | - | 100.0 | 4.6 | * | 5.6 | 6.0 | 100.0 | 2.5 |
| 12 | WINPOP-16 | 2.0 | 5.0 | 1.0 | 1.5 | 4.5 | 100.0 | 5.2 | 4.8 | 6.0 | 4.5 | 42.8 | 4.0 |
| 13 | CP Golden Sweet 3 | 2.5 | 3.5 | 1.5 | 1.0 | 4.0 | 100.0 | 3.8 | 6.8 | 3.7 | 6.2 | 100.0 | 5.0 |
| 14 | CUBA 378 | 2.0 | 5.0 | 1.0 | 1.5 | 5.0 | 100.0 | 5.2 | 6.2 | 5.2 | 6.3 | 100.0 | 4.5 |
| 15 | CUBA 377 | 2.5 | 5.0 | 2.0 | 1.0 | 5.0 | 100.0 | 5.8 | 2.8 | 5.7 | 5.9 | 42.8 | 4.0 |
| 16 | CUBA 379 | 1.5 | 4.0 | 2.0 | 1.0 | 5.0 | 100.0 | 4.9 | 5.4 | 4.5 | 2.6 | 20.0 | 2.0 |
| 17 | CUBA 380 | 2.5 | 2.0 | 1.5 | 1.0 | 5.0 | 100.0 | 3.2 | 4.5 | 4.5 | 6.4 | 61.0 | 4.5 |
| 18 | NC 392 | 1.5 | 2.0 | 2.5 | 1.5 | 3.0 | 100.0 | 2.8 | 2.9 | 4.7 | 4.7 | 75.8 | 5.0 |
| 19 | DMSC1 | 2.0 | 2.0 | 2.0 | 0.0 | 3.0 | 100.0 | 5.0 | 4.1 | 3.2 | 3.0 | 33.3 | 4.0 |
| 20 | DMSC3 | 1.5 | 4.5 | 2.0 | 0.0 | - | 100.0 | 5.9 | 6.8 | 4.3 | 1.0 | 100.0 | 5.0 |
| 21 | DDMSC-4-1 DR 10 | 2.0 | 4.5 | 1.5 | 2.0 | 4.5 | 100.0 | 4.5 | 4.6 | 3.0 | 4.3 | 0.0 | 5.0 |
| 22 | DMSC6 | 2.5 | 3.5 | 1.0 | 2.0 | 3.5 | 100.0 | 5.6 | 4.2 | 4.2 | 4.4 | 60.0 | 4.0 |
| 23 | DMSC8 | 4.0 | 3.0 | 1.5 | 1.5 | 5.0 | 100.0 | 5.8 | 5.6 | 5.0 | 3.7 | 50.0 | 4.0 |
| 24 | DMSC14 | 2.5 | 2.0 | 1.0 | 1.0 | 4.0 | 25.00 | 6.0 | 6.5 | 4.5 | 6.6 | 64.2 | 2.0 |
| 25 | DMSC16 | 1.5 | 3.5 | 2.0 | 1.5 | 2.5 | 100.0 | 5.2 | 5.7 | 5.5 | 7.2 | 75.0 | 3.0 |
| 26 | DMSC16 | 1.5 | 4.0 | 2.5 | 4.0 | 3.0 | 100.0 | 5.1 | 5.9 | 4.6 | 6.5 | 0.0 | 2.0 |
| 27 | DMSC 20 | 3.0 | 4.0 | 1.5 | 3.0 | 5.0 | 100.0 | 5.7 | 2.3 | 4.7 | 5.2 | 25.0 | 3.5 |
| 28 | DMSC-22-3 | 2.5 | 3.0 | 1.5 | 1.0 | 5.0 | 33.30 | 5.8 | 3.1 | 4.8 | 6.9 | 62.5 | 4.0 |
| 29 | DMSC 28 | 4.0 | 3.5 | 1.5 | 0.0 | 5.0 | 100.0 | 5.1 | 3.8 | 4.7 | 7.3 | 71.4 | 4.5 |

* Seed did not germinate

Table : 12

| S.No. | Pedigree | MLB | TLB | BSDM | BLSB | DEL | SDM | PFSR | UDP | LUD | DEL | ESR | P. rust | |
|-------|---------------------|-------|-------|-------|-------|-----|-------|-------|-----|-----|------|-------|---------|--|
| | | (1-5) | (1-5) | (1-5) | (1-5) | | (%) | (1-9) | | | | (%) | (1-5) | |
| | | LUD | MAND | DHAU | DHAU | | | HYD | | | DHAU | MAND | | |
| 30 | DMSC 36 | 2.5 | 4.5 | 2.0 | 2.0 | 3.5 | 100.0 | 2.9 | 3.8 | 3.6 | 5.6 | 25.0 | 4.5 | |
| 31 | DMSC-37-3 | 3.0 | 2.5 | 1.0 | 0.0 | 4.0 | 100.0 | 4.1 | 2.4 | 8.0 | 2.4 | 14.2 | 5.0 | |
| 32 | Gen1858 | 4.0 | 2.0 | 1.0 | 0.0 | 5.0 | 100.0 | 4.0 | 3.5 | 3.8 | 6.7 | 60.0 | 2.5 | |
| 33 | Sc Male | 2.5 | 4.5 | 1.5 | 0.0 | 3.0 | 100.0 | 5.1 | 2.7 | 5.9 | 6.3 | 88.8 | 4.5 | |
| 34 | HKI PC 4B | 3.0 | 2.5 | 1.5 | 3.5 | 3.5 | 100.0 | 3.9 | 3.6 | 5.3 | 4.7 | 22.2 | 5.0 | |
| 35 | HKI-PC-4B-1 | 3.5 | 5.0 | 1.0 | 1.0 | 2.5 | 100.0 | 6.0 | 4.4 | 6.3 | 2.1 | 40.0 | 4.5 | |
| 36 | HKI-PC-BT-3 | 2.5 | 5.0 | 2.0 | 4.0 | 2.5 | 100.0 | 7.2 | 2.6 | 4.0 | 7.4 | 0.0 | 4.5 | |
| 37 | HKI-PC-5 | 3.0 | 3.0 | 1.0 | 1.5 | 3.0 | 100.0 | 6.1 | 6.3 | 4.0 | 5.9 | 18.1 | 5.0 | |
| 38 | HKI-PC-5 | 3.5 | 2.0 | 1.0 | 2.0 | 4.0 | 100.0 | 5.1 | 3.2 | 4.8 | 5.0 | 50.0 | 5.0 | |
| 39 | HKI-PC-7 | 2.0 | 2.0 | 1.5 | 0.0 | 2.5 | 12.50 | 6.7 | 4.9 | 4.1 | 5.3 | 0.0 | 2.0 | |
| 40 | HKI PC 8 | 3.0 | 4.0 | 1.5 | 4.0 | 4.5 | 12.50 | 4.6 | 7.7 | 5.2 | 5.3 | 8.3 | 4.5 | |
| 41 | HKI-PC-8-2 | 3.5 | 2.5 | 1.5 | 3.0 | 3.5 | 100.0 | 3.7 | 3.4 | 5.0 | 4.6 | 0.0 | 4.5 | |
| 42 | HKI-PC-8-2 | 4.0 | 5.0 | 1.5 | 2.5 | 2.5 | 100.0 | 6.3 | 2.9 | 5.2 | 6.1 | 25.0 | 4.5 | |
| 43 | WINPOP | 3.0 | 3.0 | 1.0 | 2.5 | 3.5 | 100.0 | 6.8 | 4.9 | 4.4 | 5.1 | 0.0 | 4.5 | |
| 44 | WINPOP | 2.5 | 3.5 | 2.0 | 3.0 | 4.0 | 100.0 | 5.9 | 5.0 | 5.0 | 6.0 | 14.2 | 4.0 | |
| 45 | WINPOP | 2.5 | 3.5 | 1.0 | 2.5 | 4.0 | 100.0 | 3.1 | 4.5 | 5.2 | 6.5 | 0.0 | 4.5 | |
| 46 | WINPOP | 2.5 | 2.0 | 1.0 | 2.5 | 3.0 | 100.0 | 6.4 | 5.0 | 5.0 | 3.8 | 16.6 | 5.0 | |
| 47 | WINPOP-8 | 4.5 | 2.0 | 1.5 | 3.0 | 2.5 | 100.0 | 6.3 | 4.9 | 4.8 | 4.6 | 32.2 | 5.0 | |
| 48 | WINPOP-21 | 4.0 | 3.5 | 2.0 | 2.0 | 2.5 | 100.0 | 6.1 | 7.3 | 4.6 | 4.6 | 33.8 | 4.5 | |
| 49 | WINPOP-21 | 4.0 | 5.0 | 2.5 | 1.5 | 2.5 | 100.0 | 6.8 | 7.2 | 4.7 | 6.5 | 77.7 | 4.0 | |
| 50 | WINPOP-43 | 3.0 | 2.0 | 2.5 | 1.0 | 4.5 | 100.0 | 5.1 | 3.7 | 7.0 | 6.5 | 80.0 | 4.5 | |
| 51 | WINPOP-43 | 2.5 | 2.5 | 2.0 | 1.5 | 3.5 | 100.0 | 4.1 | 4.7 | 3.6 | 6.3 | 16.0 | 5.0 | |
| 52 | WINPOPII X WIPOPIII | 2.5 | 5.0 | 1.0 | 1.0 | 4.0 | 100.0 | 5.7 | 7.2 | 5.5 | 5.8 | 60.0 | 4.5 | |
| 53 | HKI-2-6-2-4(1-2)-4 | 3.0 | 2.0 | 2.5 | 4.0 | 3.5 | 100.0 | 4.2 | 5.2 | 5.8 | 6.0 | 37.5 | 5.0 | |
| 54 | HKI 209 | 3.0 | 5.0 | 2.5 | 3.0 | 5.0 | 100.0 | 5.9 | 7.7 | 4.3 | 6.0 | 11.1 | 4.0 | |
| 55 | HKI 226 | 2.0 | 2.0 | 2.5 | 0.0 | 3.5 | 100.0 | 5 | 5.5 | 5.2 | 2.6 | 100.0 | 2.0 | |
| 56 | HKI-536-7 | 2.0 | 4.0 | 2.5 | 0.0 | 3.5 | 100.0 | 6.1 | 6.8 | 5.7 | 5.0 | 40.0 | 2.0 | |
| 57 | HKI 586-1 WG ´ 33 | 3.5 | 3.5 | 2.0 | 1.0 | 5.0 | 100.0 | 6.7 | 7.0 | 8.6 | 6.0 | 100.0 | 4.0 | |
| 58 | HKI 1040-5 | 4.0 | 2.0 | 2.5 | 0.0 | 3.0 | 100.0 | 6.8 | 7.6 | 6.2 | 5.6 | 9.0 | 4.5 | |
| 59 | HKI 1040-11 | 3.5 | 3.5 | 1.5 | 1.5 | 4.0 | 100.0 | 5.6 | 3.5 | 7.4 | 5.1 | 15.3 | 5.0 | |
| 60 | HKI-1040-11-7 | 3.5 | 2.0 | 2.0 | 1.0 | 4.0 | 100.0 | 4.9 | 4.1 | 6.4 | 4.6 | 40.0 | 5.0 | |

Table : 12

| S.No. | Pedigree | MLB | TLB | BSDM | BLSB | DEL | SDM | PFSR | UDP | LUD | DEL | ESR | P. rust |
|-------|-----------------------|-------|-------|-------|-------|-----|-------|-------|-----|-----|------|-------|---------|
| | | (1-5) | (1-5) | (1-5) | (1-5) | | (%) | (1-9) | | | | (%) | (1-5) |
| | | LUD | MAND | DHAU | DHAU | | | HYD | | | DHAU | MAND | |
| 61 | HKI 1040C2 | 3.0 | 2.5 | 2.0 | 1.0 | 5.0 | 100.0 | 6.1 | 5.2 | 6.3 | 3.4 | 37.5 | 5.0 |
| 62 | HKI 1094-WG | 2.5 | 2.5 | 2.5 | 2.0 | 5.0 | 100.0 | 5.4 | 6.7 | 3.8 | 3.6 | 0.0 | 5.0 |
| 63 | CML 451(P2) | 2.0 | 2.0 | 2.5 | 3.0 | - | 100.0 | 5.7 | 3.5 | 4.0 | 1.9 | 35.5 | 2.0 |
| 64 | DTPYC9-F46-3-1 | 1.5 | 2.0 | 2.0 | 4.0 | 4.0 | 100.0 | 4.3 | 2.7 | 4.6 | 4.1 | 90.0 | 3.5 |
| 65 | DTPWC9-F115-1-4 | 1.5 | 2.0 | 2.5 | 0.0 | 4.0 | 100.0 | 6.0 | 2.5 | 3.6 | 3.0 | 18.1 | 4.0 |
| 66 | ESM-11-3 | 4.0 | 5.0 | 2.0 | 0.0 | 4.5 | 100.0 | 4.5 | 4.0 | 7.0 | 2.1 | 75.0 | 4.0 |
| 67 | PFSR/51016-1 | - | 2.0 | 1.0 | 0.0 | 3.5 | 75.00 | 4.6 | 2.6 | - | 1.8 | 0.0 | 5.0 |
| 68 | WS KHOTHAI-1-WAXY-1-1 | 3.5 | 2.0 | 1.5 | 1.0 | 4.0 | 100.0 | 5.4 | 2.8 | 5.6 | - | 80.0 | 3.5 |
| 69 | Gen 6033 | 3.5 | 5.0 | 2.0 | 3.0 | 3.5 | 100.0 | 6.2 | 3.8 | 5.7 | 5.0 | 15.3 | 4.0 |
| 70 | Hyd05R/2-1 | 3.0 | 2.5 | 1.5 | 3.0 | 4.0 | 63.60 | 4.0 | 2.9 | 4.2 | 4.6 | 16.6 | 4.0 |
| 71 | Hyd05R/13-2 | 2.5 | 4.5 | 1.5 | 1.0 | 5.0 | 100.0 | 6.0 | 4.5 | 4.5 | 4.1 | 50.0 | 3.0 |
| 72 | Hyd05R/204-1 | 2.0 | 3.0 | 2.0 | 1.0 | 3.5 | 100.0 | 4.9 | 5.0 | 4.9 | 2.3 | 50.0 | 2.0 |
| 73 | LM 5 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 100.0 | 2.8 | 2.9 | 3.3 | 1.3 | 10.0 | 5.0 |
| 74 | LM 6 | 2.0 | 4.0 | 3.0 | 1.0 | 3.0 | 100.0 | 4.6 | 4.2 | 4.0 | 2.5 | 10.1 | 3.5 |
| 75 | LM11 | 2.0 | 4.5 | 3.0 | 0.0 | 3.5 | 100.0 | 6.1 | 2.4 | 4.4 | 2.9 | 50.0 | 2.0 |
| 76 | LM12 | 2.0 | 4.5 | 2.0 | 4.0 | 5.0 | 100.0 | 5.1 | 3.6 | 3.0 | 4.0 | 80.0 | 4.5 |
| 77 | LM15 | 2.5 | 5.0 | 2.0 | 4.0 | 5.0 | 100.0 | 5.5 | 3.5 | 6.6 | 3.9 | 41.4 | 5.0 |
| 78 | LM15 | 2.0 | 5.0 | 2.5 | 1.5 | 5.0 | 100.0 | 5.7 | 3.0 | 4.2 | 6.1 | 100.0 | 5.0 |
| 79 | LM 16 | 1.5 | 4.0 | 2.0 | 3.0 | 3.5 | 92.8 | 5.1 | 3.7 | 4.2 | 3.9 | 10.0 | 2.0 |
| 80 | LTP-1-1 | 1.5 | 2.0 | 2.0 | 1.0 | 3.0 | 100.0 | 3.7 | 2.9 | 3.6 | 3.5 | 50.0 | 5.0 |
| 81 | V 335 | 1.5 | 4.5 | 2.0 | 1.0 | 2.5 | 100.0 | 6.1 | 2.8 | 2.5 | 5.6 | 66.6 | 4.5 |
| 82 | V 341 | 1.0 | 2.0 | 2.0 | 3.0 | 5.0 | 100.0 | 6.0 | 6.0 | 4.3 | 2.3 | 100.0 | 5.0 |
| 83 | V 341 | 1.5 | 2.0 | 2.5 | 1.0 | 5.0 | 100.0 | 6.5 | 7.9 | 5.3 | 3.9 | 72.7 | 4.5 |
| 84 | V 351 | 1.5 | 4.0 | 1.5 | 1.5 | 5.0 | 100.0 | 5.1 | 3.1 | 3.5 | 3.4 | 75.0 | 5.0 |
| 85 | V 351 | 1.5 | 5.0 | 1.0 | 1.0 | 4.5 | 100.0 | 5.2 | 2.5 | 4.0 | 2.6 | 87.5 | 5.0 |
| 86 | V 351 | 1.5 | 4.5 | 1.0 | 1.0 | 5.0 | 81.8 | 6.2 | 2.3 | 4.7 | 3.4 | 100.0 | 5.0 |
| 87 | NC 296-2 | 2.0 | 3.5 | 1.5 | 3.0 | 4.0 | 100.0 | 6.6 | 3.2 | 4.3 | - | 50.0 | 4.0 |
| 88 | NC 406-1 | 2.5 | 2.5 | 1.5 | 3.0 | 3.5 | 100.0 | 5.7 | 5.1 | 7.7 | 4.1 | 22.2 | 2.0 |
| 89 | NC 416 | 1.5 | 3.5 | 2.0 | 4.0 | 4.0 | 100.0 | 5.4 | 6.4 | 4.7 | 2.5 | 62.5 | 2.0 |
| 90 | CM104 | 2.0 | 4.0 | 2.0 | 1.0 | 4.0 | 100.0 | 5.7 | 4.8 | 4.5 | 3.0 | 83.3 | 2.0 |
| 91 | CM105 | 1.5 | 4.0 | 1.0 | 0.0 | 4.0 | 100.0 | 4.7 | 3.1 | 5.4 | 5.5 | 20.0 | 2.0 |

Table : 12

| S.No. | Pedigree | MLB | TLB | BSDM | BLSB | DEL | SDM | PFSR | UDP | LUD | DEL | ESR | P. rust |
|-------|-------------------------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|---------|
| | | (1-5) | (1-5) | (1-5) | (1-5) | | (%) | (1-9) | | | | (%) | (1-5) |
| | | LUD | MAND | DHAU | DHAU | | | MAND | HYD | | | DHAU | MAND |
| 92 | CM114 | 2.0 | 2.5 | 2.5 | 3.0 | 3.5 | 100.0 | 5.7 | 3.7 | 3.7 | 1.4 | 16.6 | 4.0 |
| 93 | CM121 | 2.5 | 4.5 | 1.5 | 2.0 | 3.5 | 100.0 | 5.4 | 3.6 | 4.5 | 4.0 | 100.0 | 3.0 |
| 94 | CM123 | 2.0 | 3.5 | 1.0 | 3.5 | 4.0 | 100.0 | 2.0 | 4.0 | 5.8 | 1.6 | 36.3 | 5.0 |
| 95 | CM 124 | 2.0 | 5.0 | 1.0 | 1.0 | 5.0 | 100.0 | 6.3 | 6.8 | 5.3 | 1.3 | 66.6 | 5.0 |
| 96 | CM128 | 2.5 | 3.5 | 1.0 | 1.5 | 5.0 | 100.0 | 6.2 | 2.7 | 6.3 | - | 77.1 | 5.0 |
| 97 | CM 129 | 2.0 | 2.5 | 1.5 | 4.0 | 5.0 | 100.0 | 6.7 | 6.9 | 4.5 | - | 50.0 | 4.0 |
| 98 | CM 132 | 2.0 | 2.0 | 1.5 | 4.0 | 4.0 | 100.0 | 4.8 | 3.5 | 4.3 | 1.5 | 66.6 | 2.0 |
| 99 | CM 133 | 3.5 | 4.0 | 2.0 | 0.0 | 3.0 | 100.0 | 4.4 | 3.7 | 5.1 | 2.5 | 80.0 | 4.0 |
| 100 | CM 139 | 2.0 | 4.5 | 2.5 | 4.0 | 3.5 | 100.0 | 4.0 | 3.5 | 3.4 | 3.7 | 20.0 | 3.5 |
| 101 | CM 144 | 1.5 | 4.5 | 2.5 | 0.0 | 2.5 | 90.9 | 5.0 | 3.3 | 5.0 | 2.3 | 50.0 | 2.0 |
| 102 | CM 146 | 2.0 | 3.5 | 2.0 | 4.0 | 3.0 | 100.0 | 3.2 | 4.1 | 3.7 | 1.2 | 12.5 | 2.0 |
| 103 | CM149 | 2.5 | 4.0 | 2.0 | 1.0 | 4.0 | 100.0 | 3.2 | 4.9 | 4.6 | 2.0 | 87.5 | 4.5 |
| 104 | CM 500 | 2.5 | 5.0 | 2.5 | 0.0 | 3.5 | 100.0 | 5.0 | 4.1 | 4.8 | 1.8 | 0.0 | 2.0 |
| 105 | CM501 | 2.5 | 2.5 | 2.5 | 0.0 | 5.0 | 50.00 | 3.3 | 4.5 | 4.5 | 1.5 | 75.0 | 2.0 |
| 106 | CM502 | 2.0 | 2.0 | 2.0 | 3.0 | 4.0 | 30.00 | 5.3 | 7.9 | 5.6 | 1.0 | 70.0 | 2.0 |
| 107 | HKI C 78 | 3.5 | 2.0 | 2.0 | 3.0 | 4.0 | 100.0 | 5.83 | 4.7 | 3.5 | 1.4 | 36.3 | 3.5 |
| 108 | HKI 141 | 2.5 | 2.0 | 2.5 | 4.0 | 4.0 | 100.0 | 4.0 | 3.9 | 6.4 | 1.5 | 70.0 | 3.5 |
| 109 | HKI 141 | 2.0 | 2.0 | 2.0 | 1.5 | 5.0 | 100.0 | 5.0 | 3.3 | 8.0 | 2.4 | 71.4 | 2.0 |
| 110 | HKI C 323 | 2.5 | 2.5 | 2.0 | 1.0 | 5.0 | 100.0 | 4.8 | 4.2 | 5.0 | 2.4 | 55.5 | 4.0 |
| 111 | HKI 1352-5-8-9 | 1.5 | 2.0 | 2.5 | 0.0 | 3.5 | 100.0 | 4.0 | 3.9 | 6.8 | 2.5 | 28.5 | 2.0 |
| 112 | Pool 16 BNSEQ.C3F6x38-1 | 2.0 | 4.5 | 2.5 | 0.0 | 5.0 | 50.0 | 6.1 | 7.4 | 7.4 | 1.0 | 80.0 | 2.5 |
| 113 | ae-40 | 2.5 | 3.0 | 3.0 | 1.0 | 4.5 | 100.0 | 6.2 | 5.7 | 4.8 | 3.4 | 33.3 | 3.5 |
| 114 | CML 141 | 2.5 | 2.0 | 2.5 | 1.0 | 3.5 | 100.0 | 3 | 3.6 | 5.6 | 2.7 | 23.0 | 2.0 |
| 115 | CML 154 | 2.0 | 3.5 | 2.0 | 0.0 | 4.5 | 100.0 | 6.6 | 5.9 | 5.8 | 2.5 | 66.6 | 2.5 |
| 116 | CML 269 | 2.0 | 2.0 | 2.5 | 1.0 | 3.5 | 100.0 | 3.7 | 4.7 | 4.0 | 1.6 | 92.3 | 3.0 |
| 117 | CML 384 | 1.5 | 2.0 | 2.0 | 0.0 | 4.0 | 70.00 | 3.2 | 2.9 | 5.7 | 1.0 | 54.5 | 2.0 |
| 118 | CML 395 | 2.0 | 2.5 | 1.5 | 0.0 | 2.5 | 100.0 | 3.1 | 2.3 | 4.7 | 1.8 | 76.9 | 2.0 |
| 119 | MIRT&PT-3 | 2.0 | 3.0 | 2.0 | 4.0 | 2.5 | 100.0 | 6.5 | 4.9 | 8.2 | 2.5 | 12.5 | 2.0 |
| 120 | HKI 17-2 | 4.0 | 3.0 | 1.5 | 3.5 | 4.0 | 100.0 | 5.4 | 2.9 | 7.4 | 1.0 | 60.0 | 4.0 |
| 121 | HKI 26-2-4-(1-2) | 4.0 | 5.0 | 1.5 | 1.0 | 5.0 | 100.0 | 3.9 | 4.7 | 5.3 | - | 20.0 | 4.0 |
| 122 | HKI 31-2 | 2.0 | 4.0 | 2.5 | 1.5 | 4.0 | 100.0 | 6.3 | 7.9 | 3.8 | 1.8 | 28.5 | 3.5 |

Table : 12

| S.No. Pedigree | MLB | TLB | BSDM | BLSB | DEL | SDM | PFSR | UDP | LUD | DEL | ESR | P. rust |
|-------------------------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|---------|
| | (1-5) | (1-5) | (1-5) | (1-5) | | (%) | (1-9) | | | | (%) | (1-5) |
| | LUD | MAND | DHAU | DHAU | | MAND | HYD | | | | DHAU | MAND |
| 123 HKI 31-2 | 2.5 | 3.0 | 1.0 | 4.0 | 3.0 | 100.0 | 6.5 | 7.9 | 5.0 | 1.4 | 20.0 | 3.5 |
| 124 HKI 34(1+2)-1 | 4.0 | NG | 1.0 | 4.0 | 4.5 | 100.0 | 5.6 | 5.1 | 8.2 | 1.2 | 83.3 | NG |
| 125 HKI-162-2 | 2.5 | 2.5 | 1.0 | 3.0 | 5.0 | 100.0 | 5.7 | 2.4 | 3.9 | 2.3 | 0.0 | 4.0 |
| 126 HKI 164-4-(1-3)-2 | 2.5 | 3.0 | 1.0 | 1.0 | 4.5 | 100.0 | 6.8 | 3.4 | 4.0 | - | 20.0 | 2.0 |
| 127 HKI 164-3 (2-1)-1 | 2.0 | 2.0 | 1.0 | 1.0 | 3.5 | 100.0 | 6.4 | 2.7 | 3.0 | - | 14.2 | 2.0 |
| 128 HKI 164-3 (2-1)-1 | 2.5 | 4.5 | 2.0 | 0.0 | 3.5 | 100.0 | 6.3 | 2.9 | 3.7 | - | 0.0 | 3.0 |
| 129 HKI-164-4-(1-3)-2-2 | 2.5 | 2.0 | 1.0 | 0.0 | 4.5 | 100.0 | 6.5 | 5.1 | 4.3 | 2.0 | 25.0 | 2.0 |
| 130 HKI 164-4-(1-3)-2 | 2.0 | 5.0 | 1.0 | 4.0 | 5.0 | 76.90 | 7.0 | 4.1 | 2.5 | 1.8 | 0.0 | 3.5 |
| 131 HKI 164-3 (2-1)-1 | 2.5 | 2.5 | 1.5 | 1.0 | 4.0 | 100.0 | 7.4 | 4.8 | 3.7 | 1.1 | 11.0 | 2.5 |
| 132 HKI 164-D-3-3-2 | 2.0 | 2.0 | 1.5 | 4.0 | 4.0 | 100.0 | 4.8 | 6.1 | 4.2 | 1.8 | 27.2 | 3.0 |
| 133 HKI 164-7-7 ER2 | 3.0 | 2.0 | 2.0 | 3.0 | 4.0 | 100.0 | 6.5 | 4.2 | 5.2 | 1.4 | 12.5 | 5.0 |
| 134 HKI 164-7-6 x 161 | 2.0 | 2.0 | 2.0 | 0.0 | 4.0 | 100.0 | 6.3 | 2.8 | 5.2 | 1.0 | 9.0 | 4.0 |
| 135 HKI 164-7-4 ER-3 | 1.5 | 2.0 | 2.5 | 0.0 | 4.0 | 100.0 | 3.5 | 2.7 | 3.7 | 2.0 | 50.0 | 3.0 |
| 136 HKI 164-7-4 | 2.5 | 2.0 | 3.0 | 1.0 | 3.5 | 100.0 | 4.6 | 8.6 | 5.5 | 2.8 | 33.3 | 2.5 |
| 137 HKI-164-7-4-2 | 1.5 | 2.0 | 2.5 | 4.0 | 4.0 | 100.0 | 4.3 | 2.0 | 6.7 | 1.0 | 11.0 | 5.0 |
| 138 HKI 164-7-2 | 2.0 | 2.5 | 2.0 | 1.0 | 2.5 | 100.0 | 2.5 | 2.7 | 3.0 | 1.0 | 56.0 | 4.0 |
| 139 HKI 164-1-4 | 2.0 | 3.5 | 2.0 | 3.5 | - | 100.0 | 4.3 | 7.0 | 4.3 | 1.8 | 25.0 | 2.5 |
| 140 HKI 164-4-(1-3) | 3.0 | 2.5 | 2.0 | 1.5 | - | 100.0 | 5.1 | 3.9 | 5.2 | 1.1 | 50.0 | 3.5 |
| 141 HKI-164-7-6X161-2 | 2.5 | 2.5 | 2.5 | 0.0 | - | 100.0 | 5.4 | 3.7 | 3.6 | 1.0 | 33.3 | 2.0 |
| 142 HKI 191-1-2-5 | 2.0 | 4.0 | 2.0 | 3.0 | 3.0 | 100.0 | 4.1 | 4.6 | 4.5 | 4.3 | 25.0 | 4.0 |
| 143 HKI 193-2-2 | 3.0 | 2.5 | 2.5 | 4.0 | 3.0 | 100.0 | 3.7 | 2.1 | 3.0 | 3.1 | 14.2 | 3.5 |
| 144 HKI 193-2-2 | 2.5 | 4.0 | 2.0 | 1.0 | 3.0 | 100.0 | 5.7 | 2.6 | 3.4 | 1.0 | 22.2 | 2.0 |
| 145 HKI-193-2-2-4 | 2.0 | 2.0 | 1.0 | 1.0 | 3.0 | 100.0 | 5.2 | 2.6 | 3.1 | 2.4 | 0.0 | 5.0 |
| 146 HKI 193-1 | 3.5 | 3.5 | 1.0 | 1.5 | 3.5 | 8.30 | 6.6 | 4.1 | 3.4 | 1.9 | 50.0 | 2.0 |
| 147 HKI 5072-2 - BT | 3.5 | 4.5 | 2.0 | 0.0 | 4.0 | 100.0 | 5.8 | 3.6 | 4.9 | 1.0 | 0.0 | 4.0 |
| 148 CML 165 | 1.5 | 2.0 | 2.0 | 0.0 | 3.0 | 100.0 | 6.7 | 4.7 | 5.6 | 1.0 | 33.3 | 3.5 |
| 149 CML 165 | 1.5 | 2.0 | 1.0 | 0.0 | 4.5 | 100.0 | 6.0 | 5.2 | 6.2 | 1.0 | 100.0 | 3.5 |
| 150 CML 167 | 2.0 | 2.0 | 1.0 | 0.0 | - | 37.50 | 4.2 | 2.5 | 4.1 | 1.0 | 0.0 | 2.5 |
| 151 CML 171 | 2.0 | 2.0 | 1.0 | 0.0 | 3.0 | 100.0 | 5.9 | 6.0 | 6.3 | 1.3 | 80.0 | 3.5 |
| 152 CML 172 | 3.0 | 3.5 | 1.5 | 1.0 | 4.0 | 100.0 | 4.7 | 3.3 | 4.0 | 1.0 | 75.0 | 3.0 |
| 153 HKI MBR-139 | 2.0 | 2.0 | 2.5 | 1.5 | 4.0 | 100.0 | 3.7 | 3.4 | 3.9 | 1.0 | 12.5 | 2.0 |

Table : 12

| S.No. | Pedigree | MLB | TLB | BSDM | BLSB | DEL | SDM | PFSR | UDP | LUD | DEL | ESR | P. rust |
|-------|-------------------------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|---------|
| | | (1-5) | (1-5) | (1-5) | (1-5) | | (%) | (1-9) | | | | (%) | (1-5) |
| | | LUD | MAND | DHAU | DHAU | | MAND | HYD | | | | DHAU | MAND |
| 154 | HKI-MBR-139-2 | 2.0 | 2.0 | 1.5 | 4.0 | 4.0 | 100.0 | 4.1 | 5.3 | 4.1 | 2.8 | 55.5 | 2.0 |
| 155 | DMR QPM-03-104 | 4.0 | 3.5 | 2.0 | 4.5 | 3.0 | 78.50 | 6.7 | 3.5 | 8.6 | 3.1 | 45.4 | 4.5 |
| 156 | DMRQPM 03-113 | 4.0 | 4.5 | 2.0 | 4.0 | 4.0 | 75.00 | 5.5 | 5 | 4.5 | 3.8 | 57.1 | 2.0 |
| 157 | DMR QPM-03-124 | 2.5 | 4.5 | 2.0 | 2.0 | 4.0 | 92.30 | 6.4 | 3.3 | 7.0 | 2.9 | 33.3 | 2.5 |
| 158 | DMR QPM-58-26 | 3.0 | 5.0 | 2.5 | 2.5 | 4.0 | 100.0 | 6.0 | 3.7 | 4.8 | 2.6 | 32.8 | 3.5 |
| 159 | CML 158 | 2.5 | 4.5 | 1.0 | 1.5 | 5.0 | 100.0 | 3.8 | 2.4 | 4.2 | 1.0 | 44.4 | 4.0 |
| 160 | CML175 | 3.0 | 4.5 | 3.0 | 1.5 | 5.0 | 66.6 | 6.3 | 4.6 | 5.0 | 1.0 | 50.0 | 4.5 |
| 161 | CL-QRCYQ47 | 2.0 | 3.5 | 2.0 | 1.0 | 3.0 | 100.0 | 6.1 | 2.3 | 6.2 | 1.0 | 12.5 | 2.5 |
| 162 | CLQRCYQ-47-B | 2.0 | 3.0 | 2.0 | 1.5 | - | 100.0 | 7.2 | 3.9 | 6.0 | 1.0 | 0.0 | 2.5 |
| 163 | CLQ-RCYQ30 | 2.5 | 2.5 | 2.0 | 2.0 | 4.0 | 100.0 | 5.8 | 3.5 | 6.4 | 1.0 | 21.4 | 2.0 |
| 164 | CLQ-RCYQ36 | 1.5 | 2.5 | 2.0 | 1.0 | - | 100.0 | 7.1 | 4.8 | 5.7 | 2.1 | 100.0 | 3.0 |
| 165 | CLQ-RCYQ41 | 1.5 | 2.0 | 2.0 | 0.0 | 4.5 | 100.0 | 6.5 | 3.2 | 3.7 | 2.6 | 100.0 | 2.0 |
| 166 | CLQ-RCYQ40 | 1.5 | 3.0 | 2.5 | 1.5 | 4.0 | 100.0 | 4.3 | 2.7 | 3.3 | 2.0 | 8.3 | 3.5 |
| 167 | CML 451Q | 2.0 | 2.0 | 2.0 | 1.0 | 2.5 | 100.0 | 7.3 | 1.8 | 5.0 | 1.8 | 41.6 | 3.0 |
| 168 | DMRQPM 58 | 2.5 | 4.0 | 2.0 | 1.0 | 5.0 | 100.0 | 5.3 | 3.2 | 4.6 | 1.9 | 36.3 | 5.0 |
| 169 | DMRQPM 58 | 4.0 | 4.5 | 2.0 | 1.5 | 4.0 | 100.0 | 6.5 | 3 | 4.5 | 2.0 | 83.3 | 3.0 |
| 170 | HIGH OIL POPULATION II | 2.0 | 2.5 | 2.5 | 1.0 | 3.5 | 100.0 | 6.8 | 5 | 4.4 | 1.8 | 33.3 | 3.0 |
| 171 | HIGH OIL POPULATION II | 2.0 | 2.5 | 2.5 | 4.0 | - | 100.0 | 7.4 | 5.4 | 4.2 | 1.0 | 69.0 | 2.0 |
| 172 | HIGH OIL POPULATION II | 2.0 | 4.5 | 2.0 | 3.0 | 4.0 | 100.0 | 6.5 | 4.8 | 4.7 | 1.0 | 62.5 | 2.5 |
| 173 | HIGH OIL POPULATION II | 2.0 | 3.5 | 2.0 | 1.0 | 4.5 | 100.0 | 6.1 | 4.5 | 5.2 | 1.9 | 85.7 | 3.5 |
| 174 | HIGH OIL POPULATION II | 2.0 | 4.0 | 2.0 | 1.0 | 5.0 | 100.0 | 6.2 | * | 5.0 | 2.3 | 100.0 | 2.5 |
| 175 | HKI 3322 | 2.5 | 5.0 | 1.5 | 0.0 | 4.0 | 100.0 | 5.5 | 4.1 | 5.8 | 1.0 | 66.6 | 3.5 |
| 176 | HKI Tall 1-2-F | 3.5 | 3.0 | 1.5 | 4.0 | 5.0 | 100.0 | 2.1 | 5.4 | 3.5 | 2.0 | 33.3 | 5.0 |
| 177 | HKI Tall-8-1-1 | 2.5 | 2.0 | 1.0 | 2.0 | 4.5 | 100.0 | 4.9 | 5.9 | 2.5 | 3.4 | 100.0 | 4.5 |
| 178 | SHD-1 ER6 | 4.0 | 4.0 | 1.0 | 1.0 | 4.0 | 100.0 | 4.3 | 5.0 | 4.0 | 2.5 | 0.0 | 2.0 |
| 179 | DMHOC 4 | 4.0 | 5.0 | 2.0 | 1.0 | 4.0 | 100.0 | 4.6 | 5.0 | 5.0 | 1.0 | 25.0 | 4.5 |
| 180 | Temp.HOC15 | 4.5 | 5.0 | 2.0 | 1.5 | 4.5 | 100.0 | 5.3 | 5.4 | 5.8 | 6.1 | 44.4 | 4.5 |
| 181 | 02POOL 33 C24 | 4.0 | 5.0 | 2.5 | 1.0 | 4.0 | 100.0 | 5.3 | 6.9 | 4.8 | 2.6 | 12.5 | 4.5 |
| 182 | POBLAC 61 C3 | 2.0 | 2.5 | 2.0 | 1.0 | 4.0 | 100.0 | 4.8 | 5.9 | 3.5 | 1.0 | 80.0 | 2.5 |
| 183 | Temp. Trop High oil QPM | 3.5 | 5.0 | 3.0 | 1.0 | 4.5 | 100.0 | 3.1 | 3.9 | 3.5 | 2.3 | 71.4 | 4.5 |
| 184 | PFSR - R2 | 3.5 | 2.5 | 1.5 | 1.0 | 3.5 | 100.0 | 2.9 | 4.7 | 4.7 | 1.0 | 50.0 | 2.5 |

*Only two seed germinated

Table : 12

| S.No. | Pedigree | MLB | TLB | BSDM | BLSB | DEL | SDM | PFSR | UDP | LUD | DEL | ESR | P. rust |
|-------|--|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|------|---------|
| | | (1-5) | (1-5) | (1-5) | (1-5) | | (%) | (1-9) | | | | (%) | (1-5) |
| | | LUD | MAND | DHAU | DHAU | | MAND | HYD | | | | DHAU | MAND |
| 185 | PFSR - R3 | 2.0 | 2.5 | 1.0 | 2.0 | 3.5 | 72.70 | 2.4 | 3.7 | 4.2 | 2.6 | 0.0 | 3.0 |
| 186 | PFSR - R9 | 2.0 | 2.0 | 1.0 | 1.0 | 2.5 | 75.00 | 2.8 | 3.8 | 3.5 | 1.0 | 0.0 | 4.5 |
| 187 | PFSR - R10 | 3.0 | 2.5 | 2.5 | 1.0 | 3.0 | 100.0 | 3.1 | 3.2 | 3.7 | 2.8 | 33.3 | 4.5 |
| 188 | PFSR - R10 | 3.5 | 2.0 | 3.0 | 1.5 | 3.0 | 100.0 | 3.9 | 4.1 | 3.6 | 1.0 | 68.7 | 4.5 |
| 189 | PFSR - S2 | 2.5 | 2.0 | 3.0 | 0.0 | 3.0 | 91.60 | 3.8 | 4.7 | 4.1 | 1.8 | 12.5 | 4.5 |
| 190 | PFSR - S3 | 2.0 | 2.0 | 1.0 | 0.0 | 3.0 | 84.60 | 2.3 | 2.6 | 4.0 | 1.0 | 0.0 | 4.5 |
| 191 | PFSR - S3 | 2.0 | 2.5 | 1.5 | 2.5 | 3.5 | 84.60 | 3.1 | 3 | 3.4 | 4.4 | 0.0 | 3.0 |
| 192 | CM-117-3-2-1-1-1-1-3 | 4.5 | 4.0 | 1.0 | 1.0 | 3.5 | 27.20 | 3.7 | 2.7 | 4.8 | 2.0 | 81.8 | 2.0 |
| 193 | SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2 | 2.0 | 4.0 | 1.5 | 0.0 | 2.5 | 80.00 | 4.7 | 4.9 | 3.3 | 1.8 | 71.4 | 2.5 |
| 194 | JCY2-1-2-1-1B-1-2-3-1-1-1 | 1.5 | 2.5 | 2.0 | 1.5 | 2.5 | 45.40 | 2.9 | 3.2 | 4.0 | 1.0 | 0.0 | 4.0 |
| 195 | JCY2-7-1-2-1-B-1-2-1-1 | 1.5 | 2.0 | 2.0 | 2.0 | 3.0 | 83.30 | 2.6 | 3.2 | 3.7 | 1.0 | 18.1 | 4.5 |
| 196 | JCY3-7-1-2-1-'B-1-1-4-1 | 2.0 | 3.0 | 1.0 | 1.0 | 2.5 | 100.0 | 2.8 | 4.1 | 3.3 | 1.0 | 10.0 | 4.5 |
| | Tank Local (check) | - | - | - | - | - | - | - | 3.2 | - | - | - | - |
| SC | CM-500 | - | - | - | - | - | 100.0 | - | - | - | - | - | - |
| RC | NAC-6004 | - | - | - | - | - | 16.50 | - | - | - | - | - | - |

Table : 13

Evaluation of Maize Genotypes against PFSR at Delhi, Ludhiana, Hyderabad and Udaipur during Kharif 2009.

| S.No. | Pedigree | PFSR | | | |
|-------|---|--------------|-----|-----|-----|
| | | (1-9) UDP | HYD | LUD | DEL |
| 1 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-1-1 | 4.0 | 3.8 | 4.7 | 3.5 |
| 2 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-2 | 3.6 | 5.2 | 3.3 | 5.2 |
| 3 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-1 | 3.2 | 3.4 | 3.6 | 3.1 |
| 4 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-2 | 3.0 | 5.3 | 5.3 | 3.1 |
| 5 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-3 | 3.5 | 3.8 | 5.7 | 1.0 |
| 6 | CM-117-3-2-1-1-1-1-2-1 | 5.3 | 4.5 | 4.5 | 4.3 |
| 7 | CM-117-3-2-1-1-1-1-2-2 | 5.0 | 2.8 | 5.7 | 1.0 |
| 8 | CM-117-3-2-1-1-1-1-5-1 | 4.3 | 4.3 | 5.0 | 3.3 |
| 9 | JCY2-2-4-1-1-1-3-1-3-1-2-1 | 5.0 | 2.9 | 4.6 | 4.3 |
| 10 | JCY3-7-1-2-1-'b-1-1-2-6-1 | 4.2 | 5.6 | 6.3 | 3.6 |
| 11 | JCY3-7-1-2-1-'b-1-1-2-3-1 | 5.8 | 4.5 | 3.7 | 2.9 |
| 12 | JCY3-7-1-2-1-'b-1-1-2-3-2 | 4.5 | 6.2 | 4.3 | 3.5 |
| 13 | CM-117-3-2-1-1-1-2-2-1 | 5.0 | 6.0 | 4.2 | 2.4 |
| 14 | JCY3-7-1-2-1-'b-1-1-2-5-1 | 2.6 | 3.0 | 6.7 | 5.3 |
| 15 | JCY3-7-1-2-1-'b-1-1-2-5-2 | 5.7 | 5.1 | 6.5 | 3.7 |
| 16 | JCY3-7-1-2-1-'b-1-1-2-5-3 | 4.7 | 2.8 | 4.5 | 4.0 |
| 17 | JCY3-7-1-2-1-'b-2-3-2-2-1 | 2.7 | 2.6 | 9.0 | 2.1 |
| 18 | JCY3-7-1-2-1-'b-2-3-2-2-2 | 4.9 | 3.6 | 5.0 | 3.8 |
| 19 | JCY3-7-1-2-1-'b-2-3-2-3-1 | 5.2 | 3.0 | 5.7 | 3.4 |
| 20 | JCY3-7-1-2-1-'b-6-1-1-1-1 | 2.9 | 2.8 | 4.2 | 3.1 |
| 21 | JCY2-1-1-'b-1-1-1-3-1 | 2.5 | 6.7 | 6.0 | - |
| 22 | JCY2-1-1-'b-1-1-1-3-2 | 3.0 | 4.0 | 6.8 | 2.0 |
| 23 | KTx3752F2-7-1-1-1-B-B-B-1-1-2-1-1-1-1-1-1 | 4.1 | 6.7 | 5.1 | 1.9 |
| 24 | CM-117-3-4-1-1-1 | 4.6 | 3.9 | 4.5 | 1.0 |
| 25 | CM-117-3-4-1-1-2 | 2.7 | 3.1 | 5.7 | 2.5 |
| 26 | CM-117-3-4-1-1-3 | 2.8 | 4.0 | 4.9 | 1.0 |
| 27 | CM-117-3-4-1-1-4 | 2.7 | 2.9 | 5.6 | 2.2 |
| 28 | CM-117-3-4-1-2-1 | 3.5 | 2.9 | 5.4 | 2.8 |
| 29 | CM-117-3-4-1-2-2 | 2.7 | 3.4 | 6.5 | 2.1 |
| 30 | CM-117-3-4-1-2-3 | 3.2 | 2.8 | 5.6 | 3.5 |
| 31 | CM-117-3-4-1-2-4 | 3.7 | 3.6 | 4.1 | 3.8 |
| 32 | CM-117-3-4-1-2-5 | 3.9 | 4.0 | 4.4 | 3.3 |
| 33 | JCY3-7-1-2-1-'b-2-3-2-1-1 | 5.0 | 5.9 | 4.0 | 4.3 |
| 34 | JCY3-7-1-2-1-'b-2-3-2-1-2 | 5.2 | 5.0 | 5.4 | 3.6 |
| 35 | JCY3-7-1-2-1-'b-2-3-2-1-3 | 5.2 | 7.0 | 5.0 | 3.2 |
| 36 | CM-117-3-4-1-5-1 | 4.8 | 4.0 | 4.4 | 2.6 |
| 37 | 42048-2-1-3-1-1 | 5.3 | 5.8 | 5.7 | 3.7 |
| 38 | 42048-2-2-1-1-1 | 4.1 | 2.7 | 4.1 | 1.8 |
| 39 | 42048-2-2-1-1-2 | 4.1 | 2.8 | 3.3 | 1.8 |
| 40 | 42048-2-2-1-1-3 | 5.1 | 4.0 | 3.0 | 1.9 |
| 41 | 42049-3-3-1-3-1 | 4.5 | 3.1 | 4.8 | 1.8 |
| 42 | 42049-3-3-1-3-2 | 4.2 | 2.6 | 4.4 | 1.7 |
| 43 | 42049-3-3-1-3-3 | 5.2 | 5.1 | 4.7 | 1.3 |
| 44 | 42050-1-1-1-1 | 5.2 | 3.6 | 3.7 | 1.2 |
| 45 | 42050-1-1-1-2 | 5.4 | 4.9 | 3.8 | 2.3 |
| 46 | 42050-1-1-1-3 | 5.1 | 6.1 | 3.8 | 1.6 |
| 47 | 42050-1-1-2-1 | 4.1 | 3.6 | 3.7 | 1.3 |
| 48 | 42050-1-1-2-2 | 5.0 | 4.3 | 3.8 | 2.4 |
| 49 | 42050-1-1-2-3 | 4.9 | 2.9 | 3.5 | 2.0 |

Table : 13

| S.No. | Pedigree | PFSR | HYD | LUD | DEL |
|-------|---|--------------|-----|-----|-----|
| | | (1-9) UDP | | | |
| 50 | PFSR-8-2-2-1-1-1-1 | 5.5 | 3.9 | 3.5 | 1.6 |
| 51 | PFSR-8-2-2-1-1-1-2 | 4.2 | 3.0 | 4.3 | 2.3 |
| 52 | PFSR-8-2-2-1-1-1-3 | 4.2 | 3.1 | 3.9 | 2.3 |
| 53 | PFSR-8-2-2-1-1-1-4 | 4.8 | 5.0 | 4.1 | 2.3 |
| 54 | PFSR-8-2-2-1-1-1-5 | 5.2 | 4.4 | 3.6 | 2.7 |
| 55 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-3-1-2-1-2-1 | 5.9 | 6.1 | 3.0 | 1.4 |
| 56 | SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-3-1-2-1-1-2 | 7.0 | 5.8 | 3.6 | 2.3 |
| 57 | JCY3-7-1-2-2-1-3-1-1-2-1-1 | 6.6 | 6.0 | 4.8 | 3.0 |
| 58 | JCY3-7-1-2-2-1-3-1-1-2-1-2 | 6.0 | 5.9 | 4.0 | 1.8 |
| 59 | JCY3-7-1-2-2-1-3-1-1-2-2-1 | 6.7 | 5.8 | 4.8 | 1.9 |
| 60 | JCY3-7-1-2-2-1-3-1-1-2-3-1 | 4.9 | 7.2 | 4.4 | 2.0 |
| 61 | JCY3-7-1-2-2-1-3-1-1-2-4-1 | 4.7 | 5.3 | 4.1 | 1.4 |
| 62 | JCY3-7-1-2-2-1-3-1-1-2-6-1 | 5.2 | 6.4 | 3.0 | 1.0 |
| 63 | JCY3-7-1-2-2-1-3-1-1-2-6-2 | 3.6 | 4.9 | 5.2 | 1.5 |
| 64 | JCY3-7-1-2-2-1-3-1-1-2-8-1 | 4.0 | 6.4 | 6.5 | 1.3 |
| 65 | JCY3-7-1-2-2-1-3-1-1-2-9-1 | 5.1 | 6.1 | 5.4 | 1.9 |
| 66 | JCY3-7-1-2-2-1-3-1-1-2-9-2 | 6.3 | 6.5 | 4.2 | 1.0 |
| 67 | JCY3-7-1-2-2-1-3-2-2-1-1 | 6.6 | 7.5 | 4.8 | 1.4 |
| 68 | JCY3-7-1-2-2-1-3-2-2-1-2 | 5.0 | 7.3 | 3.6 | 1.0 |
| 69 | JCY3-7-1-2-1-'b-1-4-4-2-1 | 5.5 | 6.5 | 3.9 | 2.0 |
| 70 | JCY3-7-1-2-1-'b-1-4-4-2-2 | 4.3 | 5.1 | 3.8 | 1.0 |
| 71 | JCY3-7-1-2-1-'b-1-1-2-2-1 | 2.8 | 5.3 | 4.7 | 1.5 |
| 72 | CM-123-1-1-3-2-1-1 | 3.9 | 6.0 | 5.0 | 1.0 |
| 73 | JCY3-7-1-2-2-1-3-1-1-2-7-1-1 | 6.4 | 6.2 | 5.3 | 1.4 |
| 74 | JCY3-7-1-2-2-1-3-1-1-2-7-1-2 | 6.2 | 5.6 | 4.3 | 1.0 |

Table : 14

Evaluation of Maize Inbred Lines against TLB & Polysora rust at Mandya in Kharif 2009

| S.NO | Pedigree | TLB (1-5) | P. rust (1-5) |
|------|----------------------------|--------------|------------------|
| 1 | NAI - 104 - x - 2008K | 2.0 | 3.0 |
| 2 | NAI - 125 - x - 2008K | 2.5 | 2.0 |
| 3 | NAI - 126 - # - 2008K | 2.0 | 2.0 |
| 4 | NAI - 142 - # - 2008K | 2.0 | 2.0 |
| 5 | SKV - 6(L) - # - 2008K | 2.0 | 2.0 |
| 6 | SKV - 11 - # - 2008K | 2.5 | 2.0 |
| 7 | SKV - 13 - x - 2008K | 2.0 | 2.0 |
| 8 | SKV - 19 - x - 2008K | 2.5 | 2.0 |
| 9 | HI - 55 - x - 2008K | 2.0 | 2.5 |
| 10 | CML - 247 - x - 2008K | 2.0 | 1.5 |
| 11 | NAI - 102 - # - 2008K | 2.5 | 2.0 |
| 12 | NAI - 113 - # - 2008K | 2.0 | 2.0 |
| 13 | NAI - 117 - # - 2008K | 2.0 | 2.0 |
| 14 | NAI - 123 - # - 2008K | 2.0 | 2.0 |
| 15 | NAI - 137 - # - 2008K | 2.5 | 2.0 |
| 16 | NAI - 149 - x - 2008K | 2.0 | 2.0 |
| 17 | NAI - 151 - x - 2008K | 2.0 | 2.5 |
| 18 | NAI - 152 - x - 2008K | 2.5 | 2.0 |
| 19 | NAI - 154 - x - 2008K | 3.5 | 2.0 |
| 20 | NAI - 155 - x - 2008K | 2.0 | 2.0 |
| 21 | NAI - 161 - x - 2008K | 2.0 | 2.0 |
| 22 | NAI - 162 - x - 2008K | 2.0 | 2.0 |
| 23 | NAI - 163 - x - NA - 2008K | 2.0 | 3.0 |
| 24 | NAI - 165 - # - NA - 2008K | 2.0 | 2.0 |
| 25 | NAI - 167 - # - NA - 2008K | 2.0 | 2.0 |
| 26 | SKV - 9 - x - NA - 2008K | 3.0 | 2.0 |
| 27 | SKV - 14 - # - NA - 2008K | 2.0 | 2.0 |
| 28 | SKV - 18 - # - NA - 2008K | 2.0 | 4.0 |
| 29 | SKV - 24 - # - NA - 2008K | 2.0 | 2.0 |
| 30 | SKV - 30 - # - NA - 2008K | 3.0 | 2.0 |
| 31 | SKV - 47 - # - NA - 2008K | 2.0 | 2.0 |
| 32 | MAI - 112 - # - NA - 2008K | 2.0 | 2.0 |
| 33 | KUI- 1411 - # - NA - 2008K | 2.0 | 2.5 |

Table : 15

Evaluation of maize genotype (Breeders seed) against RDM, PFSR, CLS, Cyst Nematod at Udaipur Kharif 2009

| S.No | Pedigree | RDM (%) | PFSR (1-9) | CLS (1-5) | Cyst/ plant (n=5) |
|------|------------------------|---------|------------|-----------|-------------------|
| 1 | EH-1858 | 57.9 | 3.4 | 4.0 | 21-28 |
| 2 | EH-2025 | 45.8 | 3.1 | 4.0 | 13-19 |
| 3 | EH-1877 | 64.0 | 4.0 | 4.5 | 4--8 |
| 4 | ECQ-3152 | 50.0 | 3.4 | 3.5 | 14-21 |
| 5 | EH-1986 | 41.7 | 5.2 | 3.0 | 29-37 |
| 6 | EH-1971 | 61.9 | 3.7 | 3.5 | 21-30 |
| 7 | EH-1974 | 20.8 | 3.6 | 3.0 | 20-27 |
| 8 | Pratap Makka-3 | 66.7 | 4.5 | 4.5 | 38-42 |
| 9 | Pratap Makka-5 | 59.1 | 4.7 | 3.5 | 33-45 |
| 10 | Navjot | 52.9 | 5.0 | 3.0 | 28-36 |
| 11 | Bio-9637 | 0.0 | 2.9 | 2.5 | 14-22 |
| 12 | Maloiya Hybrid-2 | 75.0 | 4.1 | 4.0 | 35-41 |
| 13 | PEHM-2 | 83.3 | 3.4 | 3.5 | 36-44 |
| 14 | Pratap Hibrid Maize-1 | 76.2 | 3.1 | 4.5 | 21-28 |
| 15 | Pratap Hibrid Maize-2 | 91.3 | 3.0 | 3.0 | 14-23 |
| 16 | EI-116 | 73.9 | 4.4 | 4.5 | 21-32 |
| 17 | EI-364 | 47.4 | 2.2 | 4.0 | 25-31 |
| 18 | HQPM-1 | 64.0 | 2.6 | 3.5 | 3--9 |
| 19 | EC-3160 | 52.2 | 2.8 | 4.0 | 44-52 |
| 20 | LM-10-WN-1-1-01 | 0.0 | 2.0 | 2.0 | 28-37 |
| 21 | DMR-WN-8-01 | 71.4 | 4.1 | 2.0 | 27-34 |
| 22 | CML373-2-1-01 | 45.8 | 3.4 | 3.0 | 38-46 |
| 23 | C-431-1-1-1-2-1 | 100.0 | 2.9 | 4.0 | 23-32 |
| 24 | CML-421y-2-1-1-04 | 33.3 | * | * | 15-22 |
| 25 | EI-497-15-1-1 | 47.6 | 2.9 | 4.0 | 24-35 |
| 26 | EI-586-1-1-1 | 10.0 | 3.0 | 2.5 | 10--18 |
| 27 | EI-466-11-1W-01 | 84.0 | 3.4 | 3.5 | 21-26 |
| 28 | EI-495-2-2-1-1 | 63.1 | 3.7 | 3.5 | 28-36 |
| 29 | EI-586-7-5-01/02 | 30.0 | 3.0 | 3.0 | 24-32 |
| 30 | EI-582-1-01/2-01 | 15.0 | 3.6 | 2.0 | 15-23 |
| 31 | EI-561-2-2-01 | 8.0 | 1.7 | 1.5 | 21-28 |
| 32 | EI-561-1-2-1-02 | 53.3 | 3.3 | 2.0 | 13-20 |
| 33 | EI-460-5-02 | 92.0 | 3.2 | 2.5 | 27-32 |
| 34 | H06R-6136-64-1-01A | 56.0 | 3.6 | 3.5 | 33-40 |
| 35 | H06R-3136-68-1-2-01/02 | 0.0 | 1.2 | 2.5 | 25-33 |
| 36 | NP06-07R-73-02-3-02A | 80.0 | 2.9 | 3.5 | 37-46 |
| 37 | NP06-07R-74-3-1-01A | 91.7 | 3.4 | 4.5 | 50-63 |
| 38 | NP06-07R-77-2-4-01A | 81.2 | 3.3 | 4.5 | 43-51 |
| 39 | JCY3-7-1-2-2-02A/03A | 0.0 | 2.0 | 2.5 | 35-44 |
| 40 | JCY3-7-1-2-1-6-02 | 21.7 | 2.9 | 3.0 | 32-41 |
| 41 | Local(W) | 44.0 | 3.7 | 3.5 | - |
| 42 | Surya | 79.2 | - | - | - |
| 43 | PEHM -2 | - | - | - | 40-47 |

* No Germination

Table : 16

Seed of selfed inbreds received from DMR (2007) against PFSR at Maize Pathology Unit Udaipur centre again screened in 2009

| S. No. | Pedigree | PFSR | RDM | |
|--------|-----------------|----------------------|-------------|--------------------|
| | | (1-9) UDP 2007 | UDP 2009 | (%) UDP 2009 |
| 1. | Gen 6014-5 | 2.0 | 4.3 | 73.3 |
| 2. | HKI-3-4-8-5ER-1 | 3.0 | 4.3 | 57.1 |
| 3. | HKI-287-4 | 3.0 | - | 0.00 |
| 4. | HKI-323-8-1 | 2.0 | - | 100.0 |
| 5. | HKI-327T-1 | 3.0 | - | 70.0 |
| 6. | HKI-488-5 | 3.0 | - | 45.4 |
| 7. | HKI-536-7 | 2.0 | 3.4 | 0.00 |
| 8. | HKI-586-1 | 1.0 | - | 80.0 |
| 9. | HKI-1015-WG-8-1 | 3.0 | - | 81.8 |
| 10. | HKI-1025-1 | 3.0 | 3.4 | 58.8 |
| 11. | HKI-1040-4-2 | 3.0 | 1.4 | 46.1 |
| 12. | HKI-1040-5-2 | 2.0 | 3.0 | 23.4 |
| 13. | HKI-1040-11-7 | 3.0 | 4.5 | 83.3 |
| 14. | HKI-1532-2 | 2.0 | 2.8 | 0.00 |
| 15. | LM-13-3 | 2.0 | 2.5 | 0.00 |
| 16. | LTP-1-1 | 3.0 | - | 75.0 |
| 17. | HVZM-371-2 | 2.0 | 2.4 | 0.00 |
| 18. | LM-6-3 | 2.0 | 2.4 | 25.0 |
| 19. | LM-14-2 | 2.0 | - | - |
| 20. | P-7421-1 | 2.0 | 3.3 | 0.00 |
| 21. | HKI-1342-6 | 2.0 | - | 0.00 |
| 22. | HKI-C 323-3 | 3.0 | 2.0 | 21.4 |
| 23. | CML-269-5 | 3.0 | 3.2 | 0.00 |
| 24. | CML-140-3 | 3.0 | 2.4 | 0.00 |
| 25. | CML-395-3 | 3.0 | - | 0.00 |
| 26. | DMSC-1-1 | 3.0 | 3.3 | 0.00 |
| 27. | DMSC-2-3 | 3.0 | 3.9 | 8.30 |
| 28. | DMSC-4-1 | 1.0 | 2.7 | 11.1 |
| 29. | DMSC-5-5 | 3.0 | - | 15.4 |
| 30. | DMSC-6-1 | 3.0 | - | 11.1 |
| 31. | DMSC-7-4 | 3.0 | - | 17.7 |
| 32. | DMSC-8-2 | 3.0 | 3.5 | 25.0 |
| 33. | DMSC-16-2 | 3.0 | 3.2 | 14.3 |
| 34. | HKI-1827W-1-1 | 3.0 | - | 0.00 |
| 35. | DMSC-19-2 | 3.0 | - | 0.00 |
| 36. | DMSC-20-1 | 2.0 | - | 71.4 |
| 37. | DMSC-22-3 | 1.0 | 2.8 | 0.00 |
| 38. | DMSC-23-2 | 3.0 | - | - |
| 39. | DMSC-26-1 | 2.0 | - | - |
| 40. | DMSC-27-2 | 2.0 | - | - |
| 41. | DMSC-29-3 | 2.0 | - | - |
| 42. | DMSC-33-3 | 3.0 | - | - |
| 43. | DMSC-36-1 | 3.0 | 2.7 | 7.70 |
| 44. | DMSC-37-3 | 2.0 | - | - |
| 45. | WINPOP-21-5 | 3.0 | 6.3 | 13.3 |
| 46. | WINPOP-47-6 | 1.0 | 2.1 | 46.8 |

Table : 16

| S. No. | Pedigree | PFSR | | RDM |
|--------|---------------------------|----------------------|-------------|--------------------|
| | | (1-9) UDP 2007 | UDP 2009 | (%) UDP 2009 |
| 47. | HKI-PC-4B-1 | 1.0 | - | 41.7 |
| 48. | HKI-PC-8-2 | 3.0 | 3.2 | 0.00 |
| 49. | HKI-PC-5-8 | 2.0 | 2.7 | 26.7 |
| 50. | HKI-PC-8-2 | 3.0 | - | 12.5 |
| 51. | WINPOP-20-1 | 3.0 | 2.9 | 8.30 |
| 52. | HKI-Talar-1 | 2.0 | 3.6 | 13.3 |
| 53. | DMHOC-1-4 | 2.0 | 2.8 | 6.70 |
| 54. | DMHOC-4-5 | 3.0 | - | - |
| 55. | SHD-1ER6-1 | 1.0 | - | - |
| 56. | HOPII-5 | 3.0 | 2.3 | 0.00 |
| 57. | DMHOC-9-3 | 2.0 | 2.2 | 0.00 |
| 58. | DMHOC-14-1 | 2.0 | 2.8 | 7.70 |
| 59. | DMHOC-15-3 | 3.0 | 5.0 | 15.4 |
| 60. | Sukhothai-1-waxy-1-1 | 3.0 | 5.6 | 0.00 |
| 61. | ae-40-2 | 2.0 | 4.4 | 13.3 |
| 62. | Ent-2-3 | 3.0 | 2.8 | 6.70 |
| 63. | WinPink L63-1 | 3.0 | 5.3 | 0.00 |
| 64. | JCY3-7-1-2-1-`b-2-1-2-1-1 | 3.0 | 1.8 | 15.4 |
| 65. | JCY3-7-1-2-1-`b-2-1-3-1-1 | 2.0 | 1.3 | 0.00 |
| 66. | JCY3-7-1-2-1-`b-6-1-2-1-1 | 2.0 | 2.6 | 0.00 |
| 67. | CML 31 POB 27 C5 HC-117-1 | 3.0 | 3.0 | 7.40 |
| 68. | ESM-11-3 | 3.0 | 5.0 | 15.4 |
| 69. | HKI 26-2-4-(1-2)-4 | 2.0 | 3.3 | 15.4 |
| 70. | HKI-164-4-(1-3)-1 | 2.0 | 2.6 | 0.00 |
| 71. | HKI-164-7-7 ER4-1 | 2.0 | 2.8 | 33.3 |
| 72. | DMRQPM-60-3 | 3.0 | 5.5 | 13.3 |
| 73. | DMRQPM-58-1 | 2.0 | 3.2 | 0.00 |
| 74. | HKI-34(1+2)-1-1 | 3.0 | 4.2 | 0.00 |
| 75. | HKI-162-2 | 2.0 | 3.8 | 80.0 |
| 76. | HKI-164-4-(1-3)-2-1 | 3.0 | 3.7 | 9.10 |
| 77. | HKI-164-7-4-2 | 1.0 | 1.9 | 0.00 |
| 78. | HKI-164-7-6 x 161-2 | 3.0 | 4.2 | 6.70 |
| 79. | HKI-164-D-4-O-3 | 1.0 | - | - |
| 80. | HKI-191-1-2-5-3 | 2.0 | 1.6 | 0.00 |
| 81. | HKI-193-1-3 | 3.0 | 2.2 | 0.00 |
| 82. | HKI-193-2-2-4 | 2.0 | 1.8 | 0.00 |
| 83. | CML-161-1 | 2.0 | - | - |
| 84. | [CL-G2501 ` CML170]-3 | 3.0 | 2.8 | 0.00 |
| 85. | [CML-161 ` CML-451]-1 | 2.0 | 2.2 | 40.0 |
| 86. | [CML-161 ` CML-451]-1 | 3.0 | 2.5 | 40.0 |
| 87. | HKI-164-4(1-3)-2-2 | 3.0 | - | 8.30 |
| 88. | CML-451(P2)-3 | 2.0 | - | 20.0 |
| 89. | (CML-150 x CL-03618)-3 | 3.0 | - | - |
| 90. | HKI MBR-139-2 | 1.0 | 3.0 | 6.70 |
| 91. | CML-150-2 | 2.0 | - | 16.7 |
| 92. | CML-175-3 | 1.0 | 3.9 | 9.10 |
| 93. | CML-176-2 | 3.0 | 4.0 | 0.00 |
| 94. | CML-157-1 | 3.0 | - | - |
| 95. | WINPOP-26-3 | 2.0 | 3.4 | 40.00 |

Table: 17 Assessment of yield loss due to FSR caused by *Fusarium moniliforme* under artificial inoculation condition in the experimental field during Kharif 2009 at Udaipur.

| Protected (Kharif-09) | | | | | | Unprotected (Kharif-09) | | |
|-----------------------|--------------|----------------------------|----------------|------------------|--------------|-------------------------|----------------------------|----------------|
| | Disease data | Yield of 5 rows in Kg/plot | Yield in Kg/ha | Loss in yield Kg | Percent loss | Disease data | Yield of 5 rows in Kg/plot | Yield in Kg/ha |
| R-1 | 3.5 | 1.900 | 2111.10 | 722.20 | 34.20 | 5.6 | 1.250 | 1388.90 |
| R-2 | 2.5 | 2.000 | 2222.20 | 555.50 | 25.00 | 6.5 | 1.500 | 1666.70 |
| R-3 | 3.3 | 2.250 | 2500.00 | 1222.20 | 48.88 | 4.8 | 1.150 | 1277.80 |
| R-4 | 2.4 | 1.800 | 2000.00 | 916.70 | 45.83 | 5.5 | 0.975 | 1083.30 |
| R-5 | 3.0 | 1.975 | 2194.40 | 638.80 | 29.12 | 6.8 | 1.400 | 1555.60 |
| R-6 | 2.7 | 1.675 | 1861.10 | 722.20 | 38.80 | 6.5 | 1.025 | 1138.90 |
| R-7 | 1.8 | 2.050 | 2277.80 | 472.20 | 18.54 | 5.5 | 1.625 | 1805.60 |
| R-8 | 2.5 | 1.950 | 2166.70 | 805.60 | 37.18 | 4.8 | 1.225 | 1361.10 |
| R-9 | 2.5 | 1.750 | 1944.40 | 944.40 | 48.57 | 5.9 | 0.900 | 1000.00 |
| | | Mean | 2141.97 | | | | Mean | 1364.20 |
| | | | | | | | S.D.(Pooled) | 0.113 |
| | | | | | | | T- value | 2.262 |
| | | | | | | | Significant at 5% = yes | |

Table: 18 Loss assessment due to maize leaf blight caused by *Exserohilum turcicum* in different genotypes at Arabhavi.

| S.No | Hybrid | Disease grade (1-5 scale) | Plant ht. (cm) | Cob ht. (cm) | Cob length (cm) | Cob diameter (cm) | 100 seed wt (g) | grain yield (q/ha) | Percent loss in yield |
|------|--------------------------|---------------------------|----------------|--------------|-----------------|-------------------|-----------------|--------------------|-----------------------|
| 1 | DMH-2 | 2.0 | 178.87 | 87.67 | 13.03 | 13.84 | 36.33 | 67.81 | 22.6 |
| | Protected | | | | | | | | |
| | Un Protected | 3.8 | 170 | 87.67 | 13.00 | 13.25 | 31.33 | 52.47 | |
| 2 | EH 434042 (Arjun) | 1.5 | 181 | 83.33 | 14.06 | 13.18 | 41.33 | 60.30 | 7.84 |
| | Protected | | | | | | | | |
| | Un protected | 2.8 | 173 | 80.66 | 12.77 | 13.25 | 34.66 | 55.57 | |
| 3 | Bio 9681 | 2.2 | 162 | 63.67 | 13.66 | 13.07 | 37.33 | 50.87 | 16.55 |
| | Protected | | | | | | | | |
| | Un protected | 4.2 | 153 | 57.66 | 13.00 | 12.57 | 27.66 | 42.42 | |

Table: 19 Assessment of yield losses due to PFSR at Hyderabad Centre *Kharif*, 2009.

Test variety : 30V92
Treatment : Two

Design : Paired plot
No. of Replications : Nine

Net plot size : 3x3m (5 Rows)

| Treatment | PFSR grade (1-9 Scale) | Percent disease control | Average yield (kg/plot) | Percent loss in yield |
|-------------|------------------------|-------------------------|-------------------------|-----------------------|
| Protected | 4.45 | 35.41 | 8.45 | 20.11 |
| Unprotected | 6.89 | | 6.75 | |

Survey and Surveillance 2009

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Himachal Pradesh, Karnataka and Tamil Nadu.

In Rajasthan state, a total of 109 fields from 30 places were visited. Most of the major diseases can be seen during the season. During Kharif-09, surveys were conducted in different parts and directions to know the prevalence of the diseases with their intensity. The diseases which were noticed like Rajasthan Downy Mildew (RDM, *Peronosclerospora heteropogoni*), Maydis Leaf Blight (MLB – *Bipolaris maydis*), Brown spot (BS – *Physoderma maydis*), Post flowering stalk rots (PFSR – *Fusarium moniliforme*, *Cephalosporium maydis*, *Acremonium strictum*, *Macrophomina phaseolina*), Banded leaf and sheath blight (BLSB – *Rhizoctonia solani* f.sp. *sasakii*), Curvularia leaf spot (CLS – *Curvularia* spp.), Head smut (HS – *Sphacelotheca reiliana* and False smut (FS – *Ustilaginoidea virens*) from traces to severe

The incidence of Rajasthan Downy Mildew was found to be severe in Kalaroi, Lohora and moderate in Nai, Fatehnagar. FSR was found to be severe in Choti Undri, Godhana, Lohira, Tula etc. with moderate infection in most of the places surveyed. Maydis leaf blight was uniformly spread in all the areas surveyed with moderate to severe infection. This year because of less average rainfall (524 mm) the intensity of most of the diseases was more. CLS was recorded with severe to moderate in all the fields surveyed. Turicum leaf blight was found to be severe in Kuncholi, while moderate in other places. BSDM occurrence was recorded to be more severe in Kathar to moderate in Kavita, Kadiyan, Tula etc. BLSB remained severe in some pockets like Godhana, Menar and Brown spot was found to be moderate to severe in some places. In the experiments of maize pathology unit under artificial inoculation conditions RDM was found from 0-100% and FSR was of 1.2-8.5(1-9 rating scale) intensity.

In Himanchal Pradesh the maize growing areas of Distt Kullu, Mandi and Sirmour were surveyed. In Distt Sirmour a total of 107 fields from 12 places visited. The prevalent diseases of this area were Turicum leaf blight, Banded leaf and sheath blight, Brown strip Downy Mildew, Erwinia Stalk Rots, Maydis leaf blight, Brown spot and maize rust. The intensity of these diseases varied from locality to locality. The incidence of BLSB and MLB was recorded from severe to moderate in Distt Sirmour whereas the incidence of BSDM and ESR recorded from moderate to traces in same Distt.

In Tamil Nadu, eight places i.e. Nagur, Kallimanthayam, Udumalai, Annur, Dharapuram, Sencherimalai, Pollachi and Atture comprising 36 fields were covered (411.48 m.a.s.l.). The disease observations were taken at knee high as well as in grain filling stages. The most prevalent disease of the area was Sorghum Downy Mildew followed by TLB. The intensity of SDM was recorded from moderate to severe whereas TLB was recorded in traces. The intensity of Rust was mild.

In Karnataka state five places i.e. Belgaum, Bagalkot, Dharwad, Gadak and Haveri comprising area of 41 hectare, were covered. The disease observations were taken at the grain filling stage. The most prevalent disease of the region was TLB and Downy mildew.

Table: 22 Occurrence of Maize Diseases based on Survey and Surveillance 2009.

| States | TLB | MLB | BLSB | Brown spot | Cuv. leaf spot | BSDM | RDM | SDM | ESR | PFSR | CSR | P. rust | C. rust | Head smut | Phae Leaf spot |
|---|-----|-----|------|------------|----------------|------|-----|-----|-----|------|-----|---------|---------|-----------|----------------|
| Rajasthan. Maize Local | ++ | +++ | ++ | ++ | ++ | ++ | +++ | | | +++ | | | | ++ | |
| Tamil Nadu (Knee high and grain filling stage) | + | | | | | | | ++ | | + | | | + | | |
| Karnataka (grain filling stage) | +++ | ++ | ++ | +++ | | | | + | | ++ | ++ | | ++ + | | |
| H. P. (grain filling stage) Local, KH 9451 | +++ | +++ | +++ | ++ | | +++ | | | ++ | | | | | | |

TLB=Turcicum leaf blight

MLB=Maydis leaf blight,

BLSB=Banded leaf and sheath blight,

Cuv. Leaf spot = Curvularia Leaf Spot,

BSDM=Brown stripe downy mildew,

RDM=Rajasthan downy mildew,

ESR=Erwinia stalk rot,

PFSR= Post Flowering stalk rots,

Phae. Leaf spot = Phaeosporia Leaf Spot,

CSR= Charcoal stalk rots

+ Mild

++ Moderate

+++ Severe

Table: 23 Meteorological data (Monthly average) kharif 2009

| S.No | Station Name | Month | Temperature (°C) | | Rainfall of Month (mm) | R.H (%) | | Sunshine Hrs. |
|------|--------------|-----------|------------------|------|------------------------|---------|------|---------------|
| | | | Min | Max | | Min | Max | |
| 1 | Almora | June | 16.6 | 33.4 | 1.8 | 38.7 | 69.1 | 7.7 |
| | | July | 20.9 | 30.3 | 30.4 | 60.6 | 89.7 | 5.9 |
| | | August | 20.5 | 29.0 | 46.7 | 66.5 | 92.5 | 5.2 |
| | | September | 18.2 | 28.2 | 53.5 | 64.9 | 93.8 | 5.3 |
| | | October | 9.2 | 26.7 | 18.7 | 39.8 | 94.9 | 7.8 |
| 2 | Dhaulakuan | June | 21.8 | 39.4 | 61.4 | 36.0 | 61.0 | 8.9 |
| | | July | 24.6 | 32.5 | 238.8 | 68.0 | 91.0 | 4.7 |
| | | August | 24.2 | 31.6 | 274.2 | 73.0 | 93.0 | 5.3 |
| | | September | 22.4 | 30.5 | 219.0 | 71.0 | 92.0 | 5.8 |
| | | October | 13.2 | 29.4 | 046.0 | 51.0 | 91.0 | 8.9 |
| 3. | Udaipur | May | 26.7 | 40.6 | 1.6 | 18.3 | 42.5 | 8.7 |
| | | June | 25.9 | 37.4 | 101.0 | 35.0 | 64.2 | 8.2 |
| | | July | 24.6 | 31.6 | 252.0 | 73.4 | 86.8 | 3.3 |
| | | August | 23.5 | 30.3 | 113.9 | 74.2 | 87.5 | 3.9 |
| | | September | 22.0 | 33.8 | 54.4 | 51.6 | 81.8 | 8.5 |
| | | October | 16.7 | 33.5 | 4.8 | 28.4 | 73.7 | 8.0 |
| 4 | Hyderabad | June | 24.8 | 36.2 | 82.0 | 40.8 | 72.1 | 7.4 |
| | | July | 23.4 | 32.0 | 54.0 | 56.9 | 80.2 | 4.2 |
| | | August | 23.2 | 31.2 | 203.7 | 64.2 | 81.3 | 4.6 |
| | | September | 22.2 | 31.4 | 165.5 | 64.3 | 90.3 | 5.7 |
| | | October | 19.4 | 31.0 | 96.0 | 50.6 | 84.1 | 6.7 |
| | | November | 18.1 | 29.5 | 30.2 | 65.5 | 82.7 | 7.0 |
| | | December | 13.8 | 28.5 | 0.0 | 40.8 | 85.5 | 7.8 |
| 5 | Coimbatore | June | 23.6 | 32.0 | 0.3 | 50.0 | 79.6 | 7.2 |
| | | July | 22.8 | 26.9 | 2.8 | 61.9 | 81.9 | 3.6 |
| | | August | 23.0 | 31.5 | 1.2 | 53.2 | 86.1 | 6.7 |
| | | September | 23.0 | 31.5 | 3.6 | 59.1 | 88.2 | 6.1 |
| | | October | 21.8 | 31.5 | 7.0 | 49.1 | 86.7 | 3.7 |
| | | November | 22.1 | 29.2 | 5.0 | 65.6 | 93.3 | 8.3 |
| 6 | Mandya | January | 13.6 | 31.4 | - | 35.0 | 90.0 | 8.0 |
| | | February | 15.4 | 34.0 | - | 30.0 | 90.0 | 9.0 |
| | | March | 18.7 | 34.1 | 31.0 | 34.0 | 91.0 | 7.8 |
| | | April | 21.2 | 35.4 | 44.0 | 34.0 | 91.0 | 8.4 |
| | | May | 21.5 | 33.6 | 142.4 | 41.0 | 90.0 | 7.8 |
| | | June | 20.4 | 31.5 | 60.8 | 46.0 | 91.0 | 6.8 |
| | | July | 20.4 | 29.2 | 24.0 | 56.0 | 91.0 | 3.2 |
| | | August | 20.4 | 30.3 | 204.3 | 51.0 | 91.0 | 5.8 |
| | | September | 20.5 | 30.0 | 131.2 | 52.0 | 91.0 | 5.9 |
| | | October | 18.8 | 31.0 | 47.6 | 49.0 | 91.0 | 7.3 |
| | | November | 19.2 | 30.9 | 62.0 | 50.0 | 91.0 | 5.6 |

| S.No | Station Name | Month | Temperature (°C) | | Rainfall of Month (mm) | R.H (%) AVG. | Sunshine Hrs. |
|------|--------------|-----------|------------------|-------|------------------------|--------------|---------------|
| | | | Min | Max | | | |
| 7 | Ludhiana | June | 25.2 | 39.9 | 110.6 | 45.0 | 9.9 |
| | | July | 25.4 | 33.8 | 491.1 | 80.0 | 7.3 |
| | | August | 26.9 | 34.1 | 118.2 | 77.0 | 6.6 |
| | | September | 23.7 | 32.7 | 69.9 | 77.0 | 8.4 |
| | | October | 16.4 | 31.8 | 26.2 | 67.0 | 8.7 |
| 8 | Arabhavi | June | 21.70 | 33.30 | 115.2 | 76.27 | - |
| | | July | 22.00 | 29.00 | 70.7 | 83.83 | - |
| | | August | 22.52 | 31.09 | 29.8 | 81.21 | - |
| | | September | 22.15 | 31.38 | 96.2 | 78.76 | - |
| | | October | 21.18 | 31.63 | 306.5 | 72.47 | - |
| | | November | 17.67 | 29.70 | 56.9 | 78.53 | - |

Fifty 3rd Annual Progress Report

**Biochemistry
&
Quality**

2009

DIRECTORATE OF MAIZE RESEARCH

Pusa Campus, New Delhi -110 012

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Biochemistry & Quality

1. Evaluation of quality parameters in maize germplasm received from different sources

The protein content of maize kernel depends to a large extent on the endosperm and to a lesser extent on the germ. However, since the endosperm represents the major part of the kernel weight, therefore, it follows that, in considering the whole kernel, the essential amino acid content is a reflection of the amino acid content in the protein of the endosperm in spite of the fact that the amino acid pattern of the germ protein is higher and better balanced. Germ proteins nevertheless contribute a relatively higher amount of certain amino acids, although not enough to provide a better quality of protein of the whole kernel. Relative amounts of proteins contributed by the endosperm and germ vary and are dependent on the type of corn, genotype, texture and size.

A total of 150 inbred lines and hybrids received from different sources were evaluated for protein and tryptophan in protein. The data is presented in Table 1. The range of protein was 8.23 to 17.08 per cent with lowest and highest values being exhibited by the genotypes HKI-164-3(2-1)-1 and WOSC, respectively. About 70 lines were found to be having protein in the range of 8 – 11 per cent, whereas, about 58 lines were having protein in the range of 11 – 12 per cent. Only few lines (22 nos.) were found to contain more than 12 per cent of protein (fig. 1). The range of tryptophan in protein was 0.30 (Vivek Hybrid 27) to 0.94 (HKI-164-3(2-1)-1) per cent. Most of the lines (86 nos.) were found to possess less than 0.6 per cent of tryptophan. About 33 lines were screened for having tryptophan in the range of 0.6 to 0.7 per cent. A similar number of lines were having tryptophan in the range of 0.7 to 0.8 per cent. A very few lines (7 nos.) were found to possess more than 0.8 per cent tryptophan in protein (fig. 2). As many as 54 lines were found to possess more than 9 per cent of protein and more than 0.6 of tryptophan in their protein.

A total of 133 different QPM and normal maize germplasm received from different sources were evaluated for test weight and specific gravity (data presented in Table 1), out of 133, 37 lines were selected for more than 25g/100 grain (Table 1), The range of test weight was 8.16 to 32.99 g/100 grain with lowest and highest values being observed in the genotypes 72584-3 and CLQRCY Q-30 respectively. The range of specific gravity was 0.96 (PEHM 1) to 1.93 (CL Q-G-2507) g/100 grain

Table 1: Evaluation of QPM and normal germplasm for protein & tryptophan analysis

| S. No. | Pedigree | Protein (%) | Tryptophan in Protein (%) | Test Weight (g/100 grain) | Specific Gravity |
|--------|----------|-------------|---------------------------|---------------------------|------------------|
| 1 | HM 4 | 11.81 | 0.39 | 27.60 | 1.20 |
| 2 | HM 7 | 11.59 | 0.39 | 20.03 | 1.27 |
| 3 | HM 8 | 11.26 | 0.36 | 23.30 | 1.29 |
| 4 | HM 9 | 11.22 | 0.35 | 23.30 | 1.16 |

| | | | | | |
|----|---------------------|-------|------|-------|------|
| 5 | HM 10 | 12.30 | 0.39 | 27.10 | 1.19 |
| 6 | HQPM 1 | 11.40 | 0.72 | 20.03 | 1.26 |
| 7 | HQPM 3 | 11.50 | 0.70 | 25.00 | 1.14 |
| 8 | HQPM 4 | 10.81 | 0.61 | 27.00 | 1.13 |
| 9 | HQPM 7 | 11.10 | 0.63 | 25.40 | 1.15 |
| 10 | Shaktiman 3 | 10.74 | 0.61 | 21.20 | 1.18 |
| 11 | Shaktiman 4 | 11.34 | 0.74 | 29.90 | 1.30 |
| 12 | HQPM 6 | 10.64 | 0.64 | 27.20 | 1.30 |
| 13 | HQPM 8 | 10.34 | 0.77 | 26.00 | 1.30 |
| 14 | Buland | 12.79 | 0.36 | 21.00 | 1.31 |
| 15 | Vivek Hybrid 25 | 11.80 | 0.32 | 22.50 | 1.25 |
| 16 | Vivek Hybrid 27 | 11.62 | 0.30 | 18.90 | 1.26 |
| 17 | Prakash | 11.72 | 0.46 | 23.70 | 1.19 |
| 18 | PHM 1 | 12.28 | 0.37 | 28.80 | 1.15 |
| 19 | PHM 2 | 11.74 | 0.32 | 22.90 | 1.27 |
| 20 | FH 3356 | 11.47 | 0.30 | 26.70 | 1.16 |
| 21 | PAU 352 | 12.24 | 0.38 | 26.40 | 1.26 |
| 22 | JH 3459 | 11.59 | 0.34 | 24.90 | 1.31 |
| 23 | PEHM 1 | 11.41 | 0.36 | 14.80 | 0.96 |
| 24 | CLQRCYQ-47-B | 12.51 | 0.30 | 26.60 | 1.26 |
| 25 | CLQRCYQ-30 | 11.38 | 0.50 | 21.30 | 1.25 |
| 26 | CLQRCYQ-28 | 9.50 | 0.69 | 32.30 | 1.24 |
| 27 | CLQRCYQ-28 | 11.02 | 0.63 | 21.10 | 1.09 |
| 28 | CLQRCYQ-41 | 9.65 | 0.65 | 18.80 | 1.09 |
| 29 | CLQ 315 | 11.28 | 0.51 | 19.80 | 1.17 |
| 30 | LM 14 | 11.83 | 0.44 | 25.10 | 1.23 |
| 31 | HKI-1105 | 11.11 | 0.45 | 16.40 | 1.09 |
| 32 | HKI-1128 | 12.34 | 0.42 | 14.00 | 1.09 |
| 33 | HKI-1128 | 10.55 | 0.49 | 17.50 | 1.16 |
| 34 | LM-13-3 | 12.04 | 0.45 | 22.30 | 1.13 |
| 35 | CM 124 | 12.76 | 0.36 | 15.60 | 1.12 |
| 36 | HKI 17-2 | 9.85 | 0.64 | 19.70 | 1.23 |
| 37 | HKI 31-2 | 9.25 | 0.77 | 12.70 | 1.13 |
| 38 | HKI-34 (1+2)-1 | 9.73 | 0.65 | 15.20 | 1.04 |
| 39 | HKI-162-2 | 10.98 | 0.45 | 16.20 | 1.33 |
| 40 | HKI-164-4-(1-3)-2 | 10.10 | 0.69 | 16.90 | 1.08 |
| 41 | HKI-164-3(2-1)-1 | 9.45 | 0.81 | 17.30 | 1.16 |
| 42 | HKI-164-4-(1-3)-2-2 | 9.10 | 0.80 | 17.40 | 1.17 |
| 43 | HKI-164-4-(1-3) | 8.75 | 0.80 | 13.00 | 1.17 |
| 44 | HKI-164-4-(1-3)-2 | 12.16 | 0.34 | 23.70 | 1.09 |
| 45 | HKI-164-4-(1-3)-2 | 10.85 | 0.71 | 19.40 | 1.12 |
| 46 | HKI-164-3(2-1)-1 | 8.23 | 0.94 | 16.10 | 1.08 |
| 47 | HKI-164-D-3-3-2 | 11.20 | 0.60 | 14.30 | 1.12 |
| 48 | HKI-164-7-7 ER2 | 10.00 | 0.60 | 17.80 | 1.14 |
| 49 | HKI-164-7-6x161 | 10.10 | 0.62 | 19.50 | 1.13 |

| | | | | | |
|----|--------------------------|-------|------|-------|------|
| 50 | HKI-164-7-2 | 9.98 | 0.67 | 18.50 | 1.16 |
| 51 | HKI-164-7-6x161-2 | 11.00 | 0.67 | 18.20 | 1.07 |
| 52 | HKI-193-2-2 | 11.99 | 0.62 | 18.00 | 1.13 |
| 53 | HKI-5072-2BT | 12.10 | 0.66 | 17.50 | 1.09 |
| 54 | CML - 165 | 12.25 | 0.49 | 19.00 | 1.89 |
| 55 | CML - 167 | 8.93 | 0.68 | 21.50 | 1.26 |
| 56 | CML - 171 | 9.98 | 0.57 | 18.30 | 1.22 |
| 57 | CML - 172 | 9.98 | 0.49 | 19.40 | 1.21 |
| 58 | DMR-QPM-03-113 | 9.98 | 0.64 | 16.60 | 1.19 |
| 59 | DMR-QPM-58-26 | 10.50 | 0.61 | 21.20 | 1.18 |
| 60 | CML 157 | 9.19 | 0.44 | 20.90 | 1.16 |
| 61 | CLQRCYQ-47 | 10.00 | 0.38 | 23.50 | 1.18 |
| 62 | CLQRCYQ-47-B | 9.29 | 0.43 | 22.00 | 1.1 |
| 63 | CLQRCYQ-30 | 11.04 | 0.31 | 31.00 | 1.19 |
| 64 | CLQRCYQ-41 | 9.17 | 0.69 | 18.90 | 1.18 |
| 65 | CLQG-2507 | 9.29 | 0.43 | 19.10 | 1.93 |
| 66 | DMR-QPM 58 | 11.11 | 0.60 | 22.50 | 1.25 |
| 67 | HKI-193-2-2 | 8.97 | 0.33 | 19.58 | 1.09 |
| 68 | CLQRCYQ-47-B | 8.62 | 0.58 | 22.05 | 1.16 |
| 69 | CLQRCYQ-30 | 9.67 | 0.51 | 32.99 | 1.14 |
| 70 | DMRQPM-58 | 9.29 | 0.66 | 21.62 | 1.08 |
| 71 | Pinnacle | 11.00 | 0.63 | 20.00 | 1.25 |
| 72 | DHM 111 | 11.03 | 0.61 | 28.40 | 1.29 |
| 73 | MASQPM CM-137-2985-3 | 10.35 | 0.41 | 25.20 | 1.40 |
| 74 | MASQPM CM-138-2989-2 | 10.92 | 0.30 | 20.20 | 1.15 |
| 75 | MASQPM CM-150-2992-3 | 13.00 | 0.31 | 15.20 | 1.08 |
| 76 | MASQPM CM-140-2999-3 | 12.78 | 0.40 | 11.50 | 1.15 |
| 77 | MASQPM CM-151-3004-1 | 9.44 | 0.54 | 24.50 | 1.23 |
| 78 | HKI-193-1-2961 | 8.35 | 0.77 | 18.20 | 1.21 |
| 79 | DMRQPM-58-MAP-174 | 11.86 | 0.39 | 27.40 | 1.25 |
| 80 | DMRQPM-28-MAP-175 (3135) | 11.47 | 0.58 | 21.40 | 1.34 |
| 81 | VOL-1-MAP-118-(3185) | 11.19 | 0.41 | 20.50 | 1.14 |
| 82 | VOL-5-MAP-161 (3097) | 11.45 | 0.40 | 17.00 | 1.21 |
| 83 | CM-212-MAP-176 (3142) | 10.60 | 0.48 | 21.60 | 1.20 |
| 84 | CM-140-MAP-106 | 10.62 | 0.48 | 12.00 | 1.20 |
| 85 | HOP II 2601 | 12.02 | 0.57 | 17.30 | 1.08 |
| 86 | SHD-IER6 2627 | 9.32 | 0.60 | 27.90 | 1.27 |
| 87 | HKI-536 (CHECK) | 13.39 | 0.34 | 26.50 | 1.10 |

| | | | | | |
|-----|--|-------|------|-------|------|
| 88 | HQPM 1 | 10.16 | 0.68 | 18.84 | 1.35 |
| 89 | Prakash | 10.61 | 0.34 | 21.55 | 1.35 |
| 90 | Vivek Hybrid 17 | 8.98 | 0.37 | 27.70 | 1.16 |
| 91 | African Tall | 9.00 | 0.40 | 28.08 | 1.28 |
| 92 | HM 5 | 10.78 | 0.37 | 31.22 | 1.20 |
| 93 | HQPM 5 | 9.67 | 0.66 | 29.58 | 1.24 |
| 94 | CML - 73 | 10.30 | 0.38 | 24.14 | 1.20 |
| 95 | CML - 259 | 11.43 | 0.29 | 25.05 | 1.30 |
| 96 | CML - 41 | 10.98 | 0.33 | 26.86 | 1.23 |
| 97 | CML - 101 | 10.24 | 0.38 | 31.17 | 1.29 |
| 98 | V 341 | 9.24 | 0.52 | 21.77 | 1.33 |
| 99 | HKI-163 | 9.04 | 0.67 | 17.05 | 1.07 |
| 100 | HKI-193 | 9.67 | 0.80 | 18.69 | 1.33 |
| 101 | WIN-POP | 13.67 | 0.34 | 14.85 | 1.06 |
| 102 | WOSC | 13.64 | 0.40 | 14.47 | 1.03 |
| 103 | Hybrid-9471 | 9.67 | 0.47 | 24.24 | 1.35 |
| 104 | 2568 | 11.50 | 0.41 | 13.66 | 1.36 |
| 105 | 2575 | 11.49 | 0.41 | 15.08 | 1.25 |
| 106 | 2577 | 9.12 | 0.50 | 21.59 | 1.34 |
| 107 | 72291-5 | 9.31 | 0.55 | 20.49 | 1.27 |
| 108 | 72313-1 | 9.70 | 0.65 | 19.36 | 1.07 |
| 109 | 72318-10 | 10.71 | 0.57 | 17.43 | 1.24 |
| 110 | 72324-9-13 | 9.05 | 0.55 | 22.84 | 1.20 |
| 111 | 72329-2 | 9.50 | 0.64 | 15.66 | 1.30 |
| 112 | 72460-1 | 11.61 | 0.31 | 16.03 | 1.23 |
| 113 | 72508-7 | 9.35 | 0.58 | 15.65 | 1.11 |
| 114 | 72582-14 | 10.07 | 0.33 | 13.56 | 1.12 |
| 115 | 72584-3 | 15.19 | 0.33 | 8.16 | 1.08 |
| 116 | 72817-2 | 11.94 | 0.30 | 21.99 | 1.09 |
| 117 | 72827-2 | 11.35 | 0.32 | 25.92 | 1.17 |
| 118 | DHM-111 (Biocontrol) | 11.38 | 0.65 | 27.50 | 1.15 |
| 119 | DHM-111 Non toxin salt (A.Bicarbonate) | 11.10 | 0.33 | 27.50 | 1.25 |
| 120 | DHM-111 Non toxin (A.flavus) | 11.51 | 0.60 | 26.20 | 1.31 |
| 121 | DHM-111 check | 11.16 | 0.47 | 29.10 | 1.21 |
| 122 | Pinnacle (Biocontrol) | 11.79 | 0.43 | 18.80 | 1.18 |
| 123 | Pinnacle Non toxin salt (A.Bicarbonate) | 11.81 | 0.56 | 20.00 | 1.25 |
| 124 | Pinnacle Non toxin (A.flavus) | 11.65 | 0.56 | 17.60 | 1.26 |
| 125 | Pinnacle- check | 11.90 | 0.55 | 24.00 | 1.20 |
| 126 | Control-DHM-111 | 10.76 | 0.31 | 29.20 | 1.22 |
| 127 | Malviya Makka | 10.47 | 0.40 | 25.40 | 1.15 |
| 128 | Navjot | 9.91 | 0.45 | 16.10 | 1.00 |

| | | | | | |
|-----|-----------------|--------|------|-------|------|
| 129 | Parkash | 9.17 | 0.46 | 15.40 | 1.10 |
| 130 | HQPM-1 | 9.10 | 0.69 | 22.80 | 1.14 |
| 131 | HQPM-5 | 9.49 | 0.66 | 28.20 | 1.08 |
| 132 | X 1280 | 9.03 | 0.39 | 31.00 | 1.55 |
| 133 | Bio 9681 | 9.19ss | 0.44 | 24.70 | 1.02 |
| 134 | Sagam L-1 | 11.06 | 0.61 | | |
| 135 | Sagam L-2 | 11.22 | 0.71 | | |
| 136 | Sagam L-3 | 10.67 | 0.75 | | |
| 137 | Pratap Makka 5 | 11.55 | 0.39 | | |
| 138 | QPM 9 | 10.69 | 0.71 | | |
| 139 | PMH 3 | 12.49 | 0.41 | | |
| 140 | HM 5 | 12.13 | 0.40 | | |
| 141 | R 1 | 13.48 | 0.33 | | |
| 142 | R 2 | 12.69 | 0.32 | | |
| 143 | QPM R 1 | 12.50 | 0.73 | | |
| 144 | QPM R 2 | 12.08 | 0.78 | | |
| 145 | Navalram | 10.34 | 0.70 | | |
| 146 | Kapilesh Kunwar | 9.75 | 0.80 | | |
| 147 | Shankar Shah | 10.82 | 0.87 | | |
| 148 | Ganesh Kunwar | 11.04 | 0.85 | | |
| 149 | HQPM 1 | 11.05 | 0.77 | | |
| 150 | Shaktiman IV | 11.15 | 0.76 | | |

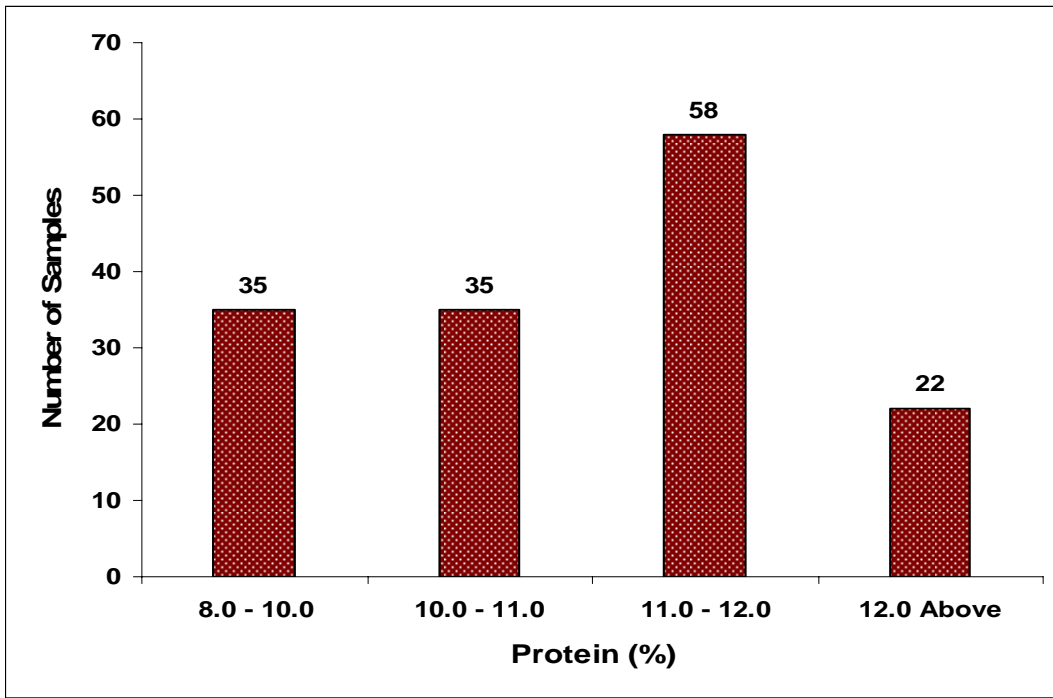


Fig1: Distribution of lines for protein content

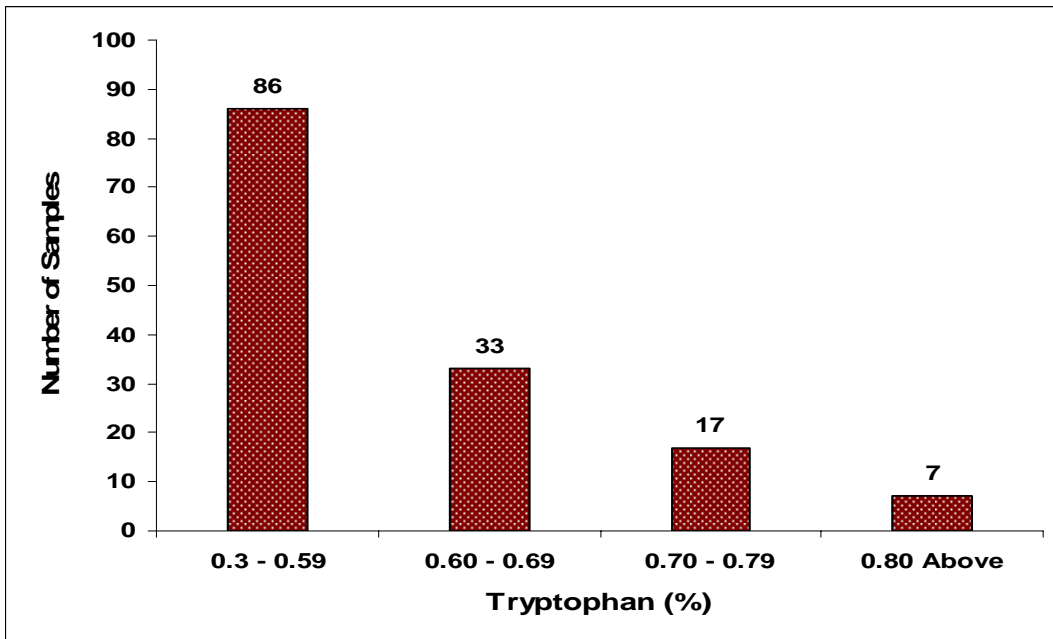


Fig 2: Distribution of lines for tryptophan conten

2. Evaluation of maize germplasm received from different sources for lysine estimation

A total of 38 samples were analyzed for lysine content. The range of lysine varied from 1.03 (R1) to 3.51 (Shankar Shah) per cent. As may as 20 lines were having lysine in the range 1 to 2 per cent. About 13 lines were having lysine in the range of 2 to 3 per cent, whereas, only 5 lines were found to possess more than 3 per cent of lysine. The data for lysine content is presented in Table 2. Some most promising lines for quality parameters are given in Table 3.

Table 2: Evaluation of QPM and normal germplasm received from different sources for lysine estimation

| S. No. | Pedigree | Protein (%) | Try in protein (%) | Lysine in protein (%) |
|--------|-----------------|-------------|--------------------|-----------------------|
| 1 | HM 4 | 11.81 | 0.39 | 1.14 |
| 2 | HM 7 | 11.59 | 0.39 | 1.18 |
| 3 | HM 8 | 11.26 | 0.36 | 1.42 |
| 4 | HM 9 | 11.22 | 0.35 | 1.57 |
| 5 | HM 10 | 12.30 | 0.39 | 1.30 |
| 6 | HQPM 1 | 11.40 | 0.72 | 2.60 |
| 7 | HQPM 3 | 11.50 | 0.70 | 2.54 |
| 8 | HQPM 4 | 10.81 | 0.61 | 2.96 |
| 9 | HQPM 7 | 11.10 | 0.63 | 2.25 |
| 10 | Shaktiman 3 | 10.74 | 0.61 | 2.28 |
| 11 | Shaktiman 4 | 11.34 | 0.74 | 2.50 |
| 12 | HQPM 6 | 10.64 | 0.64 | 2.28 |
| 13 | HQPM 8 | 10.34 | 0.77 | 2.58 |
| 14 | Buland | 12.79 | 0.36 | 1.41 |
| 15 | Vivek Hybrid 25 | 11.80 | 0.32 | 1.53 |
| 16 | Vivek Hybrid 27 | 11.62 | 0.30 | 1.56 |
| 17 | Prakash | 11.72 | 0.46 | 1.72 |
| 18 | PHM 1 | 12.28 | 0.37 | 1.30 |
| 19 | PHM 2 | 11.74 | 0.32 | 1.54 |
| 20 | FH 3356 | 11.47 | 0.30 | 1.58 |
| 21 | PAU-352 | 12.24 | 0.38 | 1.82 |
| 22 | JH 3459 | 11.59 | 0.34 | 1.74 |
| 23 | PEHM 1 | 11.41 | 0.36 | 1.77 |
| 24 | Sagam L-1 | 11.06 | 0.61 | 2.40 |
| 25 | Sagam L-2 | 11.22 | 0.71 | 3.00 |
| 26 | Sagam L-3 | 10.67 | 0.75 | 3.50 |
| 27 | Pratap Makka 5 | 11.55 | 0.39 | 1.39 |
| 28 | QPM 9 | 10.69 | 0.71 | 3.12 |
| 29 | PMH 3 | 12.49 | 0.41 | 1.79 |
| 30 | HM 5 | 12.13 | 0.40 | 1.67 |
| 31 | R 1 | 13.48 | 0.33 | 1.03 |

| | | | | |
|----|-----------------|-------|------|------|
| 32 | R 2 | 12.69 | 0.32 | 1.26 |
| 33 | QPM R-1 | 12.50 | 0.73 | 2.31 |
| 34 | QPM R-2 | 12.08 | 0.78 | 2.57 |
| 35 | Navalram | 10.34 | 0.70 | 2.57 |
| 36 | Kapilesh Kunwar | 9.75 | 0.80 | 2.96 |
| 37 | Shankar Shah | 10.82 | 0.87 | 3.51 |
| 38 | Ganesh Kunwar | 11.04 | 0.85 | 3.23 |

Table 3: Most promising lines

| S. No. | Pedigree | Protein (%) | Try in Protein (%) | Lysine in Protein (%) |
|---------------|---------------------|--------------------|---------------------------|------------------------------|
| 1 | HQPM 1 | 11.10 | 0.72 | 2.60 |
| 2 | HQPM 3 | 11.50 | 0.70 | 2.54 |
| 3 | HQPM 4 | 10.81 | 0.61 | 2.96 |
| 4 | HKI-193 | 10.23 | 0.75 | 2.90 |
| 5 | Shaktiman 4 | 11.15 | 0.76 | 2.50 |
| 6 | HQPM 8 | 10.34 | 0.74 | 2.58 |
| 7 | QPM-R-1 | 12.50 | 0.73 | 2.31 |
| 8 | QPM-R-2 | 12.08 | 0.78 | 2.57 |
| 9 | HKI-164-4-(1-3)-2-2 | 9.10 | 0.80 | 3.50 |
| 10 | HKI-164-3(2-1)-1 | 9.45 | 0.81 | 3.64 |

3. Evaluation of maize germplasm received from different sources for oil estimation

The oil content of the maize kernel comes mainly from the germ. Maize oil has low levels of saturated fatty acid i.e. on an average 11 per cent palmitic and 2 per cent stearic acid. On the other hand it contains high levels of PUFA, mainly linoleic acid with an average value of about 24 per cent. Maize oil is relatively stable since it contains high levels of natural antioxidants. Because of these qualities, oil has become by far the most valuable product of maize grain. Earlier germ containing oil were considered to be a waste product in glucose factories and corn mills, however, nowadays there is a great demand for high oil corn by these industries. Therefore, breeding for higher and better oil corn is an important aspect of maize development program.

A total of 133 different QPM and normal maize germplasm received from different sources were analyzed for oil content. The data is presented in Table 4. The range of oil content varied from 3.01 (Pratap Makka 5) to 12.09 (WOSC) per cent, Most of lines were in the range of 3 to 5 per cent, whereas only 7 lines were found to contain more than 6 per cent oil. Some most promising lines for oil content are given in Table 5.

Table 4: Evaluation of QPM and normal germplasm received from different sources for oil estimation

| S. No. | Pedigree | Oil on dry wt. basis (%) |
|--------|-----------------|--------------------------|
| 1 | HM 4 | 3.52 |
| 2 | HM 7 | 3.25 |
| 3 | HM 8 | 3.55 |
| 4 | HM 9 | 3.79 |
| 5 | HM 10 | 4.00 |
| 6 | HQPM 1 | 3.37 |
| 7 | HQPM 3 | 4.22 |
| 8 | HQPM 4 | 3.34 |
| 9 | HQPM 7 | 4.25 |
| 10 | Shaktiman 3 | 3.37 |
| 11 | Shaktiman 4 | 3.76 |
| 12 | HQPM 6 | 5.36 |
| 13 | HQPM 8 | 4.60 |
| 14 | Buland | 3.87 |
| 15 | Vivek Hybrid 25 | 3.54 |
| 16 | Vivek Hybrid 27 | 3.30 |
| 17 | Prakash | 3.72 |
| 18 | PHM 1 | 3.50 |
| 19 | PHM 2 | 3.74 |
| 20 | FH 3356 | 3.49 |
| 21 | PAU 352 | 4.42 |
| 22 | JH 3459 | 3.96 |
| 23 | PEHM 1 | 4.98 |
| 24 | Sagam L-1 | 3.39 |

| | | |
|----|---------------------|------|
| 25 | Sagam L-2 | 3.33 |
| 26 | Sagam L-3 | 3.45 |
| 27 | Pratap Makka 5 | 3.01 |
| 28 | QPM 9 | 3.78 |
| 29 | PMH 3 | 4.40 |
| 30 | HM 5 | 3.87 |
| 31 | Navalram | 4.51 |
| 32 | Kapilesh Kunwar | 4.70 |
| 33 | Shankar Shah | 5.91 |
| 34 | Ganesh Kunwar | 5.20 |
| 35 | CLQRCYQ-47-B | 3.80 |
| 36 | CLQRCYQ-30 | 3.90 |
| 37 | CLQRCYQ-28 | 5.42 |
| 38 | CLQRCYQ-28 | 5.50 |
| 39 | CLQRCYQ-41 | 5.25 |
| 40 | CLQ-315 | 5.51 |
| 41 | LM 14 | 5.73 |
| 42 | HKI-1105 | 4.71 |
| 43 | HKI-1128 | 4.95 |
| 44 | HKI-1128 | 4.52 |
| 45 | LM-13-3 | 4.95 |
| 46 | CM-124 | 6.46 |
| 47 | HKI-17-2 | 6.06 |
| 48 | HKI-31-2 | 5.87 |
| 49 | HKI-34 (1+2)-1 | 4.49 |
| 50 | HKI-162-2 | 6.18 |
| 51 | HKI-164-4-(1-3)-2 | 5.87 |
| 52 | HKI-164-3(2-1)-1 | 5.07 |
| 53 | HKI-164-4-(1-3)-2-2 | 3.60 |
| 54 | HKI-164-4-(1-3) | 3.30 |
| 55 | HKI-164-4-(1-3)-2 | 3.20 |
| 56 | HKI-164-4-(1-3)-2 | 6.0 |
| 57 | HKI-164-3(2-1)-1 | 4.78 |
| 58 | HKI-164-D-3-3-2 | 4.96 |
| 59 | HKI-164-7-7 ER2 | 5.72 |
| 60 | HKI-164-7-6x161 | 4.95 |
| 61 | HKI-164-7-2 | 5.05 |
| 62 | HKI-164-7-6x161-2 | 4.20 |
| 63 | HKI-193-2-2 | 5.26 |
| 64 | HKI-5072-2BT | 5.80 |
| 65 | CML-165 | 6.0 |
| 66 | CML-167 | 5.46 |
| 67 | CML-171 | 5.70 |
| 68 | CML-172 | 6.60 |
| 69 | DMR-QPM-03-113 | 5.84 |

| | | |
|-----|------------------------|-------|
| 70 | DMR-QPM-58-26 | 5.50 |
| 71 | CML-157 | 5.81 |
| 72 | CLQRCYQ-47 | 3.40 |
| 73 | CLQRCYQ-47-B | 4.49 |
| 74 | CLQ-RCYQ-30 | 4.45 |
| 75 | CLQ-RCYQ-41 | 3.83 |
| 76 | CLQ-G-2507 | 5.40 |
| 77 | DMR-QPM 58 | 4.90 |
| 78 | HKI-193-2-2 | 3.70 |
| 79 | CLQRCYQ-47-B | 3.00 |
| 80 | CLQRCY Q-30 | 3.50 |
| 81 | DMR-QPM-58 | 4.70 |
| 82 | HKI-3322 | 4.44 |
| 83 | Temp.Trop high oil QPM | 4.44 |
| 84 | HQPM 1 | 3.45 |
| 85 | Shaktiman IV | 3.13 |
| 86 | Pinnacle | 4.06 |
| 87 | DHM 111 | 4.19 |
| 88 | HQPM 1 | 4.54 |
| 89 | Prakash | 4.18 |
| 90 | Vivek Hybrid 17 | 4.34 |
| 91 | African Tall | 5.14 |
| 92 | HM 5 | 3.58 |
| 93 | HQPM 5 | 4.85 |
| 94 | CML-73 | 3.10 |
| 95 | CML-259 | 4.00 |
| 96 | CML-41 | 5.12 |
| 97 | CML-101 | 3.65 |
| 98 | V-341 | 3.46 |
| 99 | HKI-163 | 3.83 |
| 100 | HKI-193 | 5.48 |
| 101 | WIN - POP | 3.26 |
| 102 | WOSC | 12.09 |
| 103 | Hybrid-9471 | 3.78 |
| 104 | 2568 | 3.74 |
| 105 | 2575 | 4.25 |
| 106 | 2577 | 4.67 |
| 107 | 72291-5 | 5.61 |
| 108 | 72313-1 | 3.92 |
| 109 | 72318-10 | 4.62 |
| 110 | 72324-9-13 | 4.38 |
| 111 | 72329-2 | 4.50 |
| 112 | 72460-1 | 3.65 |
| 113 | 72508-7 | 4.93 |
| 114 | 72582-14 | 4.00 |

| | | |
|-----|---|------|
| 115 | 72584-3 | 4.50 |
| 116 | 72817-2 | 4.28 |
| 117 | 72827-2 | 4.31 |
| 118 | DHM 111 (Biocontrol) | 4.98 |
| 119 | DHM 111 Non toxin salt (A.Bicarbonate) | 3.55 |
| 120 | DHM 111 Non toxin (<i>A.flavus</i>) | 3.52 |
| 121 | DHM 111 check | 4.22 |
| 122 | Pinnacle (Biocontrol) | 5.54 |
| 123 | Pinnacle Non toxin salt (A.Bicarbonate) | 4.16 |
| 124 | Pinnacle Non toxin (<i>A.flavus</i>) | 3.87 |
| 125 | Pinnacle- check | 4.41 |
| 126 | Control DHM 111 | 4.00 |
| 127 | Malviya Makka | 4.27 |
| 128 | Navjot | 4.20 |
| 129 | Parkash | 4.13 |
| 130 | HQPM 1 | 4.97 |
| 131 | HQPM 5 | 4.62 |
| 132 | X-1280 | 4.03 |
| 133 | Bio 9681 | 3.10 |

Table 5: Most promising lines with higher oil content

| S. No. | Pedigree | Oil on dry wt. basis (%) |
|---------------|-------------------|---------------------------------|
| 1 | CM 124 | 6.24 |
| 2 | HKI-17-2 | 6.06 |
| 3 | HKI-162-2 | 6.18 |
| 4 | HKI-164-4-(1-3)-2 | 6.00 |
| 5 | CML - 165 | 6.00 |
| 6 | CML - 172 | 6.60 |
| 7 | WOSC | 12.09 |

4. Evaluation of maize germplasm received from different sources for sugar estimation

Sugars were referred as simple sugars which consist of glucose, fructose and sucrose. In maize total sugars were present in amounts ranging from 1 to 3 per cent of the kernel weight with sucrose as the major component. Higher levels of monosaccharide and disaccharides are present in maturing kernels, At 2 weeks after pollination the sugar content is relatively high, while starch is low. As the kernel matures, the sugar declines and the starch increases. The relatively higher levels of reducing sugar and sucrose are possibly the reason why immature common maize and even more, sweet corn maize, are so well liked by the people.

A total of 149 inbred and maize germplasm lines received from different sources were analyzed for sugar content (Table 6). The range of sugar varied from 3.14 to 20.40 per cent with lowest and highest values being observed by the genotypes FH- 3356 and CUBA-379, respectively. However, most of the genotypes were found to be having sugar in the range of 3 to 6 per cent. Out of 149, 27 lines were found to possess more than 6 per cent sugar. Some most promising lines with higher sugar content are presented in Table 7.

Table 6: Evaluation of QPM and normal germplasm for sugar estimation

| S. No. | Pedigree | Sugar (%) |
|--------|-----------------|-----------|
| 1 | HM 4 | 3.34 |
| 2 | HM 7 | 3.34 |
| 3 | HM 8 | 3.52 |
| 4 | HM 9 | 3.47 |
| 5 | HM 10 | 3.73 |
| 6 | HQPM 1 | 4.73 |
| 7 | HQPM 3 | 4.41 |
| 8 | HQPM 4 | 3.89 |
| 9 | HQPM 7 | 5.34 |
| 10 | Shaktiman 3 | 3.54 |
| 11 | Shaktiman 4 | 4.11 |
| 12 | HQPM 6 | 4.56 |
| 13 | HQPM 8 | 3.49 |
| 14 | Buland | 3.85 |
| 15 | Vivek Hybrid 25 | 3.33 |
| 16 | Vivek Hybrid 27 | 3.41 |
| 17 | Prakash | 3.50 |
| 18 | PHM 1 | 3.78 |
| 19 | PHM 2 | 3.51 |
| 20 | FH 3356 | 3.14 |
| 21 | PAU 352 | 3.47 |
| 22 | JH 3459 | 3.28 |
| 23 | PEHM 1 | 3.69 |
| 24 | Sagam L-1 | 4.70 |
| 25 | Sagam L-2 | 4.42 |
| 26 | Sagam L-3 | 3.66 |

| | | |
|----|---------------------|------|
| 27 | Pratap Makka 5 | 3.45 |
| 28 | QPM 9 | 4.13 |
| 29 | PMH 3 | 3.59 |
| 30 | HM 5 | 4.29 |
| 31 | Navalram | 4.45 |
| 32 | Kapilesh Kunwar | 6.97 |
| 33 | Shankar Shah | 5.19 |
| 34 | Ganesh Kunwar | 8.66 |
| 35 | CLQRCYQ-47-B | 4.70 |
| 36 | CLQRCYQ-30 | 5.24 |
| 37 | CLQRCYQ-28 | 4.41 |
| 38 | CLQRCYQ-28 | 4.67 |
| 39 | CLQRCYQ-41 | 4.12 |
| 40 | CLQ-315 | 4.48 |
| 41 | LM 14 | 5.27 |
| 42 | HKI-1105 | 4.35 |
| 43 | HKI-1128 | 4.86 |
| 44 | HKI-1128 | 4.61 |
| 45 | LM-13-3 | 5.60 |
| 46 | CM 124 | 5.06 |
| 47 | HKI-17-2 | 3.77 |
| 48 | HKI-31-2 | 6.36 |
| 49 | HKI-34 (1+2)-1 | 3.93 |
| 50 | HKI-162-2 | 3.46 |
| 51 | HKI-164-4-(1-3)-2 | 5.48 |
| 52 | HKI-164-3(2-1)-1 | 7.75 |
| 53 | HKI-164-4-(1-3)-2-2 | 5.61 |
| 54 | HKI-164-4-(1-3) | 4.89 |
| 55 | HKI-164-4-(1-3)-2 | 5.70 |
| 56 | HKI-164-4-(1-3)-2 | 8.01 |
| 57 | HKI-164-3(2-1)-1 | 8.36 |
| 58 | HKI-164-D-3-3-2 | 4.53 |
| 59 | HKI-164-7-7 ER2 | 4.96 |
| 60 | HKI-164-7-6x161 | 5.90 |
| 61 | HKI-164-7-2 | 4.95 |
| 62 | HKI-164-7-6x161-2 | 5.39 |
| 63 | HKI-193-2-2 | 6.06 |
| 64 | HKI-5072-2BT | 4.12 |
| 65 | CML - 165 | 3.90 |
| 66 | CML - 167 | 3.48 |
| 67 | CML - 171 | 3.64 |
| 68 | CML - 172 | 3.72 |
| 69 | DMR-QPM 03-113 | 4.87 |
| 70 | DMR-QPM 58-26 | 4.10 |
| 71 | CML-157 | 3.83 |
| 72 | CL-QRCYQ-47 | 6.03 |
| 73 | CLQRCYQ-47-B | 4.48 |

| | | |
|-----|--|-------|
| 74 | CLQ-RCYQ-30 | 4.90 |
| 75 | CLQ-RCYQ-41 | 5.70 |
| 76 | CLQ-G-2507 | 4.08 |
| 77 | DMR-QPM 58 | 5.24 |
| 78 | HKI-193-2-2 | 3.99 |
| 79 | CLQRCYQ-47-B | 4.51 |
| 80 | CLQRCY Q30 | 5.17 |
| 81 | DMR-QPM 58 | 4.76 |
| 82 | HSSW (HS)C1 F3 (SH2SH2) | 8.40 |
| 83 | Insec 2 (k4) | 12.46 |
| 84 | Insec 2 (k4) 'Insee 2 (k4) | 8.87 |
| 85 | Mas madu (sh2 sh2) | 12.46 |
| 86 | NSS2 W9301 A (SH2SH2) | 8.71 |
| 87 | Sweet Corn INsec (k4) | 7.60 |
| 88 | Min Sweet Corn | 7.13 |
| 89 | WSCI XNSS2W9301A | 7.24 |
| 90 | 1 Priya X NSS@ W 9301 A | 8.71 |
| 91 | 951-3 | 6.32 |
| 92 | 951-7 | 6.92 |
| 93 | Dulce Amanillo (susu) Dulee Blanco(susu) | 14.26 |
| 94 | Min Sweet | 10.20 |
| 95 | CUBA 379 | 20.40 |
| 96 | DMSC 3 | 11.78 |
| 97 | DDMSC-4-1 DR 10 | 9.04 |
| 98 | DMSC 16 | 5.64 |
| 99 | DMSC 16 | 4.53 |
| 100 | HQPM 1 | 3.76 |
| 101 | Shaktiman IV | 3.78 |
| 102 | Pinnacle | 4.18 |
| 103 | DHM 111 | 3.95 |
| 104 | HQPM 1 | 3.41 |
| 105 | Prakash | 4.18 |
| 106 | Vivek Hybrid 17 | 5.21 |
| 107 | African Tall | 5.34 |
| 108 | HM 5 | 5.04 |
| 109 | HQPM 5 | 3.97 |
| 110 | CML - 73 | 5.16 |
| 111 | CML - 259 | 5.54 |
| 112 | CML - 41 | 5.31 |
| 113 | CML - 101 | 4.86 |
| 114 | V 341 | 4.03 |
| 115 | HKI-163 | 5.70 |
| 116 | HKI-193 | 7.75 |
| 117 | WIN - POP | 5.68 |
| 118 | WOSC | 13.42 |
| 119 | Hybrid-9471 | 4.88 |
| 120 | 2568 | 4.53 |

| | | |
|-----|---|------|
| 121 | 2575 | 4.22 |
| 122 | 2577 | 4.06 |
| 123 | 72291-5 | 5.80 |
| 124 | 72313-1 | 3.74 |
| 125 | 72318-10 | 3.85 |
| 126 | 72324-9-13 | 3.29 |
| 127 | 72329-2 | 3.44 |
| 128 | 72460-1 | 3.74 |
| 129 | 72508-7 | 4.17 |
| 130 | 72582-14 | 4.71 |
| 131 | 72584-3 | 6.51 |
| 132 | 72817-2 | 4.53 |
| 133 | 72827-2 | 3.85 |
| 134 | DHM 111 (Biocontrol) | 3.88 |
| 135 | DHM 111 Non toxin salt (A.Bicarbonate) | 3.95 |
| 136 | DHM 111 Non toxin (<i>A.flavus</i>) | 4.03 |
| 137 | DHM 111 check | 3.98 |
| 138 | Pinnacle (Biocontrol) | 4.08 |
| 139 | Pinnacle Non toxin salt (A.Bicarbonate) | 4.05 |
| 140 | Pinnacle Non toxin (<i>A.flavus</i>) | 4.18 |
| 141 | Pinnacle- check | 4.18 |
| 142 | Control DHM 111 | 3.90 |
| 143 | Malviya Makka | 3.70 |
| 144 | Navjot | 3.06 |
| 145 | Parkash | 3.31 |
| 146 | HQPM 1 | 3.37 |
| 147 | HQPM 5 | 3.97 |
| 148 | X 1280 | 4.10 |
| 149 | Bio 9681 | 4.28 |

Table 7: Most promising lines with higher sugar content

| S. No. | Pedigree | Sugar (%) |
|---------------|---|------------------|
| 1 | Insec 2 (k4) | 12.46 |
| 2 | Mas Madu (sh2 sh2) | 12.46 |
| 3 | Dulce Amanillo (susu) Dulee Blanco(susu) | 14.26 |
| 4 | Min Sweet | 10.20 |
| 5 | CUBA 379 | 20.40 |
| 6 | DMSC | 11.78 |
| 7 | WOSC | 13.42 |

5. Evaluation of maize germplasm for starch and carbohydrate estimation received from different sources

The major chemical component of maize kernel is starch, which provides around 70 per cent of kernel weight. Starch is defined as the polymeric carbohydrate consisting of glucose unit joined together through α - D (1- 4) glucoside bonds. The starch in maize is made up of two glucose polymers, amylose, an essential linear molecule and amylopectin a branched form. Corn endosperm contains in an appropriate ratio of three parts of amylopectin to one part of amylose. Waxy maize contains a starch that is 100 per cent amylopectin. An endosperm mutant called amylose extender induces an increase in the amylose proportion of the starch upto 50 per cent and higher.

A total of 90 different QPM & normal maize germplasm received from different sources, were analyzed for starch content (data presented in Table 8). The range of starch varied from 58.94 to 72.72 per cent with lowest and highest values being observed in the genotype HKI-31-2 and Buland, respectively. Out of ninety, forty-two lines were found to be having more than 70 per cent of starch (Table 9).

Data in Table 10 presents the values of waxy and amylose extender lines for carbohydrate profile. A total of 31 different waxy and amylose extender lines received from different sources were analyzed for starch, amylose in starch and amylopectin in starch. The range of amylose in starch varied from 2.81 to 55.82 per cent with lowest and highest values being observed in the genotypes EC 620071 and African Tall: White dent, respectively. Amylopectin content in starch ranges from 44.18 (African Tall: White dent) to 97.19 (EC 620071) per cent. As many as 15 lines were found to be having > 80% amylopectin in starch.

Table 8: Evaluation of QPM and normal germplasm received from different sources for starch estimation

| S. No. | Pedigree | Starch (%) |
|--------|-----------------|------------|
| 1 | HM 4 | 70.30 |
| 2 | HM 7 | 71.24 |
| 3 | HM 8 | 70.32 |
| 4 | HM 9 | 69.70 |
| 5 | HM 10 | 71.33 |
| 6 | HQPM 1 | 69.34 |
| 7 | HQPM 3 | 68.80 |
| 8 | HQPM 4 | 67.73 |
| 9 | HQPM 7 | 67.91 |
| 10 | Shaktiman 3 | 68.54 |
| 11 | Shaktiman 4 | 69.56 |
| 12 | HQPM 6 | 68.44 |
| 13 | HQPM 8 | 67.67 |
| 14 | Buland | 72.72 |
| 15 | Vivek Hybrid 25 | 71.34 |
| 16 | Vivek Hybrid 27 | 71.16 |

| | | |
|----|---------------------|-------|
| 17 | Prakash | 71.46 |
| 18 | PHM 1 | 70.81 |
| 19 | PHM 2 | 70.36 |
| 20 | FH 3356 | 71.18 |
| 21 | PAU 352 | 71.03 |
| 22 | JH 3459 | 70.04 |
| 23 | PEHM 1 | 69.71 |
| 24 | CLQRCYQ-47-B | 69.22 |
| 25 | CLQRCYQ-30 | 66.21 |
| 26 | CLQRCYQ-28 | 70.11 |
| 27 | CLQRCYQ-28 | 68.75 |
| 28 | CLQRCYQ-41 | 70.42 |
| 29 | CLQ 315 | 70.71 |
| 30 | LM 14 | 68.30 |
| 31 | HKI-1105 | 70.26 |
| 32 | HKI-1128 | 71.06 |
| 33 | HKI-1128 | 69.50 |
| 34 | LM-13-3 | 69.84 |
| 35 | CM 124 | 67.71 |
| 36 | HKI-17-2 | 69.33 |
| 37 | HKI-31-2 | 58.94 |
| 38 | HKI-34 (1+2)-1 | 70.42 |
| 39 | HKI-162-2 | 69.91 |
| 40 | HKI-164-4-(1-3)-2 | 69.29 |
| 41 | HKI-164-3(2-1)-1 | 69.18 |
| 42 | HKI-164-4-(1-3)-2-2 | 65.46 |
| 43 | HKI-164-4-(1-3) | 61.69 |
| 44 | HKI-164-4-(1-3)-2 | 67.71 |
| 45 | HKI-164-4-(1-3)-2 | 70.33 |
| 46 | HKI-164-3(2-1)-1 | 69.35 |
| 47 | HKI-164-D-3-3-2 | 72.00 |
| 48 | HKI-164-7-7 ER2 | 71.00 |
| 49 | HKI-164-7-6x161 | 69.48 |
| 50 | HKI-164-7-2 | 69.37 |
| 51 | HKI-164-7-6x161-2 | 62.45 |
| 52 | HKI-193-2-2 | 69.88 |
| 53 | HKI-5072-2BT | 64.22 |
| 54 | CML - 165 | 69.46 |
| 55 | CML - 167 | 69.33 |
| 56 | CML - 171 | 68.70 |
| 57 | CML - 172 | 68.21 |
| 58 | DMR-QPM 03-113 | 69.80 |
| 59 | DMR-QPM 58-26 | 70.20 |
| 60 | CML - 157 | 68.08 |
| 61 | CL-QRCYQ-47 | 70.72 |

| | | |
|----|---|-------|
| 62 | CLQRCYQ-47-B | 69.67 |
| 63 | CLQ-RCYQ-30 | 66.96 |
| 64 | CL Q-RCYQ-41 | 66.21 |
| 65 | CL Q-G-2507 | 69.03 |
| 66 | DMR-QPM 58 | 66.21 |
| 67 | HKI-193-2-2 | 72.23 |
| 68 | CLQRCYQ-47-B | 72.33 |
| 69 | CLQRCY Q30 | 67.71 |
| 70 | DMR-QPM 58 | 72.23 |
| 71 | HQPM 1 | 69.25 |
| 72 | Shaktiman IV | 68.71 |
| 73 | Pinnacle | 70.65 |
| 74 | DHM-111 | 70.54 |
| 75 | DHM-111 (Biocontrol) | 70.70 |
| 76 | DHM-111 Non toxin salt (A.Bicarbonate) | 70.80 |
| 77 | DHM-111 Non toxin (<i>A.flavus</i>) | 70.16 |
| 78 | DHM-111-check | 71.17 |
| 79 | Pinnacle (Biocontrol) | 71.04 |
| 80 | Pinnacle Non toxin salt (A.Bicarbonate) | 71.45 |
| 81 | Pinnacle Non toxin (<i>A.flavus</i>) | 70.70 |
| 82 | Pinnacle- check | 70.40 |
| 83 | Control DHM-111 | 70.18 |
| 84 | Malviya Makka | 70.82 |
| 85 | Navjot | 68.56 |
| 86 | Parkash | 69.87 |
| 87 | HQPM 1 | 70.53 |
| 88 | HQPM 5 | 69.79 |
| 89 | X 1280 | 71.27 |
| 90 | Bio 9681 | 70.46 |

Table 9: Germplasm having more than 70 per cent starch content

| S. No. | Pedigree | Starch (%) |
|--------|-----------------|------------|
| 1 | HM 4 | 70.30 |
| 2 | HM 7 | 71.24 |
| 3 | HM 8 | 70.32 |
| 4 | HM 10 | 72.72 |
| 5 | Buland | 72.72 |
| 6 | Vivek Hybrid 25 | 71.34 |
| 7 | Vivek Hybrid 27 | 71.16 |
| 8 | Prakash | 71.46 |
| 9 | PHM 1 | 70.81 |
| 10 | PHM 2 | 70.36 |
| 11 | FH 3356 | 71.18 |

| | | |
|----|---|-------|
| 12 | PAU 352 | 71.03 |
| 13 | JH 3459 | 70.04 |
| 14 | CLQRCYQ – 28 | 70.11 |
| 15 | CLQRCYQ – 41 | 70.42 |
| 16 | CLQ 315 | 70.71 |
| 17 | HKI-1105 | 70.26 |
| 18 | HKI-1128 | 71.06 |
| 19 | HKI-34 (1+2)-1 | 70.42 |
| 20 | HKI-164-4-(1-3)-2 | 70.33 |
| 21 | HKI-164-D-3-3-2 | 72.00 |
| 22 | HKI-164-7-7 ER2 | 71.00 |
| 23 | DMR QPM-58-26 | 70.20 |
| 24 | CL-QRCYQ-47 | 70.72 |
| 25 | HKI-193-2-2 | 72.23 |
| 26 | CLQRCYQ-47-B | 72.33 |
| 27 | DMR-QPM 58 | 72.23 |
| 28 | Pinnacle | 70.65 |
| 29 | DHM 111 | 70.54 |
| 30 | DHM 111 (Biocontrol) | 70.70 |
| 31 | DHM 111 Non toxin salt (A.Bicarbonate) | 70.80 |
| 32 | DHM 111 Non toxin (<i>A.flavus</i>) | 70.16 |
| 33 | DHM 111-check | 71.17 |
| 34 | Pinnacle (Biocontrol) | 71.04 |
| 35 | Pinnacle Non toxin salt (A.Bicarbonate) | 71.45 |
| 36 | Pinnacle Non toxin (<i>A.flavus</i>) | 70.70 |
| 37 | Pinnacle check | 70.40 |
| 38 | Control DHM 111 | 70.18 |
| 39 | Malviya Makka | 70.82 |
| 40 | HQPM 1 | 70.53 |
| 41 | X 1280 | 71.27 |
| 42 | Bio 9681 | 70.46 |

Table 10: Evaluation of waxy and amylose extender lines for carbohydrate profile

| S. No | Pedigree | Starch (%) | Amylose (%) | Amylose in starch (%) | Amylopectin in starch (%) |
|-------|-----------------------|------------|-------------|-----------------------|---------------------------|
| 1 | WSKHOTH AI-1-WAXY-1-1 | 64.75 | 12.56 | 19.40 | 80.60 |
| 2 | HYDO5 R/204-1 | 67.38 | 10.95 | 16.25 | 83.75 |
| 3 | HKI 3322 | 66.50 | 2.95 | 4.36 | 95.64 |
| 4 | EC 620055 | 64.05 | 2.68 | 4.18 | 95.82 |
| 5 | EC 620057 | 69.51 | 2.68 | 3.56 | 96.44 |
| 6 | EC 620058 | 70.40 | 2.82 | 4.01 | 95.99 |
| 7 | EC 620061 | 69.79 | 2.40 | 3.43 | 96.57 |

| | | | | | |
|----|---------------------------|-------|-------|-------|-------|
| 8 | EC 620062 | 68.32 | 4.43 | 6.48 | 93.52 |
| 9 | EC 620063 | 69.58 | 9.43 | 13.55 | 86.45 |
| 10 | EC 620064 | 69.00 | 3.25 | 4.71 | 95.29 |
| 11 | EC 620068 | 69.41 | 10.95 | 15.78 | 84.22 |
| 12 | EC 620071 | 65.37 | 1.84 | 2.81 | 97.19 |
| 13 | PLAIN Starch | 100 | 14.73 | 14.73 | 85.27 |
| 14 | Soluble Starch (modified) | 100 | 13.40 | 13.40 | 86.60 |
| 15 | Sample control | 99.9 | 15.19 | 15.21 | 84.79 |
| 16 | HQPM 1 | 70.59 | 28.71 | 40.67 | 59.33 |
| 17 | Prakash | 70.93 | 35.32 | 49.84 | 50.16 |
| 18 | Vivek Hybrid 17 | 72.00 | 37.48 | 53.36 | 46.64 |
| 19 | African Tall | 72.50 | 39.20 | 55.82 | 44.18 |
| 20 | HM 5 | 71.13 | 35.85 | 50.40 | 49.60 |
| 21 | HQPM 5 | 69.04 | 30.67 | 44.42 | 55.58 |
| 22 | CML - 73 | 71.99 | 35.31 | 49.05 | 50.95 |
| 23 | CML - 259 | 73.00 | 33.73 | 47.37 | 52.63 |
| 24 | CML - 41 | 70.37 | 32.18 | 45.73 | 54.27 |
| 25 | CML - 101 | 71.69 | 38.62 | 53.87 | 46.13 |
| 26 | V 341 | 72.23 | 35.85 | 51.05 | 48.95 |
| 27 | HKI-163 | 70.00 | 23.05 | 33.76 | 66.24 |
| 28 | HKI-193 | 74.20 | 26.37 | 38.66 | 61.34 |
| 29 | WIN - POP | 74.69 | 26.83 | 39.06 | 60.94 |
| 30 | WOSC | 53.84 | 13.94 | 29.89 | 70.11 |
| 31 | Hybrid-9471 | 75.06 | 25.45 | 35.46 | 64.54 |

Table 11. Some most promising lines with higher amylopectin in starch content

| S. No | Pedigree | Amylopectin in starch (%) |
|-------|-----------|---------------------------|
| 1 | HKI 3322 | 95.64 |
| 2 | EC 620055 | 95.82 |
| 3 | EC 620057 | 96.44 |
| 4 | EC 620058 | 95.99 |
| 5 | EC 620061 | 96.57 |
| 6 | EC 620062 | 93.52 |
| 7 | EC 620064 | 95.29 |
| 8 | EC 620071 | 97.19 |

6. Evaluation of QPM and normal germplasm for carotenoid and β -carotene estimation

Carotenoids and β -carotene:

Carotenoids are widely distributed natural pigments responsible for the yellow, orange, and red colors of fruits, roots, flowers etc. They invariably occur in the chloroplasts of higher plants, although in this photosynthetic tissue their color is masked by that of chlorophyll. Carotenoids are hydrophobic, lipophilic substances, and are virtually insoluble in water. The importance of carotenoids in foods goes beyond their role as natural pigments. Biological functions and actions have been increasingly attributed to these compounds. Indeed, the provitamin A activity of carotenoids has been known for a long time. Vitamin A is provided in the diet as preformed vitamin A (retinyl ester, retinol, retinal, 3-dehydroretinol, and retinoic acid) from foods of animal origin such as liver, milk and milk products, fish, and meat or as carotenoids that can be biologically transformed to vitamin A (provitamins A), generally from plant foods.

As presented in Table 12, a total of 154 different QPM and normal maize germplasm received from different sources were evaluated for carotenoids and β -carotene. Out of 154, 28 lines were found to possess more than 25 $\mu\text{g/g}$ carotenoid content and only 12 lines were having 5 or more than 5 $\mu\text{g/g}$ β -carotene content. The carotenoid content ranges from 0.28 (72460-1) to 34.13 (MAP 128) $\mu\text{g/g}$ whereas the range of β -carotene was 0.08 to 9.91 $\mu\text{g/g}$ with lowest values being observed in MAP 129 and highest in the genotype MASQPM CM-138-2989-2.

Table 12: Evaluation of QPM and normal germplasm received from different sources for carotenoid and β -carotene estimation

| S. No. | Pedigree | Carotenoid ($\mu\text{g/g}$) | β -Carotene ($\mu\text{g/g}$) |
|--------|-----------------|--------------------------------|---------------------------------------|
| 1 | HM 4 | 30.19 | 2.49 |
| 2 | HM 7 | 23.08 | 1.57 |
| 3 | HM 8 | 29.33 | 2.27 |
| 4 | HM 9 | 23.73 | 2.23 |
| 5 | HM 10 | 24.00 | 6.84 |
| 6 | HQPM 1 | 19.34 | 1.17 |
| 7 | HQPM 3 | 24.00 | 1.83 |
| 8 | HQPM 4 | 31.05 | 4.55 |
| 9 | HQPM 7 | 25.81 | 4.77 |
| 10 | Shaktiman 3 | 28.17 | 1.83 |
| 11 | Shaktiman 4 | 28.52 | 2.02 |
| 12 | HQPM 6 | 31.05 | 1.26 |
| 13 | HQPM 8 | 29.33 | 1.26 |
| 14 | Buland | 30.62 | 1.83 |
| 15 | Vivek Hybrid 25 | 16.05 | 1.08 |
| 16 | Vivek Hybrid 27 | 22.26 | 2.02 |

| | | | |
|----|---------------------|-------|------|
| 17 | Prakash | 28.95 | 1.45 |
| 18 | PHM 1 | 19.98 | 1.07 |
| 19 | PHM 2 | 32.33 | 2.75 |
| 20 | FH 3356 | 21.94 | 1.64 |
| 21 | PAU 352 | 31.48 | 8.60 |
| 22 | JH 3459 | 31.91 | 7.23 |
| 23 | PEHM 1 | 25.81 | 2.62 |
| 24 | Sagam L-1 | 1.52 | 0.27 |
| 25 | Sagam L-2 | 0.75 | 0.27 |
| 26 | CLQRCYQ-47-B | 12.49 | 1.04 |
| 27 | CLQRCYQ-30 | 25.81 | 1.40 |
| 28 | CLQRCYQ-28 | 16.70 | 0.51 |
| 29 | CLQRCYQ-28 | 12.45 | 0.34 |
| 30 | CLQRCYQ-41 | 5.54 | 0.60 |
| 31 | CLQ 315 | 0.51 | 0.17 |
| 32 | LM 14 | 12.91 | 1.40 |
| 33 | HKI-1105 | 18.81 | 6.96 |
| 34 | HKI-1128 | 10.77 | 1.22 |
| 35 | HKI-1128 | 15.22 | 1.31 |
| 36 | LM-13-3 | 18.26 | 0.68 |
| 37 | CM 124 | 25.60 | 0.86 |
| 38 | HKI-17-2 | 27.40 | 1.95 |
| 39 | HKI-31-2 | 21.68 | 0.86 |
| 40 | HKI-34 (1+2)-1 | 24.24 | --- |
| 41 | HKI-162-2 | 17.73 | 0.31 |
| 42 | HKI-164-4-(1-3)-2 | 17.21 | 0.31 |
| 43 | HKI-164-3(2-1)-1 | 22.64 | 0.51 |
| 44 | HKI-164-4-(1-3)-2-2 | 16.04 | 0.68 |
| 45 | HKI-164-4-(1-3) | 11.72 | 0.68 |
| 46 | HKI-164-4-(1-3)-2 | 2.16 | 1.40 |
| 47 | HKI-164-4-(1-3)-2 | 1.96 | 1.04 |
| 48 | HKI-164-3(2-1)-1 | 2.39 | 0.68 |
| 49 | HKI-164-D-3-3-2 | 1.42 | 0.60 |
| 50 | HKI-164-7-7 ER2 | 0.84 | 0.34 |
| 51 | HKI-164-7-6x161 | 2.93 | 4.16 |
| 52 | HKI-164-7-2 | 1.16 | 2.14 |
| 53 | HKI-164-7-6x161-2 | 21.59 | 0.86 |
| 54 | HKI-193-2-2 | 2.20 | 1.04 |
| 55 | HKI 5072-2BT | 16.70 | 3.02 |
| 56 | CML - 165 | 22.32 | 2.53 |
| 57 | CML - 167 | 16.70 | 3.95 |
| 58 | CML - 171 | 7.66 | 1.86 |
| 59 | CML - 172 | 6.58 | 0.86 |
| 60 | DMR QPM 03-113 | 1.43 | 0.60 |
| 61 | DMR QPM 58-26 | 31.00 | 3.74 |

| | | | |
|-----|--------------------------|-------|------|
| 62 | CML - 157 | 2.02 | 0.31 |
| 63 | CL-QRCYQ-47 | 6.94 | 0.60 |
| 64 | CLQRCYQ-47-B | 3.42 | 0.69 |
| 65 | CLQ-RCYQ-30 | 18.40 | 1.31 |
| 66 | CL Q-RCYQ-41 | 9.25 | 0.68 |
| 67 | CL Q-G-2507 | 12.03 | 0.69 |
| 68 | DMR QPM 58 | 19.94 | 0.87 |
| 69 | HKI-193-2-2 | 10.37 | 0.87 |
| 70 | CLQRCYQ-47-B | 7.16 | 0.87 |
| 71 | CLQRCY Q30 | 18.27 | 1.68 |
| 72 | DMR QPM 58 | 23.60 | 1.59 |
| 73 | MASQPM CM-137 2985-3 | 25.81 | 7.48 |
| 74 | MASQPM CM-138 2989-2 | 24.76 | 9.91 |
| 75 | MASQPM CM-150 2992-3 | 19.65 | 8.55 |
| 76 | MASQPM CM140 2999-3 | 28.13 | 5.74 |
| 77 | MASQPM CM151 3004-1 | 18.40 | 5.09 |
| 78 | HKI 193-1 2961 | 10.70 | 0.17 |
| 79 | DMRQPM-58 MAP 174 | 32.32 | 1.59 |
| 80 | DMRQPM-28 MAP 175 (3135) | 12.24 | 3.39 |
| 81 | VOL-1-MAP-118 (3185) | 18.40 | 3.39 |
| 82 | VOL-5-MAP-161 (3097) | 17.80 | 0.87 |
| 83 | CM-212-MAP-76 (3142) | 18.40 | 0.87 |
| 84 | CM-140-MAP-106 | 19.02 | 0.68 |
| 85 | HQPM 1 | 13.02 | 0.86 |
| 86 | Prakash | 20.29 | 0.86 |
| 87 | Vivek Hybrid 17 | 13.82 | 0.60 |
| 88 | African Tall | 0.56 | 0.17 |
| 89 | HM 5 | 9.43 | 0.17 |
| 90 | HQPM 5 | 22.94 | 1.04 |
| 91 | CML -73 | 29.33 | 2.53 |
| 92 | CML - 259 | 2.44 | 0.17 |
| 93 | CML - 41 | 13.54 | 1.49 |
| 94 | CML - 101 | 1.91 | 0.34 |
| 95 | V 341 | 11.98 | 1.13 |
| 96 | HKI-163 | 14.64 | 1.49 |
| 97 | HKI-193 | 10.46 | 0.77 |
| 98 | WIN - POP | 21.26 | 0.68 |
| 99 | WOSC | 8.08 | 0.25 |
| 100 | Hybrid-9471 | 19.33 | 1.10 |
| 101 | 2568 | 0.56 | --- |
| 102 | 2575 | 28.17 | 0.51 |
| 103 | 2577 | 1.43 | 0.17 |
| 104 | 72291-5 | 18.53 | 1.04 |
| 105 | 72313-1 | 10.77 | 0.34 |
| 106 | 72318-10 | 13.35 | 0.51 |
| 107 | 72324-9-13 | 0.84 | 0.34 |
| 108 | 72329-2 | 16.70 | 0.50 |

| | | | |
|-----|----------|-------|------|
| 109 | 72460-1 | 0.28 | 0.25 |
| 110 | 72508-7 | 17.73 | 3.74 |
| 111 | 72582-14 | 9.18 | 2.14 |
| 112 | 72584-3 | 11.18 | 0.60 |
| 113 | 72817-2 | 15.45 | 0.60 |
| 114 | 72827-2 | 9.56 | 0.68 |
| 115 | MAP-101 | 19.29 | 0.51 |
| 116 | MAP-107 | 27.14 | 1.04 |
| 117 | MAP-108 | 22.57 | 6.34 |
| 118 | MAP-112 | 18.14 | 1.22 |
| 119 | MAP-114 | 19.62 | 5.51 |
| 120 | MAP-116 | 8.55 | 1.40 |
| 121 | MAP-118 | 2.96 | 4.82 |
| 122 | MAP-121 | 15.50 | 1.04 |
| 123 | MAP-124 | 19.02 | 1.10 |
| 124 | MAP-130 | 18.71 | 3.53 |
| 125 | MAP-137 | 19.02 | 1.31 |
| 126 | MAP-142 | 20.29 | 3.53 |
| 127 | MAP-144 | 21.59 | 1.77 |
| 128 | MAP-145 | 22.26 | 1.13 |
| 129 | MAP-146 | 1.51 | 0.25 |
| 130 | MAP-147 | 23.29 | 0.51 |
| 131 | MAP-148 | 24.35 | 3.53 |
| 132 | MAP-151 | 20.29 | 0.86 |
| 133 | MAP-152 | 14.63 | 0.77 |
| 134 | MAP-163 | 28.90 | 1.95 |
| 135 | MAP-165 | 25.46 | 1.13 |
| 136 | MAP-167 | 23.64 | 1.04 |
| 137 | MAP-168 | 13.82 | 0.34 |
| 138 | MAP-176 | 23.99 | 4.60 |
| 139 | MAP-102 | 19.64 | 1.31 |
| 140 | MAP-103 | 22.26 | 2.24 |
| 141 | MAP-105 | 21.59 | 1.77 |
| 142 | MAP-109 | 19.95 | 1.77 |
| 143 | MAP-111 | 22.26 | 5.51 |
| 144 | MAP-113 | 23.64 | 1.58 |
| 145 | MAP-115 | 16.04 | 1.95 |
| 146 | MAP-117 | 20.60 | 4.27 |
| 147 | MAP-120 | 22.94 | 0.8 |
| 148 | MAP-122 | 11.72 | 2.72 |
| 149 | MAP-123 | 22.26 | 0.34 |
| 150 | MAP-125 | 19.02 | 0.77 |
| 151 | MAP-126 | 25.46 | 0.17 |
| 152 | MAP-127 | 6.94 | 0.60 |
| 153 | MAP-128 | 34.13 | 0.34 |
| 154 | MAP-129 | 20.29 | 0.08 |

7. Electrophoretic analysis of zein protein in maize germplasm

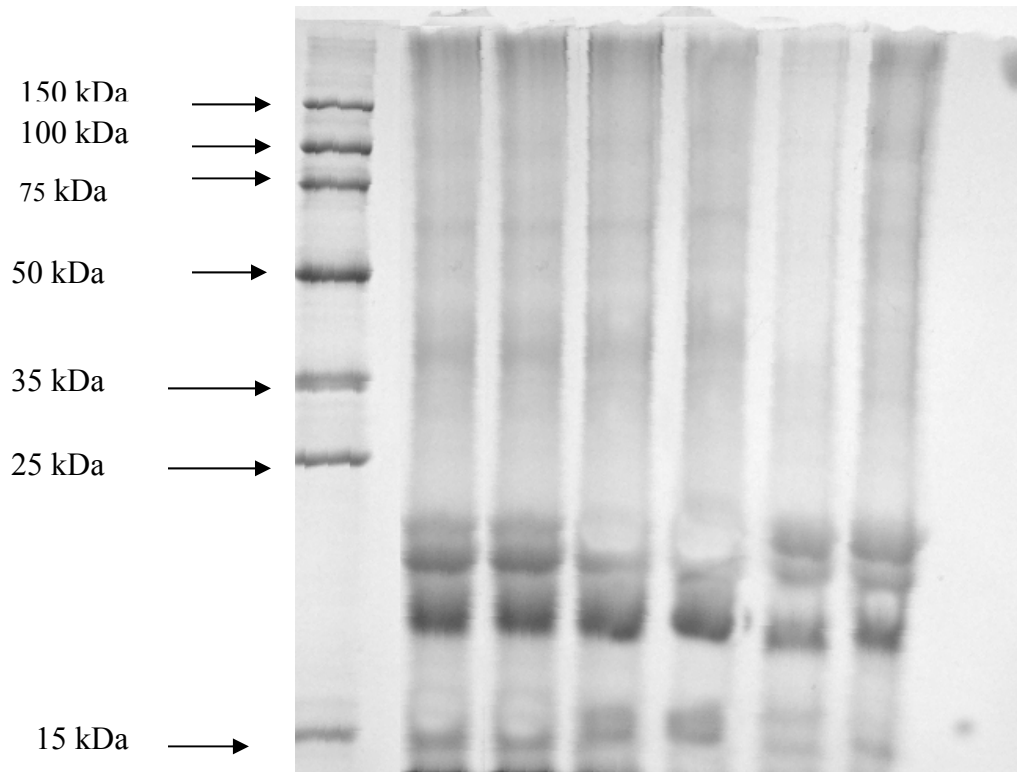


Fig. 3: SDS PAGE profile of zein protein from maize cultivars

Lane 0: Standard molecular marker

Lane 1: HM 4

Lane 2: HM 7

Lane 3: HQPM 1

Lane 4: HQPM 4

Lane 5: Sweet Corn (Win Orange)

Lane 6: Sweet Corn (Hybrid).

Total zein protein of cultivar was extracted by the method of Bryan et al., (2003). The zein protein profile was almost similar in normal maize (HM 4, HM 7) and Sweet Corn maize except low abundance of α zein protein (19 kDa) in sweet corn. The normal maize cultivars have abundance of α zein protein (19 kDa, 22 kDa) as shown in lane 1 & 2 of fig 4. Whereas both QPM cultivars have abundance of γ zein protein (16 kDa) and lacking of 22 kDa α zein protein as shown in lane 3 & 4 of fig 4.

8. Biochemical characterization of normal and insect infested maize germplasm

Biochemical and physical properties of 16 germplasm belonging to different grain types were studied before and after infestation by *Sitotroga cerealella*. Starch, tryptophan, oil, sugar and carotene content were found to be reduced after infestation (Table 15- 20). The amylose and percentage of protein increase due to presence of insect body fragments and frass (Table 13 - 14).

Table 13: Evaluation of normal and insect infested maize germplasm for protein

| S. No. | Pedigree | Protein (%) | |
|--------|------------------|------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 10.16 | 10.18 |
| 2 | PRAKASH | 10.61 | 11.02 |
| 3 | VIVEK HYBRID -17 | 8.98 | 9.01 |
| 4 | AFRICAN TALL | 9.00 | 9.11 |
| 5 | HM-5 | 10.78 | 10.79 |
| 6 | HQPM-5 | 9.67 | 9.69 |
| 7 | CML-73 | 10.30 | 10.33 |
| 8 | CML-259 | 11.43 | 11.48 |
| 9 | CML-41 | 10.98 | 11.22 |
| 10 | CML-101 | 10.24 | 10.47 |
| 11 | V-341 | 9.24 | 9.67 |
| 12 | HKI-163 | 9.04 | 9.52 |
| 13 | HKI-193 | 9.67 | 9.75 |
| 14 | WINPOP | 13.67 | 13.80 |
| 15 | WOSC | 13.64 | 14.65 |
| 16 | HYBRID-9415 | 9.67 | 10.33 |

Table 14: Evaluation of normal and insect infested maize germplasm for amylose in starch

| S. No. | Pedigree | Amylose in starch (%) | |
|--------|------------------|-----------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 28.71 | 35.45 |
| 2 | PRAKASH | 35.32 | 41.63 |
| 3 | VIVEK HYBRID -17 | 37.48 | 32.30 |
| 4 | AFRICAN TALL | 39.20 | 35.44 |
| 5 | HM-5 | 35.85 | 37.62 |
| 6 | HQPM-5 | 30.67 | 34.37 |
| 7 | CML-73 | 35.31 | 38.77 |
| 8 | CML-259 | 33.73 | 39.91 |
| 9 | CML-41 | 32.18 | 33.85 |
| 10 | CML-101 | 38.62 | 37.10 |
| 11 | V-341 | 35.85 | 41.09 |

| | | | |
|----|-------------|-------|-------|
| 12 | HKI-163 | 23.05 | 30.28 |
| 13 | HKI-193 | 26.37 | 36.53 |
| 14 | WINPOP | 26.83 | 39.91 |
| 15 | WOSC | 13.94 | 20.30 |
| 16 | HYBRID-9415 | 25.45 | 30.28 |

Table 15: Evaluation of normal and insect infested maize germplasm for starch

| S. No. | Pedigree | Starch (%) | |
|--------|------------------|------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 70.59 | 66.86 |
| 2 | PRAKASH | 70.93 | 67.90 |
| 3 | VIVEK HYBRID -17 | 72.00 | 71.67 |
| 4 | AFRICAN TALL | 72.50 | 70.92 |
| 5 | HM-5 | 71.13 | 67.04 |
| 6 | HQPM-5 | 69.04 | 67.49 |
| 7 | CML-73 | 71.99 | 69.85 |
| 8 | CML-259 | 73.00 | 72.14 |
| 9 | CML-41 | 70.37 | 70.05 |
| 10 | CML-101 | 71.69 | 71.61 |
| 11 | V-341 | 72.23 | 71.32 |
| 12 | HKI-163 | 70.00 | 68.85 |
| 13 | HKI-193 | 74.20 | 72.02 |
| 14 | WINPOP | 74.69 | 72.26 |
| 15 | WOSC | 53.84 | 50.16 |
| 16 | HYBRID-9415 | 75.06 | 72.14 |

Table 16: Evaluation of normal and insect infested maize germplasm for tryptophan in protein

| S. No. | Pedigree | Tryptophan in protein (%) | |
|--------|------------------|---------------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 0.68 | 0.60 |
| 2 | PRAKASH | 0.34 | 0.35 |
| 3 | VIVEK HYBRID -17 | 0.37 | 0.31 |
| 4 | AFRICAN TALL | 0.40 | 0.34 |
| 5 | HM-5 | 0.37 | 0.35 |
| 6 | HQPM-5 | 0.66 | 0.31 |
| 7 | CML-73 | 0.38 | 0.38 |
| 8 | CML-259 | 0.29 | 0.32 |
| 9 | CML-41 | 0.33 | 0.33 |
| 10 | CML-101 | 0.38 | 0.37 |
| 11 | V-341 | 0.52 | 0.46 |
| 12 | HKI-163 | 0.67 | 0.61 |
| 13 | HKI-193 | 0.80 | 0.75 |

| | | | |
|----|-------------|------|------|
| 14 | WINPOP | 0.34 | 0.44 |
| 15 | WOSC | 0.40 | 0.51 |
| 16 | HYBRID-9415 | 0.47 | 0.43 |

Table 17: Evaluation of normal and insect infested maize germplasm for sugar

| S. No. | Pedigree | Sugar (%) | |
|--------|------------------|------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 4.42 | 2.70 |
| 2 | PRAKASH | 4.18 | 1.62 |
| 3 | VIVEK HYBRID -17 | 5.21 | 1.96 |
| 4 | AFRICAN TALL | 5.34 | 3.10 |
| 5 | HM-5 | 5.04 | 2.76 |
| 6 | HQPM-5 | 5.75 | 2.86 |
| 7 | CML-73 | 5.16 | 2.49 |
| 8 | CML-259 | 5.54 | 2.43 |
| 9 | CML-41 | 5.31 | 2.23 |
| 10 | CML-101 | 4.86 | 2.78 |
| 11 | V-341 | 4.03 | 2.39 |
| 12 | HKI-163 | 5.70 | 2.23 |
| 13 | HKI-193 | 7.75 | 2.16 |
| 14 | WINPOP | 5.86 | 1.62 |
| 15 | WOSC | 13.42 | 3.18 |
| 16 | HYBRID-9415 | 4.88 | 1.94 |

Table 18: Evaluation of normal and insect infested maize germplasm for oil

| S. No. | Pedigree | Oil on dry basis (%) | |
|--------|------------------|----------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 4.54 | 4.53 |
| 2 | PRAKASH | 4.18 | 3.78 |
| 3 | VIVEK HYBRID -17 | 4.34 | 2.97 |
| 4 | AFRICAN TALL | 5.14 | 5.05 |
| 5 | HM-5 | 3.58 | 3.27 |
| 6 | HQPM-5 | 4.85 | 4.56 |
| 7 | CML-73 | 3.10 | 2.66 |
| 8 | CML-259 | 4.00 | 3.83 |
| 9 | CML-41 | 5.12 | 4.47 |
| 10 | CML-101 | 2.65 | 1.96 |
| 11 | V-341 | 3.46 | 2.76 |
| 12 | HKI-163 | 3.83 | 2.89 |
| 13 | HKI-193 | 5.48 | 5.00 |
| 14 | WINPOP | 3.26 | 2.97 |
| 15 | WOSC | 12.09 | 11.88 |
| 16 | HYBRID-9415 | 3.78 | 3.25 |

Table 19: Evaluation of normal and insect infested maize germplasm for carotenoid

| S. No. | Pedigree | Carotenoid ($\mu\text{g/g}$) | |
|--------|------------------|--------------------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 13.02 | 10.96 |
| 2 | PRAKASH | 20.29 | 18.41 |
| 3 | VIVEK HYBRID -17 | 13.82 | 14.09 |
| 4 | AFRICAN TALL | 0.56 | 0.38 |
| 5 | HM-5 | 0.94 | 0.57 |
| 6 | HQPM-5 | 22.94 | 19.65 |
| 7 | CML-73 | 29.33 | 24.72 |
| 8 | CML-259 | 2.40 | 0.94 |
| 9 | CML-41 | 13.54 | 12.75 |
| 10 | CML-101 | 1.91 | 1.13 |
| 11 | V-341 | 11.98 | 10.71 |
| 12 | HKI-163 | 14.84 | 14.37 |
| 13 | HKI-193 | 10.46 | 6.49 |
| 14 | WINPOP | 21.26 | 17.50 |
| 15 | WOSC | 8.08 | 6.49 |
| 16 | HYBRID-9415 | 19.33 | 15.76 |

Table 20: Evaluation of normal and insect infested maize germplasm for carotene

| S. No. | Pedigree | β -carotene ($\mu\text{g/g}$) | |
|--------|------------------|---------------------------------------|-----------------|
| | | Before Infection | After Infection |
| 1 | HQPM-1 | 2.15 | 1.93 |
| 2 | PRAKASH | 2.15 | 2.82 |
| 3 | VIVEK HYBRID -17 | 1.11 | 2.59 |
| 4 | AFRICAN TALL | 0.42 | 0.64 |
| 5 | HM-5 | 0.42 | 0.42 |
| 6 | HQPM-5 | 2.59 | 2.82 |
| 7 | CML-73 | 6.32 | 1.49 |
| 8 | CML-259 | 0.42 | 0.26 |
| 9 | CML-41 | 3.72 | 1.93 |
| 10 | CML-101 | 0.85 | 0.42 |
| 11 | V-341 | 2.82 | 2.59 |
| 12 | HKI-163 | 3.72 | 3.27 |
| 13 | HKI-193 | 1.93 | 1.06 |
| 14 | WINPOP | 1.71 | 2.15 |
| 15 | WOSC | 0.64 | 1.27 |
| 16 | HYBRID-9415 | 2.76 | 1.60 |