

Annual Progress Report Kharif Maize

2013



All India Coordinated Research Project on Maize
Directorate of Maize Research
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SUMMARY

SUMMARY

Breeding

During kharif 2013, in total 288 maize entries were received for testing in different all India coordinated trials. All the entries were evaluated in sixteen breeding trials [four each of initial varietal trials (IVT), advance varietal trials-I (AVT-I), advance varietal trials-II (AVT-II) and specialty corns] at 36 locations (29 regulars and 7 volunteer) across country. The trial of IVT and AVT-I- late maturity were not allotted in zone-I, this is because of no requirement of late maturity genotypes in this zone. Out of total 288 genotypes, 185 entries were evaluated in IVT, 46 were in AVT-I, 35 in AVT-II, 6 entries in quality protein maize (QPM), 8 in sweet corn, 5 in popcorn and 3 in baby corn trials. Total of 22 checks belonging to different maturity groups were used in 16 different breeding trials constituted for various maturity groups and types of corns. Percentage success rate for various zones were calculated based on the number of trials allotted and reported from the various centers of in the zone. Success rate of trials reporting from various zones ranges from 65.9 (zone-II) to 91.2 (zone IV). Similarly the success rate of each center was also calculated based on the trials allotted versus reported. It was ranging from 0 to 100 percentages. Kanpur in zone II and Gossaigaon in zone I were the two centers where all the allotted trials were rejected due to poor management of the trials. The test entries were promoted from IVT to AVT-I and AVT-I to AVT-II, based on the 5% (in late maturity, QPM, sweet corn, popcorn and baby corn trials) and 10% (in medium, early and extra early trials) superiority over the best check in respective zones. In case of late, medium, early and extra early maturity, beside yield superiority, days to 75% yellow husk and 50% silking and anthesis, are also considered as another important criteria. If C.V. value found more than 20% for a trial in any of location, then the data of those trials are rejected from the final analysis.

Breeder Seed Production

A total of 60.33 quintal of breeder seed of maize hybrids and OPVs was indented by Department of Agriculture and cooperation, Ministry of Agriculture, GOI and allocated to the twelve AICRP centres. 15 OPVs and parental lines of 17 hybrids were included in the breeder seed programme. AS per BSP IV, 63.65 quintals of breeder seed has been produced as on March 4, 2014. Of these, eight OPVs and parental lines of nine hybrids are being produced in the current rabi season (2013-14).

Agronomy

During *Kharif* 2013 the major agronomic research areas were tillage and crop establishment, nutrient management especially site specific nutrient management (SSNM), quantification of nutrients requirement of different released promising maize hybrids, development of suitable intercrop and planting system under rainfed conditions, water management in spring maize and weed management in maize and maize based cropping systems under different agro-ecologies.

Evaluation of pre-release hybrids under varying nutrient levels: A total of thirty five pre-release hybrids of different maturity groups were evaluated with ten national checks under three nutrient levels (N:P₂O₅:K₂O kg/ha) i.e. 100:40:40, 150:50:60 and 200:60:80 for extra early and early maturity hybrids however, medium and late maturing hybrids were evaluated with 150:50:60,

200:65:80, 250:80:100 nutrient levels at 17 centers of all the five maize growing zones of the country. Hybrids of different maturity group responded differentially to varying nutrient levels in different agro-ecologies of the country. The hybrids of extra early maturity group responded up to 150:50:60 Kg/ha N:P₂O₅:K₂O at two locations (Ranchi and Vagari), upto 200:60:80 at five locations (Almora, Dholi, Kolhapur, Chhindwara and Godhara). However, the early maturing hybrids responded to N:P₂O₅:K₂O levels up to 150:50:60 kg/ha at two locations (Bhubaneswar and Ranchi) and 200:60:80 kg/ha at three locations (Almora, Bajaura and Karimnagar). While the medium maturity group hybrids responded up to 150:50:60 Kg/ha N:P₂O₅:K₂O at only one location (Bahraich) and 200:65:80 at two locations (Kangra and Hyderabad). The late maturity group hybrids responded up to 150:50:60 Kg/ha N:P₂O₅:K₂O at one location (Kangra) and 250:80:100 at three locations (Bhubaneswar, Karimnagar and Hyderabad).

Effect of planting systems and intercropping with and without residue retention under rain-fed conditions: Planting of maize in Paired row (84:50cm) resulted higher yield over to uniform row planting (67cm) at Srinagar, Ambikapur, Banswara and Udaipur. Retention of residue@ 5t/ha as mulch gave significant positive effect on maize yield attributes and yield at Bajaura, Srinagar, Ranchi, Ambikapur, Banswara and Udaipur. Under intercropping situation of maize with legume crops differential response was observed at different locations *viz*; improvement in maize yield was found with intercropping of soybean compared to black gram at Bajaura, Ambikapur, Udaipur and black gram compared to soybean at Ranchi and Banswara.

Nutrient management in maize-wheat-green gram cropping system under different tillage practices: Planting of maize under permanent bed gave significantly higher yield at Karnal, Delhi and Dholi locations by 13.2, 30.7 and 10.3 percent, respectively over conventional till planting. However, the method of conventional till planting gave highest yield at Pantnagar by 14.3 and 17.6 per cent over permanent bed and zero till planting, respectively. These results suggest that there is no universal planting method which is found suitable for various agro-ecologies. Hence, the site specific conservation agriculture based tillage interventions are essentially required for sustaining the higher yield of maize-wheat-green gram cropping system.

Among the nutrient management practices, nutrient expert based site-specific nutrient management (SSNM) gave significantly higher yield at Banswara, Delhi and Dholi which was at par to the RDF. However, the application of RDF at Karnal and Pantnagar locations gave highest yield which was at par to SSNM. These studies suggest that the nutrient expert based SSNM practice is giving at par or superior yield at various locations of the country and also found suitable for balanced nutrient prescriptions of the soil.

Nutrient management in maize-chickpea/mustard cropping system under different tillage practices under limited moisture conditions: The zero till planting of maize out yielded at Delhi by 7.6 and 28.3 per cent over conventional tillage and permanent bed, respectively. However, tillage practices could not made any significant effect on the maize productivity/yield at Chhindwara. Among the nutrient management practices, nutrient expert based SSNM gave significantly higher yield at Delhi location which was at par to the RDF. However, the SSNM gave 21.2 percent higher yields over to conventional fertilization practices (RDF) at Chhindwara.

Nutrient requirement of maize hybrids under different cropping systems: This trial was conducted at seven locations under maize-wheat system. Among the nutrient management practices, SSNM based on the nutrient expert gave 5.8, 2.2, 7.1, 13.3 and 14.5 per cent higher yield of maize over recommended fertilizer practices (RDF) at Jhabua, Banswara, Udaipur, Bajaura, and Kanpur locations, respectively. However, the nutrient expert based SSNM practice of fertilizer management remained statistically at par to RDF at four locations *i.e.* Delhi, Karnal, Ludhiana and Banswara. Among the various maize hybrids tested, CMH-08-350 out-yielded at Jhabua while it remained at par to CMH-08-292 at Banswara and Ranchi over to others hybrids. The PMH-1 maize hybrid gave significantly higher yield over to others hybrids and which remained at par to PMH-3 at Ludhiana and Bajaura locations. At Karnal location the HQPM-1 maize hybrid gave significantly higher yield which remained on par with PMH-3 and PMH-4 maize hybrids. However, at Udaipur and Delhi centres PMH-3 maize hybrid out-yielded to all other tested maize hybrids.

In maize-chickpea system, 15.0 and 16.2 per cent higher grain yield of maize was obtained with SSNM at Kanpur and Bahraich locations, respectively over RDF. Among the various maize hybrids tested, CHM-08-292 out yielded over to all tested maize hybrids at both the locations which remained at par to PMH-4 maize hybrid at Kanpur and CMH-08-287 and PMH-1 maize hybrids at Bahraich. The adoption of SSNM gave 9.6 and 18.0 per cent higher maize grain yield over RDF at Ambikapur and Chhindwara locations in maize-mustard cropping sequence. At both the locations, PMH-3 maize hybrid out-yielded to all other maize hybrids which remained at par to PMH-1 hybrid at Ambikapur.

The application of RDF in rice-maize system at Hyderabad gave significantly higher yield, which remained at par with SSNM based nutrient management. However, among the tested maize hybrids the PMH-1 gave significantly higher yield over to other hybrids except CMH-08-292 which remained at par with this. Among the maize hybrids tested as single crop under rainfed conations at two locations, CMH-08-287 gave significantly higher yield at Arbhavi while PMH-1 out-yielded at Karimnagar but remained at par with CMH-08-292. The SSNM based nutrient management practices resulted significantly higher yield at Arbhavi while it remained statistically same with RDF.

Water management in spring maize: The grain yield and irrigation water use of spring maize was affected remarkably with residue mulch and irrigation treatments. Residue mulch had significantly higher grain yield under most water management options except farmers practice. Precision irrigation practices saved upto 66 % irrigation water compared to farmers practice. In terms of maize yield, drip irrigation at 45 KPa with residue mulch was as good as flood irrigation with water saving of 4232 m³/ha wherein the irrigation water productivity increased from 1.59 to 4.37 m³/ha.

Weed management strategies for diverse weed flora in maize based cropping systems: Pre-emergence application of Atrazine @ 1.0 kg/ha was found the most effective weed management treatment at Chhindwara (3.4 t/ha) and Jhabua (4.7 t/ha). While, at Arbhavi, pre-emergence application of Pendimethalin @1.0 kg/ha as followed by one hand weeding at 25 DAS was found the best treatment in controlling the complex weed flora and getting highest yield of maize (6.4t/ha).

Tillage, residue management and mulching in maize systems: The highest maize yield (5.02 t/ha) was observed under zero tillage management with crop residue retention in maize-wheat cropping system at Udaipur, which was 18.8 and 38.4 % significantly higher over bed planting and conventional tillage.

Pathology & Nematology

A total of 321 maize genotypes in 10 trials of different maturity groups at 15 hot spot locations were evaluated under artificial epiphytotic condition against various diseases *viz.* Maydis leaf blight (MLB), Turicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Brown stripe downy mildew (BSDM), Rajasthan downy mildew (RDM), Curvularia leaf spot (CLS), Post-flowering stalk rots (PFSR), Cyst nematode, Common rust and Erwinia stalk rot (ESR). A total of 17 genotypes in AVT I & AVT II (late maturity), 8 genotypes in AVT I & AVT II medium maturity, 8 genotypes in AVT I & AVT II (early maturity) and 7 genotypes in AVT I & AVT II extra early maturity were identified as resistant .

- **AVI I & AVT II (late maturity),:** FMH-11195 (FSR, CLS), JH 31601 (FSR, RDM ,SDM), JH 31555 (FSR, MLB), CMH 10-477 (TLB, RDM, FSR), P3491(X35B391) (RDM, CLS), P3596(X35B396) (CLS, MLB),LTH-22 (ESR, CLS),CP-802 (RDM, CLS),CMH 10-540 (FSR), ESR), X35B390 (MLB, FSR, CLS), CMH 09-464 (MLB, CLS), MCH-46 (MLB, PFSR FSR, ESR), S 6668 (MLB, PFSR FSR, CLS), HTMH 5106 (MLB, FSR), PFMH-97 I 57(AMAR) (FSR, ESR), PMH 1 (FSR, RDM), PMH 3 (MLB, FSR)
- **AVT I & AVT II (medium maturity):** KMH-25K-45 (MLB, ESR), NMH-1276 (MLB, FSR, CLS), X35B403 (MLB, FSR, CLS), S-6790 (TLB, FSR, RDM, CLS), EHL-2211 (MLB, TLB, FSR, RDM, CLS), Bio 719 (MLB, PFSR FSR), EH-1974 (MLB, FSR), M8 (FSR, SDM)
- **AVT I & AVT II (early maturity):** FH-3609 (FSR, RDM), FH-3626 (MLB, RDM),FH-3605 (MLB, PFSR FSR, RDM), CMH 10-484 (TLB, RDM),KMH-7021 (FSR, CLS),CMH 10-531 (MLB, RDM, CLS),EHL 162508 (MLB, FSR, CLS), FH-3548 (MLB, FSR, RDM)
- **AVT I & AVT II (extra early maturity):** FH-3594 (RDM,CLS), DH-238 (CLS),DH-262 (CLS), K-75 (FSR), FH-3556 (RDM, CLS), FH-3558 (CLS) and FH-3555 (FSR)

Evaluation of inbred lines for diseases resistance: A total of 481 inbred lines were evaluated against major diseases of maize under artificial epiphytotic conditions during *Kharif* 2013 at various hot spot locations *viz.*; MLB at Delhi, Ludhiana and Karnal; TLB at Almora, Bajaura and Mandya; BLSB at Delhi, Karnal, Pantnagar, Dhaulakuan and Udaipur; SDM at Mandya; C. Rot at Ludhiana, DMR and Hyderabad; FSR and RDM at Udaipur; ESR at Pantnagar; CLS at Udaipur and Dhaulakuan. Out of them 19 lines against MLB; 26 lines against TLB; 12 lines against BLSB; 03 lines against PFSR; 01 lines against SDM; 11 lines against RDM; 41 lines against CLS were found resistant. A total of 113 inbred lines with resistance to more than one disease are HKI 1040-11-7 (FSR, CLS), DMSC16-2 (FSR, MLB, BLSB), DMRQPM 03-113 (TLB, FSR, BLSB), Tempx Trop(H0)QPM-B-B-B-57-B-B (TLB, FSR), V390 (MLB, CLS), BML13 (MLB, TLB, CLS), HKI 2-6-2-4 (TLB, FSR, CLS), CLQ-RCYQ40 (TLB, C.ROT, FSR), HKI-2-6-2-4(1-2)-4 (TLB, FSR), G18seqcef74-2-1 (TLB, C.ROT, RDM), CML161 (TLB, FSR), HKI1352-5-8-9 (FSR, CLS, BLSB), HKI191-1-2-5 (MLB, CLS), HKI 164-7-6 x 161 (FSR, CLS), P72c1xBrasil 1177-2-2-1-B-B (FSR, RDM, CLS, BLSB), CUBA 377 (MLB, TLB, CLS), CM 132 (TLB, FSR), CML 451(P2) (TLB, FSR, BLSB), CM123 (TLB, FSR), CM 129

(CLS, FSR), Tempx Trop(H0)QPM-B-B-B-57 (RDM, CLS), CML 33 (MLB, TLB, FSR, CLS), CM149 (MLB, TLB, FSR), BML15 (FSR, RDM, CLS), EC 646012 (MLB, CLS), V 351 (MLB, CLS, FSR), CM202 (FSR, CLS), SC7-2-1-2-6-1 (MLB, FSR, SDM, CLS), V334 (FSR, CLS), La Posta Seq C7-F10-3-1 (FSR, CLS), CM145 (TLB, CLS), CM128 (TLB, CLS, FSR), CML287 (CLS, FSR), SC7-2-1-2-6 (FSR, CLS), CM105 (TLB, FSR, CLS), V345 (FSR, CLS), BML 6 (TLB, FSR, CLS), EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B (TLB, C.ROT, FSR, RDM, CLS, BLSB), 42050-1 (MLB, C.ROT, FSR), TS2TR1107 (MLB, C.ROT, FSR, CLS), BML5 (FSR, CLS), P72c1Xbrasil1177-2 (TLB, C.ROT, FSR, RDM, CLS), BML 7 (TLB, FSR, CLS, BLSB), HKI163 (TLB, FSR), SC PINK (RDM, FSR), HKI 226 (MLB, TLB, FSR, CLS), P3C45SB-33-##-11 (CLS, BLSB), LTP 1 (CLS, FSR, BLSB), WOSC (FSR, CLS), SCF (CLS, FSR, BLSB), EI-586-2 (MLB, PFSR FSR), HKI 164-3 (2-1)-1 (FSR, C.ROT), CM 500 (FSR, CLS), CM 501 (MLB, TLB, FSR, CLS), Temp. Trop High Oil QPM (FSR, RDM, CLS), CML321 (FSR, CLS), CML3 (MLB, FSR, CLS), Gen 6033 (MLB, FSR, RDM), HKI-164-7-4-2 (FSR, RDM, BLSB, CLS), WSCShrunken X MUS MADHU (C.ROT, BLSB), EI-670-2 (MLB, TLB, C.ROT, RDM) DQL-2025 (MLB, TLB).

Molecular diversity among the isolates of *Peronosclerospora sorghi* causing SDM in maize: The genetic diversity among the isolates of *P. sorghi* was assessed through RAPD-PCR technique. The scoring data on presence (1) or absence (0) was subjected to create dendrogram by using NTSYS software. The results revealed that the seven isolates are grouped into two main clusters (I and II) at 58 per cent of genetic dissimilarity. The Cluster I includes PS 4 and PS 5 isolates of suggesting very less genetic diversity (10 %) exists.

The RAPD-PCR profiles showed that the isolates were collected from diverse geographical regions are location specific and showing the moderate level of diversity at their genetic level.

Nematology: Three hundred twenty two (322) maize entries belonging to different maturity groups of initial and advance trials were screened against cyst nematode (*Heterodera zae*). Out of them fifteen entries namely viz. IM8539, BH 41036, JH 12003, SAFAL X-2, CMH 10-488, BH 41150, JH 31600(JH 31627), KNMH-4010131, FH-3669, CMH 11-629, S 6668, CP 333, EH-1974, CMH 10-531 and K-75 exhibited moderately resistant reaction to *Heterodera zae*. Thirty two genotypes from specialty corn were screened and EHQ-64, HQPM 5 & CMH 11-659 were found moderately resistant to this nematode.

Efficacy of various chemicals i.e. acephate 75 SP, methomyl 40 SP, thiodicarb 50 WP and thiamethoxam 25 WG was tested as seed treatment against maize cyst nematode, *H. zae*. It was observed that acephate at 2% w/w was most effective in reducing the infection up to 33.32 - 36.54 % with maximum grain yield (32.97q/ha), an increase of 39.53 % over check (23.63 q/ha).

Three combinations of bio-agent and botanicals i.e. *Pochonia chlamydosporia* 10 g/kg seed + castor cake 2 q/ha; *Paecilomyces lilacinus* 10 g/kg seed + castor cake 2 q/ha and *P. chlamydosporia* 10 g/kg seed + neem cake 2 q/ha were tested to find out integrated nematode management module. The combination *Pochonia chlamydosporia* 10 g/kg seed + castor cake 2 q/ha was found best among all by showing minimum nematode population (26.38 - 32.74 %), maximum grain yield (37.18 q/ha) with an increase of 42.73 % over check (26.05 q/ha).

The study on nematode interaction with PFSR and stem borer revealed that nematode population significantly decreased when maize cyst nematode, *Heterodera zae* interacts with PFSR pathogen, *Fusarium verticillioides* and stem borer, *Chilo*

partellus. Reduction in nematode population was recorded 7.71-12.07 % with PFSR, 27.62- 31.33 % with stem borer and 34.08-37.37% when nematode interacts with both. Disease incidence (%) of PFSR was observed 2.57 in N+P and 2.80 in N+P+S. Leaf injury rating of *Chilo partellus* was recorded 5.29 in N+S and 6.38 in N+P+S. Maize yield significantly declined when nematode interacts with PFSR (10.24 %) , stem borer (14.59 %) and PFSR + stem borer (35.08 %).

Interaction of maize cyst nematode with termite on maize revealed that cyst and final nematode larvae population in soil reduced 24.73 % and 19.13 % , respectively with nematode + termite interaction over nematode alone (check). Maize yield was recorded 34.58 and 46.17 g/plant in N+T and check, respectively. Reduction in yield was observed 25.10 % in N+T over check.

Entomology

During Kharif 2013, ACRIP trials were conducted in Entomology. A total of 92 entries were screened against *Chilo partellus* at these centres. ACRIP trials of 92 entries of different maturity periods were evaluated at Karnal, Kohlapur, Hyderabad, Ludhiana and Udaipur for resistance against *Chilo partellus* under artificial infestation.

The entries were sown in two rows of three meters each. Sixteen seeds were sown; after ten days of germination, extra plants were rogued out leaving twelve plants in each row. When the plants were 14-16 days-old, 10-12 black-headed eggs of *Chilo partellus* laid on butter paper were pinned in the whorl. The eggs hatched within few hours and the neonate larvae nibbled on the leaves found their way in the stem. After 25 days of release of eggs, plants were observed for level of infestation by recording the leaf injury rating on 1-9 scale where

1= Plants showing no infestation symptom

2= 1-2 leaves with pinholes

3= 3-4 leaves with holes

4= 1/3 leaves showing infestation symptoms

5= Half the number of the leaves with infestation symptoms

6= 2/3 leaves with infestation symptoms and the holes becoming windows

7= Leaves with long window and plant growth is stunted

8= Almost all leaves displaying heavy infestation and plant growth is stunted

9= Dead heart formation observed

The following entries registered leaf injury rating (LIR) less than that of checks.

Full Season Maturity: LTH-20, CMH 08-381, CMH 08-381 (G), P3580 (X35A180), P4546, PRO 385, MCH-46, MCH-45, GK3103 and S6668

Medium Maturity: KMH-3110 and Rasi 3033

Early Maturity: FH-3609, FH-3626, EH-2212, EH-2223, Bio6608, REH2011-2, FH-3605, CMH10-484, JH31602, AH1206, KMH-7021, CMH10-531, K-21, DAS-MH-501, Bisco2238, EHL162508, KNMH-4010141, FH-3548 and JH31485

Extra Early Maturity: FH-3594, DH-262, K-75, FH-3554, FH-3556 and FH-3558

One hundred forty-one inbred lines were also evaluated for resistance against *C. partellus* in which 34, 106 and one were found to be least susceptible, moderately susceptible and highly susceptible respectively. Two hundred twelve inbred lines were evaluated against sorghum shoofly. The susceptibility index was worked out by taking into account three parameters of susceptibility, i.e. number of plants oviposited, number of eggs per plant and DH. The parameter in percentage was divided by 10 and data without percentage was multiplied by 10 to equalize the weightage of each parameter. The mean of these parameters was worked out as susceptibility index. Germplasm with mean susceptibility index minus standard deviation was categorized as least susceptible and mean susceptible index plus standard deviation as highly susceptible. Accordingly, 21, 157 and 24 inbred lines were found to be least susceptible, moderately susceptible and highly susceptible respectively.

Biochemistry

Biochemical characterization of maize germplasm is of utmost importance in developing nutritionally improved maize cultivars. The development of quality protein maize (QPM) requires continuous biochemical evaluation of germplasm at various stages of development. The biochemical laboratory of DMR played an important role in the development of QPM hybrids in India. During the period of 2013–2014 a large number of samples were analyzed for various quality parameters viz. protein, tryptophan, lysine, oil, sugar, starch, carotenoids, β -carotene etc. A total of 418 samples were analyzed for protein quality (protein, tryptophan and lysine), 191 for sugar, 221 for starch, 268 for oil content and 30 for starch profile i.e. amylose and amylopectin. Samples received from different centres (Ludhiana, Arbhavi and Varanasi) under coordinated QPM breeding programme were analyzed for protein quality viz: protein (PRO), tryptophan (TRY) and Lysine (LYS). Variability for protein quality has been observed amongst different centres. The variability may be the result of human errors in the form of out crossing during selfing or the mechanical mixture. A large number of inbred lines received from DMR, New Delhi were analyzed for protein quality. The kernels were screened on the basis of opaqueness to select the representative sample. Out crossed as well as non uniform kernels were discarded. The kernels having 50 per cent opaqueness were selected for protein quality analysis. The concerned breeders were advised to use the selected material for sowing in the next crop season. The endosperm was separated, defatted and analyzed for protein quality. A large number of promising lines were identified. A total of 77 inbreds were evaluated for total oil content. Only two lines were found to be having more than 6 per cent of oil. A total of 30 released hybrids were analyzed for starch profile (starch, amylose and amylopectin). A wide variability in the starch (67.77 to 74.82 %), amylose in starch (25.69 to 45.79 %) and amylopectin in starch (54.21 to 74.32%) was indentified. Apart from this a set of 191 lines were analyzed for nutritional quality parameters such as protein, oil, sugar and starch to analyze some nutritionally superior germplasm for quality traits. Although wide variability was identified in the biochemical components but no suitable germplasm could be identified at this stage.

Front Line Demonstrations

The Directorate of Maize Research is providing extension service to the nation through organizing Frontline Demonstrations (FLDs) under Integrated Scheme on Oilseed, Pulses, Oilpalm and Maize (ISOPOM) Ministry of Agriculture,

Government of India. DMR has allocated 7255 FLDs for rabi/spring 2012-13 and 5175 FLDs for kharif 2013. Out of these, various DMR centres, agencies and NGOs conducted 2188 during rabi 2012-13, 754 in spring 2013 and 3603 FLDs during kharif 2013. Thus, a total of 6545 FLDs were conducted in three seasons. These demonstrations were laid out in twenty-six states by fifty centres/agencies/NGOs and an average grain yield of 5100 kg/ha was recorded which showed an increase of 98.77 per cent over all India average yield of maize.

Tribal Sub Plan

Tribal Sub Plan (TSP) is a programme funded by Government of India to uplift the economic condition of tribal farmers. Directorate of Maize Research (DMR) is implementing TSP across the country in various tribal belts. Eight hundred forty demonstrations were conducted in Andhra Pradesh, Rajasthan, Madhya Pradesh, Maharashtra, Karnataka, Chhattisgarh, Jharkhand, Himachal Pradesh, Jammu & Kashmir, Odisha and Uttar Pradesh by DMR and All India Coordinated Research Improvement Project (AICRIP) centres on maize. Each demonstration was conducted in one acre of land using maize hybrids DHM 117, HQPM 1, Rajarshi, Hishell, DKC 7074, Prabal, NMH 4139, Hema, Double Dekalb, C8, C 15, 30V 92 etc. The average yield of maize in demonstrations was 7097 kg/ha during rabi 2012-13 and 3783.19 kg/ha during kharif 2013. The national average yield of maize is 4158 kg/ha and 2245 kg/ha during rabi 2012-13 and kharif 2013 respectively.

DMR organized seven national level training programmes in New Delhi wherein 272 tribal farmers from Nagaland, Jammu & Kashmir, Andhra Pradesh, Bihar, Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Jharkhand, Gujarat, Uttar Pradesh etc. participated. Besides this, DMR also organized eight regional level training programmes wherein 981 tribal farmers from Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, etc participated. AICRIP centres on maize conducted seven regional training programmes in Jharkhand, Tamil Nadu, Karnataka and Uttar Pradesh wherein 443 tribal farmers participated. DMR organized six exhibitions to create awareness among tribal farmers through displaying technologies of maize. Six field days were organized by DMR in Andhra Pradesh, Chhattisgarh, Jharkhand and Odisha. While AICRIP centres organized four field days in Andhra Pradesh, Jammu and Kashmir and Uttar Pradesh. Apart from the above mentioned activities the inputs were distributed to the farmers for maize cultivation. Hybrid seed, maize shellers, weeders, bullock drawn interculturators, sprayers, line markers, sickles, furrow openers, seed storage bins and booklets on maize were distributed among tribal farmers by DMR and AICRIP centres on maize in different parts of country.

DECODING OF ENTRIES

Breeding**Trial No. IVT-L(61)**

| | | | |
|---------------|---------------|----------------|-------------|
| Maturity | Late maturity | Year (Season): | 2013-Kharif |
| Replication : | 3 | | |
| No. of Rows : | 2 | Row Length: | 4 mts. |
| Locations: | 26 | | |

Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua, UAS Dharwad, VRDCD Dharwad, S M Foundation Patencheru.

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|-------|--------------|-------------------------------------|------|----------|------|------|------|
| 1 | IM8539 | Monsanto India Ltd. | All* | DMR101 | 1005 | 1123 | 1198 |
| 2 | IM8562 | Monsanto India Ltd. | All* | DMR102 | 1007 | 1088 | 1200 |
| 3 | IM8556 | Monsanto India Ltd. | All* | DMR103 | 1066 | 1117 | 1186 |
| 4 | IM8554 | Monsanto India Ltd. | All* | DMR104 | 1040 | 1095 | 1183 |
| 5 | II 8017 | Monsanto India Ltd. | All* | DMR105 | 1002 | 1106 | 1141 |
| 6 | Siri 4546 | Siri Seeds Pvt. Ltd. | All* | DMR106 | 1045 | 1079 | 1194 |
| 7 | Siri 4527 | Siri Seeds Pvt. Ltd. | All* | DMR107 | 1019 | 1084 | 1182 |
| 8 | RMH-972 | Rasi Seeds Pvt. Ltd. | All* | DMR108 | 1055 | 1112 | 1138 |
| 9 | Super GA-105 | Godrej Seeds & Genetics Ltd. | All* | DMR109 | 1022 | 1083 | 1146 |
| 10 | Janahit | Godrej Seeds & Genetics Ltd. | All* | DMR110 | 1048 | 1090 | 1142 |
| 11 | HTMH-5202 | Hytech Seed India Pvt. Ltd | All* | DMR111 | 1056 | 1127 | 1159 |
| 12 | HTMH-5404 | Hytech Seed India Pvt. Ltd | All* | DMR112 | 1059 | 1072 | 1148 |
| 13 | DMH-696 | Metahelix Lifesciences Ltd. | All* | DMR113 | 1036 | 1126 | 1151 |
| 14 | FCH-11270 | Foliage Crop Solution Pvt Ltd. | All* | DMR114 | 1030 | 1115 | 1165 |
| 15 | FCH-11273 | Foliage Crop Solution Pvt Ltd. | All* | DMR115 | 1052 | 1136 | 1176 |
| 16 | VNR-31834 | VNR Seeds Pvt. Ltd. | All* | DMR116 | 1010 | 1094 | 1164 |
| 17 | VNR-31355 | VNR Seeds Pvt. Ltd. | All* | DMR117 | 1060 | 1129 | 1190 |
| 18 | TMMH-807 | Trimurti Plant Science Pvt Ltd. | All* | DMR118 | 1001 | 1104 | 1152 |
| 19 | KMH-2811 | Kaveri Seeds Company Ltd. | All* | DMR119 | 1021 | 1076 | 1171 |
| 20 | JKMH-4029 | J.K.Agriculture Genetics Ltd. | All* | DMR120 | 1062 | 1122 | 1170 |
| 21 | DAS-MH-104 | Dow Agro Sciences Ltd. | All* | DMR121 | 1068 | 1096 | 1188 |
| 22 | DAS-MH-105 | Dow Agro Sciences Ltd. | All* | DMR122 | 1050 | 1110 | 1143 |
| 23 | ASMH-777 | S.S.S.Seeds Pvt Ltd. | All* | DMR123 | 1025 | 1092 | 1147 |
| 24 | ASMH-333 | S.S.S.Seeds Pvt Ltd. | All* | DMR124 | 1057 | 1101 | 1177 |
| 25 | PRO-391 | Byer BioSciences Pvt Ltd. | All* | DMR125 | 1023 | 1086 | 1167 |
| 26 | KH-2192 | Kanchan Ganga Seed Compnay PVT.Ltd. | All* | DMR126 | 1027 | 1121 | 1199 |
| 27 | B-54 | Kanchan Ganga Seed Compnay PVT.Ltd. | All* | DMR127 | 1051 | 1078 | 1203 |
| 28 | polo | Kanchan Ganga Seed Compnay PVT.Ltd. | All* | DMR128 | 1029 | 1128 | 1201 |
| 29 | CP-999 | C.P.Seeds Pvt. Ltd. | All* | DMR129 | 1035 | 1103 | 1157 |
| 30 | GK-3155 | Ganga Kaveri Seeds Pvt. Ltd. | All* | DMR130 | 1038 | 1114 | 1187 |
| 31 | GK-3158 | Ganga Kaveri Seeds Pvt. Ltd. | All* | DMR131 | 1012 | 1081 | 1145 |
| 32 | Super- 6768 | Super Seed Pvt. Ltd. | All* | DMR132 | 1043 | 1105 | 1175 |
| 33 | Super-1177 | Super Seed Pvt. Ltd. | All* | DMR133 | 1064 | 1134 | 1149 |
| 34 | NMH-1603 | Nuziveedu Seed Ltd. | All* | DMR134 | 1039 | 1135 | 1173 |
| 35 | CMH 10-548 | AICRP-Maize Coimbatore | All* | DMR135 | 1067 | 1097 | 1156 |
| 36 | CMH 10-550 | AICRP-Maize Coimbatore | All* | DMR136 | 1009 | 1131 | 1179 |
| 37 | CMH 11-583 | AICRP-Maize Coimbatore | All* | DMR137 | 1015 | 1077 | 1153 |
| 38 | CMH 11-586 | AICRP-Maize Coimbatore | All* | DMR138 | 1042 | 1080 | 1155 |
| 39 | CMH 11-591 | AICRP-Maize Coimbatore | All* | DMR139 | 1017 | 1074 | 1204 |
| 40 | CMH 11-660 | AICRP-Maize Coimbatore | All* | DMR140 | 1032 | 1124 | 1150 |
| 41 | BH 41036 | ANGRAU MRC, Hyd. | All* | DMR141 | 1049 | 1132 | 1191 |
| 42 | BH 41127 | ANGRAU MRC, Hyd. | All* | DMR142 | 1020 | 1082 | 1139 |
| 43 | BH 41642 | ANGRAU MRC, Hyd. | All* | DMR143 | 1047 | 1108 | 1162 |
| 44 | BH 41151 | ANGRAU MRC, Hyd. | All* | DMR144 | 1054 | 1102 | 1140 |
| 45 | GH-0945 | ARS, Arabhavi-Karnataka | All* | DMR145 | 1034 | 1113 | 1168 |
| 46 | GH -1102 | ARS, Arabhavi-Karnataka | All* | DMR146 | 1011 | 1070 | 1189 |
| 47 | GH -1001 | ARS, Arabhavi-Karnataka | All* | DMR147 | 1031 | 1075 | 1174 |
| 48 | GH-1043 | ARS, Arabhavi-Karnataka | All* | DMR148 | 1061 | 1098 | 1137 |
| 49 | DKC9133 | Monsanto India Ltd. Bangalore. | All* | DMR149 | 1058 | 1089 | 1166 |
| 50 | X35D612 | PHI Seed Ltd. | All* | DMR150 | 1065 | 1118 | 1185 |

| | | | | | | | |
|----|--------------------|----------------------------------|------|--------|------|------|------|
| 51 | X35D613 | PHI Seed Ltd. | All* | DMR151 | 1041 | 1130 | 1144 |
| 52 | X35D601 | PHI Seed Ltd. | All* | DMR152 | 1037 | 1125 | 1172 |
| 53 | BB 032 | Bioseed Research India Pvt. Ltd. | All* | DMR153 | 1026 | 1120 | 1202 |
| 54 | HTMH-5108 | Hytech Seed India Pvt. Ltd | All* | DMR154 | 1063 | 1100 | 1181 |
| 55 | PRO-392 | Bayer Bioscience pvt. Ltd. | All* | DMR155 | 1014 | 1085 | 1193 |
| 56 | BRMH-1 | VRDC,KSSC,Dharwad | All* | DMR156 | 1046 | 1107 | 1197 |
| 57 | REH-2012-3 | CSAU& T,Kanpur | All* | DMR157 | 1024 | 1116 | 1160 |
| 58 | JH 31623 | PAU Ludhiana | All* | DMR158 | 1053 | 1073 | 1195 |
| 59 | JH 31638 | PAU Ludhiana | All* | DMR159 | 1006 | 1069 | 1169 |
| 60 | JH 12010(JH 12019) | PAU Ludhiana | All* | DMR160 | 1033 | 1111 | 1184 |
| 61 | JH 12171 | PAU Ludhiana | All* | DMR161 | 1008 | 1133 | 1161 |
| 62 | JH 12003 | PAU Ludhiana | All* | DMR162 | 1018 | 1071 | 1163 |
| 63 | JH 12247 | PAU Ludhiana | All* | DMR163 | 1004 | 1091 | 1180 |
| 64 | HKH 421 | HAU,Karnal | All* | DMR164 | 1044 | 1093 | 1196 |
| 65 | PMH 1 (C) | PAU Ludhiana | All* | DMR165 | 1016 | 1119 | 1178 |
| 66 | PMH 3 (C) | PAU Ludhiana | All* | DMR166 | 1003 | 1109 | 1192 |
| 67 | Seedtech-2324 (C) | Bisco Bioscience Crop Pvt Ltd. | All* | DMR167 | 1028 | 1099 | 1154 |
| 68 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | All* | DMR168 | 1013 | 1087 | 1158 |

All*= All Zones except Zone-I

Trial No. IVT-M(62)

| | | | |
|---------------|-----------------|----------------|-------------|
| Maturity | Medium maturity | Year (Season): | 2013-Kharif |
| Replication : | 3 | | |
| No. of Rows : | 2 | Row Length: | 4 mts. |
| Locations: | 34 | | |

K.D.Farm – Srinagar; Almora, Bajaura, Barapani, Kangra, Udhampur, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bagraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua, Dhaulakuan, Bertin, UAS Dharwad, VRDC Dharwad, S M Foundation Patencheru, Poonch

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|-------|----------------------------|-------------------------------------|------|----------|------|------|------|
| 1 | QMH-29134 | AICRP,Kolhapur | All | DMR201 | 2060 | 2120 | 2246 |
| 2 | QMH-2916 | AICRP,Kolhapur | All | DMR202 | 2061 | 2098 | 2195 |
| 3 | EHL-3412 | AREC,Bajaura | All | DMR203 | 2064 | 2112 | 2231 |
| 4 | EHL-1111 | AREC,Bajaura | All | DMR204 | 2062 | 2107 | 2221 |
| 5 | EHL-3512 | AREC,Bajaura | All | DMR205 | 2032 | 2147 | 2236 |
| 6 | S-6750 | Syngenta India Ltd. | All | DMR206 | 2039 | 2172 | 2233 |
| 7 | RMH-932 | Rasi Seeds Pvt. Ltd. | All | DMR207 | 2051 | 2142 | 2243 |
| 8 | RMH-3591 | Rasi Seeds Pvt. Ltd. | All | DMR208 | 2033 | 2132 | 2229 |
| 9 | PHM-34(W) | SKUAS&T Jammu | All | DMR209 | 2067 | 2149 | 2201 |
| 10 | PHM-12(Y) | SKUAS&T Jammu | All | DMR210 | 2044 | 2153 | 2248 |
| 11 | LG-3271 | Bisco Bioscience Crop Pvt Ltd. | All | DMR211 | 2015 | 2144 | 2177 |
| 12 | LG-3282 | Bisco Bioscience Crop Pvt Ltd. | All | DMR212 | 2041 | 2141 | 2209 |
| 13 | FCH-85 | Foliage Crop Solution Pvt Ltd. | All | DMR213 | 2085 | 2122 | 2178 |
| 14 | FCH-184 | Foliage Crop Solution Pvt Ltd. | All | DMR214 | 2054 | 2162 | 2208 |
| 15 | FCH-11231 | Foliage Crop Solution Pvt Ltd. | All | DMR215 | 2019 | 2131 | 2199 |
| 16 | KMH-6 | SAREC,Kangra | All | DMR216 | 2017 | 2089 | 2225 |
| 17 | KMH-84 | SAREC,Kangra | All | DMR217 | 2021 | 2138 | 2240 |
| 18 | KMH-6681 | Kaveri Seeds Company Ltd. | All | DMR218 | 2012 | 2113 | 2239 |
| 19 | KMH-5951 | Kaveri Seeds Company Ltd. | All | DMR219 | 2040 | 2145 | 2176 |
| 20 | JKMH-4545 | J.K.Agriculture Genetics Ltd. | All | DMR220 | 2052 | 2091 | 2211 |
| 21 | SAFAL X-2 | Sarfal Seeds & Biotech Ltd. | All | DMR221 | 2063 | 2123 | 2197 |
| 22 | Kuber Shakthi | PHS Agritech Pvt Ltd. | All | DMR222 | 2079 | 2105 | 2259 |
| 23 | DAS-MH-304 | Dow Agro Sciences Ltd. | All | DMR223 | 2065 | 2160 | 2187 |
| 24 | DAS-MH-305 | Dow Agro Sciences Ltd. | All | DMR224 | 2020 | 2094 | 2247 |
| 25 | KH-517 Gold | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR225 | 2027 | 2134 | 2212 |
| 26 | KH-2248 | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR226 | 2072 | 2119 | 2207 |
| 27 | TH-38 | Yaaganti Seeds Pvt.Ltd. | All | DMR227 | 2031 | 2164 | 2198 |
| 28 | MAHABEEJ-1202 (Nirdhar) | MSSC Ltd.,Akola | All | DMR228 | 2024 | 2110 | 2227 |

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|----|--------------------|------------------------------------|-----|--------|------|------|------|
| 29 | KDMH-2705 | Krishi Dhan Seed Ltd. | All | DMR229 | 2013 | 2163 | 2215 |
| 30 | EH-2205 | MPUA&T,Udaiput | All | DMR230 | 2084 | 2165 | 2254 |
| 31 | EH-2208 | MPUA&T,Udaiput | All | DMR231 | 2026 | 2170 | 2175 |
| 32 | EH-2240 | MPUA&T,Udaiput | All | DMR232 | 2087 | 2108 | 2238 |
| 33 | VaMH-08015 | MRS Vagarai,TNAU | All | DMR233 | 2007 | 2136 | 2192 |
| 34 | PMH-209 | Prabhat Agri Biotech Ltd. | All | DMR234 | 2038 | 2118 | 2182 |
| 35 | PRMH-2177 | Pravardhan Seeds Pvt Ltd. | All | DMR235 | 2004 | 2124 | 2244 |
| 36 | NMH-1289 | Nuziveedu Seed Ltd. | All | DMR236 | 2077 | 2161 | 2226 |
| 37 | HTMH-5402 | Hytech Seed India Pvt. Ltd | All | DMR237 | 2043 | 2121 | 2250 |
| 38 | CMH 10-488 | AICRP-Maize Coimbatore | All | DMR238 | 2008 | 2157 | 2218 |
| 39 | CMH 10-547 | AICRP-Maize Coimbatore | All | DMR239 | 2049 | 2155 | 2261 |
| 40 | CMH 11-582 | AICRP-Maize Coimbatore | All | DMR240 | 2023 | 2150 | 2237 |
| 41 | CMH 11-603 | AICRP-Maize Coimbatore | All | DMR241 | 2074 | 2129 | 2200 |
| 42 | CMH 11-617 | AICRP-Maize Coimbatore | All | DMR242 | 2029 | 2167 | 2188 |
| 43 | IM8478 | Monsanto India Ltd. Bangalore. | All | DMR243 | 2055 | 2093 | 2213 |
| 44 | IM8479 | Monsanto India Ltd. Bangalore. | All | DMR244 | 2006 | 2096 | 2186 |
| 45 | IM8581 | Monsanto India Ltd. Bangalore. | All | DMR245 | 2086 | 2168 | 2189 |
| 46 | IM 7519 | Monsanto India Ltd. Bangalore. | All | DMR246 | 2037 | 2097 | 2257 |
| 47 | IM 7501 | Monsanto India Ltd. Bangalore. | All | DMR247 | 2070 | 2152 | 2255 |
| 48 | BH 41015 | ANGRAU MRC,ARI, Hyderabad | All | DMR248 | 2080 | 2095 | 2191 |
| 49 | BH 41030 | ANGRAU MRC,ARI, Hyderabad | All | DMR249 | 2059 | 2148 | 2214 |
| 50 | BH 41145 | ANGRAU MRC,ARI, Hyderabad | All | DMR250 | 2076 | 2151 | 2219 |
| 51 | BH 41150 | ANGRAU MRC,ARI, Hyderabad | All | DMR251 | 2016 | 2137 | 2183 |
| 52 | BH 411736 | ANGRAU MRC,ARI, Hyderabad | All | DMR252 | 2035 | 2173 | 2252 |
| 53 | BH 411737 | ANGRAU MRC,ARI, Hyderabad | All | DMR253 | 2001 | 2126 | 2232 |
| 54 | BH 411520 | ANGRAU MRC,ARI, Hyderabad | All | DMR254 | 2071 | 2135 | 2249 |
| 55 | VEH 12-1 | Department of GPB , BHU, varanasi. | All | DMR255 | 2030 | 2125 | 2206 |
| 56 | X35D620 | PHI Seed Ltd. Hyderabad. | All | DMR256 | 2056 | 2104 | 2205 |
| 57 | X35D623 | PHI Seed Ltd. Hyderabad. | All | DMR257 | 2073 | 2158 | 2203 |
| 58 | X35D602 | PHI Seed Ltd. Hyderabad. | All | DMR258 | 2002 | 2146 | 2222 |
| 59 | X35D603 | PHI Seed Ltd. Hyderabad. | All | DMR259 | 2046 | 2128 | 2204 |
| 60 | Bio 451 | Bioseed Research India Pvt. Ltd. | All | DMR260 | 2014 | 2171 | 2253 |
| 61 | GWH-0711 | AICRP Maize. AAU, Godhra | All | DMR261 | 2003 | 2090 | 2210 |
| 62 | REH-2012-1 | CSAU& T,Kanpur | All | DMR262 | 2028 | 2169 | 2228 |
| 63 | REH-2012-2 | CSAU& T,Kanpur | All | DMR263 | 2066 | 2116 | 2202 |
| 64 | REH-2012-4 | CSAU& T,Kanpur | All | DMR264 | 2083 | 2117 | 2260 |
| 65 | JH 31595 | PAU Ludhiana | All | DMR265 | 2010 | 2143 | 2190 |
| 66 | JH 31537 | PAU Ludhiana | All | DMR266 | 2034 | 2166 | 2179 |
| 67 | JH 31604 | PAU Ludhiana | All | DMR267 | 2081 | 2099 | 2234 |
| 68 | JH 31600(JH 31627) | PAU Ludhiana | All | DMR268 | 2011 | 2159 | 2185 |
| 69 | JH 31244 | PAU Ludhiana | All | DMR269 | 2045 | 2088 | 2220 |
| 70 | JH 31554 | PAU Ludhiana | All | DMR270 | 2047 | 2139 | 2184 |
| 71 | AH-1226 | IARI Pusa Delhi. | All | DMR271 | 2075 | 2092 | 2235 |
| 72 | AH-1262 | IARI Pusa Delhi. | All | DMR272 | 2042 | 2130 | 2251 |
| 73 | MMH- 2-12-13 | TCA,Dholi | All | DMR273 | 2022 | 2156 | 2241 |
| 74 | MMH- 3-12-13 | TCA,Dholi | All | DMR274 | 2058 | 2114 | 2181 |
| 75 | MMH- 4-12-13 | TCA,Dholi | All | DMR275 | 2025 | 2102 | 2256 |
| 76 | MMH- 5-12-13 | TCA,Dholi | All | DMR276 | 2036 | 2127 | 2180 |
| 77 | HKH 338 | HAU,Karnal | All | DMR277 | 2048 | 2154 | 2193 |
| 78 | HKH 339 | HAU,Karnal | All | DMR278 | 2009 | 2133 | 2230 |
| 79 | HKH 340 | HAU,Karnal | All | DMR279 | 2057 | 2115 | 2245 |
| 80 | KNMH-4302 | ARS,Karimnagar | All | DMR280 | 2053 | 2140 | 2242 |
| 81 | KNMH-4303 | ARS,Karimnagar | All | DMR281 | 2018 | 2174 | 2217 |
| 82 | KNMH-4304 | ARS,Karimnagar | All | DMR282 | 2068 | 2101 | 2196 |
| 83 | KNMH-4305 | ARS,Karimnagar | All | DMR283 | 2078 | 2100 | 2216 |
| 84 | KNMH-4010131 | ARS,Karimnagar | All | DMR284 | 2050 | 2103 | 2258 |
| 85 | PMH 4(C) | PAU, Ludhiana | All | DMR285 | 2082 | 2106 | 2224 |
| 86 | BIO 9637 (C) | Bio seed Research India Pvt. Ltd. | All | DMR286 | 2069 | 2109 | 2223 |
| 87 | HM 12(C) | HAU, Karnal | All | DMR287 | 2005 | 2111 | 2194 |

Trial No. IVT-E(63)

Year (Season): 2013-Kharif

Maturity Early maturity

Replication : 3

No. of Rows : 2

Locations: 34

Row Length: 4 mts.

K.D.Farm – Srinagar; Almora, Bajaura, Barapani, Kangra, Udampur, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua, Dhaulakuan, Bertin, UAS Dharwad, VRDCD Dharwad, S M Foundation Patencheru, Poonch

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|-------|-------------|--------------------------------------|------|----------|------|------|------|
| 1 | LG-3181 | Bisco Bioscience Crop Pvt Ltd. | All | DMR301 | 3020 | 3049 | 3080 |
| 2 | DMH-63 | Metahelix Lifesciences Ltd. | All | DMR302 | 3022 | 3042 | 3072 |
| 3 | DH-264 | GBPUA&T,Pantnagar | All | DMR303 | 3021 | 3036 | 3065 |
| 4 | DH-265 | GBPUA&T,Pantnagar | All | DMR304 | 3007 | 3041 | 3087 |
| 5 | FH-3664 | VPKAS,Almora | All | DMR305 | 3005 | 3043 | 3073 |
| 6 | FH-3669 | VPKAS,Almora | All | DMR306 | 3023 | 3055 | 3078 |
| 7 | B-52 | Kanchan Ganga Seed Compnay Pvt..Ltd. | All | DMR307 | 3010 | 3033 | 3067 |
| 8 | EH-2211 | MPUA&T,Udaiput | All | DMR308 | 3019 | 3054 | 3066 |
| 9 | EH-2214 | MPUA&T,Udaiput | All | DMR309 | 3027 | 3056 | 3071 |
| 10 | EH-2233 | MPUA&T,Udaiput | All | DMR310 | 3028 | 3040 | 3061 |
| 11 | NMH-1258 | Nuziveedu Seed Ltd. | All | DMR311 | 3030 | 3044 | 3083 |
| 12 | CMH 11-579 | AICRP-Maize Coimbatore | All | DMR312 | 3012 | 3034 | 3063 |
| 13 | CMH 11-595 | AICRP-Maize Coimbatore | All | DMR313 | 3015 | 3057 | 3086 |
| 14 | CMH 11-611 | AICRP-Maize Coimbatore | All | DMR314 | 3001 | 3031 | 3068 |
| 15 | CMH 11-626 | AICRP-Maize Coimbatore | All | DMR315 | 3029 | 3045 | 3085 |
| 16 | CMH 11-629 | AICRP-Maize Coimbatore | All | DMR316 | 3016 | 3039 | 3079 |
| 17 | BH 411305 | ANGRAU MRC, ARI , Hyd. | All | DMR317 | 3014 | 3060 | 3074 |
| 18 | Bio 9720 | Bioseed Research India Pvt. Ltd. | All | DMR318 | 3003 | 3047 | 3082 |
| 19 | GWH-0712 | AICRP Maize. AAU, Godhra | All | DMR319 | 3025 | 3050 | 3077 |
| 20 | GWH-0902 | AICRP Maize. AAU, Godhra | All | DMR320 | 3006 | 3058 | 3089 |
| 21 | GYH-0653 | AICRP Maize. AAU, Godhra | All | DMR321 | 3013 | 3053 | 3064 |
| 22 | JH 31610 | PAU Ludhiana | All | DMR322 | 3017 | 3048 | 3062 |
| 23 | JH 31613 | PAU Ludhiana | All | DMR323 | 3002 | 3059 | 3070 |
| 24 | AH-1261 | IARI Pusa Delhi. | All | DMR324 | 3026 | 3032 | 3090 |
| 25 | AH-1219 | IARI Pusa Delhi. | All | DMR325 | 3018 | 3051 | 3081 |
| 26 | MEH-1-12-13 | TCA,Dholi | All | DMR326 | 3024 | 3038 | 3075 |
| 27 | HKH 341 | HAU,Karnal | All | DMR327 | 3008 | 3046 | 3069 |
| 28 | KNMH-4301 | ARS,Karimnagar | All | DMR328 | 3004 | 3035 | 3088 |
| 29 | PMH 5 (C) | PAU Ludhiana | All | DMR329 | 3011 | 3037 | 3076 |
| 30 | Prakash (C) | PAU Ludhiana | All | DMR330 | 3009 | 3052 | 3084 |

Trial No. IVT-EX (64)

Year (Season): 2013-Kharif

Maturity Extra Early Maturity

Replication : 3

No. of Rows : 2

Locations: 34

Row Length: 4 mts.

K.D.Farm – Srinagar; Almora, Bajaura, Barapani, Kangra, Udampur, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua, Dhaulakuan, Bertin, UAS Dharwad, VRDCD Dharwad, S M Foundation Patencheru, Poonch

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|-------|---------------------|-------------------------------------|------|----------|------|------|------|
| 1 | DH-266 | GBPUA&T,Pantnagar | All | DMR401 | 4004 | 4024 | 4039 |
| 2 | DH-267 | GBPUA&T,Pantnagar | All | DMR402 | 4013 | 4021 | 4036 |
| 3 | DH-268 | GBPUA&T,Pantnagar | All | DMR403 | 4012 | 4023 | 4029 |
| 4 | FH-3641 | VPKAS,Almora | All | DMR404 | 4007 | 4025 | 4027 |
| 5 | KH-7502 | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR405 | 4011 | 4020 | 4035 |
| 6 | DH-269 | GBPUA&T Pantnagar | All | DMR406 | 4005 | 4015 | 4033 |
| 7 | DH-270 | GBPUA&T Pantnagar | All | DMR407 | 4003 | 4018 | 4028 |
| 8 | DH-271 | GBPUA&T Pantnagar | All | DMR408 | 4009 | 4014 | 4034 |
| 9 | AH-1212 | IARI Pusa Delhi. | All | DMR409 | 4002 | 4016 | 4031 |
| 10 | Vivek QPM 9 (C) | VPKAS,Almora | All | DMR410 | 4008 | 4019 | 4030 |
| 11 | Vivek Hybrid 9 (C) | VPKAS,Almora | All | DMR411 | 4001 | 4026 | 4038 |
| 12 | Vivek Hybrid 21 (C) | VPKAS,Almora | All | DMR412 | 4010 | 4022 | 4032 |
| 13 | Vivek Hybrid 43 (C) | VPKAS,Almora | All | DMR413 | 4006 | 4017 | 4037 |

AVT1-L-Z1(65-Z1)-NO ENTRY**AVT2-L-Z2(69-Z2)-NO ENTRY****Trial No. AVT1-L-Z2(65-Z2)**

Maturity Late

Replication : 3

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

Year (Season): 2013-Kharif

No. of Rows : 4

Row Length: 4 mts.

| E. No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|--------|------------------------|-----------------------|------|----------|------|------|------|
| 1 | FMH-11195 | Foliage Crop Solution | Z-2 | DMR501 | 5007 | 5010 | 5023 |
| 2 | JH 31601 | PAU Ludhiana | Z-2 | DMR502 | 5001 | 5013 | 5020 |
| 3 | JH 31555 | PAU Ludhiana | Z-2 | DMR503 | 5003 | 5015 | 5022 |
| 4 | Seedtech-2324 (Filler) | Bisco Bioscience Crop | Z-2 | DMR504 | 5008 | 5016 | 5019 |
| 5 | PMH 1 (C) | PAU Ludhiana | Z-2 | DMR505 | 5002 | 5014 | 5021 |
| 6 | PMH 3 (C) | PAU Ludhiana | Z-2 | DMR506 | 5006 | 5011 | 5017 |
| 7 | Seedtech-2324 (C) | Bisco Bioscience Crop | Z-2 | DMR507 | 5005 | 5009 | 5018 |
| 8 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | Z-2 | DMR508 | 5004 | 5012 | 5024 |

Trial No. AVT12-L-Z3 (65,69-Z3)

Maturity Late maturity

Year (Season): 2013-Kharif

Replication : 3

No. of Rows : 6

Row Length: 4 mts.

Locations: Dholi, Ranchi, Bhubaneswar, Varanasi, Bahaich

| E. No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|---------------|-------------------|---------------------------|------|----------|------|------|------|
| Tr. 65 | | | | | | | |
| 1 | LTH-20 | Yaaganti Seeds Pvt Ltd. | Z-3 | DMR511 | 5031 | 5054 | 5071 |
| 2 | Ryder-M | Prabhat Agri Biotech Ltd. | Z-3 | DMR512 | 5034 | 5047 | 5063 |
| 3 | CMH 10-477 | AICRP-Maize Coimbatore | Z-3 | DMR513 | 5041 | 5046 | 5064 |
| 4 | P3491(X35B391) | PHI Seeds Ltd. | Z-3 | DMR514 | 5035 | 5053 | 5062 |
| 5 | P3596(X35B396) | PHI Seeds Ltd. | Z-3 | DMR515 | 5042 | 5050 | 5059 |
| 6 | CMH 08-381 | AICRP-Coimbatore | Z-3 | DMR516 | 5036 | 5048 | 5066 |
| 7 | CMH 08-381 (G) | AICRP-Coimbatore | Z-3 | DMR517 | 5043 | 5051 | 5060 |
| 8 | CMH 09-464 | AICRP-Coimbatore | Z-3 | DMR518 | 5032 | 5052 | 5065 |
| 9 | P3580(X35A180) | PHI Seeds Ltd. | Z-3 | DMR519 | 5030 | 5045 | 5061 |
| 10 | Orbit | Yaaganti Seeds Pvt. Ltd. | Z-3 | DMR520 | 5033 | 5044 | 5067 |
| 11 | PMH 1 (C) | PAU Ludhiana | Z-3 | DMR521 | 5037 | 5057 | 5069 |
| 12 | PMH 3 (C) | PAU Ludhiana | Z-3 | DMR522 | 5039 | 5049 | 5068 |
| 13 | Seedtech-2324 (C) | Bisco Bioscience Crop | Z-3 | DMR523 | 5040 | 5055 | 5058 |
| 14 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | Z-3 | DMR524 | 5038 | 5056 | 5070 |

Trial No. AVT12-L-Z4 (65,69 - Z4)

Maturity Late Maturity (AVT-I & IIYear)
 Year (Season): 2013-Kharif
 Replication : 3
 No. of Rows : 6
 Row Length: 4 mts.

Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi, Mandya, Coimbatore and Vagarai

| E. No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|---------------|--------------------|----------------------------|------|----------|------|------|------|
| Tr. 65 | | | | | | | |
| 1 | Geo Premium Dimond | GEO Biotechnogies Ltd. | Z-4 | DMR531 | 5095 | 5108 | 5125 |
| 2 | LTH-22 | Yaaganti Seeds Pvt Ltd. | Z-4 | DMR532 | 5082 | 5104 | 5124 |
| 3 | CP-802 | CP Seeds Pvt Ltd. | Z-4 | DMR533 | 5085 | 5100 | 5118 |
| 4 | NMH-1265 | Nuziveedu Seed Ltd. | Z-4 | DMR534 | 5084 | 5105 | 5129 |
| 5 | P3491(X35B391) | PHI Seeds Ltd. | Z-4 | DMR535 | 5088 | 5116 | 5133 |
| 6 | A 7503 | Advanta India Ltd. | Z-4 | DMR536 | 5086 | 5101 | 5123 |
| Tr. 69 | | | | | | | |
| 7 | Laxmi 333 | Yaaganti Seeds Pvt. Ltd. | Z-4 | DMR537 | 5091 | 5099 | 5131 |
| 8 | CMH 08-381 | AICRP-Coimbatore | Z-4 | DMR538 | 5081 | 5109 | 5134 |
| 9 | P 4546 | PHI Seeds Ltd. | Z-4 | DMR539 | 5083 | 5102 | 5120 |
| 10 | P3580(X35A180) | PHI Seeds Ltd. | Z-4 | DMR540 | 5087 | 5110 | 5128 |
| 11 | PRO 385 | Bayer Bioscience Pvt Ltd. | Z-4 | DMR541 | 5098 | 5103 | 5132 |
| 12 | MCH-46 | Monsanto India | Z-4 | DMR542 | 5093 | 5107 | 5117 |
| 13 | S 6668 | Syngenta India Ltd. | Z-4 | DMR543 | 5096 | 5106 | 5121 |
| 14 | HTMH 5106 | Hytech Seed India Pvt.Ltd. | Z-4 | DMR544 | 5090 | 5113 | 5119 |
| 15 | PMH 1 (C) | PAU Ludhiana | Z-4 | DMR545 | 5089 | 5111 | 5126 |
| 16 | PMH 3 (C) | PAU Ludhiana | Z-4 | DMR546 | 5092 | 5115 | 5130 |
| 17 | Seedtech-2324 (C) | Bisco Bioscience Crop | Z-4 | DMR547 | 5094 | 5112 | 5122 |
| 18 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | Z-4 | DMR548 | 5097 | 5114 | 5127 |

Trial No. AVT12-L5(65,69 - Z5)

Maturity Late Maturity (AVT-I + IIYear)
 Year (Season): 2013-Kharif
 Replication : 3
 No. of Rows : 6
 Row Length: 4 mts.

Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

| E. No. | Name | Origin | Zone | DMR Code | R1 | R2 | R3 |
|---------------|--------------------|--------------------------------|------|----------|------|------|------|
| Tr. 65 | | | | | | | |
| 1 | FMH-11195 | Foliage Crop Solution Pvt Ltd. | Z-5 | DMR551 | 5149 | 5160 | 5171 |
| 2 | CMH 10-540 | AICRP-Maize Coimbatore | Z-5 | DMR552 | 5151 | 5163 | 5170 |
| 3 | X35B390 | PHI Seeds Ltd. | Z-5 | DMR553 | 5145 | 5156 | 5172 |
| 4 | P3292(X35B392) | PHI Seeds Ltd. | Z-5 | DMR554 | 5153 | 5166 | 5179 |
| 5 | JH 31601 | PAU Ludhiana | Z-5 | DMR555 | 5141 | 5159 | 5173 |
| Tr. 69 | | | | | | | |
| 6 | PFMH-97 I 57(AMAR) | Pro Farm Seed India Pvt. Ltd. | Z-5 | DMR556 | 5146 | 5157 | 5174 |
| 7 | CP 333 | CP Seeds Pvt. L.td. | Z-5 | DMR557 | 5143 | 5162 | 5175 |
| 8 | P4546 | PHI Seeds Ltd. | Z-5 | DMR558 | 5154 | 5161 | 5178 |
| 9 | P3580(X35A180) | PHI Seeds Ltd. | Z-5 | DMR559 | 5152 | 5165 | 5177 |
| 10 | MCH-46 | Monsanto India Ltd. Bangalore. | Z-5 | DMR560 | 5144 | 5155 | 5180 |
| 11 | PMH 1 (C) | PAU Ludhiana | Z-5 | DMR561 | 5148 | 5167 | 5181 |
| 12 | PMH 3 (C) | PAU Ludhiana | Z-5 | DMR562 | 5142 | 5168 | 5182 |
| 13 | Seedtech-2324 (C) | Bisco Bioscience Crop | Z-5 | DMR563 | 5150 | 5164 | 5176 |
| 14 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | Z-5 | DMR564 | 5147 | 5158 | 5169 |

AVT II Trials**Trial No. AVT2-L-Z1(69 - Z1)**

Maturity Late Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Replication : 3

No. of Rows : 6

Row Length: 4 mts.

Locations: Srinagar, Almora, Bajaura, Kangra, Barapani, Gossaingaon, Udhampur

| E.No. | Hybrid Name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|-------|--------------------|-----------------------|------|----------|------|------|------|
| 1 | HTMH 5106 | Hytech Seed | Z-1 | DMR571 | 5200 | 5213 | 5223 |
| 2 | HTMH 5402 | Hytech Seed | Z-1 | DMR572 | 5191 | 5211 | 5219 |
| 3 | PFMH-97 I 57(AMAR) | Pro Farm Seed | Z-1 | DMR573 | 5197 | 5216 | 5218 |
| 4 | MCH-45 | Monsanto . | Z-1 | DMR574 | 5194 | 5205 | 5225 |
| 5 | P3580(X35A180) | PHI Seeds Ltd. | Z-1 | DMR575 | 5193 | 5204 | 5220 |
| 6 | PRO 385 | Bayer Bioscience | Z-1 | DMR576 | 5201 | 5210 | 5226 |
| 7 | PRO 384 | Bayer Bioscience | Z-1 | DMR577 | 5196 | 5209 | 5229 |
| 8 | MCH-46 | Monsanto . | Z-1 | DMR578 | 5192 | 5206 | 5217 |
| 9 | GK 3103 | Ganga Kaveri Seeds | Z-1 | DMR579 | 5202 | 5214 | 5221 |
| 10 | PMH 1 (C) | PAU Ludhiana | Z-1 | DMR580 | 5203 | 5208 | 5222 |
| 11 | PMH 3 (C) | PAU Ludhiana | Z-1 | DMR581 | 5195 | 5215 | 5224 |
| 12 | Seedtech-2324 (C) | Bisco Bioscience Crop | Z-1 | DMR582 | 5199 | 5212 | 5227 |
| 13 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | Z-1 | DMR583 | 5198 | 5207 | 5228 |

Trial No. AVT12-L-Z1 (66,70 - Z1)

Maturity Medium Maturity (AVT I+II Year)

Year (Season): 2013-Kharif

Replication : 3

No. of Rows : 6

Row Length: 4 mts.

Locations: K.D.Farm – Srinagar, Udhampur, Almora, Bajaura, Kangra, Barapani, Gossaigaonon

| E.No. | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|--------------|--------------|---------------------|------|----------|------|------|------|
| Tr 66 | | | | | | | |
| 1 | KMH-25K-45 | Kaveri Seed Compny | Z-1 | DMR601 | 5314 | 5320 | 5331 |
| 2 | KMH-3110 | Kaveri Seed Compny | Z-1 | DMR602 | 5301 | 5316 | 5332 |
| 3 | KMH-7148 | Kaveri Seed Compny | Z-1 | DMR603 | 5311 | 5322 | 5336 |
| 4 | NMH-1276 | Nuziveedu Seed | Z-1 | DMR604 | 5306 | 5315 | 5329 |
| 5 | IJ8533 | Monsanto | Z-1 | DMR605 | 5304 | 5319 | 5333 |
| 6 | X35B403 | PHI Seeds Ltd. | Z-1 | DMR606 | 5310 | 5317 | 5337 |
| 7 | S-6790 | Syngenta India Ltd. | Z-1 | DMR607 | 5312 | 5327 | 5342 |
| 8 | S-6850 | Syngenta India Ltd. | Z-1 | DMR608 | 5308 | 5324 | 5330 |
| 9 | Proline -777 | Proline Seeds | Z-1 | DMR609 | 5313 | 5326 | 5340 |
| Tr.70 | | | | | | | |
| 10 | EHL-161708 | AREC,Bajaura | Z-1 | DMR610 | 5305 | 5323 | 5339 |
| 11 | PMH 4(C) | PAU, Ludhiana | Z-1 | DMR611 | 5309 | 5318 | 5335 |
| 12 | BIO 9637 (C) | Bio seed Research | Z-1 | DMR612 | 5307 | 5321 | 5334 |
| 13 | HM 12(C) | HAU, Karnal | Z-1 | DMR613 | 5302 | 5325 | 5338 |
| 14 | HM8 (C) | HAU, Karnal | Z-1 | DMR614 | 5303 | 5328 | 5341 |

Trial No. AVT2-L-Z2(66Z2)

Maturity Medium Maturity (AVT -I Year)
 Year (Season): 2013-Kharif
 Replication : 3
 No. of Rows : 4
 Row Length: 4 mts.

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

| E.No. | Hybrids Name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|-------|---------------|--------------------|------|----------|------|------|------|
| 1 | Rasi 3033 | Rasi Seed Pvt Ltd. | Z-2 | DMR621 | 5352 | 5365 | 5375 |
| 2 | CMH 10-473 | AICRP Coimbatore | Z-2 | DMR622 | 5361 | 5362 | 5381 |
| 3 | EHL-2211 | AREC ,Bajaura | Z-2 | DMR623 | 5359 | 5371 | 5379 |
| 4 | IJ8533 | Monsanto . | Z-2 | DMR624 | 5360 | 5369 | 5377 |
| 5 | X35B403 | PHI Seeds Ltd. | Z-2 | DMR625 | 5353 | 5364 | 5380 |
| 6 | Bio 719 | Bioseed Research | Z-2 | DMR626 | 5354 | 5372 | 5373 |
| 7 | S-6790 | Syngenta | Z-2 | DMR627 | 5356 | 5367 | 5382 |
| 8 | PMH 4(C) | PAU, Ludhiana | Z-2 | DMR628 | 5351 | 5370 | 5383 |
| 9 | BIO 9637 (C) | Bio seed Research | Z-2 | DMR629 | 5357 | 5366 | 5376 |
| 10 | HM 12(C) | HAU, Karnal | Z-2 | DMR630 | 5355 | 5363 | 5374 |
| 11 | HM8 (C) | HAU, Karnal | Z-2 | DMR631 | 5358 | 5368 | 5378 |

Trial No. AVT2-L-Z4(66,70 - Z4)

Maturity Medium Maturity (AVT I+II Year)
 Year (Season): 2013-Kharif
 Replication : 3
 No. of Rows : 6
 Row Length: 4 mts.

Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi , Mandya, Coimbatore and Vagarai

| E.No. | Hybrids Name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|--------------|-----------------|-------------------|------|----------|------|------|------|
| Tr.66 | | | | | | | |
| 1 | EHL-2211 | AREC ,Bajaura | Z-4 | DMR641 | 5399 | 5400 | 5410 |
| Tr.70 | | | | | | | |
| 2 | X35A189 | PHI Seeds Ltd. | Z-4 | DMR642 | 5391 | 5408 | 5409 |
| 3 | P3377 (X35A194) | PHI Seeds Ltd. | Z-4 | DMR643 | 5394 | 5405 | 5411 |
| 4 | PRO 383 | Bayer Bioscience | Z-4 | DMR644 | 5396 | 5407 | 5412 |
| 5 | JH 31470 | PAU Ludhiana | Z-4 | DMR645 | 5393 | 5403 | 5415 |
| 6 | PMH 4(C) | PAU, Ludhiana | Z-4 | DMR646 | 5392 | 5402 | 5414 |
| 7 | BIO 9637 (C) | Bio seed Research | Z-4 | DMR647 | 5397 | 5406 | 5416 |
| 8 | HM 12(C) | HAU, Karnal | Z-4 | DMR648 | 5395 | 5404 | 5417 |
| 9 | HM8 (C) | HAU, Karnal | Z-4 | DMR649 | 5398 | 5401 | 5413 |

Trial No. AVT12-M-Z5 (66,70-Z5)

Maturity Medium Maturity (AVT I+II Year)

Year (Season): 2013-Kharif

No. of Rows : 6

Replication : 4

Row Length: 4 mts.

Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

| E.No. | Hybrids Name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|--------------|--------------|-------------------|------|----------|------|------|------|------|
| Tr.66 | | | | | | | | |
| 1 | IJ8533 | Monsanto | Z-5 | DMR651 | 5421 | 5431 | 5436 | 5443 |
| Tr.70 | | | | | | | | |
| 2 | EH-1974 | MPUA&T, Udaipur | Z-5 | DMR652 | 5422 | 5432 | 5433 | 5439 |
| 3 | PMH 4(C) | PAU, Ludhiana | Z-5 | DMR653 | 5425 | 5428 | 5435 | 5440 |
| 4 | BIO 9637 (C) | Bio seed Research | Z-5 | DMR654 | 5423 | 5427 | 5438 | 5442 |
| 5 | HM 12(C) | HAU, Karnal | Z-5 | DMR655 | 5426 | 5429 | 5437 | 5444 |
| 6 | HM8 (C) | HAU, Karnal | Z-5 | DMR656 | 5424 | 5430 | 5434 | 5441 |

Trial No. AVT2-M-Z3 (70-Z3)

Maturity Medium Maturity (AVT-II Year)

Year (Season): 2013-Kharif

Replication : 4

No. of Rows : 6

Row Length: 4 mts.

Locations: Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

| E.No. | Hybrids Name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|-------|------------------|-------------------|------|----------|------|------|------|------|
| 1 | X35A189 | PHI Seeds Ltd. | Z-3 | DMR661 | 5451 | 5458 | 5467 | 5469 |
| 2 | PMH 4(C) | PAU, Ludhiana | Z-3 | DMR662 | 5452 | 5457 | 5463 | 5471 |
| 3 | BIO9637 (Filler) | Bio seed Research | Z-3 | DMR663 | 5456 | 5459 | 5466 | 5474 |
| 4 | BIO 9637 (C) | Bio seed Research | Z-3 | DMR664 | 5454 | 5462 | 5464 | 5472 |
| 5 | HM 12(C) | HAU, Karnal | Z-3 | DMR665 | 5453 | 5460 | 5465 | 5473 |
| 6 | HM8 (C) | HAU, Karnal | Z-3 | DMR666 | 5455 | 5461 | 5468 | 5470 |

Trial No. AVT12-E-Z1(67,71-Z1)

Maturity Early Maturity (AVT I+II Year)

Year (Season): 2013-Kharif

Replication : 3

No. of Rows : 6

Row Length: 4 mts.

Locations: K.D.Farm – Srinagar, Udhampur, Almora, Bajaura, Kangra, Barapani, Gossaiganon

| E.No. | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|--------------|--------------|-------------------|------|----------|------|------|------|
| Tr.67 | | | | | | | |
| 1 | FH-3609 | VPKAS,Almora | Z-1 | DMR671 | 5493 | 5507 | 5521 |
| 2 | FH-3626 | VPKAS,Almora | Z-1 | DMR672 | 5488 | 5505 | 5511 |
| 3 | EH-2212 | MPUA&T,Udaipur | Z-1 | DMR673 | 5482 | 5496 | 5523 |
| 4 | EH-2223 | MPUA&T,Udaipur | Z-1 | DMR674 | 5492 | 5499 | 5519 |
| 5 | Bio 6008 | Bioseed Research | Z-1 | DMR675 | 5486 | 5506 | 5513 |
| 6 | REH-2011-2 | CSAU& T,Kanpur | Z-1 | DMR676 | 5489 | 5497 | 5518 |
| 7 | FH-3605 | VPKAS,Almora | Z-1 | DMR677 | 5484 | 5500 | 5516 |
| 8 | EH-2170 | MPUA&T,Udaipur | Z-1 | DMR678 | 5487 | 5501 | 5512 |
| Tr.71 | | | | | | | |
| 9 | K-21 | Kanchan Ganga | Z-1 | DMR679 | 5483 | 5508 | 5522 |
| 10 | DAS-MH-501 | Dow AgroSciences | Z-1 | DMR680 | 5481 | 5498 | 5517 |
| 11 | Bisco 2238 | Bisco Biosciences | Z-1 | DMR681 | 5494 | 5509 | 5525 |
| 12 | EHL 162508 | AREC,Bajaura | Z-1 | DMR682 | 5495 | 5510 | 5515 |
| 13 | KNMH-4010141 | ARS,Karimnagar | Z-1 | DMR683 | 5490 | 5502 | 5520 |
| 14 | PMH 5 (C) | PAU Ludhiana | Z-1 | DMR684 | 5491 | 5503 | 5514 |
| 15 | Prakash (C) | PAU Ludhiana | Z-1 | DMR685 | 5485 | 5504 | 5524 |

Trial No. AVT12-E-Z2(67-Z2)

Maturity Early Maturity (AVT -I Year)
 Year (Season): 2013-Kharif
 Replication : 4
 No. of Rows : 4
 Row Length: 4 mts.

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

| E.No | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|------|----------------|------------------|------|----------|------|------|------|------|
| 1 | CMH 10-484 | AICRP-Coimbatore | Z-2 | DMR691 | 5533 | 5539 | 5548 | 5551 |
| 2 | JH 31602 | PAU Ludhiana | Z-2 | DMR692 | 5531 | 5541 | 5546 | 5554 |
| 3 | EH-2170 | MPUA&T,Udaipur | Z-2 | DMR693 | 5536 | 5537 | 5547 | 5550 |
| 4 | PMH 5 (Filler) | PAU Ludhiana | Z-2 | DMR694 | 5535 | 5538 | 5543 | 5549 |
| 5 | Prakash (C) | PAU Ludhiana | Z-2 | DMR695 | 5532 | 5540 | 5545 | 5552 |
| 6 | PMH 5 (C) | PAU Ludhiana | Z-2 | DMR696 | 5534 | 5542 | 5544 | 5553 |

Trial No. AVT12-E-Z3(67,71-Z3)

Maturity Early Maturity (AVT +II Year) No. of Rows : 6
 Year (Season): 2013-Kharif Row Length: 4 mts.
 Replication : 4

Locations: Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

| E.No | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|--------------|-------------|------------------|------|----------|------|------|------|------|
| Tr.67 | | | | | | | | |
| 1 | FH-3605 | VPKAS,Almora | Z-3 | DMR701 | 5565 | 5567 | 5577 | 5579 |
| 2 | JH 31602 | PAU Ludhiana | Z-3 | DMR702 | 5564 | 5568 | 5574 | 5580 |
| Tr.71 | | | | | | | | |
| 3 | DAS-MH-501 | Dow AgroSciences | Z-3 | DMR703 | 5562 | 5572 | 5573 | 5582 |
| 4 | EHL 162508 | AREC,Bajaura | Z-3 | DMR704 | 5563 | 5569 | 5578 | 5583 |
| 5 | Prakash (C) | PAU Ludhiana | Z-3 | DMR705 | 5561 | 5570 | 5576 | 5581 |
| 6 | PMH 5 (C) | PAU Ludhiana | Z-3 | DMR706 | 5566 | 5571 | 5575 | 5584 |

Trial No. AVT12-E-Z4(67,71 - Z4)

Maturity Early Maturity (AVT I+II Year) No. of Rows : 6
 Year (Season): 2013-Kharif Row Length: 4 mts.
 Replication : 3

Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi, Mandya, Coimbatore and Vagarai

| E.No | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|--------------|--------------|-------------------|------|----------|------|------|------|
| Tr.67 | | | | | | | |
| 1 | AH-1206 | IARI Pusa Delhi. | Z-4 | DMR711 | 5592 | 5610 | 5619 |
| 2 | KMH-7021 | Kaveri Seed | Z-4 | DMR712 | 5591 | 5612 | 5622 |
| 3 | FH-3605 | VPKAS,Almora | Z-4 | DMR713 | 5597 | 5611 | 5615 |
| 4 | EH-2170 | MPUA&T,Udaipur | Z-4 | DMR714 | 5598 | 5607 | 5621 |
| Tr.71 | | | | | | | |
| 5 | K-21 | Kanchan Ganga | Z-4 | DMR715 | 5596 | 5609 | 5623 |
| 6 | DAS-MH-501 | Dow AgroSciences | Z-4 | DMR716 | 5594 | 5603 | 5618 |
| 7 | Bisco 2238 | Bisco Biosciences | Z-4 | DMR717 | 5599 | 5606 | 5614 |
| 8 | FH-3548 | VPKAS,Almora | Z-4 | DMR718 | 5595 | 5605 | 5613 |
| 9 | KNMH-4010141 | ARS,Karimnagar | Z-4 | DMR719 | 5601 | 5604 | 5616 |
| 10 | Prakash (C) | PAU Ludhiana | Z-4 | DMR720 | 5600 | 5608 | 5620 |
| 11 | PMH 5 (C) | PAU Ludhiana | Z-4 | DMR721 | 5593 | 5602 | 5617 |

Trial No. AVT12-E-Z5(67,71 - Z5)

Maturity Early Maturity (AVT I+II Year) No. of Rows : 6
 Year (Season): 2013-Kharif Row Length: 4 mts.
 Replication : 3

Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

| E.No | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|--------------|-------------|-------------------|------|----------|------|------|------|
| Tr.67 | | | | | | | |
| 1 | CMH 10-531 | AICRP- Coimbatore | Z-5 | DMR731 | 5638 | 5645 | 5654 |
| Tr.71 | | | | | | | |
| 2 | K-21 | Kanchan Ganga | Z-5 | DMR732 | 5631 | 5644 | 5649 |
| 3 | DAS-MH-501 | Dow AgroSciences | Z-5 | DMR733 | 5637 | 5639 | 5653 |
| 4 | Bisco 2238 | Bisco Biosciences | Z-5 | DMR734 | 5633 | 5640 | 5647 |
| 5 | EHL 162508 | AREC,Bajaura | Z-5 | DMR735 | 5634 | 5646 | 5648 |
| 6 | JH 31485 | PAU Ludhiana | Z-5 | DMR736 | 5632 | 5643 | 5652 |
| 7 | Prakash (C) | PAU Ludhiana | Z-5 | DMR737 | 5635 | 5642 | 5651 |
| 8 | PMH 5 (C) | PAU Ludhiana | Z-5 | DMR738 | 5636 | 5641 | 5650 |

Trial No. AVT12-EX-Z1(68,72 - Z1)

Maturity Extra Early Maturity (AVT I+II Year)
 Year (Season): 2013-Kharif
 Replication : 3
 No. of Rows : 6
 Row Length: 4 mts.

Locations: K.D.Farm – Srinagar, Udampur, Almora, Bajaura, Kangra, Barapani, Gossaioganon

| E.No. | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 |
|--------------|--------------------|--------------------|------|----------|------|------|------|
| Tr.68 | | | | | | | |
| 1 | FH-3594 | VPKAS,Almora | Z-1 | DMR741 | 5667 | 5675 | 5679 |
| 2 | AH-1202 | IARI Pusa Delhi. | Z-1 | DMR742 | 5662 | 5677 | 5685 |
| 3 | DH-238 | GBPUA&T,Pantnagar | Z-1 | DMR743 | 5669 | 5678 | 5680 |
| 4 | DH-262 | GBPUA&T,Pantnagar | Z-1 | DMR744 | 5663 | 5671 | 5681 |
| Tr.72 | | | | | | | |
| 5 | K-75 | Kanchan Ganga Seed | Z-1 | DMR745 | 5668 | 5670 | 5687 |
| 6 | FH-3554 | VPKAS,Almora | Z-1 | DMR746 | 5661 | 5672 | 5686 |
| 7 | FH-3556 | VPKAS,Almora | Z-1 | DMR747 | 5666 | 5676 | 5682 |
| 8 | Vivek QPM 9 (C) | VPKAS,Almora | Z-1 | DMR748 | 5665 | 5673 | 5683 |
| 9 | Vivek Hybrid 9 (C) | VPKAS,Almora | Z-1 | DMR749 | 5664 | 5674 | 5684 |

Trial No. AVT2-EX-Z3 (72-Z3)

Maturity Extra Early Maturity (AVT II Year)
 Year (Season): 2013-Kharif
 Replication : 4
 No. of Rows : 6
 Row Length: 4 mts.

Locations: Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

| E.No. | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|-------|----------------------|--------------------|------|----------|------|------|------|------|
| 1 | K-75 | Kanchan Ganga Seed | Z-3 | DMR751 | 5694 | 5698 | 5703 | 5714 |
| 2 | FH-3556 | VPKAS,Almora | Z-3 | DMR752 | 5696 | 5701 | 5705 | 5712 |
| 3 | FH-3558 | VPKAS,Almora | Z-3 | DMR753 | 5691 | 5700 | 5707 | 5709 |
| 4 | Vivek QPM 9 (Filler) | VPKAS,Almora | Z-3 | DMR754 | 5693 | 5699 | 5704 | 5713 |
| 5 | Vivek QPM 9 (C) | VPKAS,Almora | Z-3 | DMR755 | 5695 | 5702 | 5708 | 5710 |
| 6 | Vivek Hybrid 9 (C) | VPKAS,Almora | Z-3 | DMR756 | 5692 | 5697 | 5706 | 5711 |

Trial No. AVT2-EX-Z4(72 - Z4)

Maturity Extra Early Maturity (AVT II Year)
 Year (Season): 2013-Kharif
 Replication : 4
 No. of Rows : 6
 Row Length: 4 mts.

Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi, Mandya, Coimbatore and Vagarai

| E.No. | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|-------|------------------------|-----------------|------|----------|------|------|------|------|
| 1 | FH-3556 | VPKAS,Almora | Z-4 | DMR761 | 5721 | 5730 | 5734 | 5742 |
| 2 | Vivek QPM 9 (Filler) | VPKAS,Almora | Z-4 | DMR762 | 5723 | 5729 | 5737 | 5740 |
| 3 | vivek Hybrid 9(Filler) | VPKAS,Almora | Z-4 | DMR763 | 5725 | 5727 | 5733 | 5739 |
| 4 | Bio9681 (Filler) | Bioseed | Z-4 | DMR764 | 5724 | 5731 | 5736 | 5743 |
| 5 | Vivek QPM 9 (C) | VPKAS,Almora | Z-4 | DMR765 | 5722 | 5728 | 5735 | 5744 |
| 6 | Vivek Hybrid 9 (C) | VPKAS,Almora | Z-4 | DMR766 | 5726 | 5732 | 5738 | 5741 |

Trial No. AVT2-EX-Z5(72-Z5)

Maturity Extra Early Maturity (AVT II Year)
 Year (Season): 2013-Kharif
 Replication : 4
 No. of Rows : 6
 Row Length: 4 mts.

Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

| E.No. | Hybrid name | Institute/orga. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|-------|------------------------|-----------------|------|----------|------|------|------|------|
| 1 | K-75 | Kanchan Ganga | Z-5 | DMR771 | 5755 | 5761 | 5767 | 5770 |
| 2 | FH-3555 | VPKAS,Almora | Z-5 | DMR772 | 5756 | 5759 | 5764 | 5774 |
| 3 | FH3554 | VPKAS,Almora | Z-5 | DMR773 | 5751 | 5758 | 5765 | 5773 |
| 4 | Vivek Hybrid 9(Filler) | VPKAS,Almora | Z-5 | DMR774 | 5753 | 5762 | 5766 | 5772 |
| 5 | Vivek QPM 9 (C) | VPKAS,Almora | Z-5 | DMR775 | 5752 | 5760 | 5763 | 5771 |
| 6 | Vivek Hybrid 9 (C) | VPKAS,Almora | Z-5 | DMR776 | 5754 | 5757 | 5768 | 5769 |

Trial No. QPM 12

Year (Season): 2013 (Kharif)

Replication : 3

Row No. : 4

Row Length: 4 mts.

Locations:

Almora, Bajaura, Barapani, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra.

| E.No | Hybrid name | Institute/orga. | Trial no. | Zone | DMR Code | R1 | R2 | R3 |
|------|-----------------|-----------------|-----------|------|----------|------|------|------|
| 1 | EHQ-63 | MPUA&T Udaipur | QPM-1 | All | DMR781 | 5782 | 5796 | 5808 |
| 2 | EHQ-64 | MPUA&T Udaipur | QPM-1 | All | DMR782 | 5783 | 5800 | 5810 |
| 3 | VEHQ 11-1 | varanasi. | QPM-1 | All | DMR783 | 5781 | 5792 | 5803 |
| 4 | JH (QPM)3 | PAU Ludhiana | QPM-1 | All | DMR784 | 5789 | 5791 | 5804 |
| 5 | MMH QPM-6-12-13 | TCA,Dholi | QPM-1 | All | DMR785 | 5785 | 5798 | 5807 |
| 6 | VEHQ -3020 | varanasi. | QPM-2 | All | DMR786 | 5788 | 5793 | 5809 |
| 7 | HQPM 1 (C) | HAU,Karnal | C | All | DMR787 | 5784 | 5794 | 5801 |
| 8 | HQPM 5 (C) | HAU,Karnal | C | All | DMR788 | 5790 | 5799 | 5806 |
| 9 | HQPM 7 (C) | HAU,Karnal | C | All | DMR789 | 5787 | 5795 | 5805 |
| 10 | Vivek QPM 9 (C) | VPKAS,Almora | C | All | DMR790 | 5786 | 5797 | 5802 |

Trial No. Popcorn12

Year (Season): 2013 (Kharif)

Replication : 4

Row No. : 4

Row Length: 4 mts.

Locations:

Almora, Bajaura, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

| E.No | Hybrid name | Institute/orga. | Trial no. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|------|-----------------|-------------------|-----------|------|----------|------|------|------|------|
| 1 | KDPC-2 | K.D.Farm Srinagar | PC-1 | All | DMR791 | 5813 | 5821 | 5828 | 5833 |
| 2 | BPC 3 | Hyderabad | PC-1 | All | DMR792 | 5814 | 5817 | 5825 | 5831 |
| 3 | BPCH 27 | Hyderabad | PC-1 | All | DMR793 | 5815 | 5820 | 5827 | 5834 |
| 4 | Bajaura Popcorn | AREC,Bajaura | PC-2 | All | DMR794 | 5812 | 5818 | 5823 | 5829 |
| 5 | VL Popcorn-2 | VPKAS,Almora | PC-2 | All | DMR795 | 5816 | 5822 | 5826 | 5830 |
| 6 | VL POPCORN(C) | VPKAS,Almora | C | All | DMR796 | 5811 | 5819 | 5824 | 5832 |

Trial No. Sweetcorn12

Year (Season): 2013 (Kharif)

Replication : 3

Row No. : 4

Row Length: 4 mts.

Locations:

Almora, Bajaura, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

| E.No | Hybrid name | Institute/orga. | Trial no. | Zone | DMR Code | R1 | R2 | R3 |
|------|-----------------------------|--------------------------------|-----------|------|----------|------|------|------|
| 1 | ADVSW-1 | Advanta Seeds India Ltd. | SC-1 | All | DMR801 | 5843 | 5859 | 5866 |
| 2 | ADVSW-2 | Advanta Seeds India Ltd. | SC-1 | All | DMR802 | 5850 | 5854 | 5867 |
| 3 | FSCH-41 | VPKAS,Almora | SC-1 | All | DMR803 | 5847 | 5860 | 5869 |
| 4 | KSCH-222 | Kaveri Seeds Company Ltd. | SC-2 | All | DMR804 | 5849 | 5853 | 5863 |
| 5 | KSCH-333 | Kaveri Seeds Company Ltd. | SC-2 | All | DMR805 | 5842 | 5858 | 5870 |
| 6 | FSCH-18 | VPKAS,Almora | SC-2 | All | DMR806 | 5851 | 5852 | 5871 |
| 7 | Bajaura Sweet Corn | AREC,Bajaura | SC-2 | All | DMR807 | 5848 | 5861 | 5873 |
| 8 | Bisco Madhu | Bisco Bioscience Crop Pvt Ltd. | SC-2 | All | DMR808 | 5845 | 5856 | 5872 |
| 9 | Madhuri sweet corn(C) | ARU Hyderabad | C | All | DMR809 | 5844 | 5857 | 5865 |
| 10 | PRIYA SWEETCORN(C) | ARU Hyderabad | C | All | DMR810 | 5846 | 5855 | 5868 |
| 11 | Win Orange Sweet Corn(C) | WNC,Hyderabad | C | All | DMR811 | 5841 | 5862 | 5864 |

Trial No. Babycorn12

Year (Season): 2013 (Kharif)

Replication : 4

Row No. : 4

Row Length: 4 mts.

Locations:

Almora, Bajaura, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

| E.No | Hybrid name | Institute/orga. | Trial no. | Zone | DMR Code | R1 | R2 | R3 | R4 |
|------|-----------------|------------------------|-----------|------|----------|------|------|------|------|
| 1 | CMH 11-658 | AICRP-Maize Coimbatore | BC-1 | All | DMR821 | 5884 | 5892 | 5893 | 5902 |
| 2 | CMH 11-659 | AICRP-Maize Coimbatore | BC-1 | All | DMR822 | 5886 | 5889 | 5898 | 5899 |
| 3 | Vivek Hybrid-27 | VPKAS,Almora | BC-2 | All | DMR823 | 5885 | 5891 | 5895 | 5900 |
| 4 | BIO-9637(F) | Bio Seed Pvt.Ltd. | F | All | DMR824 | 5882 | 5890 | 5894 | 5901 |
| 5 | PMH-3(F) | PAU,Ludhiana | F | All | DMR825 | 5883 | 5887 | 5896 | 5903 |
| 6 | HM 4(C) | HAU,Karnal | C | All | DMR826 | 5881 | 5888 | 5897 | 5904 |

Agronomy**Trial No. AVT2-L-Z1(69)**

N X G Trial : Late Z - I

Late Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Bajura, Kangra

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------------|------------------------|-----------|------|----------|
| 1 | HTMH 5106 | Hytech Seed | 69 | Z-1 | DMR831 |
| 2 | HTMH 5402 | Hytech Seed | 69 | Z-1 | DMR832 |
| 3 | PFMH-97 I 57(AMAR) | Pro Farm Seed | 69 | Z-1 | DMR833 |
| 4 | MCH-45 | Monsanto . | 69 | Z-1 | DMR834 |
| 5 | P3580(X35A180) | PHI Seeds Ltd. | 69 | Z-1 | DMR835 |
| 6 | PRO 385 | Bayer Bioscience | 69 | Z-1 | DMR836 |
| 7 | PRO 384 | Bayer Bioscience | 69 | Z-1 | DMR837 |
| 8 | MCH-46 | Monsanto . | 69 | Z-1 | DMR838 |
| 9 | GK 3103 | Ganga Kaveri Seeds | 69 | Z-1 | DMR839 |
| 10 | PMH 1 (C) | PAU Ludhiana | 69 | Z-1 | DMR840 |
| 11 | PMH 3 (C) | PAU Ludhiana | 69 | Z-1 | DMR841 |
| 12 | Seedtech-2324 (C) | Bisco Bioscience Crop | 69 | Z-1 | DMR842 |
| 13 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | 69 | Z-1 | DMR843 |

Trial N X G - L - Z-III

N X G Trial : Late Z - III

Late Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Bahraich, Bubbheshwar

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|-------------------|--------------------------|-----------|------|----------|
| 1 | CMH 08-381 | AICRP-Coimbatore | 69 | Z-3 | DMR851 |
| 2 | CMH 08-381 (G) | AICRP-Coimbatore | 69 | Z-3 | DMR852 |
| 3 | CMH 09-464 | AICRP-Coimbatore | 69 | Z-3 | DMR853 |
| 4 | P3580(X35A180) | PHI Seeds Ltd. | 69 | Z-3 | DMR854 |
| 5 | Orbit | Yaaganti Seeds Pvt. Ltd. | 69 | Z-3 | DMR855 |
| 6 | PMH 1 (C) | PAU Ludhiana | 69 | Z-3 | DMR856 |
| 7 | PMH 3 (C) | PAU Ludhiana | 69 | Z-3 | DMR857 |
| 8 | Seedtech-2324 (C) | Bisco Bioscience Crop | 69 | Z-3 | DMR858 |
| 9 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | 69 | Z-3 | DMR859 |

Trial No. N X G - L - Z-IV

N X G Trial : Late Z - IV

Late Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Karimnagar, Hyderabad

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|-------------------|----------------------------|-----------|------|----------|
| 1 | Laxmi 333 | Yaaganti Seeds Pvt. Ltd. | 69 | Z-4 | DMR861 |
| 2 | CMH 08-381 | AICRP-Coimbatore | 69 | Z-4 | DMR862 |
| 3 | P 4546 | PHI Seeds Ltd. | 69 | Z-4 | DMR863 |
| 4 | P3580(X35A180) | PHI Seeds Ltd. | 69 | Z-4 | DMR864 |
| 5 | PRO 385 | Bayer Bioscience Pvt Ltd. | 69 | Z-4 | DMR865 |
| 6 | MCH-46 | Monsanto India | 69 | Z-4 | DMR866 |
| 7 | S 6668 | Syngenta India Ltd. | 69 | Z-4 | DMR867 |
| 8 | HTMH 5106 | Hytech Seed India Pvt.Ltd. | 69 | Z-4 | DMR868 |
| 9 | PMH 1 (C) | PAU Ludhiana | 69 | Z-4 | DMR869 |
| 10 | PMH 3 (C) | PAU Ludhiana | 69 | Z-4 | DMR870 |
| 11 | Seedtech-2324 (C) | Bisco Bioscience Crop | 69 | Z-4 | DMR871 |
| 12 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | 69 | Z-4 | DMR872 |

Trial No. N X G - L - Z-V

N X G Trial : Late Z - V Late Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Udaipur, Banswara

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------------|--------------------------------|-----------|------|----------|
| 1 | PFMH-97 I 57(AMAR) | Pro Farm Seed India Pvt. Ltd. | 69 | Z-5 | DMR881 |
| 2 | CP 333 | CP Seeds Pvt. L.td. | 69 | Z-5 | DMR882 |
| 3 | P4546 | PHI Seeds Ltd. | 69 | Z-5 | DMR883 |
| 4 | P3580(X35A180) | PHI Seeds Ltd. | 69 | Z-5 | DMR884 |
| 5 | MCH-46 | Monsanto India Ltd. Bangalore. | 69 | Z-5 | DMR885 |
| 6 | PMH 1 (C) | PAU Ludhiana | 69 | Z-5 | DMR886 |
| 7 | PMH 3 (C) | PAU Ludhiana | 69 | Z-5 | DMR887 |
| 8 | Seedtech-2324 (C) | Bisco Bioscience Crop | 69 | Z-5 | DMR888 |
| 9 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | 69 | Z-5 | DMR889 |

Trial No. AVT2-M (70)

Trial N X G - Medium- Z-I

N X G Trial :Medium Z - I Medium Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Kangra, Bajura

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|---------------|------------------------|-----------|------|----------|
| 1 | EHL-161708 | AREC,Bajaura | 70 | Z-1 | DMR891 |
| 2 | PMH 4(C) | PAU, Ludhiana | 70 | Z-1 | DMR892 |
| 3 | BIO 9637 (C) | Bio seed Research | 70 | Z-1 | DMR893 |

Trial No. N X G - M- Z-III

N X G Trial : Medium Z - III

Medium Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Baharaich, Varanasi

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|---------------|------------------------|-----------|------|----------|
| 1 | X35A189 | PHI Seeds Ltd. | 70 | Z-3 | DMR901 |
| 2 | PMH 4(C) | PAU, Ludhiana | 70 | Z-3 | DMR902 |
| 3 | BIO 9637 (C) | Bio seed Research | 70 | Z-3 | DMR903 |

Trial No. N X G -M - Z-IV

N X G Trial : Medium Z - IV

Medium Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Arbhavi, Hyderabad

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|-----------------|------------------------|-----------|------|----------|
| 1 | X35A189 | PHI Seeds Ltd. | 70 | Z-4 | DMR911 |
| 2 | P3377 (X35A194) | PHI Seeds Ltd. | 70 | Z-4 | DMR912 |
| 3 | PRO 383 | Bayer Bioscience | 70 | Z-4 | DMR913 |
| 4 | JH 31470 | PAU Ludhiana | 70 | Z-4 | DMR914 |
| 5 | PMH 4(C) | PAU, Ludhiana | 70 | Z-4 | DMR915 |
| 6 | BIO 9637 (C) | Bio seed Research | 70 | Z-4 | DMR916 |

Trial No. N X G -Medium- Z-V

N X G Trial : Medium Z - V

Medium Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Chindwara, Banswara

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|---------------|------------------------|-----------|------|----------|
| 1 | EH-1974 | MPUA&T, Udaipur | 70 | Z-5 | DMR921 |
| 2 | PMH 4(C) | PAU, Ludhiana | 70 | Z-5 | DMR922 |
| 3 | BIO 9637 (C) | Bio seed Research | 70 | Z-5 | DMR923 |

Trial No. AVT2-E(71)

Trial N X G -Early- Z-I

N X G Trial : Early Z - I

Early Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Almora, Bajaura

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------|------------------------|-----------|------|----------|
| 1 | K-21 | Kanchan Ganga | 71 | Z-1 | DMR931 |
| 2 | DAS-MH-501 | Dow AgroSciences | 71 | Z-1 | DMR932 |
| 3 | Bisco 2238 | Bisco Biosciences | 71 | Z-1 | DMR933 |
| 4 | EHL 162508 | AREC,Bajaura | 71 | Z-1 | DMR934 |
| 5 | KNMH-4010141 | ARS,Karimnagar | 71 | Z-1 | DMR935 |
| 6 | PMH 5 (C) | PAU Ludhiana | 71 | Z-1 | DMR936 |
| 7 | Prakash (C) | PAU Ludhiana | 71 | Z-1 | DMR937 |

Trial No. N X G -E- Z-III

N X G Trial : Early Z - III

Early Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Bubhneswar, Ranchi

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|-------------|------------------------|-----------|------|----------|
| 1 | DAS-MH-501 | Dow AgroSciences | 71 | Z-3 | DMR941 |
| 2 | EHL 162508 | AREC,Bajaura | 71 | Z-3 | DMR942 |
| 3 | Prakash (C) | PAU Ludhiana | 71 | Z-3 | DMR943 |
| 4 | PMH 5 (C) | PAU Ludhiana | 71 | Z-3 | DMR944 |

Trial No. N X G -E- Z-IV

N X G Trial : Early Z - IV

Early Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Karimnagar, Arbhavi

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------|------------------------|-----------|------|----------|
| 1 | K-21 | Kanchan Ganga | 71 | Z-4 | DMR951 |
| 2 | DAS-MH-501 | Dow AgroSciences | 71 | Z-4 | DMR952 |
| 3 | Bisco 2238 | Bisco Biosciences | 71 | Z-4 | DMR953 |
| 4 | FH-3548 | VPKAS,Almora | 71 | Z-4 | DMR954 |
| 5 | KNMH-4010141 | ARS,Karimnagar | 71 | Z-4 | DMR955 |
| 6 | Prakash (C) | PAU Ludhiana | 71 | Z-4 | DMR956 |
| 7 | PMH 5 (C) | PAU Ludhiana | 71 | Z-4 | DMR957 |

Trial No. N X G -E- Z-V

N X G Trial : Early Z - V

Early Maturity (AVT 2nd Year)

Year (Season):

2013-Kharif

Locations: Chindwara, Godhra

| E.N | Hybrid Name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|-------------|------------------------|-----------|------|----------|
| 1 | K-21 | Kanchan Ganga | 71 | Z-5 | DMR961 |
| 2 | DAS-MH-501 | Dow AgroSciences | 71 | Z-5 | DMR962 |
| 3 | Bisco 2238 | Bisco Biosciences | 71 | Z-5 | DMR963 |
| 4 | EHL 162508 | AREC,Bajaura | 71 | Z-5 | DMR964 |
| 5 | JH 31485 | PAU Ludhiana | 71 | Z-5 | DMR965 |
| 6 | Prakash (C) | PAU Ludhiana | 71 | Z-5 | DMR966 |
| 7 | PMH 5 (C) | PAU Ludhiana | 71 | Z-5 | DMR967 |

Trial No. N X G -EX- Z-I

N X G Trial : Extra Early Z -I Extra Early Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Bajaura, Almora

| E.N | Hybrid name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------------|------------------------|-----------|------|----------|
| 1 | K-75 | Kanchan Ganga Seed | 72 | Z-1 | DMR971 |
| 2 | FH-3554 | VPKAS,Almora | 72 | Z-1 | DMR972 |
| 3 | FH-3556 | VPKAS,Almora | 72 | Z-1 | DMR973 |
| 4 | Vivek QPM 9 (C) | VPKAS,Almora | 72 | Z-1 | DMR974 |
| 5 | Vivek Hybrid 9 (C) | VPKAS,Almora | 72 | Z-1 | DMR975 |

Trial No. N X G -EX- Z-III

N X G Trial : Extra Early Z -III Extra Early Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Dholi, Ranchi

| E.N | Hybrid name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------------|------------------------|-----------|------|----------|
| 1 | K-75 | Kanchan Ganga Seed | 72 | Z-3 | DMR976 |
| 2 | FH-3556 | VPKAS,Almora | 72 | Z-3 | DMR977 |
| 3 | FH-3558 | VPKAS,Almora | 72 | Z-3 | DMR978 |
| 4 | Vivek QPM 9 (C) | VPKAS,Almora | 72 | Z-3 | DMR979 |
| 5 | Vivek Hybrid 9 (C) | VPKAS,Almora | 72 | Z-3 | DMR980 |

Trial No. N X G -EX- Z-IV

N X G Trial : Extra Early Z -IV Extra Early Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Kholapur, Vagarai

| E.N | Hybrid name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------------|------------------------|-----------|------|----------|
| 1 | FH-3556 | VPKAS,Almora | 72 | Z-4 | DMR981 |
| 2 | Vivek QPM 9 (C) | VPKAS,Almora | 72 | Z-4 | DMR982 |
| 3 | Vivek Hybrid 9 (C) | VPKAS,Almora | 72 | Z-4 | DMR983 |

Trial No. N X G -EX- Z-V

N X G Trial : Extra Early Z -V Extra Early Maturity (AVT 2nd Year)

Year (Season): 2013-Kharif

Locations: Ambikapur, Godhra

| E.N | Hybrid name | Institute/Organization | Trial no. | Zone | DMR Code |
|-----|--------------------|------------------------|-----------|------|----------|
| 1 | K-75 | Kanchan Ganga | 72 | Z-5 | DMR991 |
| 2 | FH-3555 | VPKAS,Almora | 72 | Z-5 | DMR992 |
| 3 | FH3554 | VPKAS,Almora | 72 | Z-5 | DMR993 |
| 4 | Vivek QPM 9 (C) | VPKAS,Almora | 72 | Z-5 | DMR994 |
| 5 | Vivek Hybrid 9 (C) | VPKAS,Almora | 72 | Z-5 | DMR995 |

Pathology

Trial No. IVT-L

Maturity : Late Pathology, Nematology and Soil Science Trial - Late
 Year (Season): 2013-Kharif
 Replication : 2
 No. of Rows : 2
 Row Length: 4 mts.
 Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

| Nematology: Udaipur | | Soil Science: | | Pantnagar | | |
|---------------------|--------------|-------------------------------------|------|-----------|------|------|
| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
| 1 | IM8539 | Monsanto India Ltd. | All | DMR101 | 1005 | 1123 |
| 2 | IM8562 | Monsanto India Ltd. | All | DMR102 | 1007 | 1088 |
| 3 | IM8556 | Monsanto India Ltd. | All | DMR103 | 1066 | 1117 |
| 4 | IM8554 | Monsanto India Ltd. | All | DMR104 | 1040 | 1095 |
| 5 | II 8017 | Monsanto India Ltd. | All | DMR105 | 1002 | 1106 |
| 6 | Siri 4546 | Siri Seeds Pvt. Ltd. | All | DMR106 | 1045 | 1079 |
| 7 | Siri 4527 | Siri Seeds Pvt. Ltd. | All | DMR107 | 1019 | 1084 |
| 8 | RMH-972 | Rasi Seeds Pvt. Ltd. | All | DMR108 | 1055 | 1112 |
| 9 | Super GA-105 | Godrej Seeds & Genetics Ltd. | All | DMR109 | 1022 | 1083 |
| 10 | Janahit | Godrej Seeds & Genetics Ltd. | All | DMR110 | 1048 | 1090 |
| 11 | HTMH-5202 | Hytech Seed India Pvt. Ltd | All | DMR111 | 1056 | 1127 |
| 12 | HTMH-5404 | Hytech Seed India Pvt. Ltd | All | DMR112 | 1059 | 1072 |
| 13 | DMH-696 | Metahelix Lifesciences Ltd. | All | DMR113 | 1036 | 1126 |
| 14 | FCH-11270 | Foliage Crop Solution Pvt Ltd. | All | DMR114 | 1030 | 1115 |
| 15 | FCH-11273 | Foliage Crop Solution Pvt Ltd. | All | DMR115 | 1052 | 1136 |
| 16 | VNR-31834 | VNR Seeds Pvt. Ltd. | All | DMR116 | 1010 | 1094 |
| 17 | VNR-31355 | VNR Seeds Pvt. Ltd. | All | DMR117 | 1060 | 1129 |
| 18 | TMMH-807 | Trimurti Plant Science Pvt Ltd. | All | DMR118 | 1001 | 1104 |
| 19 | KMH-2811 | Kaveri Seeds Company Ltd. | All | DMR119 | 1021 | 1076 |
| 20 | JKMH-4029 | J.K.Agriculture Genetics Ltd. | All | DMR120 | 1062 | 1122 |
| 21 | DAS-MH-104 | Dow Agro Sciences Ltd. | All | DMR121 | 1068 | 1096 |
| 22 | DAS-MH-105 | Dow Agro Sciences Ltd. | All | DMR122 | 1050 | 1110 |
| 23 | ASMH-777 | S.S.S.Seeds Pvt Ltd. | All | DMR123 | 1025 | 1092 |
| 24 | ASMH-333 | S.S.S.Seeds Pvt Ltd. | All | DMR124 | 1057 | 1101 |
| 25 | PRO-391 | Byer BioSciences Pvt Ltd. | All | DMR125 | 1023 | 1086 |
| 26 | KH-2192 | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR126 | 1027 | 1121 |
| 27 | B-54 | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR127 | 1051 | 1078 |
| 28 | polo | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR128 | 1029 | 1128 |
| 29 | CP-999 | C.P.Seeds Pvt. Ltd. | All | DMR129 | 1035 | 1103 |
| 30 | GK-3155 | Ganga Kaveri Seeds Pvt. Ltd. | All | DMR130 | 1038 | 1114 |
| 31 | GK-3158 | Ganga Kaveri Seeds Pvt. Ltd. | All | DMR131 | 1012 | 1081 |
| 32 | Super- 6768 | Super Seed Pvt. Ltd. | All | DMR132 | 1043 | 1105 |
| 33 | Super-1177 | Super Seed Pvt. Ltd. | All | DMR133 | 1064 | 1134 |
| 34 | NMH-1603 | Nuziveedu Seed Ltd. | All | DMR134 | 1039 | 1135 |
| 35 | CMH 10-548 | AICRP-Maize Coimbatore | All | DMR135 | 1067 | 1097 |
| 36 | CMH 10-550 | AICRP-Maize Coimbatore | All | DMR136 | 1009 | 1131 |
| 37 | CMH 11-583 | AICRP-Maize Coimbatore | All | DMR137 | 1015 | 1077 |
| 38 | CMH 11-586 | AICRP-Maize Coimbatore | All | DMR138 | 1042 | 1080 |
| 39 | CMH 11-591 | AICRP-Maize Coimbatore | All | DMR139 | 1017 | 1074 |

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|--------------------|----------------------------------|------|----------|------|------|
| 40 | CMH 11-660 | AICRP-Maize Coimbatore | All | DMR140 | 1032 | 1124 |
| 41 | BH 41036 | ANGRAU MRC, Hyderabad | All | DMR141 | 1049 | 1132 |
| 42 | BH 41127 | ANGRAU MRC, Hyderabad | All | DMR142 | 1020 | 1082 |
| 43 | BH 41642 | ANGRAU MRC, Hyderabad | All | DMR143 | 1047 | 1108 |
| 44 | BH 41151 | ANGRAU MRC, Hyderabad | All | DMR144 | 1054 | 1102 |
| 45 | GH-0945 | ARS, Arabhavi-Karnataka | All | DMR145 | 1034 | 1113 |
| 46 | GH -1102 | ARS, Arabhavi-Karnataka | All | DMR146 | 1011 | 1070 |
| 47 | GH -1001 | ARS, Arabhavi-Karnataka | All | DMR147 | 1031 | 1075 |
| 48 | GH-1043 | ARS, Arabhavi-Karnataka | All | DMR148 | 1061 | 1098 |
| 49 | DKC9133 | Monsanto India Ltd. Bangalore. | All | DMR149 | 1058 | 1089 |
| 50 | X35D612 | PHI Seed Ltd. | All | DMR150 | 1065 | 1118 |
| 51 | X35D613 | PHI Seed Ltd. | All | DMR151 | 1041 | 1130 |
| 52 | X35D601 | PHI Seed Ltd. | All | DMR152 | 1037 | 1125 |
| 53 | BB 032 | Bioseed Research India Pvt. Ltd. | All | DMR153 | 1026 | 1120 |
| 54 | HTMH-5108 | Hytech Seed India Pvt. Ltd | All | DMR154 | 1063 | 1100 |
| 55 | PRO-392 | Bayer Bioscience Pvt. Ltd. | All | DMR155 | 1014 | 1085 |
| 56 | BRMH-1 | VRDC,KSSC,Dharwad | All | DMR156 | 1046 | 1107 |
| 57 | REH-2012-3 | CSAU& T,Kanpur | All | DMR157 | 1024 | 1116 |
| 58 | JH 31623 | PAU Ludhiana | All | DMR158 | 1053 | 1073 |
| 59 | JH 31638 | PAU Ludhiana | All | DMR159 | 1006 | 1069 |
| 60 | JH 12010(JH 12019) | PAU Ludhiana | All | DMR160 | 1033 | 1111 |
| 61 | JH 12171 | PAU Ludhiana | All | DMR161 | 1008 | 1133 |
| 62 | JH 12003 | PAU Ludhiana | All | DMR162 | 1018 | 1071 |
| 63 | JH 12247 | PAU Ludhiana | All | DMR163 | 1004 | 1091 |
| 64 | HKH 421 | HAU,Karnal | All | DMR164 | 1044 | 1093 |
| 65 | PMH 1 (C) | PAU Ludhiana | All | DMR165 | 1016 | 1119 |
| 66 | PMH 3 (C) | PAU Ludhiana | All | DMR166 | 1003 | 1109 |
| 67 | Seedtech-2324 (C) | Bisco Bioscience Crop Pvt Ltd. | All | DMR167 | 1028 | 1099 |
| 68 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | All | DMR168 | 1013 | 1087 |

Trial No. IVT-M

Pathology, Nematology and Soil Science Trial - Medium

Maturity :

Medium

Year (Season):

2013-Kharif

Replication :

2

No. of Rows :

2

Row Length:

4 mts.

Pathology:

Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology:

Udaipur

Soil Science:

Pantnagar

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|-----------|----------------------|------|----------|------|------|
| 1 | QMH-29134 | AICRP,Kolhapur | All | DMR201 | 2060 | 2120 |
| 2 | QMH-2916 | AICRP,Kolhapur | All | DMR202 | 2061 | 2098 |
| 3 | EHL-3412 | AREC,Bajaura | All | DMR203 | 2064 | 2112 |
| 4 | EHL-1111 | AREC,Bajaura | All | DMR204 | 2062 | 2107 |
| 5 | EHL-3512 | AREC,Bajaura | All | DMR205 | 2032 | 2147 |
| 6 | S-6750 | Syngenta India Ltd. | All | DMR206 | 2039 | 2172 |
| 7 | RMH-932 | Rasi Seeds Pvt. Ltd. | All | DMR207 | 2051 | 2142 |
| 8 | RMH-3591 | Rasi Seeds Pvt. Ltd. | All | DMR208 | 2033 | 2132 |
| 9 | PHM-34(W) | SKUAS&T Jammu | All | DMR209 | 2067 | 2149 |
| 10 | PHM-12(Y) | SKUAS&T Jammu | All | DMR210 | 2044 | 2153 |

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|------------------------|-------------------------------------|------|----------|------|------|
| 11 | LG-3271 | Bisco Bioscience Crop Pvt Ltd. | All | DMR211 | 2015 | 2144 |
| 12 | LG-3282 | Bisco Bioscience Crop Pvt Ltd. | All | DMR212 | 2041 | 2141 |
| 13 | FCH-85 | Foliage Crop Solution Pvt Ltd. | All | DMR213 | 2085 | 2122 |
| 14 | FCH-184 | Foliage Crop Solution Pvt Ltd. | All | DMR214 | 2054 | 2162 |
| 15 | FCH-11231 | Foliage Crop Solution Pvt Ltd. | All | DMR215 | 2019 | 2131 |
| 16 | KMH-6 | SAREC,Kangra | All | DMR216 | 2017 | 2089 |
| 17 | KMH-84 | SAREC,Kangra | All | DMR217 | 2021 | 2138 |
| 18 | KMH-6681 | Kaveri Seeds Company Ltd. | All | DMR218 | 2012 | 2113 |
| 19 | KMH-5951 | Kaveri Seeds Company Ltd. | All | DMR219 | 2040 | 2145 |
| 20 | JKMH-4545 | J.K.Agriculture Genetics Ltd. | All | DMR220 | 2052 | 2091 |
| 21 | SAFAL X-2 | Sarfal Seeds & Biotech Ltd. | All | DMR221 | 2063 | 2123 |
| 22 | Kuber Shakthi | PHS Agritech Pvt Ltd. | All | DMR222 | 2079 | 2105 |
| 23 | DAS-MH-304 | Dow Agro Sciences Ltd. | All | DMR223 | 2065 | 2160 |
| 24 | DAS-MH-305 | Dow Agro Sciences Ltd. | All | DMR224 | 2020 | 2094 |
| 25 | KH-517 Gold | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR225 | 2027 | 2134 |
| 26 | KH-2248 | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR226 | 2072 | 2119 |
| 27 | TH-38 | Yaaganti Seeds Pvt.Ltd. | All | DMR227 | 2031 | 2164 |
| 28 | MAHABEEJ-1202(Nirdhar) | MSSC Ltd., Akola | All | DMR228 | 2024 | 2110 |
| 29 | KDMH-2705 | Krishi Dhan Seed Ltd. | All | DMR229 | 2013 | 2163 |
| 30 | EH-2205 | MPUA&T,Udaipur | All | DMR230 | 2084 | 2165 |
| 31 | EH-2208 | MPUA&T,Udaipur | All | DMR231 | 2026 | 2170 |
| 32 | EH-2240 | MPUA&T,Udaipur | All | DMR232 | 2087 | 2108 |
| 33 | VaMH-08015 | MRS Vagarai,TNAU | All | DMR233 | 2007 | 2136 |
| 34 | PMH-209 | Prabhat Agri Biotech Ltd. | All | DMR234 | 2038 | 2118 |
| 35 | PRMH-2177 | Pravardhan Seeds Pvt Ltd. | All | DMR235 | 2004 | 2124 |
| 36 | NMH-1289 | Nuziveedu Seed Ltd. | All | DMR236 | 2077 | 2161 |
| 37 | HTMH-5402 | Hytech Seed India Pvt. Ltd | All | DMR237 | 2043 | 2121 |
| 38 | CMH 10-488 | AICRP-Maize Coimbatore | All | DMR238 | 2008 | 2157 |
| 39 | CMH 10-547 | AICRP-Maize Coimbatore | All | DMR239 | 2049 | 2155 |
| 40 | CMH 11-582 | AICRP-Maize Coimbatore | All | DMR240 | 2023 | 2150 |
| 41 | CMH 11-603 | AICRP-Maize Coimbatore | All | DMR241 | 2074 | 2129 |
| 42 | CMH 11-617 | AICRP-Maize Coimbatore | All | DMR242 | 2029 | 2167 |
| 43 | IM8478 | Monsanto India Ltd. Bangalore. | All | DMR243 | 2055 | 2093 |
| 44 | IM8479 | Monsanto India Ltd. Bangalore. | All | DMR244 | 2006 | 2096 |
| 45 | IM8581 | Monsanto India Ltd. Bangalore. | All | DMR245 | 2086 | 2168 |
| 46 | IM 7519 | Monsanto India Ltd. Bangalore. | All | DMR246 | 2037 | 2097 |
| 47 | IM 7501 | Monsanto India Ltd. Bangalore. | All | DMR247 | 2070 | 2152 |
| 48 | BH 41015 | ANGRAU MRC,ARI, Hyderabad | All | DMR248 | 2080 | 2095 |
| 49 | BH 41030 | ANGRAU MRC,ARI, Hyderabad | All | DMR249 | 2059 | 2148 |
| 50 | BH 41145 | ANGRAU MRC,ARI, Hyderabad | All | DMR250 | 2076 | 2151 |
| 51 | BH 41150 | ANGRAU MRC,ARI, Hyderabad | All | DMR251 | 2016 | 2137 |
| 52 | BH 411736 | ANGRAU MRC,ARI, Hyderabad | All | DMR252 | 2035 | 2173 |
| 53 | BH 411737 | ANGRAU MRC,ARI, Hyderabad | All | DMR253 | 2001 | 2126 |
| 54 | BH 411520 | ANGRAU MRC,ARI, Hyderabad | All | DMR254 | 2071 | 2135 |
| 55 | VEH 12-1 | Department of GPB , BHU, Varanasi. | All | DMR255 | 2030 | 2125 |
| 56 | X35D620 | PHI Seed Ltd. Hyderabad. | All | DMR256 | 2056 | 2104 |
| 57 | X35D623 | PHI Seed Ltd. Hyderabad. | All | DMR257 | 2073 | 2158 |
| 58 | X35D602 | PHI Seed Ltd. Hyderabad. | All | DMR258 | 2002 | 2146 |

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|--------------------|-----------------------------------|------|----------|------|------|
| 59 | X35D603 | PHI Seed Ltd. Hyderabad. | All | DMR259 | 2046 | 2128 |
| 60 | Bio 451 | Bioseed Research India Pvt. Ltd. | All | DMR260 | 2014 | 2171 |
| 61 | GWH-0711 | AICRP Maize. AAU, Godhra | All | DMR261 | 2003 | 2090 |
| 62 | REH-2012-1 | CSAU& T,Kanpur | All | DMR262 | 2028 | 2169 |
| 63 | REH-2012-2 | CSAU& T,Kanpur | All | DMR263 | 2066 | 2116 |
| 64 | REH-2012-4 | CSAU& T,Kanpur | All | DMR264 | 2083 | 2117 |
| 65 | JH 31595 | PAU Ludhiana | All | DMR265 | 2010 | 2143 |
| 66 | JH 31537 | PAU Ludhiana | All | DMR266 | 2034 | 2166 |
| 67 | JH 31604 | PAU Ludhiana | All | DMR267 | 2081 | 2099 |
| 68 | JH 31600(JH 31627) | PAU Ludhiana | All | DMR268 | 2011 | 2159 |
| 69 | JH 31244 | PAU Ludhiana | All | DMR269 | 2045 | 2088 |
| 70 | JH 31554 | PAU Ludhiana | All | DMR270 | 2047 | 2139 |
| 71 | AH-1226 | IARI Pusa Delhi. | All | DMR271 | 2075 | 2092 |
| 72 | AH-1262 | IARI Pusa Delhi. | All | DMR272 | 2042 | 2130 |
| 73 | MMH- 2-12-13 | TCA,Dholi | All | DMR273 | 2022 | 2156 |
| 74 | MMH- 3-12-13 | TCA,Dholi | All | DMR274 | 2058 | 2114 |
| 75 | MMH- 4-12-13 | TCA,Dholi | All | DMR275 | 2025 | 2102 |
| 76 | MMH- 5-12-13 | TCA,Dholi | All | DMR276 | 2036 | 2127 |
| 77 | HKH 338 | HAU,Karnal | All | DMR277 | 2048 | 2154 |
| 78 | HKH 339 | HAU,Karnal | All | DMR278 | 2009 | 2133 |
| 79 | HKH 340 | HAU,Karnal | All | DMR279 | 2057 | 2115 |
| 80 | KNMH-4302 | ARS,Karimnagar | All | DMR280 | 2053 | 2140 |
| 81 | KNMH-4303 | ARS,Karimnagar | All | DMR281 | 2018 | 2174 |
| 82 | KNMH-4304 | ARS,Karimnagar | All | DMR282 | 2068 | 2101 |
| 83 | KNMH-4305 | ARS,Karimnagar | All | DMR283 | 2078 | 2100 |
| 84 | KNMH-4010131 | ARS,Karimnagar | All | DMR284 | 2050 | 2103 |
| 85 | PMH 4(C) | PAU, Ludhiana | All | DMR285 | 2082 | 2106 |
| 86 | BIO 9637 (C) | Bio seed Research India Pvt. Ltd. | All | DMR286 | 2069 | 2109 |
| 87 | HM 12(C) | HAU, Karnal | All | DMR287 | 2005 | 2111 |

Trial No. IVT-E Pathology, Nematology and Soil Science Trial - Early

Maturity: Early

Year (Season): 2013-Kharif

Replication : 2

No. of Rows : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi
Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|---------|--------------------------------------|------|----------|------|------|
| 1 | LG-3181 | Bisco Bioscience Crop Pvt Ltd. | All | DMR301 | 3020 | 3049 |
| 2 | DMH-63 | Metahelix Lifesciences Ltd. | All | DMR302 | 3022 | 3042 |
| 3 | DH-264 | GBPUA&T,Pantnagar | All | DMR303 | 3021 | 3036 |
| 4 | DH-265 | GBPUA&T,Pantnagar | All | DMR304 | 3007 | 3041 |
| 5 | FH-3664 | VPKAS,Almora | All | DMR305 | 3005 | 3043 |
| 6 | FH-3669 | VPKAS,Almora | All | DMR306 | 3023 | 3055 |
| 7 | B-52 | Kanchan Ganga Seed Compnay Pvt..Ltd. | All | DMR307 | 3010 | 3033 |
| 8 | EH-2211 | MPUA&T,Udaipur | All | DMR308 | 3019 | 3054 |

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|-------------|----------------------------------|------|----------|------|------|
| 9 | EH-2214 | MPUA&T,Udaipur | All | DMR309 | 3027 | 3056 |
| 10 | EH-2233 | MPUA&T,Udaipur | All | DMR310 | 3028 | 3040 |
| 11 | NMH-1258 | Nuziveedu Seed Ltd. | All | DMR311 | 3030 | 3044 |
| 12 | CMH 11-579 | AICRP-Maize Coimbatore | All | DMR312 | 3012 | 3034 |
| 13 | CMH 11-595 | AICRP-Maize Coimbatore | All | DMR313 | 3015 | 3057 |
| 14 | CMH 11-611 | AICRP-Maize Coimbatore | All | DMR314 | 3001 | 3031 |
| 15 | CMH 11-626 | AICRP-Maize Coimbatore | All | DMR315 | 3029 | 3045 |
| 16 | CMH 11-629 | AICRP-Maize Coimbatore | All | DMR316 | 3016 | 3039 |
| 17 | BH 411305 | ANGRAU MRC, ARI , Hyderabad | All | DMR317 | 3014 | 3060 |
| 18 | Bio 9720 | Bioseed Research India Pvt. Ltd. | All | DMR318 | 3003 | 3047 |
| 19 | GWH-0712 | AICRP Maize. AAU, Godhra | All | DMR319 | 3025 | 3050 |
| 20 | GWH-0902 | AICRP Maize. AAU, Godhra | All | DMR320 | 3006 | 3058 |
| 21 | GYH-0653 | AICRP Maize. AAU, Godhra | All | DMR321 | 3013 | 3053 |
| 22 | JH 31610 | PAU Ludhiana | All | DMR322 | 3017 | 3048 |
| 23 | JH 31613 | PAU Ludhiana | All | DMR323 | 3002 | 3059 |
| 24 | AH-1261 | IARI Pusa Delhi. | All | DMR324 | 3026 | 3032 |
| 25 | AH-1219 | IARI Pusa Delhi. | All | DMR325 | 3018 | 3051 |
| 26 | MEH-1-12-13 | TCA,Dholi | All | DMR326 | 3024 | 3038 |
| 27 | HKH 341 | HAU,Karnal | All | DMR327 | 3008 | 3046 |
| 28 | KNMH-4301 | ARS,Karimnagar | All | DMR328 | 3004 | 3035 |
| 29 | PMH 5 (C) | PAU Ludhiana | All | DMR329 | 3011 | 3037 |
| 30 | Prakash (C) | PAU Ludhiana | All | DMR330 | 3009 | 3052 |

Trial No. IVT-EX

Pathology, Nematology and Soil Science Trial - Extra Early

Maturity

Extra Early

Year (Season):

2013-Kharif

Replication :

2

No. of Rows :

2

Row Length:

4 mts.

Pathology:

Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi
Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology:

Udaipur

Soil Science:

Pantnagar

| E.No. | Name | Origin | Zone | DMR Code | R1 | R2 |
|-------|---------------------|-------------------------------------|------|----------|------|------|
| 1 | DH-266 | GBPUA&T,Pantnagar | All | DMR401 | 4004 | 4024 |
| 2 | DH-267 | GBPUA&T,Pantnagar | All | DMR402 | 4013 | 4021 |
| 3 | DH-268 | GBPUA&T,Pantnagar | All | DMR403 | 4012 | 4023 |
| 4 | FH-3641 | VPKAS,Almora | All | DMR404 | 4007 | 4025 |
| 5 | KH-7502 | Kanchan Ganga Seed Compnay PVT.Ltd. | All | DMR405 | 4011 | 4020 |
| 6 | DH-269 | GBPUA&T Pantnagar | All | DMR406 | 4005 | 4015 |
| 7 | DH-270 | GBPUA&T Pantnagar | All | DMR407 | 4003 | 4018 |
| 8 | DH-271 | GBPUA&T Pantnagar | All | DMR408 | 4009 | 4014 |
| 9 | AH-1212 | IARI Pusa Delhi. | All | DMR409 | 4002 | 4016 |
| 10 | Vivek QPM 9 (C) | VPKAS,Almora | All | DMR410 | 4008 | 4019 |
| 11 | Vivek Hybrid 9 (C) | VPKAS,Almora | All | DMR411 | 4001 | 4026 |
| 12 | Vivek Hybrid 21 (C) | VPKAS,Almora | All | DMR412 | 4010 | 4022 |
| 13 | Vivek Hybrid 43 (C) | VPKAS,Almora | All | DMR413 | 4006 | 4017 |

Pathology and Entomology

Trial No. AVT12-L(75)

Maturity : Late Year (Season): 2013-Kharif
 Replication : 2
 No. of Rows : 2
 Row Length: 4 mts.
 Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi
 Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani
 Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

| E.No. | Name | Origin | Trial no | DMR Code | R1 | R2 |
|---------------|--------------------|-------------------------------|----------|----------|------|------|
| AVT-I | | | | | | |
| 1 | FMH-11195 | Foliage Crop Solution | 75 | PE331 | 5939 | 5972 |
| 2 | JH 31601 | PAU Ludhiana | 75 | PE332 | 5941 | 5982 |
| 3 | JH 31555 | PAU Ludhiana | 75 | PE333 | 5913 | 5956 |
| 4 | LTH-20 | Yaaganti Seeds Pvt Ltd. | 75 | PE334 | 5919 | 5963 |
| 5 | Ryder-M | Prabhat Agri Biotech Ltd. | 75 | PE335 | 5924 | 5977 |
| 6 | CMH 10-477 | AICRP-Maize Coimbatore | 75 | PE336 | 5926 | 5955 |
| 7 | P3491(X35B391) | PHI Seeds Ltd. | 75 | PE337 | 5933 | 5950 |
| 8 | P3596(X35B396) | PHI Seeds Ltd. | 75 | PE338 | 5925 | 5967 |
| 9 | Geo Premium Dimond | GEO Biotechnologies Ltd. | 75 | PE339 | 5921 | 5964 |
| 10 | LTH-22 | Yaaganti Seeds Pvt Ltd. | 75 | PE340 | 5937 | 5959 |
| 11 | CP-802 | CP Seeds Pvt Ltd. | 75 | PE341 | 5947 | 5960 |
| 12 | NMH-1265 | Nuziveedu Seed Ltd. | 75 | PE342 | 5911 | 5970 |
| 13 | A 7503 | Advanta India Ltd. | 75 | PE343 | 5917 | 5983 |
| 14 | CMH 10-540 | AICRP-Maize Coimbatore | 75 | PE344 | 5923 | 5984 |
| 15 | X35B390 | PHI Seeds Ltd. | 75 | PE345 | 5927 | 5979 |
| 16 | P3292(X35B392) | PHI Seeds Ltd. | 75 | PE346 | 5920 | 5980 |
| AVT-II | | | | | | |
| 17 | CMH 08-381 | AICRP-Coimbatore | 75 | PE347 | 5935 | 5975 |
| 18 | CMH 08-381 (G) | AICRP-Coimbatore | 75 | PE348 | 5929 | 5974 |
| 19 | CMH 09-464 | AICRP-Coimbatore | 75 | PE349 | 5912 | 5962 |
| 20 | P3580(X35A180) | PHI Seeds Ltd. | 75 | PE350 | 5936 | 5981 |
| 21 | Orbit | Yaaganti Seeds Pvt. Ltd. | 75 | PE351 | 5942 | 5954 |
| 22 | Laxmi 333 | Yaaganti Seeds Pvt. Ltd. | 75 | PE352 | 5945 | 5973 |
| 23 | P 4546 | PHI Seeds Ltd. | 75 | PE353 | 5940 | 5957 |
| 24 | PRO 385 | Bayer Bioscience Pvt Ltd. | 75 | PE354 | 5922 | 5953 |
| 25 | MCH-46 | Monsanto India | 75 | PE355 | 5938 | 5952 |
| 26 | S 6668 | Syngenta India Ltd. | 75 | PE356 | 5943 | 5971 |
| 27 | HTMH 5106 | Hytech Seed India Pvt.Ltd. | 75 | PE357 | 5934 | 5951 |
| 28 | PFMH-97 I 57(AMAR) | Pro Farm Seed India Pvt. Ltd. | 75 | PE358 | 5931 | 5966 |
| 29 | CP 333 | CP Seeds Pvt. L.td. | 75 | PE359 | 5928 | 5969 |
| 30 | HTMH 5402 | Hytech Seed | 75 | PE360 | 5914 | 5976 |
| 31 | MCH-45 | Monsanto . | 75 | PE361 | 5916 | 5965 |
| 32 | PRO 384 | Bayer Bioscience | 75 | PE362 | 5915 | 5961 |
| 33 | GK 3103 | Ganga Kaveri Seeds | 75 | PE363 | 5946 | 5978 |
| 34 | PMH 1 (C) | PAU Ludhiana | 75 | PE364 | 5944 | 5948 |
| 35 | PMH 3 (C) | PAU Ludhiana | 75 | PE365 | 5930 | 5949 |
| 36 | Seedtech-2324 (C) | Bisco Bioscience Crop | 75 | PE366 | 5918 | 5958 |
| 37 | BIO-9681 (C) | Bio Seeds Pvt.Ltd. | 75 | PE367 | 5932 | 5968 |

Trial No. AVT12-M (76)

Pathology, Entomology Trial -Medium Medium Maturity

Year (Season): 2013-Kharif

Replication : 2

No. of Rows : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi
Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

| E.No. | Name | Origin | Trial no | DMR Code | R1 | R2 |
|---------------|-----------------|---------------------|----------|----------|------|------|
| AVT-I | | | | | | |
| 1 | KMH-25K-45 | Kaveri Seed Compny | 76 | PE371 | 5993 | 6021 |
| 2 | KMH-3110 | Kaveri Seed Compny | 76 | PE372 | 6007 | 6028 |
| 3 | KMH-7148 | Kaveri Seed Compny | 76 | PE373 | 5999 | 6023 |
| 4 | NMH-1276 | Nuziveedu Seed | 76 | PE374 | 6010 | 6016 |
| 5 | IJ8533 | Monsanto | 76 | PE375 | 6000 | 6029 |
| 6 | X35B403 | PHI Seeds Ltd. | 76 | PE376 | 5992 | 6024 |
| 7 | S-6790 | Syngenta India Ltd. | 76 | PE377 | 5994 | 6033 |
| 8 | S-6850 | Syngenta India Ltd. | 76 | PE378 | 6001 | 6034 |
| 9 | Proline -777 | Proline Seeds | 76 | PE379 | 6006 | 6032 |
| 10 | Rasi 3033 | Rasi Seed Pvt Ltd. | 76 | PE380 | 6004 | 6019 |
| 11 | CMH 10-473 | AICRP Coimbatore | 76 | PE381 | 6012 | 6013 |
| 12 | EHL-2211 | AREC ,Bajaura | 76 | PE382 | 5998 | 6026 |
| 13 | Bio 719 | Bioseed Research | 76 | PE383 | 6009 | 6022 |
| AVT-II | | | | | | |
| 14 | EHL-161708 | AREC,Bajaura | 76 | PE384 | 6005 | 6020 |
| 15 | X35A189 | PHI Seeds Ltd. | 76 | PE385 | 6011 | 6025 |
| 16 | P3377 (X35A194) | PHI Seeds Ltd. | 76 | PE386 | 6002 | 6027 |
| 17 | PRO 383 | Bayer Bioscience | 76 | PE387 | 5996 | 6015 |
| 18 | JH 31470 | PAU Ludhiana | 76 | PE388 | 6008 | 6017 |
| 19 | EH-1974 | MPUA&T, Udaipur | 76 | PE389 | 6003 | 6030 |
| 20 | PMH 4(C) | PAU, Ludhiana | 76 | PE390 | 5991 | 6018 |
| 21 | BIO 9637 (C) | Bio seed Research | 76 | PE391 | 5997 | 6014 |
| 22 | HM8 (C) | HAU, Karnal | 76 | PE392 | 5995 | 6031 |

Trial No. AVT12-E(77)

Pathology, Entomology Trial - Early Early Maturity

Year (Season): 2013-Kharif

Replication : 2

No. of Rows : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi
Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

| E.No. | Name | Origin | Trial no | DMR Code | R1 | R2 |
|---------------|--------------|-------------------|----------|----------|------|------|
| AVT-I | | | | | | |
| 1 | FH-3609 | VPKAS, Almora | 77 | PE421 | 6059 | 6071 |
| 2 | FH-3626 | VPKAS, Almora | 77 | PE422 | 6044 | 6083 |
| 3 | EH-2212 | MPUA&T, Udaipur | 77 | PE423 | 6057 | 6081 |
| 4 | EH-2223 | MPUA&T, Udaipur | 77 | PE424 | 6061 | 6078 |
| 5 | Bio 6008 | Bioseed Research | 77 | PE425 | 6049 | 6082 |
| 6 | REH-2011-2 | CSAU& T, Kanpur | 77 | PE426 | 6051 | 6076 |
| 7 | FH-3605 | VPKAS, Almora | 77 | PE427 | 6062 | 6084 |
| 8 | EH-2170 | MPUA&T, Udaipur | 77 | PE428 | 6047 | 6065 |
| 9 | CMH 10-484 | AICRP Coimbatore | 77 | PE429 | 6053 | 6073 |
| 10 | JH 31602 | Ludhiana | 77 | PE430 | 6052 | 6064 |
| 11 | AH-1206 | IARI | 77 | PE431 | 6056 | 6063 |
| 12 | KMH-7021 | Kaveri Seed | 77 | PE432 | 6046 | 6070 |
| 13 | CMH 10-531 | AICRP Coimbatore | 77 | PE433 | 6058 | 6067 |
| AVT-II | | | | | | |
| 14 | K-21 | Kanchan Ganga | 77 | PE434 | 6045 | 6072 |
| 15 | DAS-MH-501 | Dow AgroSciences | 77 | PE435 | 6055 | 6074 |
| 16 | Bisco 2238 | Bisco Biosciences | 77 | PE436 | 6042 | 6075 |
| 17 | EHL 162508 | AREC,Bajaura | 77 | PE437 | 6043 | 6066 |
| 18 | KNMH-4010141 | ARS,Karimnagar | 77 | PE438 | 6060 | 6079 |
| 19 | FH-3548 | Almora | 77 | PE439 | 6054 | 6077 |
| 20 | JH 31485 | Ludhiana | 77 | PE440 | 6048 | 6068 |
| 21 | Prakash (C) | PAU Ludhiana | 77 | PE441 | 6050 | 6069 |
| 22 | PMH 5 (C) | PAU Ludhiana | 77 | PE442 | 6041 | 6080 |

Trial No. AVT12-EX(78)

Pathology, Entomology Trial - Extra Early

Extra Early Maturity

Year (Season): 2013-Kharif

Replication : 2

No. of Rows : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi

Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

| E.No. | Name | Origin | Trial no | DMR Code | R1 | R2 |
|---------------|--------------------|--------------------|----------|----------|------|------|
| AVT-I | | | | | | |
| 1 | FH-3594 | VPKAS,Almora | 78 | PE451 | 6097 | 6103 |
| 2 | AH-1202 | IARI Pusa Delhi. | 78 | PE452 | 6095 | 6107 |
| 3 | DH-238 | GBPUA&T,Pantnagar | 78 | PE453 | 6092 | 6102 |
| 4 | DH-262 | GBPUA&T,Pantnagar | 78 | PE454 | 6100 | 6106 |
| AVT-II | | | | | | |
| 5 | K-75 | Kanchan Ganga Seed | 78 | PE455 | 6093 | 6110 |
| 6 | FH-3554 | VPKAS,Almora | 78 | PE456 | 6099 | 6108 |
| 7 | FH-3556 | VPKAS,Almora | 78 | PE457 | 6096 | 6104 |
| 8 | FH-3558 | VPKAS,Almora | 78 | PE458 | 6098 | 6109 |
| 9 | FH-3555 | VPKAS,Almora | 78 | PE459 | 6091 | 6112 |
| 10 | Vivek QPM 9 (C) | VPKAS,Almora | 78 | PE460 | 6101 | 6111 |
| 11 | Vivek Hybrid 9 (C) | VPKAS,Almora | 78 | PE461 | 6094 | 6105 |

Pathology Trial: Specialty Corn

Pathology Trial No. : Specialty Corn

Pathology, Nematology and Soil Science

Year (Season):

2013-Kharif

Replication :

2

Row No. :

2

Row Length:

4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad
Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

| E.No. | Name | Origin | Trial no. | Zone | DMR CODE | R1 | R2 |
|-------------------|--------------------|--------------------------------|-----------|------|----------|------|------|
| QPM | | | | | | | |
| 1 | EHQ-63 | MPUA&T Udaipur | QPMI-I | All | PSC781 | 6147 | 6179 |
| 2 | EHQ-64 | MPUA&T Udaipur | QPMI-I | All | PSC782 | 6139 | 6180 |
| 3 | VEHQ 11-1 | varanasi. | QPMI-I | All | PSC783 | 6151 | 6160 |
| 4 | JH (QPM)3 | PAU Ludhiana | QPMI-I | All | PSC784 | 6133 | 6181 |
| 5 | MMH QPM-6-12-13 | TCA,Dholi | QPMI-I | All | PSC785 | 6142 | 6178 |
| 6 | VEHQ -3020 | varanasi. | QPMI-II | All | PSC786 | 6149 | 6162 |
| 7 | HQPM 1 (C) | HAU,Karnal | C | All | PSC787 | 6138 | 6176 |
| 8 | HQPM 5 (C) | HAU,Karnal | C | All | PSC788 | 6129 | 6154 |
| 9 | HQPM 7 (C) | HAU,Karnal | C | All | PSC789 | 6145 | 6170 |
| 10 | Vivek QPM 9 (C) | VPKAS,Almora | C | All | PSC790 | 6130 | 6173 |
| Popcorn | | | | | | | |
| 11 | KDPC-2 | K.D.Farm Srinagar | PC-1 | All | PSC791 | 6140 | 6165 |
| 12 | BPC 3 | Hyderabad | PC-1 | All | PSC792 | 6143 | 6156 |
| 13 | BPCH 27 | Hyderabad | PC-1 | All | PSC793 | 6125 | 6164 |
| 14 | Bajaura Popcorn | AREC,Bajaura | PC-2 | All | PSC794 | 6150 | 6172 |
| 15 | VL Popcorn-2 | VPKAS,Almora | PC-2 | All | PSC795 | 6144 | 6182 |
| 16 | VL POPCORN(C) | VPKAS,Almora | C | All | PSC796 | 6136 | 6155 |
| Sweet corn | | | | | | | |
| 17 | ADVSW-1 | Advanta Seeds India Ltd. | SC-1 | All | PSC797 | 6123 | 6152 |
| 18 | ADVSW-2 | Advanta Seeds India Ltd. | SC-1 | All | PSC798 | 6137 | 6168 |
| 19 | FSCH-41 | VPKAS,Almora | SC-1 | All | PSC799 | 6124 | 6153 |
| 20 | KSCH-222 | Kaveri Seeds Company Ltd. | SC-2 | All | PSC800 | 6132 | 6175 |
| 21 | KSCH-333 | Kaveri Seeds Company Ltd. | SC-2 | All | PSC801 | 6148 | 6158 |
| 22 | FSCH-18 | VPKAS,Almora | SC-2 | All | PSC802 | 6127 | 6157 |
| 23 | Bajaura Sweet Corn | AREC,Bajaura | SC-2 | All | PSC803 | 6141 | 6161 |
| 24 | Bisco Madhu | Bisco Bioscience Crop Pvt Ltd. | SC-2 | All | PSC804 | 6122 | 6167 |
| 25 | Madhuri (C) | ARU Hyderabad | C | All | PSC805 | 6128 | 6159 |
| 26 | PRIYA (C) | ARU Hyderabad | C | All | PSC806 | 6131 | 6169 |
| 27 | WOSC(C) | WNC,Hyderabad | C | All | PSC807 | 6146 | 6171 |
| Babycorn | | | | | | | |
| 28 | CMH 11-658 | AICRP-Maize Coimbatore | BCI-I | All | PSC808 | 6135 | 6177 |
| 29 | CMH 11-659 | AICRP-Maize Coimbatore | BCI-I | All | PSC809 | 6134 | 6163 |
| 30 | Vivek Hybrid-27 | VPKAS,Almora | BCI-II | All | PSC810 | 6126 | 6174 |
| 31 | HM 4(C) | HAU,Karnal | C | All | PSC811 | 6121 | 6166 |

ZONAL Trials

ZONAL TRIAL No. 102 MEDIUM MATURITY

| Year | 2013 (Kharif) | | |
|----------|---------------|-------------|--------|
| Location | Zone 1 | | |
| Ent. No. | Origin | Pedigree | Code |
| 1 | Bajaura | EHL 2912 | ZR-201 |
| 2 | Bajaura | EHL 5113 | ZR-202 |
| 3 | Check | Bio 9637 | ZR-203 |
| 4 | Bajaura | EHL 5213 | ZR-204 |
| 5 | Udhampur | UDMH 115 | ZR-205 |
| 6 | Bajaura | EHL5313 | ZR-206 |
| 7 | Kangra | KMH-8 | ZR-207 |
| 8 | Bajaura | EHL 5413 | ZR-208 |
| 9 | Bajaura | EHL 5513 | ZR-209 |
| 10 | Udhampur | UDMH-114 | ZR-210 |
| 11 | Bajaura | EHL 5613 | ZR-211 |
| 12 | Check | Navjot | ZR-212 |
| 13 | Kangra | KMH-10 | ZR-213 |
| 14 | Bajaura | EHL 5713 | ZR-214 |
| 15 | Bajaura | EHL 5813 | ZR-215 |
| 16 | Bajaura | EHL 5913 | ZR-216 |
| 17 | Check | Local check | ZR-217 |

ZONAL TRIAL No. 103 EARLY MATURITY

| Year | 2013 (Kharif) | | |
|----------|---------------|-----------------|--------|
| Location | Zone 1 | | |
| Ent. No. | Origin | Pedigree | Code |
| 1 | SRI, 12K | H 46 | ZR 101 |
| 2 | SRI, 12K | H 47 | ZR 102 |
| 3 | UDM, 12K | UDMH 112 | ZR 103 |
| 4 | UDM, 12K | UDMH 113 | ZR 104 |
| 5 | ALM, 12K | VIVEK HYBRID 9 | ZR 105 |
| 6 | ALM, 12K | VIVEK HYBRID 39 | ZR 106 |
| 7 | ALM, 12K | FH 3677 | ZR 107 |
| 8 | ALM, 12K | FH 3681 | ZR 108 |
| 9 | ALM, 12K | FH 3682 | ZR 109 |
| 10 | ALM, 12K | FH 3684 | ZR 110 |
| 11 | ALM, 12K | FH 3685 | ZR 111 |
| 12 | BAJ, 12K | EHL 3813 | ZR 112 |
| 13 | SRI, 12K | HD 48 | ZR 113 |
| 14 | SRI, 12K | KDM 111 | ZR 114 |
| 15 | ALM, 12K | FH 3691 | ZR 115 |
| 16 | ALM, 12K | FH 3692 | ZR 116 |
| 17 | ALM, 12K | FH 3693 | ZR 117 |
| 18 | ALM, 12K | FH 3700 | ZR 118 |
| 19 | ALM, 12K | FH 3706 | ZR 119 |
| 20 | ALM, 12K | FH 3708 | ZR 120 |
| 21 | ALM, 12K | FH 3710 | ZR 121 |
| 22 | BAJ, 12K | EHL 3913 | ZR 122 |
| 23 | BAJ, 12K | EHL 4013 | ZR 123 |
| 24 | BAJ, 12K | EHL 4113 | ZR 124 |
| 25 | ALM, 12K | FH 3711 | ZR 125 |
| 26 | ALM, 12K | FH 3713 | ZR 126 |
| 27 | BAJ, 12K | EHL 4213 | ZR 127 |
| 28 | BAJ, 12K | EHL 4313 | ZR 128 |

ZONAL TRIAL No. 201 LATE MATURITY

| Year | 2013 (Kharif) | |
|----------|---------------|-------------|
| Location | Zone 2 | |
| Ent. No. | Pedigree | Code |
| 1 | AH-1263 | DMR-2013101 |
| 2 | AH-1264 | DMR-2013102 |
| 3 | AH-1265 | DMR-2013103 |
| 4 | AH-1266 | DMR-2013104 |
| 5 | AH-1267 | DMR-2013105 |
| 6 | AH-1268 | DMR-2013106 |
| 7 | AH-1269 | DMR-2013107 |
| 8 | JH-12082 | DMR-2013108 |
| 9 | JH-12165 | DMR-2013109 |
| 10 | JH12059 | DMR-2013110 |
| 11 | JH-12196 | DMR-2013111 |
| 12 | JH-12035 | DMR-2013112 |
| 13 | JH-12077 | DMR-2013113 |
| 14 | JH-13001 | DMR-2013114 |
| 15 | JH-31607 | DMR-2013115 |
| 16 | JH-31634 | DMR-2013116 |
| 17 | PMH-3 | DMR-2013117 |
| 18 | DHM11 | DMR-2013118 |

ZONAL TRIAL No. 203 EARLY MATURITY

| Year | 2013 (Kharif) | |
|----------|---------------|-------------|
| Location | Zone 2 | |
| Ent. No. | Pedigree | Code |
| 1 | AH-1284 | DMR-2013301 |
| 2 | AH-1285 | DMR-2013302 |
| 3 | AH-1286 | DMR-2013303 |
| 4 | AH-1287 | DMR-2013304 |
| 5 | AH-1288 | DMR-2013305 |
| 6 | AH-1289 | DMR-2013306 |
| 7 | AH-1290 | DMR-2013307 |
| 8 | AH-1291 | DMR-2013308 |
| 9 | AH-1292 | DMR-2013309 |
| 10 | AH-1293 | DMR-2013310 |
| 11 | AH-1294 | DMR-2013311 |
| 12 | AH-1295 | DMR-2013312 |
| 13 | AH-1296 | DMR-2013313 |
| 14 | AH-1297 | DMR-2013314 |
| 15 | REH212-11 | DMR-2013315 |
| 16 | REH2012-12 | DMR-2013316 |
| 17 | DH-272 | DMR-2013317 |
| 18 | DH-273 | DMR-2013318 |
| 19 | PMH-5 | DMR-2013319 |
| 20 | PRAKASH | DMR-2013320 |

| ZONAL TRIAL No. 202 MEDIUM MATURITY | | |
|--|---------------|-------------|
| Year | 2013 (Kharif) | |
| Location | Zone 2 | |
| Ent. No. | Pedigree | Code |
| 1 | AH-1270 | DMR-2013201 |
| 2 | AH-1271 | DMR-2013202 |
| 3 | AH-1272 | DMR-2013203 |
| 4 | AH-1273 | DMR-2013204 |
| 5 | AH-1274 | DMR-2013205 |
| 6 | AH-1275 | DMR-2013206 |
| 7 | AH-1276 | DMR-2013207 |
| 8 | AH-1277 | DMR-2013208 |
| 9 | AH-1278 | DMR-2013209 |
| 10 | AH-1279 | DMR-2013210 |
| 11 | AH-1280 | DMR-2013211 |
| 12 | AH-1281 | DMR-2013212 |
| 13 | AH-1282 | DMR-2013213 |
| 14 | AH-1283 | DMR-2013214 |
| 15 | JH-31605 | DMR-2013215 |
| 16 | JH-31627 | DMR-2013216 |
| 17 | REH2012-8 | DMR-2013217 |
| 18 | REH2012-9 | DMR-2013218 |
| 19 | BIO-9637 | DMR-2013219 |
| 20 | PMH-4 | DMR-2013220 |

| ZONAL TRIAL No. 204 EXTRA EARLY MATURITY | | |
|---|---------------|-------------|
| Year | 2013 (Kharif) | |
| Location | Zone 2 | |
| Ent. No. | Pedigree | Code |
| 1 | AH-1298 | DMR-2013401 |
| 2 | AH-1299 | DMR-2013402 |
| 3 | AH-1300 | DMR-2013403 |
| 4 | AH-1301 | DMR-2013404 |
| 5 | AH-1302 | DMR-2013405 |
| 6 | AH-1303 | DMR-2013406 |
| 7 | AH-1304 | DMR-2013407 |
| 8 | AH-1305 | DMR-2013408 |
| 9 | AH-1306 | DMR-2013409 |
| 10 | AH-1307 | DMR-2013410 |
| 11 | AH-1308 | DMR-2013411 |
| 12 | AH-1309 | DMR-2013412 |
| 13 | AH-1310 | DMR-2013413 |
| 14 | AH-1311 | DMR-2013414 |
| 15 | REH2012-14 | DMR-2013415 |
| 16 | DH-274 | DMR-2013416 |
| 17 | DH-275 | DMR-2013417 |
| 18 | DH-276 | DMR-2013418 |
| 19 | /IVEK HYBRID- | DMR-2013419 |
| 20 | VIVEK QPM-9 | DMR-2013420 |

| ZONAL TRIAL No. 502 MEDIUM MATURITY | | | |
|--|---------------|----------|-----------|
| Year | 2013 (Kharif) | | |
| Location | Zone 5 | | |
| Ent. No. | Origin | Pedigree | Code |
| 1 | Udaipur | EH-2370 | ZT-502-1 |
| 2 | Udaipur | EH-2371 | ZT-502-2 |
| 3 | Udaipur | EH-2372 | ZT-502-3 |
| 4 | Udaipur | EH-2373 | ZT-502-4 |
| 5 | Udaipur | EH-2374 | ZT-502-5 |
| 6 | Udaipur | EH-2375 | ZT-502-6 |
| 7 | Banswara | WH-2001 | ZT-502-7 |
| 8 | Banswara | WH-2002 | ZT-502-8 |
| 9 | Banswara | WH-2003 | ZT-502-9 |
| 10 | Banswara | WH-2004 | ZT-502-10 |
| 11 | Banswara | WH-2005 | ZT-502-11 |
| 12 | Banswara | WH-2006 | ZT-502-12 |
| 13 | Banswara | WH-2007 | ZT-502-13 |
| 14 | Banswara | WH-2008 | ZT-502-14 |
| 15 | Banswara | WH-2009 | ZT-502-15 |
| 16 | Check | HM-8 | ZT-502-16 |
| 17 | Check | Bio-9637 | ZT-502-17 |
| 18 | Check | PEHM-2 | ZT-502-18 |
| 19 | Check | PMH-1 | ZT-502-19 |
| 20 | Check | Navjot | ZT-502-20 |

| ZONAL TRIAL No. 503 EARLY MATURITY | | | |
|---|---------------|---------------|-----------|
| Year | 2013 (Kharif) | | |
| Location | Zone 5 | | |
| Ent. No. | Origin | Pedigree | Code |
| 1 | Udaipur | EH-2376 | ZT-503-1 |
| 2 | Udaipur | EH-2377 | ZT-503-2 |
| 3 | Udaipur | EH-2378 | ZT-503-3 |
| 4 | Udaipur | EH-2379 | ZT-503-4 |
| 5 | Udaipur | EH-2380 | ZT-503-5 |
| 6 | Udaipur | EH-2381 | ZT-503-6 |
| 7 | Udaipur | EH-2382 | ZT-503-7 |
| 8 | Udaipur | EH-2383 | ZT-503-8 |
| 9 | Godhara | GWH-0702 | ZT-503-9 |
| 10 | Godhara | GWH-0906 | ZT-503-10 |
| 11 | Godhara | GYH-0652 | ZT-503-11 |
| 12 | Godhara | GYH-0659 | ZT-503-12 |
| 13 | Godhara | GYH-0942 | ZT-503-13 |
| 14 | Banswara | W-3001 | ZT-503-14 |
| 15 | Banswara | W-3001 | ZT-503-15 |
| 16 | Banswara | W-3001 | ZT-503-16 |
| 17 | Banswara | W-3001 | ZT-503-17 |
| 18 | Banswara | W-3001 | ZT-503-18 |
| 19 | Banswara | W-3001 | ZT-503-19 |
| 20 | Banswara | W-3001 | ZT-503-20 |
| 21 | Banswara | W-3001 | ZT-503-21 |
| 22 | Check | Prakash | ZT-503-22 |
| 23 | Check | PEHM-2 | ZT-503-23 |
| 24 | Check | HM-9 | ZT-503-24 |
| 25 | Check | Vivek Hybrid- | ZT-503-25 |

ZONAL TRIAL No. 511

Year 2013 (Kharif)

No. of rows 2

No. of replications 3

Row length 4 m

Locations: Udaipur, Banswara

| Ent. No. | Origin | Pedigree |
|----------|----------|----------|
| 1 | Banswara | WH-1001 |
| 2 | Banswara | WH-1002 |
| 3 | Banswara | WH-1003 |
| 4 | Banswara | WH-1004 |
| 5 | Banswara | WH-1005 |
| 6 | Udaipur | EH-2384 |
| 7 | Udaipur | EH-2385 |
| 8 | Udaipur | EH-2386 |
| 9 | Udaipur | EH-2387 |
| 10 | Udaipur | EH-2388 |
| 11 | Udaipur | EH-2389 |
| 12 | Udaipur | EH-2390 |
| 13 | Udaipur | EH-2391 |
| 14 | Udaipur | EH-2392 |
| 15 | Udaipur | EH-2393 |
| 16 | Udaipur | EH-2394 |
| 17 | Udaipur | EH-2395 |
| 18 | Udaipur | EH-2396 |
| 19 | Udaipur | EH-2397 |
| 20 | Udaipur | EH-2398 |
| 21 | Udaipur | EH-2399 |
| 22 | Udaipur | EH-2400 |
| 23 | Udaipur | EH-2401 |
| 24 | Check | Bio-9681 |
| 25 | Check | PEHM-2 |
| 26 | Check | Navjot |

ZONAL TRIAL No. 512

| Ent. No. | Origin | Pedigree |
|----------|---------|-----------------|
| 1 | Udaipur | EH-2402 |
| 2 | Udaipur | EH-2403 |
| 3 | Udaipur | EH-2404 |
| 4 | Udaipur | EH-2405 |
| 5 | Udaipur | EH-2406 |
| 6 | Udaipur | EH-2407 |
| 7 | Udaipur | EH-2408 |
| 8 | Udaipur | EH-2409 |
| 9 | Udaipur | EH-2410 |
| 10 | Check | Bio-9681 |
| 11 | Check | PEHM-2 |
| 12 | Check | Navjot |
| 13 | Check | Vivek hybrid-21 |

ZONAL TRIAL No. ZTQ-01

Year 2013 (Kharif)

No. of rows 2

No. of replications 3

Row length 4 m

Locations: Udaipur, Banswara

| Ent. No. | Origin | Pedigree | Code |
|----------|---------|--------------------|--------|
| 1 | Udaipur | EHQ-103 | ZTQ-01 |
| 2 | Udaipur | EHQ-104 | ZTQ-02 |
| 3 | Udaipur | EHQ-105 | ZTQ-03 |
| 4 | Udaipur | EHQ-106 | ZTQ-04 |
| 5 | Udaipur | EHQ-107 | ZTQ-05 |
| 6 | Udaipur | EHQ-108 | ZTQ-06 |
| 7 | Udaipur | EHQ-109 | ZTQ-07 |
| 8 | Udaipur | EHQ-110 | ZTQ-08 |
| 9 | Udaipur | EHQ-111 | ZTQ-09 |
| 10 | Udaipur | EHQ-112 | ZTQ-10 |
| 11 | Udaipur | EHQ-112 | ZTQ-11 |
| 12 | Udaipur | EHQ-113 | ZTQ-12 |
| 13 | Udaipur | EHQ-114 | ZTQ-13 |
| 14 | Udaipur | EHQ-115 | ZTQ-14 |
| 15 | Udaipur | EHQ-116 | ZTQ-15 |
| 16 | Udaipur | EHQ-117 | ZTQ-16 |
| 17 | Check | Pratap QPM Hybrid- | ZTQ-17 |
| 18 | Check | HQPM-1 | ZTQ-18 |
| 19 | Check | HQPM-5 | ZTQ-19 |
| 20 | Check | HQPM-7 | ZTQ-20 |
| 21 | Check | Vivek QPM-9 | ZTQ-21 |

Locations of AICRP Trials during Kharif 2013

| Abbreviation | Locations | Abbreviation | Locations |
|---------------------|------------------|---------------------|------------------|
| Zone1 | | Zone4 | |
| SRIN | Srinagar | ARBH | Arbhavi |
| ALMO | Almora | COIM | Coimbatore |
| BAJA | Bajaura | DHAR | Dharwad-UAS |
| BARA | Barapani | HYDE | Hyderabad |
| BERT | Bertin | KARI | Karimnagar |
| DHAU | Dhaulakuan | KOLH | Kohlapur |
| GOSS | Gossaigaon | MAND | Mandya |
| KANG | Kangra | SMFP | SMF Patencheru |
| POON | Poonch | VAGA | Vagarai |
| UDHA | Udhampur | VRDC | VRDCD Dharwad |
| Zone 2 | | Zone 5 | |
| DELH | Delhi | AMBI | Ambikapur |
| KANP | Kanpur | BANS | Banswara |
| KARN | Karnal | BHIL | Bhiloda |
| LUDH | Ludhiana | CHHI | Chhindwara |
| PANT | Pantnagar | GODH | Godhara |
| Zone 3 | | JHAB | Jhabua |
| BAHR | Bahraich | UDAI | Udaipur |
| BHUB | Bhubneshwar | | |
| DHOL | Dholi | | |
| RANC | Ranchi | | |
| VARA | Varanasi | | |

BREEDING

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| | Breeding - Results Summary | BR1 |
| 1 | Performance of late maturing experimental hybrids at Karnal, Ludhiana, Pantnagar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Dharwad, Hyderabad, Karimnagar, Kolhapur, Mandya, SMF Patencheru, Vagarai, VRDC Dharwad, Ambikapur, Banswara, Bhiloda, Chhindwara, Udaipur in IVT trial no. TR61 (IVT-L) during Kharif (2013). | BR12 |
| 2 | Performance of medium maturing experimental hybrids at Bajaura, Bertin, Dhaulakuan, Kangra, Poonch, Udhampur, Karnal, Ludhiana, Pantnagar, Bahraich, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, SMF Patencheru, Vagarai, VRDC Dharwad, Ambikapur, Chhindwara, Udaipur in IVT trial no. TR62 (IVT-M) during Kharif (2013) | BR42 |
| 3 | Performance of early maturing experimental hybrids at Almora, Bajaura, Barapani, Bertin, Dhaulakuan, Kangra, Poonch, Udhampur, Karnal, Ludhiana, Pantnagar, Bahraich, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Dharwad Uas, Hyderabad, Karimnagar, Kolhapur, Mandya, Smf Patencheru, Vagarai, VRDCD, Ambikapur, Bansawara, Chhindwara, Udaipur in IVT trial no. TR63 (IVT-E) during Kharif (2013) | BR117 |
| 4 | Performance of extra early experimental hybrids at Almora, Bajaura, Barapani, Bertin, Kangra, Poonch, Udhampur, Karnal, Ludhiana, Pantnagar, Bahraich, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Dharwad UAS, Hyderabad, Karimnagar, Kolhapur, Mandya, SMF Patencheru, VRDCD Dharwad, Vagarai, Ambikapur, Bansawara, Chhindwara, Jhabua, Udaipur in IVT trial no. TR64(IVT-EX) during kharif (2013) | BR141 |
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| 10 | Performance of medium maturing experimental hybrids at Bajaura, Kangra, Udhampur in AVT1 trial no. TR66Z1 (AVT1-M-Z1) & AVT2 trial no. TR70Z1 (AVT2-M-Z1) during Kharif (2013) | BR184 |
| 11 | Performance of medium maturing experimental hybrids at Karnal, Ludhiana, Pantnagar in AVT1 trial no. TR66Z2 (AVT1-M-Z2) during Kharif (2013) | BR187 |
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BREEDING

The entire India is divided in five major zones – Zone I, Zone II, Zone III, Zone IV and Zone V, for effective evaluation of the maize breeding materials. The details of maize growing states included in these zones are given below:

| Zone(s) | State(s) |
|----------|--|
| Zone I | Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh) |
| Zone II | Punjab, Haryana, Delhi, Uttarakhand (Plain), Uttar Pradesh (Western UP) |
| Zone III | Bihar, Jharkhand, Odisha, Uttar Pradesh (Eastern UP) |
| Zone IV | Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu |
| Zone V | Rajasthan, Madhya Pradesh, Chattisgarh, Gujarat |

During *Kharif* 2013, in total 288 maize entries were received for testing in different all India coordinated trials. All the entries were evaluated in sixteen breeding trials (four each of IVT, AVT-I, AVT-II and specialty corns) at 36 locations (29 regulars and 7 volunteer) across country. Out of total 288 genotypes, 185 entries were evaluated under initial varietal trial (IVT), 46 were under advance varietal trial-I (AVT-I), 35 under advance varietal trial-II (AVT-II), 6 entries under quality protein maize (QPM), 8 under sweet corn, 5 under popcorn and 3 under baby corn trials. Total of 22 checks belonging to different maturity groups were used in 16 different breeding trials constituted for various maturity groups and types of corns. The test entries were promoted from IVT to AVT-I and AVT-I to AVT-II, based on the 5% (in late maturity, QPM, sweet corn, popcorn and baby corn trials) and 10% (in medium, early and extra early trials) superiority over the best check in respective zones. In case of late, medium, early and extra early maturity, beside yield superiority, days to 75% yellow husk and 50% silking and anthesis, are also considered as another important criteria. If C.V. value found more than 20% for a trial in any of location, then the data of those trials are rejected from the final analysis. The details of number of coordinated hybrid and varietal trials conducted under All India Coordinated Maize Improvement Project (AICMIP) during *Kharif* 2013 are given below:

Details of trials allotted to/reported from various test centers

Total of 36 locations (29 regulars and 7 volunteer) were identified for evaluation of sixteen different breeding trials. The trial of IVT and AVT-I- late maturity were not allotted in zone-I, this is because of no requirement of late maturity genotypes in this zone. The initial varietal trials of various maturities were allotted to the seven volunteer centers. The detail of trials allotted to/reported from various test centers during *Kharif* 2013 is given below:

BR2

| S.N | Centre | IVT | AVT-I | AVT-II | Specialty corn trial | A* | R* | % S* |
|---------------|-------------------------|----------------|--------------|--------------|-----------------------|----|----|-------|
| Zone-1 | | | | | | | | |
| 1 | Almora | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 14 | 10 | 71.4 |
| 2 | Bajaura | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 14 | 14 | 100.0 |
| 3 | Srinagar | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | - | 10 | 9 | 90.0 |
| 4 | Udhampur | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | - | 10 | 9 | 90.0 |
| 5 | Kangra | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 14 | 14 | 100.0 |
| 6 | Bertin (H.P) | 62, 63, 64 | - | - | - | 3 | 3 | 100.0 |
| 7 | Dhaulakuan | 62, 63, 64 | - | - | - | 3 | 2 | 66.7 |
| 8 | Barapani | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | QPM-1&-2, | 11 | 7 | 63.6 |
| 9 | Gossaigaon | 62, 63, 64 | 66 ,67, 68 | 69,70,71,72 | - | 10 | 0 | 0.0 |
| 10 | Poonch | 62, 63, 64 | - | - | - | 3 | 3 | 100.0 |
| Zone-2 | | | | | | | | |
| 11 | Ludhiana | 61, 62, 63, 64 | 65, 66, 67 | - | QPM-1&-2, PC, SC, BC. | 11 | 10 | 90.9 |
| 12 | Karnal | 61, 62, 63, 64 | 65, 66, 67 | - | QPM-1&-2, PC, SC, BC. | 11 | 10 | 90.9 |
| 13 | Kanpur | 61, 62, 63, 64 | 65, 66, 67 | - | QPM-1&-2, PC, SC, BC. | 11 | 0 | 0.0 |
| 14 | Pantnagar | 61, 62, 63, 64 | 65, 66, 67 | - | QPM-1&-2, PC, SC, BC. | 11 | 9 | 81.8 |
| Zone-3 | | | | | | | | |
| 15 | Dholi | 61, 62, 63, 64 | 65,66, 67,69 | 70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 13 | 86.7 |
| 16 | Ranchi | 61, 62, 63, 64 | 65,66, 67,69 | 70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 13 | 86.7 |
| 17 | Bhubaneswar | 61, 62, 63, 64 | 65,66, 67,69 | 70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 8 | 53.3 |
| 18 | Varanasi | 61, 62, 63, 64 | 65,66, 67,69 | 70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 13 | 86.7 |
| 19 | Bahraich | 61, 62, 63, 64 | 65,66, 67,69 | 70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 10 | 66.7 |
| Zone-4 | | | | | | | | |
| 20 | Hyderabad | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 21 | Shegal Foud. ICRISAT | 61,62,63,64 | - | - | - | 4 | 4 | 100.0 |
| 22 | Karimnagar | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 23 | VRDC KSSC- Dharwad | 61,62,63,64 | - | - | - | 4 | 3 | 75.0 |
| 24 | Dharwad | 61,62,63,64 | - | - | - | 4 | 2 | 50.0 |
| 25 | Kolhapur | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 26 | Arbhavi | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 27 | Mandya, | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 28 | Vagarai | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | | 11 | 10 | 90.9 |
| 29 | Coimbatore | 61,62,63,64 | 65 ,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| Zone-5 | | | | | | | | |
| 30 | Udaipur | 61,62,63,64 | 65,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 31 | Banswara | 61,62,63,64 | 65,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 10 | 66.7 |
| 32 | Chindwara | 61,62,63,64 | 65,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 33 | Ambikapur | 61,62,63,64 | 65,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 14 | 93.3 |
| 34 | Godhara | 61,62,63,64 | 65,66,67 | 69,70,71,72 | QPM-1&-2, PC, SC, BC. | 15 | 2 | 13.3 |
| 35 | Jabhua | 61,62,63,64 | 65,66,67 | 69,70,71,72 | - | 11 | 6 | 54.5 |
| 36 | Bhiloda | 61 | 65, 66, 67 | 69,70, 71,72 | - | 8 | 7 | 87.5 |

*A = Allotted, R = Reported, S = Success

Different breeding trials were organized at 10 test locations in Zone-I, 4 in Zone-II, 5 in Zone III 10 in Zone IV and 7 test locations in Zone-V. All the normal maize entries were tested under four maturity group viz., late, medium, early and extra early. State-wise/zone wise positions for successful conduct of trials are given below:

| Zone(s) | State(s) | No. of trials allotted | No. of trials reported | Percent success |
|----------------|--|-------------------------------|-------------------------------|------------------------|
| Zone I | Jammu and Kashmir, Himachal Pradesh, Uttarakhand, North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh) | 92 | 73 | 79.3 |
| Zone II | Uttarakhand, Punjab, Haryana, Delhi, Uttar Pradesh | 44 | 29 | 65.9 |
| Zone III | Bihar, Jharkhand, Odisha, Uttar Pradesh | 75 | 57 | 76.0 |
| Zone IV | Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu | 113 | 103 | 91.2 |
| Zone V | Rajasthan, Madhya Pradesh, Chattisgarh, Gujarat | 94 | 67 | 71.3 |

List of entries completed various years of their testing with key to maize hybrids (*Kharif 2013*)

Entries completed three years of their testing during *Kharif 2013*

| E. No. | Hybrid Name | DMR Code | Institute/organization. |
|--|--------------------|-----------------|--------------------------------|
| Entries completed three year of testing in Late Maturity | | | |
| Zone I | | | |
| 1 | HTMH 5106 | DMR571 | Hytech Seed |
| 2 | HTMH 5402 | DMR572 | Hytech Seed |
| 3 | PFMH-97 I 57(AMAR) | DMR573 | Pro Farm Seed |
| 4 | MCH-45 | DMR574 | Monsanto |
| 5 | P3580(X35A180) | DMR575 | PHI Seeds Ltd. |
| 6 | PRO 385 | DMR576 | Bayer Bioscience |
| 7 | PRO 384 | DMR577 | Bayer Bioscience |
| 8 | MCH-46 | DMR578 | Monsanto |
| 9 | GK 3103 | DMR579 | Ganga Kaveri Seeds |
| Zone III | | | |
| 1 | CMH 08-381 | DMR516 | AICRP-Coimbatore |
| 2 | CMH 08-381 (G) | DMR517 | AICRP-Coimbatore |
| 3 | CMH 09-464 | DMR518 | AICRP-Coimbatore |
| 4 | P3580(X35A180) | DMR519 | PHI Seeds Ltd. |
| 5 | Orbit | DMR520 | Yaaganti Seeds Pvt. Ltd. |
| Zone IV | | | |
| 1 | Laxmi 333 | DMR537 | Yaaganti Seeds Pvt. Ltd. |
| 2 | CMH 08-381 | DMR538 | AICRP-Coimbatore |

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| E. No. | Hybrid Name | DMR Code | Institute/organization. |
|---|--------------------|-----------------|--------------------------------|
| 3 | P 4546 | DMR539 | PHI Seeds Ltd. |
| 4 | P3580(X35A180) | DMR540 | PHI Seeds Ltd. |
| 5 | PRO 385 | DMR541 | Bayer Bioscience Pvt Ltd. |
| 6 | MCH-46 | DMR542 | Monsanto India |
| 7 | S 6668 | DMR543 | Syngenta India Ltd. |
| 8 | HTMH 5106 | DMR544 | Hytech Seed India Pvt. Ltd. |
| Zone V | | | |
| 1 | PFMH-97 I 57(AMAR) | DMR556 | Pro Farm Seed India Pvt. Ltd. |
| 2 | CP 333 | DMR557 | CP Seeds Pvt. L.td. |
| 3 | P4546 | DMR558 | PHI Seeds Ltd. |
| 4 | P3580(X35A180) | DMR559 | PHI Seeds Ltd. |
| 5 | MCH-46 | DMR560 | Monsanto India Ltd. Bangalore. |
| Entries completed three year of testing in medium maturity | | | |
| Zone I | | | |
| 1 | EHL-161708 | DMR610 | AREC, Bajaura |
| Zone III | | | |
| 1 | X35A189 | DMR661 | PHI Seeds Ltd. |
| Zone IV | | | |
| 1 | P3377(X35A194) | DMR643 | PHI Seeds Ltd. |
| 2 | PRO 383 | DMR644 | Bayer Science |
| 3 | JH31470 | DMR645 | PAU Ludhiana |
| Zone V | | | |
| 1 | EH 1974 | DMR652 | MPUA & T Udaipur |
| Entries completed three year of testing in early maturity | | | |
| Zone I | | | |
| 1 | K-21 | DMR679 | Kanchan Ganga |
| 2 | DAS-MH-501 | DMR680 | Dow AgroSciences |
| 3 | Bisco 2238 | DMR681 | Bisco Biosciences |
| 4 | EHL 162508 | DMR682 | AREC, Bajaura |
| 5 | KNMH-4010141 | DMR683 | ARS, Karimnagar |
| Zone III | | | |
| 1 | DAS-MH-501 | DMR703 | Dow AgroSciences |
| 2 | EHL 162508 | DMR704 | AREC, Bajaura |
| Zone IV | | | |
| 1 | K-21 | DMR715 | Kanchan Ganga |
| 2 | DAS-MH-501 | DMR716 | Dow AgroSciences |
| 3 | Bisco 2238 | DMR717 | Bisco Biosciences |
| 4 | FH-3548 | DMR718 | VPKAS, Almora |
| 5 | KNMH-4010141 | DMR719 | ARS, Karimnagar |
| Zone V | | | |
| 1 | JH 31485 | DMR736 | PAU Ludhiana |
| Entries completed three year of testing in Extra Early maturity | | | |
| Zone I | | | |
| 1 | K-75 | DMR745 | Kanchan Ganga Seed |
| 2 | FH-3554 | DMR746 | VPKAS, Almora |

| E. No. | Hybrid Name | DMR Code | Institute/organization. |
|----------|-------------|----------|-------------------------|
| 3 | FH-3556 | DMR747 | VPKAS, Almora |
| Zone III | | | |
| 1 | K-75 | DMR751 | Kanchan Ganga Seed |
| 2 | FH-3556 | DMR752 | VPKAS, Almora |
| 3 | FH-3558 | DMR753 | VPKAS, Almora |
| Zone IV | | | |
| 1 | FH-3556 | DMR761 | VPKAS, Almora |
| Zone V | | | |
| 1 | K-75 | DMR771 | Kanchan Ganga |
| 2 | FH-3555 | DMR772 | VPKAS, Almora |
| 3 | FH3554 | DMR773 | VPKAS,Almora |

Entries completed two years of their testing during *Kharif 2013*

| E. No. | Name | DMR Code | Origin |
|--|--------------------|----------|--------------------------------|
| Entries completed two year of testing in Late maturity | | | |
| Zone II | | | |
| 1 | FMH-11195 | DMR501 | Foliage Crop Solution |
| 2 | JH 31601 | DMR502 | PAU Ludhiana |
| 3 | JH 31555 | DMR503 | PAU Ludhiana |
| Zone III | | | |
| 1 | LTH-20 | DMR511 | Yaaganti Seeds Pvt Ltd. |
| 2 | Ryder-M | DMR512 | Prabhat Agri Biotech Ltd. |
| 3 | CMH 10-477 | DMR513 | AICRP-Maize Coimbatore |
| 4 | P3491(X35B391) | DMR514 | PHI Seeds Ltd. |
| 5 | P3596(X35B396) | DMR515 | PHI Seeds Ltd. |
| Zone IV | | | |
| 1 | Geo Premium Dimond | DMR531 | GEO Biotechnologies Ltd. |
| 2 | LTH-22 | DMR532 | Yaaganti Seeds Pvt Ltd. |
| 3 | CP-802 | DMR533 | CP Seeds Pvt Ltd. |
| 4 | NMH-1265 | DMR534 | Nuziveedu Seed Ltd. |
| 5 | P3491(X35B391) | DMR535 | PHI Seeds Ltd. |
| 6 | A 7503 | DMR536 | Advanta India Ltd. |
| Zone V | | | |
| 1 | FMH-11195 | DMR551 | Foliage Crop Solution Pvt Ltd. |
| 2 | CMH 10-540 | DMR552 | AICRP-Maize Coimbatore |
| 3 | X35B390 | DMR553 | PHI Seeds Ltd. |
| 4 | P3292(X35B392) | DMR554 | PHI Seeds Ltd. |
| 5 | JH 31601 | DMR555 | PAU Ludhiana |
| Entries completed two year of testing in Medium Maturity | | | |
| Zone I | | | |
| 1 | KMH-25K-45 | DMR601 | Kaveri Seed Company |
| 2 | KMH-3110 | DMR602 | Kaveri Seed Company |

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| E. No. | Name | DMR Code | Origin |
|---|--------------|-----------------|---------------------|
| 3 | KMH-7148 | DMR603 | Kaveri Seed Company |
| 4 | NMH-1276 | DMR604 | Nuziveedu Seed |
| 5 | IJ8533 | DMR605 | Monsanto |
| 6 | X35B403 | DMR606 | PHI Seeds Ltd. |
| 7 | S-6790 | DMR607 | Syngenta India Ltd. |
| 8 | S-6850 | DMR608 | Syngenta India Ltd. |
| 9 | Proline -777 | DMR609 | Proline Seeds |
| Zone II | | | |
| 1 | Rasi 3033 | DMR621 | Rasi Seed Pvt Ltd. |
| 2 | CMH 10-473 | DMR622 | AICRP Coimbatore |
| 3 | EHL-2211 | DMR623 | AREC ,Bajaura |
| 4 | IJ8533 | DMR624 | Monsanto |
| 5 | X35B403 | DMR625 | PHI Seeds Ltd. |
| 6 | Bio 719 | DMR626 | Bioseed Research |
| 7 | S-6790 | DMR627 | Syngenta |
| Zone IV | | | |
| 1 | EHL-2211 | DMR641 | AREC ,Bajaura |
| Zone V | | | |
| 1 | IJ8533 | DMR651 | Monsanto |
| Entries completed two year of testing in Early Maturity | | | |
| Zone I | | | |
| 1 | FH-3609 | DMR671 | VPKAS,Almora |
| 2 | FH-3626 | DMR672 | VPKAS,Almora |
| 3 | EH-2212 | DMR673 | MPUA&T,Udaipur |
| 4 | EH-2223 | DMR674 | MPUA&T,Udaipur |
| 5 | Bio 6008 | DMR675 | Bioseed Research |
| 6 | REH-2011-2 | DMR676 | CSAU& T,Kanpur |
| 7 | FH-3605 | DMR677 | VPKAS,Almora |
| 8 | EH-2170 | DMR678 | MPUA&T,Udaipur |
| Zone II | | | |
| 1 | CMH 10-484 | DMR691 | AICRP-Coimbatore |
| 2 | JH 31602 | DMR692 | PAU Ludhiana |
| 3 | EH-2170 | DMR693 | MPUA&T,Udaipur |
| Zone III | | | |
| 1 | FH-3605 | DMR701 | VPKAS,Almora |
| 2 | JH 31602 | DMR702 | PAU Ludhiana |
| Zone IV | | | |
| 1 | AH-1206 | DMR711 | IARI Pusa Delhi. |
| 2 | KMH-7021 | DMR712 | Kaveri Seed |
| 3 | FH-3605 | DMR713 | VPKAS,Almora |
| 4 | EH-2170 | DMR714 | MPUA&T,Udaipur |

| E. No. | Name | DMR Code | Origin |
|---|------------|----------|-------------------|
| Zone V | | | |
| 1 | CMH 10-531 | DMR731 | AICRP- Coimbatore |
| Entries completed two year of testing in Extra Early Maturity | | | |
| Zone I | | | |
| 1 | FH-3594 | DMR741 | VPKAS,Almora |
| 2 | AH-1202 | DMR742 | IARI Pusa Delhi. |
| 3 | DH-238 | DMR743 | GBPUA&T,Pantnagar |
| 4 | DH-262 | DMR744 | GBPUA&T,Pantnagar |

Entries completed one year of their testing during *Kharif 2013*

| E. No. | Name | DMR Code | Origin |
|--|--------------|----------|---------------------------------|
| Entries completed one year of testing in Late Maturity | | | |
| 1 | IM8539 | DMR101 | Monsanto India Ltd. |
| 2 | IM8562 | DMR102 | Monsanto India Ltd. |
| 3 | IM8556 | DMR103 | Monsanto India Ltd. |
| 4 | IM8554 | DMR104 | Monsanto India Ltd. |
| 5 | II 8017 | DMR105 | Monsanto India Ltd. |
| 6 | Siri 4546 | DMR106 | Siri Seeds Pvt. Ltd. |
| 7 | Siri 4527 | DMR107 | Siri Seeds Pvt. Ltd. |
| 8 | RMH-972 | DMR108 | Rasi Seeds Pvt. Ltd. |
| 9 | Super GA-105 | DMR109 | Godrej Seeds & Genetics Ltd. |
| 10 | Janahit | DMR110 | Godrej Seeds & Genetics Ltd. |
| 11 | HTMH-5202 | DMR111 | Hytech Seed India Pvt. Ltd |
| 12 | HTMH-5404 | DMR112 | Hytech Seed India Pvt. Ltd |
| 13 | DMH-696 | DMR113 | Metahelix Lifesciences Ltd. |
| 14 | FCH-11270 | DMR114 | Foliage Crop Solution Pvt Ltd. |
| 15 | FCH-11273 | DMR115 | Foliage Crop Solution Pvt Ltd. |
| 16 | VNR-31834 | DMR116 | VNR Seeds Pvt. Ltd. |
| 17 | VNR-31355 | DMR117 | VNR Seeds Pvt. Ltd. |
| 18 | TMMH-807 | DMR118 | Trimurti Plant Science Pvt Ltd. |
| 19 | KMH-2811 | DMR119 | Kaveri Seeds Company Ltd. |
| 20 | JKMH-4029 | DMR120 | J.K.Agriculture Genetics Ltd. |
| 21 | DAS-MH-104 | DMR121 | Dow Agro Sciences Ltd. |
| 22 | DAS-MH-105 | DMR122 | Dow Agro Sciences Ltd. |
| 23 | ASMH-777 | DMR123 | S.S.S.Seeds Pvt Ltd. |
| 24 | ASMH-333 | DMR124 | S.S.S.Seeds Pvt Ltd. |
| 25 | PRO-391 | DMR125 | Byer BioSciences Pvt Ltd. |
| 26 | KH-2192 | DMR126 | Kanchan Ganga Seed |
| 27 | B-54 | DMR127 | Kanchan Ganga Seed |
| 28 | polo | DMR128 | Kanchan Ganga Seed |

| E. No. | Name | DMR Code | Origin |
|--|--------------------|-----------------|----------------------------------|
| 29 | CP-999 | DMR129 | C.P.Seeds Pvt. Ltd. |
| 30 | GK-3155 | DMR130 | Ganga Kaveri Seeds Pvt. Ltd. |
| 31 | GK-3158 | DMR131 | Ganga Kaveri Seeds Pvt. Ltd. |
| 32 | Super- 6768 | DMR132 | Super Seed Pvt. Ltd. |
| 33 | Super-1177 | DMR133 | Super Seed Pvt. Ltd. |
| 34 | NMH-1603 | DMR134 | Nuziveedu Seed Ltd. |
| 35 | CMH 10-548 | DMR135 | AICRP-Maize Coimbatore |
| 36 | CMH 10-550 | DMR136 | AICRP-Maize Coimbatore |
| 37 | CMH 11-583 | DMR137 | AICRP-Maize Coimbatore |
| 38 | CMH 11-586 | DMR138 | AICRP-Maize Coimbatore |
| 39 | CMH 11-591 | DMR139 | AICRP-Maize Coimbatore |
| 40 | CMH 11-660 | DMR140 | AICRP-Maize Coimbatore |
| 41 | BH 41036 | DMR141 | ANGRAU MRC, Hyd. |
| 42 | BH 41127 | DMR142 | ANGRAU MRC, Hyd. |
| 43 | BH 41642 | DMR143 | ANGRAU MRC, Hyd. |
| 44 | BH 41151 | DMR144 | ANGRAU MRC, Hyd. |
| 45 | GH-0945 | DMR145 | ARS, Arabhavi-Karnataka |
| 46 | GH -1102 | DMR146 | ARS, Arabhavi-Karnataka |
| 47 | GH -1001 | DMR147 | ARS, Arabhavi-Karnataka |
| 48 | GH-1043 | DMR148 | ARS, Arabhavi-Karnataka |
| 49 | DKC9133 | DMR149 | Monsanto India Ltd. Bangalore. |
| 50 | X35D612 | DMR150 | PHI Seed Ltd. |
| 51 | X35D613 | DMR151 | PHI Seed Ltd. |
| 52 | X35D601 | DMR152 | PHI Seed Ltd. |
| 53 | BB 032 | DMR153 | Bioseed Research India Pvt. Ltd. |
| 54 | HTMH-5108 | DMR154 | Hytech Seed India Pvt. Ltd |
| 55 | PRO-392 | DMR155 | Bayer Bioscience pvt. Ltd. |
| 56 | BRMH-1 | DMR156 | VRDC,KSSC,Dharwad |
| 57 | REH-2012-3 | DMR157 | CSAU& T,Kanpur |
| 58 | JH 31623 | DMR158 | PAU Ludhiana |
| 59 | JH 31638 | DMR159 | PAU Ludhiana |
| 60 | JH 12010(JH 12019) | DMR160 | PAU Ludhiana |
| 61 | JH 12171 | DMR161 | PAU Ludhiana |
| 62 | JH 12003 | DMR162 | PAU Ludhiana |
| 63 | JH 12247 | DMR163 | PAU Ludhiana |
| 64 | HKH 421 | DMR164 | HAU,Karnal |
| Entries completed one year of testing in Medium Maturity | | | |
| 1 | QMH-29134 | DMR201 | AICRP,Kolhapur |
| 2 | QMH-2916 | DMR202 | AICRP,Kolhapur |
| 3 | EHL-3412 | DMR203 | AREC,Bajaura |

| E. No. | Name | DMR Code | Origin |
|---------------|---------------|-----------------|--------------------------------|
| 4 | EHL-1111 | DMR204 | AREC,Bajaura |
| 5 | EHL-3512 | DMR205 | AREC,Bajaura |
| 6 | S-6750 | DMR206 | Syngenta India Ltd. |
| 7 | RMH-932 | DMR207 | Rasi Seeds Pvt. Ltd. |
| 8 | RMH-3591 | DMR208 | Rasi Seeds Pvt. Ltd. |
| 9 | PHM-34(W) | DMR209 | SKUAS&T Jammu |
| 10 | PHM-12(Y) | DMR210 | SKUAS&T Jammu |
| 11 | LG-3271 | DMR211 | Bisco Bioscience Crop Pvt Ltd. |
| 12 | LG-3282 | DMR212 | Bisco Bioscience Crop Pvt Ltd. |
| 13 | FCH-85 | DMR213 | Foliage Crop Solution Pvt Ltd. |
| 14 | FCH-184 | DMR214 | Foliage Crop Solution Pvt Ltd. |
| 15 | FCH-11231 | DMR215 | Foliage Crop Solution Pvt Ltd. |
| 16 | KMH-6 | DMR216 | SAREC,Kangra |
| 17 | KMH-84 | DMR217 | SAREC,Kangra |
| 18 | KMH-6681 | DMR218 | Kaveri Seeds Company Ltd. |
| 19 | KMH-5951 | DMR219 | Kaveri Seeds Company Ltd. |
| 20 | JKMH-4545 | DMR220 | J.K.Agriculture Genetics Ltd. |
| 21 | SAFAL X-2 | DMR221 | Sarfal Seeds & Biotech Ltd. |
| 22 | Kuber Shakthi | DMR222 | PHS Agritech Pvt Ltd. |
| 23 | DAS-MH-304 | DMR223 | Dow Agro Sciences Ltd. |
| 24 | DAS-MH-305 | DMR224 | Dow Agro Sciences Ltd. |
| 25 | KH-517 Gold | DMR225 | Kanchan Ganga Seed |
| 26 | KH-2248 | DMR226 | Kanchan Ganga Seed |
| 27 | TH-38 | DMR227 | Yaaganti Seeds Pvt.Ltd. |
| 28 | MAHABEEJ-1202 | DMR228 | MSSC Ltd.,Akola |
| 29 | KDMH-2705 | DMR229 | Krishi Dhan Seed Ltd. |
| 30 | EH-2205 | DMR230 | MPUA&T,Udaiput |
| 31 | EH-2208 | DMR231 | MPUA&T,Udaiput |
| 32 | EH-2240 | DMR232 | MPUA&T,Udaiput |
| 33 | VaMH-08015 | DMR233 | MRS Vagarai,TNAU |
| 34 | PMH-209 | DMR234 | Prabhat Agri Biotech Ltd. |
| 35 | PRMH-2177 | DMR235 | Pravardhan Seeds Pvt Ltd. |
| 36 | NMH-1289 | DMR236 | Nuziveedu Seed Ltd. |
| 37 | HTMH-5402 | DMR237 | Hytech Seed India Pvt. Ltd |
| 38 | CMH 10-488 | DMR238 | AICRP-Maize Coimbatore |
| 39 | CMH 10-547 | DMR239 | AICRP-Maize Coimbatore |
| 40 | CMH 11-582 | DMR240 | AICRP-Maize Coimbatore |
| 41 | CMH 11-603 | DMR241 | AICRP-Maize Coimbatore |
| 42 | CMH 11-617 | DMR242 | AICRP-Maize Coimbatore |
| 43 | IM8478 | DMR243 | Monsanto India Ltd. Bangalore. |

| E. No. | Name | DMR Code | Origin |
|---------------|--------------------|-----------------|----------------------------------|
| 44 | IM8479 | DMR244 | Monsanto India Ltd. Bangalore. |
| 45 | IM8581 | DMR245 | Monsanto India Ltd. Bangalore. |
| 46 | IM 7519 | DMR246 | Monsanto India Ltd. Bangalore. |
| 47 | IM 7501 | DMR247 | Monsanto India Ltd. Bangalore. |
| 48 | BH 41015 | DMR248 | ANGRAU, Hyderabad |
| 49 | BH 41030 | DMR249 | ANGRAU, Hyderabad |
| 50 | BH 41145 | DMR250 | ANGRAU, Hyderabad |
| 51 | BH 41150 | DMR251 | ANGRAU, Hyderabad |
| 52 | BH 411736 | DMR252 | ANGRAU, Hyderabad |
| 53 | BH 411737 | DMR253 | ANGRAU, Hyderabad |
| 54 | BH 411520 | DMR254 | ANGRAU, Hyderabad |
| 55 | VEH 12-1 | DMR255 | BHU, Varanasi. |
| 56 | X35D620 | DMR256 | PHI Seed Ltd. Hyderabad. |
| 57 | X35D623 | DMR257 | PHI Seed Ltd. Hyderabad. |
| 58 | X35D602 | DMR258 | PHI Seed Ltd. Hyderabad. |
| 59 | X35D603 | DMR259 | PHI Seed Ltd. Hyderabad. |
| 60 | Bio 451 | DMR260 | Bioseed Research India Pvt. Ltd. |
| 61 | GWH-0711 | DMR261 | AICRP Maize. AAU, Godhra |
| 62 | REH-2012-1 | DMR262 | CSAU& T,Kanpur |
| 63 | REH-2012-2 | DMR263 | CSAU& T,Kanpur |
| 64 | REH-2012-4 | DMR264 | CSAU& T,Kanpur |
| 65 | JH 31595 | DMR265 | PAU Ludhiana |
| 66 | JH 31537 | DMR266 | PAU Ludhiana |
| 67 | JH 31604 | DMR267 | PAU Ludhiana |
| 68 | JH 31600(JH 31627) | DMR268 | PAU Ludhiana |
| 69 | JH 31244 | DMR269 | PAU Ludhiana |
| 70 | JH 31554 | DMR270 | PAU Ludhiana |
| 71 | AH-1226 | DMR271 | IARI Pusa Delhi. |
| 72 | AH-1262 | DMR272 | IARI Pusa Delhi. |
| 73 | MMH- 2-12-13 | DMR273 | TCA,Dholi |
| 74 | MMH- 3-12-13 | DMR274 | TCA,Dholi |
| 75 | MMH- 4-12-13 | DMR275 | TCA,Dholi |
| 76 | MMH- 5-12-13 | DMR276 | TCA,Dholi |
| 77 | HKH 338 | DMR277 | HAU,Karnal |
| 78 | HKH 339 | DMR278 | HAU,Karnal |
| 79 | HKH 340 | DMR279 | HAU,Karnal |
| 80 | KNMH-4302 | DMR280 | ARS,Karimnagar |
| 81 | KNMH-4303 | DMR281 | ARS,Karimnagar |
| 82 | KNMH-4304 | DMR282 | ARS,Karimnagar |
| 83 | KNMH-4305 | DMR283 | ARS,Karimnagar |

| E. No. | Name | DMR Code | Origin |
|---|--------------|-----------------|----------------------------------|
| 4 | KNMH-4010131 | DMR284 | ARS, Karimnagar |
| Entries completed one year of testing in Early Maturity | | | |
| 1 | LG-3181 | DMR301 | Bisco Bioscience Crop Pvt Ltd. |
| 2 | DMH-63 | DMR302 | Metahelix Lifesciences Ltd. |
| 3 | DH-264 | DMR303 | GBPUA&T,Pantnagar |
| 4 | DH-265 | DMR304 | GBPUA&T,Pantnagar |
| 5 | FH-3664 | DMR305 | VPKAS,Almora |
| 6 | FH-3669 | DMR306 | VPKAS,Almora |
| 7 | B-52 | DMR307 | Kanchan Ganga |
| 8 | EH-2211 | DMR308 | MPUA&T,Udaiput |
| 9 | EH-2214 | DMR309 | MPUA&T,Udaiput |
| 10 | EH-2233 | DMR310 | MPUA&T,Udaiput |
| 11 | NMH-1258 | DMR311 | Nuziveedu Seed Ltd. |
| 12 | CMH 11-579 | DMR312 | AICRP-Maize Coimbatore |
| 13 | CMH 11-595 | DMR313 | AICRP-Maize Coimbatore |
| 14 | CMH 11-611 | DMR314 | AICRP-Maize Coimbatore |
| 15 | CMH 11-626 | DMR315 | AICRP-Maize Coimbatore |
| 16 | CMH 11-629 | DMR316 | AICRP-Maize Coimbatore |
| 17 | BH 411305 | DMR317 | ANGRAU MRC, ARI , Hyd. |
| 18 | Bio 9720 | DMR318 | Bioseed Research India Pvt. Ltd. |
| 19 | GWH-0712 | DMR319 | AICRP Maize. AAU, Godhra |
| 20 | GWH-0902 | DMR320 | AICRP Maize. AAU, Godhra |
| 21 | GYH-0653 | DMR321 | AICRP Maize. AAU, Godhra |
| 22 | JH 31610 | DMR322 | PAU Ludhiana |
| 23 | JH 31613 | DMR323 | PAU Ludhiana |
| 24 | AH-1261 | DMR324 | IARI Pusa Delhi. |
| 25 | AH-1219 | DMR325 | IARI Pusa Delhi. |
| 26 | MEH-1-12-13 | DMR326 | TCA,Dholi |
| 27 | HKH 341 | DMR327 | HAU,Karnal |
| 28 | KNMH-4301 | DMR328 | ARS,Karimnagar |
| Entries completed one year of testing in Extra Early Maturity | | | |
| 1 | DH-266 | DMR401 | GBPUA&T,Pantnagar |
| 2 | DH-267 | DMR402 | GBPUA&T,Pantnagar |
| 3 | DH-268 | DMR403 | GBPUA&T,Pantnagar |
| 4 | FH-3641 | DMR404 | VPKAS,Almora |
| 5 | KH-7502 | DMR405 | Kanchan Ganga Seed |
| 6 | DH-269 | DMR406 | GBPUA&T Pantnagar |
| 7 | DH-270 | DMR407 | GBPUA&T Pantnagar |
| 8 | DH-271 | DMR408 | GBPUA&T Pantnagar |
| 9 | AH-1212 | DMR409 | IARI Pusa Delhi. |

BR12

TABLE No. 1 PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT KARNAL, LUDHIANA, PANTNAGAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, DHARWAD, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, SMF PATENCHERU, VAGARAI, VRDC DHARWAD, AMBIKAPUR, BANSWARA, BHILODA, CHHINDWARA, UDAIPUR IN IVT TRIAL No. TR61 (IVT-L) DURING KHARIF (2013).

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--------------|-------------------------------------|----|-------|----|-------|----|----------|----|-------|----|-------|----|-----------|----|------|----|-------|----|-------|----|-------|----|-------|----|--------|----|------|----|
| | | KARNAL | | | | | | LUDHIANA | | | | | | PANTNAGAR | | | | | | DHOLI | | | | | | RANCHI | | | |
| | | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | | | | |
| 1 | IM8539 | 8594 | 14 | 9087 | 41 | 8034 | 65 | 8572 | 48 | 9225 | 20 | 10406 | 4 | 9302 | 4 | 9645 | 3 | 16391 | 4 | 13368 | 7 | 10777 | 8 | 11449 | 2 | 12758 | 1 | 6618 | 42 |
| 2 | IM8562 | 7606 | 29 | 11806 | 7 | 8883 | 57 | 9432 | 19 | 11631 | 2 | 7790 | 50 | 9771 | 2 | 9731 | 2 | 15404 | 13 | 11808 | 17 | 11064 | 3 | 12849 | 1 | 10611 | 4 | 6687 | 39 |
| 3 | IM8556 | 7198 | 41 | 7826 | 50 | 10896 | 14 | 8640 | 45 | 8189 | 40 | 8180 | 42 | 6848 | 47 | 7739 | 46 | 16327 | 6 | 12452 | 14 | 11423 | 1 | 8405 | 40 | 9728 | 17 | 6825 | 32 |
| 4 | IM8554 | 8143 | 16 | 11171 | 13 | 8317 | 62 | 9210 | 26 | 10994 | 5 | 8780 | 22 | 7985 | 17 | 9253 | 5 | 16790 | 2 | 13922 | 3 | 7030 | 53 | 8517 | 37 | 8508 | 42 | 6843 | 31 |
| 5 | II8017 | 7517 | 33 | 13395 | 1 | 9736 | 46 | 10216 | 5 | 8611 | 31 | 8856 | 20 | 8032 | 14 | 8500 | 24 | 12560 | 49 | 15387 | 1 | 7174 | 51 | 8299 | 41 | 7605 | 55 | 6458 | 48 |
| 6 | Siri4546 | 6813 | 47 | 10306 | 28 | 10621 | 22 | 9247 | 24 | 7350 | 47 | 8830 | 21 | 7459 | 33 | 7880 | 39 | 10048 | 65 | 13226 | 8 | 6749 | 57 | 10552 | 8 | 8759 | 33 | 7921 | 6 |
| 7 | Siri4527 | 4487 | 65 | 10911 | 17 | 10526 | 25 | 8641 | 44 | 8571 | 33 | 10616 | 2 | 9071 | 6 | 9420 | 4 | 14264 | 29 | 12643 | 11 | 7369 | 50 | 11297 | 4 | 8163 | 46 | 7180 | 19 |
| 8 | RMH-972 | 7475 | 35 | 11692 | 9 | 8318 | 61 | 9162 | 28 | 9890 | 9 | 8666 | 26 | 7942 | 20 | 8833 | 17 | 14978 | 19 | 13671 | 4 | 9844 | 14 | 11046 | 5 | 8673 | 37 | 7080 | 25 |
| 9 | Super GA-105 | 7966 | 22 | 12232 | 4 | 9549 | 49 | 9916 | 10 | 10230 | 7 | 9244 | 16 | 7651 | 27 | 9041 | 7 | 14442 | 27 | 10592 | 28 | 9217 | 26 | 6694 | 55 | 9894 | 13 | 7336 | 14 |
| 10 | Janahit | 8914 | 12 | 10346 | 27 | 11095 | 10 | 10118 | 8 | 8007 | 42 | 9428 | 12 | 7966 | 18 | 8467 | 27 | 15240 | 15 | 10315 | 34 | 11105 | 2 | 5771 | 63 | 9586 | 18 | 6984 | 26 |
| 11 | HTMH-5202 | 5411 | 58 | 13025 | 3 | 8835 | 58 | 9090 | 33 | 9260 | 19 | 11477 | 1 | 6882 | 46 | 9206 | 6 | 13292 | 37 | 9797 | 43 | 9392 | 23 | 8837 | 31 | 9811 | 15 | 7326 | 16 |
| 12 | HTMH-5404 | 9459 | 3 | 7119 | 58 | 10748 | 15 | 9108 | 32 | 9770 | 10 | 9808 | 9 | 7426 | 35 | 9002 | 8 | 14991 | 18 | 8553 | 56 | 9050 | 28 | 9664 | 17 | 10570 | 5 | 6595 | 44 |
| 13 | DMH-696 | 9077 | 7 | 9953 | 33 | 10058 | 35 | 9696 | 14 | 8134 | 41 | 9333 | 13 | 8842 | 9 | 8770 | 19 | 13225 | 40 | 11594 | 20 | 10168 | 12 | 9016 | 28 | 8570 | 40 | 7538 | 10 |
| 14 | FCH-11270 | 8978 | 10 | 11356 | 12 | 11119 | 9 | 10484 | 3 | 7588 | 45 | 9123 | 17 | 7266 | 37 | 7992 | 37 | 15126 | 17 | 10014 | 40 | 5587 | 64 | 7993 | 44 | 11496 | 3 | 6249 | 55 |
| 15 | FCH-11273 | 7895 | 23 | 11433 | 11 | 10234 | 29 | 9854 | 12 | 7114 | 51 | 8956 | 19 | 8858 | 8 | 8309 | 31 | 13480 | 36 | 10773 | 27 | 7396 | 48 | 7793 | 47 | 8533 | 41 | 7216 | 18 |
| 16 | VNR-31834 | 9618 | 2 | 10635 | 21 | 12084 | 1 | 10779 | 2 | 9223 | 21 | 10445 | 3 | 6966 | 44 | 8878 | 14 | 13259 | 39 | 11059 | 24 | 8020 | 39 | 9683 | 16 | 8853 | 31 | 6969 | 27 |
| 17 | VNR-31355 | 7292 | 39 | 10993 | 15 | 9381 | 53 | 9222 | 25 | 9321 | 18 | 8693 | 24 | 8926 | 7 | 8980 | 10 | 15827 | 8 | 6770 | 65 | 10814 | 7 | 7564 | 49 | 5450 | 66 | 6725 | 36 |
| 18 | TMMH-807 | 9256 | 4 | 8212 | 48 | 9873 | 38 | 9114 | 31 | 6724 | 58 | 8331 | 37 | 7086 | 41 | 7380 | 49 | 12776 | 45 | 13413 | 6 | 7058 | 52 | 10106 | 12 | 9381 | 22 | 6727 | 35 |
| 19 | KMH-2811 | 5815 | 57 | 7601 | 55 | 9284 | 54 | 7567 | 59 | 9487 | 15 | 9740 | 11 | 7183 | 39 | 8803 | 18 | 13270 | 38 | 13019 | 9 | 7528 | 45 | 9462 | 22 | 10207 | 7 | 6607 | 43 |
| 20 | JKMH-4029 | 4435 | 67 | 7763 | 51 | 9842 | 40 | 7347 | 61 | 9515 | 13 | 7863 | 49 | 7215 | 38 | 8197 | 34 | 12434 | 50 | 10414 | 31 | 9459 | 19 | 9507 | 21 | 6143 | 62 | 6663 | 40 |
| 21 | DAS-MH-104 | 7757 | 25 | 10019 | 31 | 9411 | 52 | 9062 | 34 | 10387 | 6 | 8472 | 33 | 7653 | 26 | 8837 | 16 | 11742 | 56 | 12709 | 10 | 10691 | 10 | 5680 | 64 | 7800 | 52 | 7839 | 7 |
| 22 | DAS-MH-105 | 8742 | 13 | 11978 | 5 | 9823 | 41 | 10181 | 7 | 6860 | 55 | 8353 | 36 | 8017 | 15 | 7743 | 45 | 13684 | 34 | 9195 | 51 | 9461 | 18 | 8097 | 43 | 12546 | 2 | 6264 | 54 |
| 23 | ASMH-777 | 7497 | 34 | 10580 | 23 | 9853 | 39 | 9310 | 23 | 7290 | 48 | 8407 | 34 | 7493 | 32 | 7730 | 47 | 14884 | 20 | 11342 | 22 | 9318 | 24 | 8536 | 36 | 10339 | 6 | 7592 | 8 |
| 24 | ASMH-333 | 6843 | 46 | 10869 | 18 | 8599 | 60 | 8770 | 38 | 8633 | 30 | 8717 | 23 | 7965 | 19 | 8438 | 28 | 14184 | 30 | 10388 | 32 | 7623 | 44 | 9822 | 15 | 7046 | 59 | 7273 | 17 |
| 25 | PRO-391 | 7695 | 26 | 10389 | 25 | 10450 | 26 | 9511 | 18 | 9905 | 8 | 7476 | 56 | 9450 | 3 | 8944 | 13 | 12653 | 47 | 11718 | 19 | 6181 | 59 | 7471 | 51 | 9060 | 27 | 6453 | 49 |

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|------------|-------------------------------------|----|-------|----|-------|----|-------|----|-------|----|------|----|-------|------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|------|----|
| | | ZN 2 | | | | | | | | | | | | | ZN 3 | | | | | | | | | | | | | | |
| | | KARN | R | LUDH | R | PANT | R | MEAN | R | DHOL | R | RANC | R | VARA | R | MEAN | R | ARBH | R | COIM | R | DHAR | R | HYDE | R | KARI | R | KOLH | R |
| 26 | KH-2192 | 6225 | 51 | 11917 | 6 | 7813 | 68 | 8652 | 43 | 9732 | 11 | 8268 | 39 | 7876 | 23 | 8625 | 22 | 12416 | 51 | 11299 | 23 | 9051 | 27 | 5905 | 61 | 8757 | 34 | 5547 | 61 |
| 27 | B-54 | 9196 | 5 | 7689 | 54 | 8903 | 56 | 8596 | 46 | 11558 | 3 | 6078 | 66 | 5868 | 57 | 7834 | 43 | 14624 | 24 | 10533 | 29 | 8308 | 35 | 10833 | 7 | 8694 | 35 | 6340 | 51 |
| 28 | polo | 6615 | 48 | 5052 | 64 | 8307 | 63 | 6658 | 66 | 6475 | 61 | 7226 | 58 | 3968 | 67 | 5890 | 65 | 10251 | 64 | 7597 | 60 | 3976 | 68 | 7211 | 52 | 7641 | 53 | 5353 | 65 |
| 29 | CP-999 | 9065 | 8 | 8833 | 45 | 10189 | 31 | 9362 | 21 | 7218 | 49 | 8611 | 30 | 7687 | 25 | 7839 | 42 | 17392 | 1 | 11758 | 18 | 7402 | 47 | 7801 | 46 | 9397 | 21 | 7587 | 9 |
| 30 | GK-3155 | 6918 | 45 | 8788 | 46 | 10025 | 36 | 8577 | 47 | 8374 | 38 | 6245 | 65 | 7059 | 42 | 7226 | 54 | 12787 | 44 | 10359 | 33 | 9021 | 29 | 5982 | 59 | 6901 | 60 | 5722 | 59 |
| 31 | GK-3158 | 9078 | 6 | 11803 | 8 | 8828 | 59 | 9903 | 11 | 9064 | 23 | 8690 | 25 | 7894 | 22 | 8549 | 23 | 16652 | 3 | 9604 | 46 | 10739 | 9 | 8621 | 35 | 8115 | 47 | 8222 | 4 |
| 32 | Super-6768 | 6553 | 49 | 9173 | 40 | 10533 | 23 | 8753 | 41 | 5857 | 65 | 8356 | 35 | 7627 | 29 | 7280 | 52 | 12770 | 46 | 10148 | 38 | 7511 | 46 | 8434 | 39 | 8588 | 39 | 7423 | 12 |
| 33 | Super-1177 | 5263 | 60 | 8859 | 44 | 11204 | 8 | 8442 | 49 | 6772 | 57 | 7676 | 52 | 6321 | 54 | 6923 | 56 | 14023 | 31 | 9121 | 53 | 8744 | 32 | 8830 | 32 | 9282 | 25 | 6712 | 37 |
| 34 | NMH-1603 | 8061 | 19 | 8057 | 49 | 10151 | 33 | 8757 | 40 | 7399 | 46 | 7664 | 53 | 5530 | 59 | 6864 | 57 | 12411 | 52 | 12628 | 12 | 7393 | 49 | 9603 | 20 | 7614 | 54 | 7176 | 20 |
| 35 | CMH10-548 | 7663 | 27 | 9902 | 34 | 11620 | 6 | 9728 | 13 | 8423 | 37 | 9884 | 8 | 6987 | 43 | 8431 | 29 | 15627 | 9 | 12393 | 15 | 8905 | 30 | 10316 | 9 | 8040 | 49 | 8344 | 3 |
| 36 | CMH10-550 | 6930 | 44 | 9680 | 37 | 9525 | 51 | 8712 | 42 | 7865 | 43 | 9097 | 18 | 7925 | 21 | 8296 | 33 | 14768 | 22 | 9779 | 44 | 9599 | 16 | 9328 | 24 | 10195 | 8 | 5948 | 57 |
| 37 | CMH11-583 | 8070 | 18 | 10062 | 30 | 9251 | 55 | 9128 | 30 | 9172 | 22 | 8305 | 38 | 7437 | 34 | 8305 | 32 | 15367 | 14 | 10428 | 30 | 10039 | 13 | 8909 | 30 | 9962 | 11 | 7381 | 13 |
| 38 | CMH11-586 | 7299 | 38 | 10989 | 16 | 10696 | 18 | 9661 | 16 | 9394 | 16 | 7990 | 47 | 8072 | 13 | 8485 | 25 | 15540 | 12 | 9153 | 52 | 9730 | 15 | 8827 | 33 | 8334 | 44 | 7092 | 24 |
| 39 | CMH11-591 | 6008 | 54 | 10699 | 20 | 10171 | 32 | 8959 | 36 | 8536 | 34 | 8010 | 45 | 5422 | 62 | 7323 | 51 | 14571 | 25 | 13425 | 5 | 9393 | 22 | 8980 | 29 | 9019 | 30 | 5449 | 63 |
| 40 | CMH11-660 | 5309 | 59 | 10013 | 32 | 9797 | 43 | 8373 | 51 | 8363 | 39 | 8007 | 46 | 9082 | 5 | 8484 | 26 | 15579 | 10 | 10858 | 26 | 7827 | 43 | 8251 | 42 | 8786 | 32 | 6801 | 34 |
| 41 | BH41036 | 8129 | 17 | 1571 | 68 | 11083 | 11 | 6928 | 64 | 6536 | 59 | 6919 | 60 | 5414 | 63 | 6289 | 64 | 12826 | 43 | 10107 | 39 | 10379 | 11 | 9237 | 25 | 9938 | 12 | 6638 | 41 |
| 42 | BH41127 | 7644 | 28 | 2722 | 67 | 10656 | 20 | 7007 | 62 | 6928 | 54 | 6038 | 67 | 6220 | 55 | 6395 | 60 | 10597 | 61 | 8207 | 58 | 8291 | 36 | 10240 | 10 | 8239 | 45 | 6310 | 52 |
| 43 | BH41642 | 4842 | 64 | 9892 | 35 | 10532 | 24 | 8422 | 50 | 7154 | 50 | 7187 | 59 | 7998 | 16 | 7447 | 48 | 13087 | 41 | 9395 | 49 | 6942 | 54 | 9992 | 13 | 9049 | 29 | 6711 | 38 |
| 44 | BH41151 | 2978 | 68 | 7758 | 52 | 9547 | 50 | 6761 | 65 | 7051 | 52 | 7865 | 48 | 4006 | 66 | 6307 | 63 | 11138 | 59 | 8415 | 57 | 5975 | 63 | 8826 | 34 | 7305 | 57 | 6568 | 46 |
| 45 | GH-0945 | 6199 | 52 | 4960 | 65 | 11636 | 5 | 7599 | 58 | 5352 | 66 | 5939 | 68 | 5210 | 64 | 5500 | 67 | 10897 | 60 | 7038 | 62 | 4345 | 67 | 5975 | 60 | 5138 | 67 | 4648 | 67 |
| 46 | GH-1102 | 7601 | 30 | 6933 | 59 | 9570 | 48 | 8035 | 52 | 6814 | 56 | 7337 | 57 | 5595 | 58 | 6582 | 59 | 11725 | 57 | 6844 | 63 | 6160 | 60 | 7552 | 50 | 6023 | 63 | 6156 | 56 |
| 47 | GH-1001 | 4484 | 66 | 5225 | 62 | 8032 | 66 | 5914 | 68 | 5022 | 68 | 6370 | 64 | 4856 | 65 | 5416 | 68 | 10365 | 63 | 6747 | 66 | 4899 | 65 | 4597 | 68 | 5012 | 68 | 5701 | 60 |
| 48 | GH-1043 | 4870 | 63 | 5286 | 60 | 7843 | 67 | 6000 | 67 | 5866 | 64 | 7602 | 54 | 3698 | 68 | 5722 | 66 | 8951 | 67 | 5844 | 68 | 6422 | 58 | 5486 | 65 | 5803 | 64 | 4541 | 68 |
| 49 | DKC9133 | 7325 | 37 | 10399 | 24 | 9790 | 45 | 9171 | 27 | 9496 | 14 | 9760 | 10 | 7642 | 28 | 8966 | 11 | 13508 | 35 | 9643 | 45 | 6057 | 61 | 6725 | 54 | 9055 | 28 | 6408 | 50 |
| 50 | X35D612 | 7970 | 21 | 11605 | 10 | 11027 | 13 | 10201 | 6 | 8982 | 24 | 9899 | 7 | 7707 | 24 | 8863 | 15 | 12273 | 53 | 10871 | 25 | 10965 | 5 | 5813 | 62 | 10030 | 10 | 8069 | 5 |
| 51 | X35D613 | 5022 | 62 | 7750 | 53 | 9881 | 37 | 7551 | 60 | 8600 | 32 | 8022 | 44 | 7506 | 31 | 8043 | 36 | 14766 | 23 | 10168 | 37 | 9579 | 17 | 7668 | 48 | 8378 | 43 | 7153 | 21 |
| 52 | X35D601 | 9772 | 1 | 13378 | 2 | 11291 | 7 | 11480 | 1 | 8709 | 28 | 8096 | 43 | 6555 | 48 | 7787 | 44 | 16384 | 5 | 14187 | 2 | 7938 | 40 | 9615 | 19 | 10100 | 9 | 8560 | 2 |
| 53 | BB 032 | 6043 | 53 | 9686 | 36 | 8280 | 64 | 8003 | 53 | 11780 | 1 | 8251 | 40 | 6952 | 45 | 8995 | 9 | 13017 | 42 | 9810 | 42 | 8823 | 31 | 10204 | 11 | 8667 | 38 | 6883 | 30 |
| 54 | HTMH-5108 | 7445 | 36 | 10844 | 19 | 12006 | 2 | 10098 | 9 | 11237 | 4 | 8625 | 29 | 10851 | 1 | 10238 | 1 | 13708 | 33 | 12465 | 13 | 11041 | 4 | 11326 | 3 | 9811 | 14 | 8693 | 1 |
| 55 | PRO-392 | 8930 | 11 | 8998 | 43 | 10220 | 30 | 9382 | 20 | 9387 | 17 | 8495 | 32 | 8139 | 11 | 8674 | 21 | 16077 | 7 | 9273 | 50 | 10853 | 6 | 9891 | 14 | 9433 | 20 | 7099 | 23 |
| 56 | BRMH-1 | 7600 | 31 | 5270 | 61 | 10145 | 34 | 7672 | 57 | 6217 | 62 | 7774 | 51 | 6060 | 56 | 6683 | 58 | 12056 | 55 | 6626 | 67 | 4511 | 66 | 6566 | 57 | 7114 | 58 | 5795 | 58 |

BR14

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----------------------|-------------------------------------|----|-------------|----|--------------|----|-------------|----|--------------|----|-------------|----|-------------|----|-------------|----|--------------|----|--------------|----|--------------|----|-------------|----|-------------|----|-------------|----|
| | | ZN 2 | | | | | | | | | | | | | | ZN 3 | | | | | | | | | | | | | |
| | | KARN | R | LUDH | R | PANT | R | MEAN | R | DHOL | R | RANC | R | VARA | R | MEAN | R | ARBH | R | COIM | R | DHAR | R | HYDE | R | KARI | R | KOLH | R |
| 57 | REH-2012-3 | 5218 | 61 | 5225 | 63 | 10388 | 27 | 6944 | 63 | 6929 | 53 | 6640 | 62 | 7266 | 36 | 6945 | 55 | 10402 | 62 | 9035 | 54 | 5987 | 62 | 5385 | 67 | 5715 | 65 | 5165 | 66 |
| 58 | JH31623 | 9022 | 9 | 10062 | 29 | 9797 | 44 | 9627 | 17 | 8863 | 26 | 9306 | 15 | 8087 | 12 | 8752 | 20 | 15159 | 16 | 10221 | 35 | 7832 | 42 | 9181 | 26 | 8009 | 50 | 6305 | 53 |
| 59 | JH31638 | 7796 | 24 | 4907 | 66 | 10633 | 21 | 7779 | 56 | 7747 | 44 | 9328 | 14 | 6467 | 50 | 7847 | 40 | 13985 | 32 | 12276 | 16 | 7916 | 41 | 9380 | 23 | 9380 | 23 | 5385 | 64 |
| 60 | JH12010(JH12019) | 6351 | 50 | 9017 | 42 | 11048 | 12 | 8805 | 37 | 8957 | 25 | 7480 | 55 | 7100 | 40 | 7846 | 41 | 12630 | 48 | 9026 | 55 | 6876 | 56 | 6924 | 53 | 9352 | 24 | 6532 | 47 |
| 61 | JH12171 | 7572 | 32 | 9453 | 38 | 10364 | 28 | 9129 | 29 | 6504 | 60 | 10035 | 6 | 5443 | 61 | 7328 | 50 | 9347 | 66 | 8048 | 59 | 8421 | 34 | 6524 | 58 | 6730 | 61 | 5478 | 62 |
| 62 | JH12003 | 5854 | 56 | 9441 | 39 | 11814 | 4 | 9036 | 35 | 8684 | 29 | 8633 | 28 | 6451 | 51 | 7922 | 38 | 14511 | 26 | 9440 | 48 | 8048 | 38 | 10851 | 6 | 9582 | 19 | 6952 | 28 |
| 63 | JH12247 | 7201 | 40 | 11060 | 14 | 9814 | 42 | 9358 | 22 | 9698 | 12 | 8666 | 27 | 8483 | 10 | 8949 | 12 | 11356 | 58 | 9963 | 41 | 9394 | 21 | 9647 | 18 | 8692 | 36 | 7328 | 15 |
| 64 | HKH421 | 5989 | 55 | 7199 | 56 | 10743 | 16 | 7977 | 54 | 5285 | 67 | 8220 | 41 | 5475 | 60 | 6327 | 62 | 8352 | 68 | 6787 | 64 | 6930 | 55 | 5437 | 66 | 8092 | 48 | 6594 | 45 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 7987 | 20 | 10354 | 26 | 10717 | 17 | 9686 | 15 | 8531 | 35 | 10163 | 5 | 6527 | 49 | 8407 | 30 | 14366 | 28 | 9475 | 47 | 9246 | 25 | 6685 | 56 | 9794 | 16 | 7140 | 22 |
| 66 | PMH3 | 8323 | 15 | 10617 | 22 | 11913 | 3 | 10284 | 4 | 8501 | 36 | 8498 | 31 | 7511 | 30 | 8170 | 35 | 15544 | 11 | 11401 | 21 | 8451 | 33 | 8436 | 38 | 9243 | 26 | 7522 | 11 |
| 67 | Seedtech-2324 | 6966 | 42 | 8646 | 47 | 10684 | 19 | 8765 | 39 | 8726 | 27 | 6575 | 63 | 6412 | 52 | 7238 | 53 | 14792 | 21 | 10220 | 36 | 9425 | 20 | 9020 | 27 | 8003 | 51 | 6927 | 29 |
| 68 | BIO-9681 | 6943 | 43 | 7136 | 57 | 9678 | 47 | 7919 | 55 | 6018 | 63 | 6698 | 61 | 6410 | 53 | 6375 | 61 | 12077 | 54 | 7503 | 61 | 8153 | 37 | 7927 | 45 | 7532 | 56 | 6803 | 33 |
| | Location Mean | 7218 | | 9229 | | 10025 | | 8824 | | 8319 | | 8390 | | 7207 | | 7972 | | 13529 | | 10386 | | 8338 | | 8486 | | 8656 | | 6752 | |
| | C.D. (5%) | 894 | | 1950 | | 2064 | | 1636 | | 2859 | | 2218 | | 1043 | | 2040 | | 2705 | | 1140 | | 2743 | | 1515 | | 1909 | | 1292 | |
| | C.V. (%) | 7.67 | | 13.08 | | 12.75 | | - | | 21.28 | | 13.24 | | 8.96 | | - | | 12.38 | | 6.8 | | 20.37 | | 11.05 | | 13.66 | | 11.85 | |
| | F (Prob) | 0 | | 0 | | 0 | | | | 0 | | 0.001 | | 0 | | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | Plot Size | 6 | | 5.46 | | 6 | | - | | 4 | | 5.6 | | 4.8 | | - | | 6 | | 4.8 | | 4.8 | | 6 | | 6 | | 6 | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 29-06 | | 21-06 | | 5-08 | | - | | 3-07 | | 6-07 | | 20-06 | | - | | 2-07 | | 9-07 | | 26-06 | | 24-06 | | 8-07 | | 28-06 | |
| | Harvest Date | 10-10 | | 7-10 | | 26-11 | | - | | 25-10 | | 31-10 | | 4-10 | | - | | 9-11 | | 30-10 | | 15-11 | | 19-10 | | 8-11 | | 15-11 | |
| | Irrigation Nos | 6 | | 5 | | 1 | | - | | 3 | | - | | - | | - | | 6 | | 10 | | - | | 2 | | - | | - | |
| | Fertilizer Applied N | 150 | | 125 | | 120 | | - | | 120 | | 120 | | 120 | | - | | 150 | | 150 | | 150 | | 200 | | 200 | | 120 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | - | | 60 | | 60 | | 60 | | - | | 75 | | 75 | | 75 | | 60 | | 60 | | 60 | |
| | Fertilizer Applied K | 60 | | 30 | | 40 | | - | | 40 | | 40 | | 40 | | - | | 37.5 | | 75 | | 37.5 | | 50 | | 60 | | 40 | |

TABLE No. 1 (Cont...)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | | | | ZN 5 | | | | OV'L | | | |
|-------|--------------|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|-------|----|------|----|------|----|
| | | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | BANS | R | BHIL | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 1 | IM8539 | 10139 | 19 | 11705 | 1 | 9562 | 3 | 5410 | 12 | 10818 | 1 | 11325 | 5 | 3142 | 52 | 10546 | 8 | 5159 | 9 | 9832 | 5 | 8001 | 3 | 9659 | 1 |
| 2 | IM8562 | 11414 | 3 | 11621 | 2 | 9262 | 5 | 3813 | 53 | 10453 | 2 | 11260 | 6 | 3411 | 45 | 9902 | 17 | 4563 | 29 | 11431 | 1 | 8114 | 1 | 9647 | 2 |
| 3 | IM8556 | 10795 | 7 | 10368 | 34 | 6455 | 58 | 4502 | 41 | 9728 | 7 | 9551 | 27 | 3834 | 23 | 9912 | 16 | 5326 | 4 | 9706 | 8 | 7666 | 7 | 8797 | 12 |
| 4 | IM8554 | 11195 | 6 | 11010 | 13 | 7085 | 45 | 4465 | 43 | 9537 | 10 | 9707 | 22 | 3448 | 42 | 11183 | 2 | 5276 | 6 | 10442 | 3 | 8011 | 2 | 9086 | 5 |
| 5 | II8017 | 9058 | 38 | 10297 | 35 | 7503 | 37 | 4100 | 47 | 8844 | 43 | 12107 | 1 | 2899 | 66 | 7500 | 48 | 4686 | 25 | 8124 | 25 | 7063 | 22 | 8567 | 28 |
| 6 | Siri4546 | 8844 | 42 | 9034 | 53 | 7973 | 27 | 3129 | 62 | 8624 | 47 | 8907 | 37 | 3671 | 31 | 9642 | 20 | 4689 | 24 | 7164 | 37 | 6815 | 36 | 8176 | 43 |
| 7 | Siri4527 | 9143 | 36 | 10444 | 33 | 5953 | 64 | 3921 | 51 | 9038 | 31 | 9605 | 26 | 4135 | 18 | 10538 | 9 | 4540 | 30 | 9747 | 6 | 7713 | 6 | 8720 | 18 |
| 8 | RMH-972 | 11209 | 5 | 10923 | 16 | 9057 | 9 | 5218 | 20 | 10170 | 4 | 8699 | 43 | 3230 | 48 | 8235 | 40 | 4344 | 39 | 6768 | 47 | 6255 | 48 | 8903 | 7 |
| 9 | Super GA-105 | 9412 | 28 | 10906 | 17 | 6881 | 49 | 4470 | 42 | 8984 | 36 | 10987 | 7 | 4453 | 10 | 10821 | 5 | 4639 | 27 | 6572 | 50 | 7495 | 10 | 8771 | 15 |
| 10 | Janahit | 9829 | 21 | 11150 | 9 | 7757 | 30 | 5572 | 8 | 9331 | 15 | 10349 | 14 | 3539 | 37 | 9995 | 14 | 5978 | 2 | 7605 | 30 | 7493 | 11 | 8882 | 9 |
| 11 | HTMH-5202 | 11579 | 2 | 11391 | 4 | 10442 | 1 | 2831 | 66 | 9470 | 11 | 11573 | 3 | 4090 | 19 | 10726 | 6 | 4668 | 26 | 6591 | 49 | 7530 | 9 | 8916 | 6 |
| 12 | HTMH-5404 | 8594 | 46 | 10745 | 19 | 7853 | 29 | 5010 | 23 | 9162 | 24 | 9656 | 25 | 2765 | 68 | 10830 | 4 | 5193 | 8 | 6152 | 58 | 6919 | 32 | 8598 | 25 |
| 13 | DMH-696 | 10622 | 10 | 11157 | 8 | 9068 | 8 | 4822 | 28 | 9578 | 9 | 9546 | 28 | 3895 | 22 | 9660 | 19 | 4328 | 40 | 6363 | 55 | 6758 | 38 | 8808 | 11 |
| 14 | FCH-11270 | 10663 | 9 | 10642 | 26 | 7890 | 28 | 5287 | 17 | 9095 | 30 | 9921 | 17 | 3076 | 56 | 8881 | 31 | 3999 | 52 | 7814 | 27 | 6738 | 39 | 8575 | 27 |
| 15 | FCH-11273 | 9805 | 22 | 10682 | 24 | 8919 | 11 | 7616 | 1 | 9221 | 21 | 8113 | 50 | 4362 | 13 | 8764 | 33 | 5005 | 14 | 9067 | 12 | 7062 | 23 | 8667 | 21 |
| 16 | VNR-31834 | 9261 | 32 | 10107 | 37 | 8280 | 23 | 3141 | 61 | 8863 | 42 | 10776 | 9 | 3485 | 39 | 9211 | 22 | 4272 | 42 | 7260 | 35 | 7001 | 28 | 8696 | 19 |
| 17 | VNR-31355 | 10667 | 8 | 9754 | 43 | 8913 | 12 | 5199 | 21 | 8768 | 44 | 10510 | 13 | 3732 | 27 | 9133 | 23 | 4887 | 18 | 6827 | 46 | 7018 | 26 | 8447 | 32 |
| 18 | TMMH-807 | 10115 | 20 | 9035 | 52 | 6586 | 55 | 4983 | 24 | 9018 | 32 | 8856 | 40 | 4558 | 8 | 8353 | 39 | 4270 | 43 | 6981 | 41 | 6604 | 41 | 8223 | 40 |
| 19 | KMH-2811 | 8703 | 45 | 11280 | 6 | 6442 | 59 | 4953 | 25 | 9147 | 26 | 10775 | 10 | 3742 | 26 | 9023 | 30 | 4885 | 19 | 5487 | 63 | 6782 | 37 | 8309 | 37 |
| 20 | JKMH-4029 | 9193 | 34 | 9977 | 40 | 7677 | 33 | 4896 | 26 | 8636 | 46 | 8269 | 48 | 4255 | 15 | 9115 | 24 | 5380 | 3 | 7194 | 36 | 6843 | 35 | 7962 | 49 |
| 21 | DAS-MH-104 | 10242 | 15 | 10671 | 25 | 8328 | 22 | 5244 | 18 | 9095 | 29 | 9707 | 21 | 2987 | 61 | 9111 | 25 | 5207 | 7 | 8595 | 18 | 7122 | 19 | 8583 | 26 |
| 22 | DAS-MH-105 | 11634 | 1 | 10719 | 22 | 6568 | 56 | 4571 | 39 | 9274 | 18 | 11361 | 4 | 3773 | 25 | 10160 | 13 | 5305 | 5 | 6653 | 48 | 7451 | 13 | 8751 | 16 |
| 23 | ASMH-777 | 9784 | 23 | 10622 | 27 | 7006 | 47 | 4319 | 45 | 9374 | 14 | 9765 | 18 | 4499 | 9 | 10291 | 11 | 4124 | 48 | 8714 | 15 | 7478 | 12 | 8679 | 20 |
| 24 | ASMH-333 | 10171 | 17 | 10598 | 28 | 8423 | 20 | 3710 | 57 | 8924 | 41 | 8749 | 42 | 3476 | 41 | 7873 | 44 | 4075 | 50 | 6416 | 54 | 6118 | 51 | 8164 | 44 |
| 25 | PRO-391 | 8233 | 50 | 11165 | 7 | 6599 | 54 | 3937 | 50 | 8347 | 54 | 8163 | 49 | 3477 | 40 | 7345 | 50 | 4529 | 32 | 5739 | 62 | 5851 | 53 | 8004 | 48 |

BR16

| SI No PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | | | | | OVL | | | | | | | |
|-------------------|-------|----|-------|----|-------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|-------|----|------|----|------|----|
| | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | BANS | R | BHIL | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 26 KH-2192 | 10171 | 18 | 9192 | 50 | 9375 | 4 | 3101 | 63 | 8481 | 51 | 8911 | 36 | 3695 | 29 | 7879 | 43 | 4096 | 49 | 9032 | 13 | 6722 | 40 | 8107 | 46 |
| 27 B-54 | 9177 | 35 | 10742 | 20 | 9226 | 6 | 4579 | 38 | 9306 | 17 | 10133 | 16 | 2847 | 67 | 7450 | 49 | 4405 | 37 | 9648 | 9 | 6897 | 33 | 8420 | 34 |
| 28 polo | 7465 | 58 | 7879 | 62 | 7190 | 43 | 2914 | 64 | 6748 | 63 | 6617 | 62 | 3568 | 36 | 5225 | 65 | 3400 | 61 | 6523 | 52 | 5067 | 62 | 6212 | 64 |
| 29 CP-999 | 11384 | 4 | 11437 | 3 | 7999 | 26 | 5817 | 4 | 9797 | 6 | 12005 | 2 | 3103 | 54 | 10356 | 10 | 5102 | 10 | 6500 | 53 | 7413 | 14 | 8888 | 8 |
| 30 GK-3155 | 9295 | 29 | 9299 | 49 | 8781 | 15 | 5586 | 6 | 8373 | 53 | 8535 | 46 | 3144 | 51 | 8555 | 37 | 3805 | 55 | 8625 | 17 | 6533 | 43 | 7800 | 52 |
| 31 GK-3158 | 9784 | 24 | 10492 | 31 | 6980 | 48 | 4588 | 36 | 9380 | 13 | 10833 | 8 | 4380 | 11 | 9046 | 27 | 4160 | 46 | 6916 | 43 | 7067 | 21 | 8785 | 13 |
| 32 Super-6768 | 9229 | 33 | 8809 | 56 | 5953 | 65 | 4073 | 49 | 8294 | 55 | 8431 | 47 | 3128 | 53 | 6883 | 56 | 3771 | 56 | 6169 | 57 | 5676 | 57 | 7592 | 54 |
| 33 Super-1177 | 8712 | 44 | 10795 | 18 | 8337 | 21 | 5346 | 14 | 8990 | 35 | 9495 | 30 | 4336 | 14 | 8562 | 36 | 4436 | 34 | 8445 | 21 | 7055 | 24 | 8156 | 45 |
| 34 NMH-1603 | 10587 | 11 | 11026 | 12 | 7657 | 34 | 5243 | 19 | 9134 | 27 | 7577 | 57 | 3092 | 55 | 6276 | 61 | 4125 | 47 | 7447 | 31 | 5703 | 56 | 7939 | 50 |
| 35 CMH10-548 | 8870 | 40 | 11309 | 5 | 7392 | 40 | 5298 | 16 | 9649 | 8 | 7736 | 54 | 2900 | 65 | 7165 | 52 | 5080 | 11 | 9398 | 10 | 6456 | 44 | 8726 | 17 |
| 36 CMH10-550 | 8315 | 48 | 9904 | 41 | 7630 | 35 | 4587 | 37 | 9005 | 33 | 9659 | 24 | 3650 | 33 | 9054 | 26 | 6169 | 1 | 8002 | 26 | 7307 | 17 | 8458 | 31 |
| 37 CMH11-583 | 7686 | 55 | 10010 | 39 | 7591 | 36 | 5138 | 22 | 9251 | 20 | 9071 | 35 | 4165 | 17 | 9962 | 15 | 4967 | 15 | 8149 | 24 | 7263 | 18 | 8625 | 24 |
| 38 CMH11-586 | 9611 | 27 | 10968 | 15 | 8830 | 13 | 4635 | 34 | 9272 | 19 | 8751 | 41 | 3416 | 44 | 9347 | 21 | 4407 | 36 | 8861 | 14 | 6956 | 31 | 8664 | 23 |
| 39 CMH11-591 | 7081 | 62 | 10086 | 38 | 7754 | 31 | 5467 | 11 | 9123 | 28 | 8857 | 39 | 4375 | 12 | 7110 | 54 | 4910 | 17 | 6560 | 51 | 6362 | 46 | 8185 | 42 |
| 40 CMH11-660 | 9743 | 25 | 10217 | 36 | 8147 | 24 | 5331 | 15 | 9154 | 25 | 8058 | 52 | 5599 | 1 | 10275 | 12 | 3583 | 58 | 6930 | 42 | 6889 | 34 | 8407 | 35 |
| 41 BH41036 | 8374 | 47 | 8832 | 55 | 6474 | 57 | 4803 | 29 | 8761 | 45 | 7414 | 59 | 3991 | 20 | 8407 | 38 | 3269 | 63 | 7347 | 34 | 6086 | 52 | 7509 | 55 |
| 42 BH41127 | 7243 | 61 | 8123 | 58 | 7482 | 38 | 2894 | 65 | 7763 | 58 | 6513 | 63 | 4598 | 7 | 7313 | 51 | 3476 | 60 | 9074 | 11 | 6195 | 50 | 7086 | 59 |
| 43 BH41642 | 9068 | 37 | 10737 | 21 | 5967 | 63 | 4543 | 40 | 8549 | 49 | 7254 | 60 | 3492 | 38 | 8683 | 35 | 4234 | 45 | 8536 | 19 | 6440 | 45 | 7871 | 51 |
| 44 BH41151 | 8071 | 51 | 8111 | 59 | 7682 | 32 | 4618 | 35 | 7671 | 59 | 7627 | 56 | 3324 | 46 | 6799 | 57 | 3211 | 65 | 7408 | 32 | 5674 | 58 | 6871 | 60 |
| 45 GH-0945 | 5448 | 65 | 6999 | 66 | 6663 | 52 | 4113 | 46 | 6126 | 66 | 5123 | 67 | 2978 | 62 | 4506 | 67 | 2136 | 68 | 5939 | 60 | 4137 | 67 | 5774 | 66 |
| 46 GH-1102 | 4679 | 67 | 8087 | 60 | 6125 | 62 | 4874 | 27 | 6823 | 62 | 6031 | 65 | 3642 | 34 | 6063 | 62 | 3929 | 53 | 4881 | 65 | 4909 | 65 | 6506 | 62 |
| 47 GH-1001 | 3972 | 68 | 7030 | 65 | 6641 | 53 | 3716 | 56 | 5868 | 68 | 6295 | 64 | 2936 | 64 | 4744 | 66 | 4442 | 33 | 3873 | 68 | 4458 | 66 | 5474 | 67 |
| 48 GH-1043 | 7587 | 57 | 6121 | 68 | 6777 | 51 | 2620 | 67 | 6015 | 67 | 4323 | 68 | 4976 | 3 | 3066 | 68 | 2321 | 67 | 4808 | 66 | 3899 | 68 | 5467 | 68 |
| 49 DKC9133 | 9275 | 31 | 10451 | 32 | 8618 | 18 | 4779 | 30 | 8452 | 52 | 9501 | 29 | 3066 | 58 | 11552 | 1 | 4940 | 16 | 10005 | 4 | 7813 | 5 | 8476 | 29 |
| 50 X35D612 | 10585 | 12 | 9333 | 46 | 7156 | 44 | 4650 | 33 | 8975 | 37 | 9124 | 34 | 3901 | 21 | 8859 | 32 | 4776 | 22 | 8346 | 22 | 7001 | 27 | 8664 | 22 |
| 51 X35D613 | 10196 | 16 | 9564 | 44 | 8665 | 17 | 5568 | 10 | 9170 | 23 | 10294 | 15 | 4231 | 16 | 8183 | 41 | 4408 | 35 | 7733 | 28 | 6970 | 29 | 8254 | 39 |
| 52 X35D601 | 9005 | 39 | 10536 | 29 | 10177 | 2 | 5368 | 13 | 10187 | 3 | 10667 | 11 | 4758 | 5 | 10940 | 3 | 4692 | 23 | 8265 | 23 | 7864 | 4 | 9476 | 3 |
| 53 BB 032 | 10342 | 13 | 11007 | 14 | 7430 | 39 | 3361 | 59 | 8955 | 38 | 9710 | 20 | 3216 | 49 | 7771 | 47 | 3902 | 54 | 6868 | 44 | 6293 | 47 | 8191 | 41 |
| 54 HTMH-5108 | 10286 | 14 | 11101 | 10 | 7365 | 41 | 3850 | 52 | 9965 | 5 | 9707 | 23 | 3608 | 35 | 7119 | 53 | 5060 | 12 | 11158 | 2 | 7330 | 15 | 9395 | 4 |
| 55 PRO-392 | 9637 | 26 | 10523 | 30 | 5737 | 66 | 4738 | 31 | 9326 | 16 | 10560 | 12 | 3829 | 24 | 10658 | 7 | 4529 | 31 | 8504 | 20 | 7616 | 8 | 8834 | 10 |
| 56 BRMH-1 | 7604 | 56 | 7898 | 61 | 6206 | 60 | 4694 | 32 | 6907 | 61 | 7415 | 58 | 3445 | 43 | 7976 | 42 | 3240 | 64 | 7067 | 39 | 5829 | 54 | 6728 | 61 |

| SI No PEDIGREE | ZN 4 | | | | | | | | | | | | | | | | ZN 5 | | | | OVL | | | |
|----------------------|-------------|----|-------------|----|-------------|----|--------------|----|-------------|----|-------------|----|-------------|----|--------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | BANS | R | BHIL | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 57 REH-2012-3 | 5282 | 66 | 7156 | 64 | 5349 | 67 | 2176 | 68 | 6165 | 65 | 5549 | 66 | 3004 | 60 | 6921 | 55 | 2933 | 66 | 6243 | 56 | 4930 | 63 | 6094 | 65 |
| 58 JH31623 | 8713 | 43 | 8965 | 54 | 8705 | 16 | 6828 | 2 | 8992 | 34 | 8107 | 51 | 3211 | 50 | 7803 | 46 | 3485 | 59 | 8661 | 16 | 6253 | 49 | 8396 | 36 |
| 59 JH31638 | 7279 | 59 | 9318 | 47 | 9040 | 10 | 5569 | 9 | 8953 | 39 | 7734 | 55 | 3033 | 59 | 6530 | 59 | 4242 | 44 | 4796 | 67 | 5267 | 61 | 7750 | 53 |
| 60 JH12010(JH12019) | 9280 | 30 | 6921 | 67 | 6799 | 50 | 4397 | 44 | 7874 | 56 | 8857 | 38 | 3308 | 47 | 6353 | 60 | 3348 | 62 | 6044 | 59 | 5582 | 59 | 7457 | 56 |
| 61 JH12171 | 7911 | 52 | 9051 | 51 | 6189 | 61 | 4088 | 48 | 7179 | 60 | 8695 | 44 | 3680 | 30 | 5445 | 63 | 4000 | 51 | 5859 | 61 | 5536 | 60 | 7087 | 58 |
| 62 JH12003 | 7250 | 60 | 11050 | 11 | 8578 | 19 | 5639 | 5 | 9190 | 22 | 9443 | 31 | 4780 | 4 | 9031 | 29 | 5044 | 13 | 6839 | 45 | 7027 | 25 | 8472 | 30 |
| 63 JH12247 | 8252 | 49 | 9366 | 45 | 8099 | 25 | 3457 | 58 | 8555 | 48 | 8591 | 45 | 4727 | 6 | 8704 | 34 | 4884 | 20 | 9714 | 7 | 7324 | 16 | 8433 | 33 |
| 64 HKH421 | 6367 | 64 | 7733 | 63 | 4432 | 68 | 3754 | 55 | 6448 | 64 | 6830 | 61 | 2960 | 63 | 5376 | 64 | 4403 | 38 | 4995 | 64 | 4913 | 64 | 6284 | 63 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 PMH1 | 7054 | 63 | 8429 | 57 | 7042 | 46 | 5586 | 7 | 8482 | 50 | 9761 | 19 | 5119 | 2 | 9031 | 28 | 4322 | 41 | 7122 | 38 | 7071 | 20 | 8307 | 38 |
| 66 PMH3 | 8847 | 41 | 9313 | 48 | 9208 | 7 | 6156 | 3 | 9412 | 12 | 9176 | 33 | 3654 | 32 | 9697 | 18 | 4608 | 28 | 7655 | 29 | 6958 | 30 | 8775 | 14 |
| 67 Seedtech-2324 | 7742 | 54 | 10684 | 23 | 8796 | 14 | 3809 | 54 | 8942 | 40 | 9285 | 32 | 3705 | 28 | 7828 | 45 | 4803 | 21 | 7050 | 40 | 6534 | 42 | 8100 | 47 |
| 68 BIO-9681 | 7752 | 53 | 9861 | 42 | 7298 | 42 | 3352 | 60 | 7826 | 57 | 7952 | 53 | 3068 | 57 | 6558 | 58 | 3592 | 57 | 7382 | 33 | 5711 | 55 | 7128 | 57 |
| Location Mean | 8978 | | 9860 | | 7647 | | 4571 | | 8720 | | 8977 | | 3700 | | 8409 | | 4382 | | 7539 | | 6601 | | 8124 | |
| C.D. (5%) | 836 | | 1834 | | 2372 | | 1483 | | 1783 | | 1674 | | 1066 | | 2836 | | 1039 | | 788 | | 1481 | | 1727 | |
| C.V. (%) | 5.77 | | 11.52 | | 19.2 | | 20.09 | | - | | 11.54 | | 17.84 | | 20.89 | | 14.69 | | 6.47 | | - | | - | |
| F (Prob) | 0 | | 0 | | 0 | | 0 | | - | | 0 | | 0 | | 0 | | 0 | | 0 | | - | | - | |
| Plot Size | 5.6 | | 6 | | 4.8 | | 4.8 | | - | | 6 | | 6 | | 4.8 | | 6 | | 4.8 | | - | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | 18-07 | | 26-06 | | 14-06 | | 15-07 | | - | | 5-07 | | 3-07 | | 29-06 | | 10-07 | | 30-06 | | - | | - | |
| Harvest Date | 3-12 | | 29-10 | | 10-10 | | 20-12 | | - | | - | | 10-10 | | - | | 16-11 | | 16-10 | | - | | - | |
| Irrigation Nos | 8 | | - | | 15 | | 2 | | - | | - | | - | | - | | - | | 2 | | - | | - | |
| Fertilizer Applied N | 150 | | - | | 150 | | 150 | | - | | 120 | | 150 | | - | | 120 | | 120 | | - | | - | |
| Fertilizer Applied P | 75 | | - | | 75 | | 75 | | - | | 60 | | 80 | | - | | 60 | | 90 | | - | | - | |
| Fertilizer Applied K | 40 | | - | | 75 | | 37.5 | | - | | 40 | | - | | - | | 40 | | - | | - | | - | |

BR18

TABLE No. 1 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH1 | | | | | | | | | | | | | | | | | | | | | | | | OV'L | |
|-------|--------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | | | | | ZN 5 | | | | | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN |
| 1 | IM8539 | 7.6 | - | - | - | 8.1 | 2.4 | 42.5 | 14.7 | 14.1 | 41.1 | 16.6 | 71.3 | 30.3 | - | 43.7 | 38.9 | 35.8 | - | 27.5 | 16 | - | 16.8 | 19.4 | 38.1 | 13.2 | 16.3 |
| 2 | IM8562 | - | 14 | - | - | 36.3 | - | 49.7 | 15.7 | 7.2 | 24.6 | 19.7 | 92.2 | 8.3 | - | 61.8 | 37.9 | 31.5 | - | 23.2 | 15.4 | - | 9.6 | 5.6 | 60.5 | 14.7 | 16.1 |
| 3 | IM8556 | - | - | 1.7 | - | - | - | 4.9 | - | 13.7 | 31.4 | 23.5 | 25.7 | - | - | 53 | 23 | - | - | 14.7 | - | - | 9.8 | 23.2 | 36.3 | 8.4 | 5.9 |
| 4 | IM8554 | 1.9 | 7.9 | - | - | 28.9 | - | 22.3 | 10.1 | 16.9 | 46.9 | - | 27.4 | - | - | 58.7 | 30.6 | 0.6 | - | 12.4 | - | - | 23.8 | 22.1 | 46.6 | 13.3 | 9.4 |
| 5 | II8017 | - | 29.4 | - | 5.5 | 0.9 | - | 23.1 | 1.1 | - | 62.4 | - | 24.1 | - | - | 28.4 | 22.2 | 6.6 | - | 4.3 | 24 | - | - | 8.4 | 14.1 | - | 3.1 |
| 6 | Siri4546 | - | - | - | - | - | - | 14.3 | - | - | 39.6 | - | 57.9 | - | 10.9 | 25.4 | 7.2 | 13.2 | - | 1.7 | - | - | 6.8 | 8.5 | 0.6 | - | - |
| 7 | Siri4527 | - | 5.4 | - | - | 0.5 | 4.5 | 39 | 12 | - | 33.4 | - | 69 | - | 0.6 | 29.6 | 23.9 | - | - | 6.6 | - | - | 16.7 | 5.1 | 36.9 | 9.1 | 5 |
| 8 | RMH-972 | - | 12.9 | - | - | 15.9 | - | 21.7 | 5.1 | 4.3 | 44.3 | 6.5 | 65.2 | - | - | 58.9 | 29.6 | 28.6 | - | 19.9 | - | - | - | 0.5 | - | - | 7.2 |
| 9 | Super GA-105 | - | 18.1 | - | 2.4 | 19.9 | - | 17.2 | 7.5 | 0.5 | 11.8 | - | 0.1 | 1 | 2.8 | 33.4 | 29.4 | - | - | 5.9 | 12.6 | - | 19.8 | 7.3 | - | 6 | 5.6 |
| 10 | Janahit | 11.6 | - | 3.5 | 4.5 | - | - | 22 | 0.7 | 6.1 | 8.9 | 20.1 | - | - | - | 39.3 | 32.3 | 10.2 | - | 10 | 6 | - | 10.7 | 38.3 | 6.8 | 6 | 6.9 |
| 11 | HTMH-5202 | - | 25.8 | - | - | 8.5 | 12.9 | 5.4 | 9.5 | - | 3.4 | 1.6 | 32.2 | 0.2 | 2.6 | 64.2 | 35.1 | 48.3 | - | 11.6 | 18.6 | - | 18.8 | 8 | - | 6.5 | 7.3 |
| 12 | HTMH-5404 | 18.4 | - | 0.3 | - | 14.5 | - | 13.8 | 7.1 | 4.4 | - | - | 44.6 | 7.9 | - | 21.8 | 27.5 | 11.5 | - | 8 | - | - | 19.9 | 20.2 | - | - | 3.5 |
| 13 | DMH-696 | 13.6 | - | - | 0.1 | - | - | 35.5 | 4.3 | - | 22.4 | 10 | 34.9 | - | 5.6 | 50.6 | 32.4 | 28.8 | - | 12.9 | - | - | 7 | 0.1 | - | - | 6 |
| 14 | FCH-11270 | 12.4 | 9.7 | 3.8 | 8.2 | - | - | 11.3 | - | 5.3 | 5.7 | - | 19.6 | 17.4 | - | 51.2 | 26.2 | 12.1 | - | 7.2 | 1.6 | - | - | - | 9.7 | - | 3.2 |
| 15 | FCH-11273 | - | 10.4 | - | 1.7 | - | - | 35.7 | - | - | 13.7 | - | 16.6 | - | 1.1 | 39 | 26.7 | 26.7 | 36.3 | 8.7 | - | - | - | 15.8 | 27.3 | - | 4.3 |
| 16 | VNR-31834 | 20.4 | 2.7 | 12.8 | 11.3 | 8.1 | 2.8 | 6.7 | 5.6 | - | 16.7 | - | 44.9 | - | - | 31.3 | 19.9 | 17.6 | - | 4.5 | 10.4 | - | 2 | - | 1.9 | - | 4.7 |
| 17 | VNR-31355 | - | 6.2 | - | - | 9.3 | - | 36.7 | 6.8 | 10.2 | - | 17 | 13.2 | - | - | 51.2 | 15.7 | 26.6 | - | 3.4 | 7.7 | - | 1.1 | 13.1 | - | - | 1.7 |
| 18 | TMMH-807 | 15.9 | - | - | - | - | - | 8.6 | - | - | 41.6 | - | 51.2 | - | - | 43.4 | 7.2 | - | - | 6.3 | - | - | - | - | - | - | - |
| 19 | KMH-2811 | - | - | - | - | 11.2 | - | 10 | 4.7 | - | 37.4 | - | 41.5 | 4.2 | - | 23.4 | 33.8 | - | - | 7.8 | 10.4 | - | - | 13 | - | - | 0 |
| 20 | JKMH-4029 | - | - | - | - | 11.5 | - | 10.5 | - | - | 9.9 | 2.3 | 42.2 | - | - | 30.3 | 18.4 | 9 | - | 1.8 | - | - | 0.9 | 24.5 | 1 | - | - |
| 21 | DAS-MH-104 | - | - | - | - | 21.8 | - | 17.2 | 5.1 | - | 34.1 | 15.6 | - | - | 9.8 | 45.2 | 26.6 | 18.3 | - | 7.2 | - | - | 0.9 | 20.5 | 20.7 | 0.7 | 3.3 |
| 22 | DAS-MH-105 | 9.4 | 15.7 | - | 5.1 | - | - | 22.8 | - | - | - | 2.3 | 21.1 | 28.1 | - | 64.9 | 27.2 | - | - | 9.3 | 16.4 | - | 12.5 | 22.8 | - | 5.4 | 5.3 |
| 23 | ASMH-777 | - | 2.2 | - | - | - | - | 14.8 | - | 3.6 | 19.7 | 0.8 | 27.7 | 5.6 | 6.3 | 38.7 | 26 | - | - | 10.5 | 0 | - | 14 | - | 22.4 | 5.8 | 4.5 |
| 24 | ASMH-333 | - | 5 | - | - | 1.2 | - | 22 | 0.4 | - | 9.6 | - | 46.9 | - | 1.9 | 44.2 | 25.7 | 19.6 | - | 5.2 | - | - | - | - | - | - | - |
| 25 | PRO-391 | - | 0.3 | - | - | 16.1 | - | 44.8 | 6.4 | - | 23.7 | - | 11.8 | - | - | 16.7 | 32.5 | - | - | - | - | - | - | 4.8 | - | - | - |
| 26 | KH-2192 | - | 15.1 | - | - | 14.1 | - | 20.7 | 2.6 | - | 19.3 | - | - | - | - | 44.2 | 9 | 33.1 | - | - | - | - | - | - | 26.8 | - | - |
| 27 | B-54 | 15.1 | - | - | - | 35.5 | - | - | - | 1.8 | 11.2 | - | 62.1 | - | - | 30.1 | 27.4 | 31 | - | 9.7 | 3.8 | - | - | 1.9 | 35.5 | - | 1.4 |
| 28 | polo | - | - | - | - | - | - | - | - | - | - | - | 7.9 | - | - | 5.8 | - | 2.1 | - | - | - | - | - | - | - | - | - |
| 29 | CP-999 | 13.5 | - | - | - | - | - | 17.8 | - | 21.1 | 24.1 | - | 16.7 | - | 6.3 | 61.4 | 35.7 | 13.6 | 4.1 | 15.5 | 23 | - | 14.7 | 18 | - | 4.8 | 7 |
| 30 | GK-3155 | - | - | - | - | - | - | 8.1 | - | - | 9.3 | - | - | - | - | 31.8 | 10.3 | 24.7 | 0 | - | - | - | - | - | 21.1 | - | - |
| 31 | GK-3158 | 13.7 | 14 | - | 2.2 | 6.2 | - | 20.9 | 1.7 | 15.9 | 1.4 | 16.1 | 29 | - | 15.2 | 38.7 | 24.5 | - | - | 10.6 | 11 | - | 0.2 | - | - | - | 5.8 |
| 32 | Super-6768 | - | - | - | - | - | - | 16.9 | - | - | 7.1 | - | 26.2 | - | 4 | 30.8 | 4.5 | - | - | - | - | - | - | - | - | - | - |
| 33 | Super-1177 | - | - | 4.5 | - | - | - | - | - | - | - | - | 32.1 | - | - | 23.5 | 28.1 | 18.4 | - | 6 | - | - | - | 2.6 | 18.6 | - | - |
| 34 | NMH-1603 | 0.9 | - | - | - | - | - | - | - | - | 33.3 | - | 43.7 | - | 0.5 | 50.1 | 30.8 | 8.7 | - | 7.7 | - | - | - | - | 4.6 | - | - |
| 35 | CMH10-548 | - | - | 8.4 | 0.4 | - | - | 7 | 0.3 | 8.8 | 30.8 | - | 54.3 | - | 16.9 | 25.7 | 34.2 | 5 | - | 13.8 | - | - | - | 17.5 | 32 | - | 5 |
| 36 | CMH10-550 | - | - | - | - | - | - | 21.4 | - | 2.8 | 3.2 | 3.8 | 39.5 | 4.1 | - | 17.9 | 17.5 | 8.4 | - | 6.2 | - | - | 0.3 | 42.7 | 12.4 | 3.3 | 1.8 |

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH1 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | | | | OV'L | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN |
| 37 | CMH11-583 | 1 | - | - | - | 7.5 | - | 13.9 | - | 7 | 10.1 | 8.6 | 33.3 | 1.7 | 3.4 | 9 | 18.8 | 7.8 | - | 9.1 | - | - | 10.3 | 14.9 | 14.4 | 2.7 | 3.8 |
| 38 | CMH11-586 | - | 6.1 | - | - | 10.1 | - | 23.7 | 0.9 | 8.2 | - | 5.2 | 32 | - | - | 36.3 | 30.1 | 25.4 | - | 9.3 | - | - | 3.5 | 2 | 24.4 | - | 4.3 |
| 39 | CMH11-591 | - | 3.3 | - | - | 0.1 | - | - | - | 1.4 | 41.7 | 1.6 | 34.3 | - | - | 0.4 | 19.7 | 10.1 | - | 7.6 | - | - | - | 13.6 | - | - | - |
| 40 | CMH11-660 | - | - | - | - | - | - | 39.1 | 0.9 | 8.4 | 14.6 | - | 23.4 | - | - | 38.1 | 21.2 | 15.7 | - | 7.9 | - | 9.4 | 13.8 | - | - | - | 1.2 |
| 41 | BH41036 | 1.8 | - | 3.4 | - | - | - | - | - | - | 6.7 | 12.2 | 38.2 | 1.5 | - | 18.7 | 4.8 | - | - | 3.3 | - | - | - | - | 3.2 | - | - |
| 42 | BH41127 | - | - | - | - | - | - | - | - | - | - | - | 53.2 | - | - | 2.7 | - | 6.3 | - | - | - | - | - | - | 27.4 | - | - |
| 43 | BH41642 | - | - | - | - | - | - | 22.5 | - | - | - | - | 49.5 | - | - | 28.6 | 27.4 | - | - | 0.8 | - | - | - | - | 19.9 | - | - |
| 44 | BH41151 | - | - | - | - | - | - | - | - | - | - | - | 32 | - | - | 14.4 | - | 9.1 | - | - | - | - | - | - | 4 | - | - |
| 45 | GH-0945 | - | - | 8.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 46 | GH-1102 | - | - | - | - | - | - | - | - | - | - | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | GH-1001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.8 | - | - | - |
| 48 | GH-1043 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.6 | - | - | - | - | - | - | - | - | - | - | - |
| 49 | DKC9133 | - | 0.4 | - | - | 11.3 | - | 17.1 | 6.6 | - | 1.8 | - | 0.6 | - | - | 31.5 | 24 | 22.4 | - | - | - | - | 27.9 | 14.3 | 40.5 | 10.5 | 2 |
| 50 | X35D612 | - | 12.1 | 2.9 | 5.3 | 5.3 | - | 18.1 | 5.4 | - | 14.7 | 18.6 | - | 2.4 | 13 | 50.1 | 10.7 | 1.6 | - | 5.8 | - | - | - | 10.5 | 17.2 | - | 4.3 |
| 51 | X35D613 | - | - | - | - | 0.8 | - | 15 | - | 2.8 | 7.3 | 3.6 | 14.7 | - | 0.2 | 44.6 | 13.5 | 23.1 | - | 8.1 | 5.5 | - | - | 2 | 8.6 | - | - |
| 52 | X35D601 | 22.3 | 29.2 | 5.4 | 18.5 | 2.1 | - | 0.4 | - | 14 | 49.7 | - | 43.8 | 3.1 | 19.9 | 27.7 | 25 | 44.5 | - | 20.1 | 9.3 | - | 21.1 | 8.6 | 16 | 11.2 | 14.1 |
| 53 | BB 032 | - | - | - | - | 38.1 | - | 6.5 | 7 | - | 3.5 | - | 52.6 | - | - | 46.6 | 30.6 | 5.5 | - | 5.6 | - | - | - | - | - | - | - |
| 54 | HTMH-5108 | - | 4.7 | 12 | 4.3 | 31.7 | - | 66.2 | 21.8 | - | 31.6 | 19.4 | 69.4 | 0.2 | 21.8 | 45.8 | 31.7 | 4.6 | - | 17.5 | - | - | - | 17.1 | 56.7 | 3.7 | 13.1 |
| 55 | PRO-392 | 11.8 | - | - | - | 10 | - | 24.7 | 3.2 | 11.9 | - | 17.4 | 48 | - | - | 36.6 | 24.8 | - | - | 10 | 8.2 | - | 18 | 4.8 | 19.4 | 7.7 | 6.3 |
| 56 | BRMH-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.8 | - | - | - | - | - | - | - | - | - | - | - |
| 57 | REH-2012-3 | - | - | - | - | - | - | 11.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 58 | JH31623 | 13 | - | - | - | 3.9 | - | 23.9 | 4.1 | 5.5 | 7.9 | - | 37.3 | - | - | 23.5 | 6.4 | 23.6 | 22.2 | 6 | - | - | - | - | 21.6 | - | 1.1 |
| 59 | JH31638 | - | - | - | - | - | - | - | - | - | 29.6 | - | 40.3 | - | - | 3.2 | 10.5 | 28.4 | - | 5.6 | - | - | - | - | - | - | - |
| 60 | JH12010(JH12019) | - | - | 3.1 | - | 5 | - | 8.8 | - | - | - | - | 3.6 | - | - | 31.6 | - | - | - | - | - | - | - | - | - | - | - |
| 61 | JH12171 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12.2 | 7.4 | - | - | - | - | - | - | - | - | - | - |
| 62 | JH12003 | - | - | 10.2 | - | 1.8 | - | - | - | 1 | - | - | 62.3 | - | - | 2.8 | 31.1 | 21.8 | 0.9 | 8.4 | - | - | - | 16.7 | - | - | 2 |
| 63 | JH12247 | - | 6.8 | - | - | 13.7 | - | 30 | 6.4 | - | 5.2 | 1.6 | 44.3 | - | 2.6 | 17 | 11.1 | 15 | - | 0.9 | - | - | - | 13 | 36.4 | 3.6 | 1.5 |
| 64 | HKH421 | - | - | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.9 | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 66 | PMH3 | 4.2 | 2.5 | 11.2 | 6.2 | - | - | 15.1 | - | 8.2 | 20.3 | - | 26.2 | - | 5.4 | 25.4 | 10.5 | 30.8 | 10.2 | 11 | - | - | 7.4 | 6.6 | 7.5 | - | 5.6 |
| 67 | Seedtech-2324 | - | - | - | - | 2.3 | - | - | - | 3 | 7.9 | 1.9 | 34.9 | - | - | 9.8 | 26.8 | 24.9 | - | 5.4 | - | - | - | 11.1 | - | - | - |
| 68 | BIO-9681 | - | - | - | - | - | - | - | - | - | - | - | 18.6 | - | - | 9.9 | 17 | 3.6 | - | - | - | - | - | - | 3.7 | - | - |

BR20

TABLE No. 1 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH3 | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | | | | OV/L | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN |
| 1 | IM8539 | 3.3 | - | - | - | 8.5 | 22.4 | 23.9 | 18 | 5.4 | 17.3 | 27.5 | 35.7 | 38 | - | 14.6 | 25.7 | 3.9 | - | 14.9 | 23.4 | - | 8.8 | 12 | 28.4 | 15 | 10.1 |
| 2 | IM8562 | - | 11.2 | - | - | 36.8 | - | 30.1 | 19.1 | - | 3.6 | 30.9 | 52.3 | 14.8 | - | 29 | 24.8 | 0.6 | - | 11.1 | 22.7 | - | 2.1 | - | 49.3 | 16.6 | 9.9 |
| 3 | IM8556 | - | - | - | - | - | - | - | - | 5 | 9.2 | 35.2 | - | 5.2 | - | 22 | 11.3 | - | - | 3.4 | 4.1 | 4.9 | 2.2 | 15.6 | 26.8 | 10.2 | 0.3 |
| 4 | IM8554 | - | 5.2 | - | - | 29.3 | 3.3 | 6.3 | 13.3 | 8 | 22.1 | - | 1 | - | - | 26.5 | 18.2 | - | - | 1.3 | 5.8 | - | 15.3 | 14.5 | 36.4 | 15.1 | 3.5 |
| 5 | II8017 | - | 26.2 | - | - | 1.3 | 4.2 | 6.9 | 4 | - | 35 | - | - | - | - | 2.4 | 10.6 | - | - | - | 31.9 | - | - | 1.7 | 6.1 | 1.5 | - |
| 6 | Siri4546 | - | - | - | - | - | 3.9 | - | - | - | 16 | - | 25.1 | - | 5.3 | - | - | - | - | - | - | 0.5 | - | 1.8 | - | - | - |
| 7 | Siri4527 | - | 2.8 | - | - | 0.8 | 24.9 | 20.8 | 15.3 | - | 10.9 | - | 33.9 | - | - | 3.3 | 12.1 | - | - | - | 4.7 | 13.2 | 8.7 | - | 27.3 | 10.9 | - |
| 8 | RMH-972 | - | 10.1 | - | - | 16.3 | 2 | 5.7 | 8.1 | - | 19.9 | 16.5 | 30.9 | - | - | 26.7 | 17.3 | - | - | 8.1 | - | - | - | - | - | - | 1.5 |
| 9 | Super GA-105 | - | 15.2 | - | - | 20.3 | 8.8 | 1.9 | 10.7 | - | - | 9.1 | - | 7 | - | 6.4 | 17.1 | - | - | - | 19.7 | 21.9 | 11.6 | 0.7 | - | 7.7 | - |
| 10 | Janahit | 7.1 | - | - | - | - | 10.9 | 6.1 | 3.6 | - | - | 31.4 | - | 3.7 | - | 11.1 | 19.7 | - | - | - | 12.8 | - | 3.1 | 29.7 | - | 7.7 | 1.2 |
| 11 | HTMH-5202 | - | 22.7 | - | - | 8.9 | 35 | - | 12.7 | - | - | 11.1 | 4.8 | 6.1 | - | 30.9 | 22.3 | 13.4 | - | 0.6 | 26.1 | 11.9 | 10.6 | 1.3 | - | 8.2 | 1.6 |
| 12 | HTMH-5404 | 13.6 | - | - | - | 14.9 | 15.4 | - | 10.2 | - | - | 7.1 | 14.6 | 14.4 | - | - | 15.4 | - | - | - | 5.2 | - | 11.7 | 12.7 | - | - | - |
| 13 | DMH-696 | 9.1 | - | - | - | - | 9.8 | 17.7 | 7.3 | - | 1.7 | 20.3 | 6.9 | - | 0.2 | 20.1 | 19.8 | - | - | 1.8 | 4 | 6.6 | - | - | - | - | 0.4 |
| 14 | FCH-11270 | 7.9 | 7 | - | 1.9 | - | 7.4 | - | - | - | - | - | - | 24.4 | - | 20.5 | 14.3 | - | - | - | 8.1 | - | - | - | 2.1 | - | - |
| 15 | FCH-11273 | - | 7.7 | - | - | - | 5.4 | 17.9 | 1.7 | - | - | - | - | - | - | 10.8 | 14.7 | - | 23.7 | - | - | - | 19.4 | - | 8.6 | 18.4 | 1.5 |
| 16 | VNR-31834 | 15.6 | 0.2 | 1.4 | 4.8 | 8.5 | 22.9 | - | 8.7 | - | - | - | 14.8 | - | - | 4.7 | 8.5 | - | - | - | 17.4 | - | - | - | - | 0.6 | - |
| 17 | VNR-31355 | - | 3.5 | - | - | 9.6 | 2.3 | 18.8 | 9.9 | 1.8 | - | 28 | - | - | - | 20.6 | 4.7 | - | - | - | 14.5 | 2.1 | - | 6.1 | - | 0.9 | - |
| 18 | TMMH-807 | 11.2 | - | - | - | - | - | - | - | - | 17.6 | - | 19.8 | 1.5 | - | 14.3 | - | - | - | - | - | - | 24.7 | - | - | - | - |
| 19 | KMH-2811 | - | - | - | - | 11.6 | 14.6 | - | 7.8 | - | 14.2 | - | 12.2 | 10.4 | - | - | 21.1 | - | - | - | 17.4 | 2.4 | - | 6 | - | - | - |
| 20 | JKMH-4029 | - | - | - | - | 11.9 | - | - | 0.3 | - | - | 11.9 | 12.7 | - | - | 3.9 | 7.1 | - | - | - | - | 16.4 | - | 16.8 | - | - | - |
| 21 | DAS-MH-104 | - | - | - | - | 22.2 | - | 1.9 | 8.2 | - | 11.5 | 26.5 | - | - | 4.2 | 15.8 | 14.6 | - | - | - | 5.8 | - | - | 13 | 12.3 | 2.4 | - |
| 22 | DAS-MH-105 | 5 | 12.8 | - | - | - | - | 6.7 | - | - | - | 11.9 | - | 35.7 | - | 31.5 | 15.1 | - | - | - | 23.8 | 3.2 | 4.8 | 15.1 | - | 7.1 | - |
| 23 | ASMH-777 | - | - | - | - | - | - | - | - | - | - | 10.3 | 1.2 | 11.9 | 0.9 | 10.6 | 14.1 | - | - | - | 6.4 | 23.1 | 6.1 | - | 13.8 | 7.5 | - |
| 24 | ASMH-333 | - | 2.4 | - | - | 1.6 | 2.6 | 6.1 | 3.3 | - | - | - | 16.4 | - | - | 15 | 13.8 | - | - | - | - | - | - | - | - | - | - |
| 25 | PRO-391 | - | - | - | - | 16.5 | - | 25.8 | 9.5 | - | 2.8 | - | - | - | - | - | 19.9 | - | - | - | - | - | - | - | - | - | - |
| 26 | KH-2192 | - | 12.3 | - | - | 14.5 | - | 4.9 | 5.6 | - | - | 7.1 | - | - | - | 15 | - | 1.8 | - | - | - | 1.1 | - | - | 18 | - | - |
| 27 | B-54 | 10.5 | - | - | - | 36 | - | - | - | - | - | - | 28.4 | - | - | 3.7 | 15.3 | 0.2 | - | - | 10.4 | - | - | - | 26 | - | - |
| 28 | polo | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | CP-999 | 8.9 | - | - | - | - | 1.3 | 2.3 | - | 11.9 | 3.1 | - | - | 1.7 | 0.9 | 28.7 | 22.8 | - | - | 4.1 | 30.8 | - | 6.8 | 10.7 | - | 6.5 | 1.3 |
| 30 | GK-3155 | - | - | - | - | - | - | - | - | - | - | 6.7 | - | - | - | 5.1 | - | - | - | - | - | - | - | - | 12.7 | - | - |
| 31 | GK-3158 | 9.1 | 11.2 | - | - | 6.6 | 2.2 | 5.1 | 4.6 | 7.1 | - | 27.1 | 2.2 | - | 9.3 | 10.6 | 12.7 | - | - | - | 18.1 | 19.9 | - | - | - | 1.6 | 0.1 |
| 32 | Super-6768 | - | - | - | - | - | - | 1.6 | - | - | - | - | - | - | - | 4.3 | - | - | - | - | - | - | - | - | - | - | - |
| 33 | Super-1177 | - | - | - | - | - | - | - | - | - | - | 3.5 | 4.7 | 0.4 | - | - | 15.9 | - | - | - | 3.5 | 18.7 | - | - | 10.3 | 1.4 | - |
| 34 | NMH-1603 | - | - | - | - | - | - | - | - | - | 10.8 | - | 13.8 | - | - | 19.7 | 18.4 | - | - | - | - | - | - | - | - | - | - |
| 35 | CMH10-548 | - | - | - | - | - | 16.3 | - | 3.2 | 0.5 | 8.7 | 5.4 | 22.3 | - | 10.9 | 0.3 | 21.4 | - | - | 2.5 | - | - | - | 10.3 | 22.8 | - | - |
| 36 | CMH10-550 | - | - | - | - | - | 7 | 5.5 | 1.5 | - | - | 13.6 | 10.6 | 10.3 | - | - | 6.4 | - | - | - | 5.3 | - | - | 33.9 | 4.5 | 5 | - |

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH3 | | | | | | | | | | | | | | | | | | | | | | | | OV'L | | |
|--------|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | | | | | ZN 5 | | | | | | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN | |
| 37 | CMH11-583 | - | - | - | - | 7.9 | - | - | 1.7 | - | - | 18.8 | 5.6 | 7.8 | - | - | 7.5 | - | - | - | - | 14 | 2.7 | 7.8 | 6.5 | 4.4 | - | |
| 38 | CMH11-586 | - | 3.5 | - | - | 10.5 | - | 7.5 | 3.9 | - | - | 15.1 | 4.6 | - | - | 8.6 | 17.8 | - | - | - | - | - | - | - | 15.8 | - | - | |
| 39 | CMH11-591 | - | 0.8 | - | - | 0.4 | - | - | - | - | 17.7 | 11.1 | 6.4 | - | - | - | 8.3 | - | - | - | - | 19.7 | - | 6.6 | - | - | - | |
| 40 | CMH11-660 | - | - | - | - | - | - | 20.9 | 3.8 | 0.2 | - | - | - | - | - | 10.1 | 9.7 | - | - | - | - | 53.2 | 6 | - | - | - | - | |
| 41 | BH41036 | - | - | - | - | - | - | - | - | - | - | 22.8 | 9.5 | 7.5 | - | - | - | - | - | - | - | 9.2 | - | - | - | - | - | |
| 42 | BH41127 | - | - | - | - | - | - | - | - | - | - | - | 21.4 | - | - | - | - | - | - | - | - | 25.8 | - | - | 18.5 | - | - | |
| 43 | BH41642 | - | - | - | - | - | - | 6.5 | - | - | - | - | 18.4 | - | - | 2.5 | 15.3 | - | - | - | - | - | - | - | 11.5 | - | - | |
| 44 | BH41151 | - | - | - | - | - | - | - | - | - | - | - | 4.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 45 | GH-0945 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 46 | GH-1102 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 47 | GH-1001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 48 | GH-1043 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.2 | - | - | - | - | - | |
| 49 | DKC9133 | - | - | - | - | 11.7 | 14.8 | 1.8 | 9.7 | - | - | - | - | - | - | 4.8 | 12.2 | - | - | - | 3.5 | - | 19.1 | 7.2 | 30.7 | 12.3 | - | |
| 50 | X35D612 | - | 9.3 | - | - | 5.7 | 16.5 | 2.6 | 8.5 | - | - | 29.7 | - | 8.5 | 7.3 | 19.6 | 0.2 | - | - | - | - | 6.7 | - | 3.7 | 9 | 0.6 | - | |
| 51 | X35D613 | - | - | - | - | 1.2 | - | - | - | - | - | 13.3 | - | - | - | 15.3 | 2.7 | - | - | - | 12.2 | 15.8 | - | - | 1 | 0.2 | - | |
| 52 | X35D601 | 17.4 | 26 | - | 11.6 | 2.5 | - | - | - | 5.4 | 24.4 | - | 14 | 9.3 | 13.8 | 1.8 | 13.1 | 10.5 | - | 8.2 | 16.2 | 30.2 | 12.8 | 1.8 | 8 | 13 | 8 | |
| 53 | BB 032 | - | - | - | - | 38.6 | - | - | 10.1 | - | - | 4.4 | 21 | - | - | 16.9 | 18.2 | - | - | - | 5.8 | - | - | - | - | - | - | |
| 54 | HTMH-5108 | - | 2.1 | 0.8 | - | 32.2 | 1.5 | 44.5 | 25.3 | - | 9.3 | 30.6 | 34.3 | 6.2 | 15.6 | 16.3 | 19.2 | - | - | 5.9 | 5.8 | - | - | 9.8 | 45.8 | 5.3 | 7.1 | |
| 55 | PRO-392 | 7.3 | - | - | - | 10.4 | - | 8.4 | 6.2 | 3.4 | - | 28.4 | 17.2 | 2.1 | - | 8.9 | 13 | - | - | - | 15.1 | 4.8 | 9.9 | - | 11.1 | 9.5 | 0.7 | |
| 56 | BRMH-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 57 | REH-2012-3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 58 | JH31623 | 8.4 | - | - | - | 4.3 | 9.5 | 7.7 | 7.1 | - | - | - | 8.8 | - | - | - | - | - | 10.9 | - | - | - | - | - | 13.1 | - | - | |
| 59 | JH31638 | - | - | - | - | - | 9.8 | - | - | - | 7.7 | - | 11.2 | 1.5 | - | - | 0.1 | - | - | - | - | - | - | - | - | - | - | |
| 60 | JH12010(JH12019) | - | - | - | - | 5.4 | - | - | - | - | - | - | - | 1.2 | - | 4.9 | - | - | - | - | - | - | - | - | - | - | - | |
| 61 | JH12171 | - | - | - | - | - | 18.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | - | - | - | |
| 62 | JH12003 | - | - | - | - | 2.1 | 1.6 | - | - | - | - | - | 28.6 | 3.7 | - | - | 18.7 | - | - | - | 2.9 | 30.8 | - | 9.5 | - | 1 | - | |
| 63 | JH12247 | - | 4.2 | - | - | 14.1 | 2 | 12.9 | 9.5 | - | - | 11.1 | 14.4 | - | - | - | 0.6 | - | - | - | - | 29.4 | - | 6 | 26.9 | 5.3 | - | |
| 64 | HKH421 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | - | - | - | - | 0.4 | 19.6 | - | 2.9 | - | - | 9.4 | - | 6 | - | - | - | - | - | - | 6.4 | 40.1 | - | - | - | - | 1.6 | - |
| 66 | PMH3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 67 | Seedtech-2324 | - | - | - | - | 2.6 | - | - | - | - | - | 11.5 | 6.9 | - | - | - | 14.7 | - | - | - | 1.2 | 1.4 | - | 4.2 | - | - | - | |
| 68 | BIO-9681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.9 | - | - | - | - | - | - | - | - | - | - | - |

BR22

TABLE No. 1 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324 | | | | | | | | | | | | | | | | | | | | | | | | OV'L | |
|-------|--------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | | | | | ZN 5 | | | | | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN |
| 1 | IM8539 | 23.4 | 5.1 | - | - | 5.7 | 58.3 | 45.1 | 33.3 | 10.8 | 30.8 | 14.3 | 26.9 | 59.4 | - | 31 | 9.6 | 8.7 | 42 | 21 | 22 | - | 34.7 | 7.4 | 39.5 | 22.4 | 19.2 |
| 2 | IM8562 | 9.2 | 36.5 | - | 7.6 | 33.3 | 18.5 | 52.4 | 34.4 | 4.1 | 15.5 | 17.4 | 42.4 | 32.6 | - | 47.4 | 8.8 | 5.3 | 0.1 | 16.9 | 21.3 | - | 26.5 | - | 62.2 | 24.2 | 19.1 |
| 3 | IM8556 | 3.3 | - | 2 | - | - | 24.4 | 6.8 | 6.9 | 10.4 | 21.8 | 21.2 | - | 21.5 | - | 39.4 | - | - | 18.2 | 8.8 | 2.9 | 3.5 | 26.6 | 10.9 | 37.7 | 17.3 | 8.6 |
| 4 | IM8554 | 16.9 | 29.2 | - | 5.1 | 26 | 33.5 | 24.5 | 27.8 | 13.5 | 36.2 | - | - | 6.3 | - | 44.6 | 3.1 | - | 17.2 | 6.7 | 4.5 | - | 42.9 | 9.9 | 48.1 | 22.6 | 12.2 |
| 5 | II8017 | 7.9 | 54.9 | - | 16.5 | - | 34.7 | 25.3 | 17.4 | - | 50.6 | - | - | - | - | 17 | - | - | 7.7 | - | 30.4 | - | - | - | 15.2 | 8.1 | 5.8 |
| 6 | Siri4546 | - | 19.2 | - | 5.5 | - | 34.3 | 16.3 | 8.9 | - | 29.4 | - | 17 | 9.4 | 14.4 | 14.2 | - | - | - | - | - | - | 23.2 | - | 1.6 | 4.3 | 0.9 |
| 7 | Siri4527 | - | 26.2 | - | - | - | 61.5 | 41.5 | 30.1 | - | 23.7 | - | 25.2 | 2 | 3.7 | 18.1 | - | - | 3 | 1.1 | 3.4 | 11.6 | 34.6 | - | 38.3 | 18 | 7.7 |
| 8 | RMH-972 | 7.3 | 35.2 | - | 4.5 | 13.3 | 31.8 | 23.9 | 22 | 1.3 | 33.8 | 4.4 | 22.5 | 8.4 | 2.2 | 44.8 | 2.2 | 3 | 37 | 13.7 | - | - | 5.2 | - | - | - | 9.9 |
| 9 | Super GA-105 | 14.4 | 41.5 | - | 13.1 | 17.2 | 40.6 | 19.3 | 24.9 | - | 3.6 | - | - | 23.6 | 5.9 | 21.6 | 2.1 | - | 17.3 | 0.5 | 18.3 | 20.2 | 38.2 | - | - | 14.7 | 8.3 |
| 10 | Janahit | 28 | 19.7 | 3.8 | 15.4 | - | 43.4 | 24.2 | 17 | 3 | 0.9 | 17.8 | - | 19.8 | 0.8 | 27 | 4.4 | - | 46.3 | 4.3 | 11.5 | - | 27.7 | 24.5 | 7.9 | 14.7 | 9.7 |
| 11 | HTMH-5202 | - | 50.6 | - | 3.7 | 6.1 | 74.6 | 7.3 | 27.2 | - | - | - | - | 22.6 | 5.8 | 49.6 | 6.6 | 18.7 | - | 5.9 | 24.6 | 10.4 | 37 | - | - | 15.2 | 10.1 |
| 12 | HTMH-5404 | 35.8 | - | 0.6 | 3.9 | 12 | 49.2 | 15.8 | 24.4 | 1.3 | - | - | 7.1 | 32.1 | - | 11 | 0.6 | - | 31.5 | 2.5 | 4 | - | 38.4 | 8.1 | - | 5.9 | 6.1 |
| 13 | DMH-696 | 30.3 | 15.1 | - | 10.6 | - | 41.9 | 37.9 | 21.2 | - | 13.4 | 7.9 | - | 7.1 | 8.8 | 37.2 | 4.4 | 3.1 | 26.6 | 7.1 | 2.8 | 5.1 | 23.4 | - | - | 3.4 | 8.7 |
| 14 | FCH-11270 | 28.9 | 31.3 | 4.1 | 19.6 | - | 38.8 | 13.3 | 10.4 | 2.3 | - | - | - | 43.6 | - | 37.7 | - | - | 38.8 | 1.7 | 6.9 | - | 13.5 | - | 10.8 | 3.1 | 5.9 |
| 15 | FCH-11273 | 13.3 | 32.2 | - | 12.4 | - | 36.2 | 38.1 | 14.8 | - | 5.4 | - | - | 6.6 | 4.2 | 26.7 | - | 1.4 | 99.9 | 3.1 | - | 17.7 | 12 | 4.2 | 28.6 | 8.1 | 7 |
| 16 | VNR-31834 | 38.1 | 23 | 13.1 | 23 | 5.7 | 58.9 | 8.6 | 22.7 | - | 8.2 | - | 7.4 | 10.6 | 0.6 | 19.6 | - | - | - | - | 16.1 | - | 17.7 | - | 3 | 7.1 | 7.4 |
| 17 | VNR-31355 | 4.7 | 27.1 | - | 5.2 | 6.8 | 32.2 | 39.2 | 24.1 | 7 | - | 14.7 | - | - | - | 37.8 | - | 1.3 | 36.5 | - | 13.2 | 0.7 | 16.7 | 1.8 | - | 7.4 | 4.3 |
| 18 | TMMH-807 | 32.9 | - | - | 4 | - | 26.7 | 10.5 | 2 | - | 31.2 | - | 12 | 17.2 | - | 30.7 | - | - | 30.8 | 0.9 | - | 23 | 6.7 | - | - | 1.1 | 1.5 |
| 19 | KMH-2811 | - | - | - | - | 8.7 | 48.1 | 12 | 21.6 | - | 27.4 | - | 4.9 | 27.5 | - | 12.4 | 5.6 | - | 30 | 2.3 | 16 | 1 | 15.3 | 1.7 | - | 3.8 | 2.6 |
| 20 | JKMH-4029 | - | - | - | - | 9 | 19.6 | 12.5 | 13.3 | - | 1.9 | 0.4 | 5.4 | - | - | 18.7 | - | - | 28.5 | - | - | 14.8 | 16.4 | 12 | 2 | 4.7 | - |
| 21 | DAS-MH-104 | 11.4 | 15.9 | - | 3.4 | 19 | 28.9 | 19.4 | 22.1 | - | 24.4 | 13.4 | - | - | 13.2 | 32.3 | - | - | 37.7 | 1.7 | 4.6 | - | 16.4 | 8.4 | 21.9 | 9 | 6 |
| 22 | DAS-MH-105 | 25.5 | 38.5 | - | 16.2 | - | 27 | 25 | 7 | - | - | 0.4 | - | 56.8 | - | 50.3 | 0.3 | - | 20 | 3.7 | 22.4 | 1.8 | 29.8 | 10.5 | - | 14 | 8 |
| 23 | ASMH-777 | 7.6 | 22.4 | - | 6.2 | - | 27.9 | 16.9 | 6.8 | 0.6 | 11 | - | - | 29.2 | 9.6 | 26.4 | - | - | 13.4 | 4.8 | 5.2 | 21.4 | 31.5 | - | 23.6 | 14.5 | 7.1 |
| 24 | ASMH-333 | - | 25.7 | - | 0.1 | - | 32.6 | 24.2 | 16.6 | - | 1.6 | - | 8.9 | - | 5 | 31.4 | - | - | - | - | - | - | 0.6 | - | - | - | 0.8 |
| 25 | PRO-391 | 10.5 | 20.2 | - | 8.5 | 13.5 | 13.7 | 47.4 | 23.6 | - | 14.7 | - | - | 13.2 | - | 6.3 | 4.5 | - | 3.3 | - | - | - | - | - | - | - | - |
| 26 | KH-2192 | - | 37.8 | - | - | 11.5 | 25.7 | 22.8 | 19.2 | - | 10.6 | - | - | 9.4 | - | 31.4 | - | 6.6 | - | - | - | - | 0.7 | - | 28.1 | 2.9 | 0.1 |
| 27 | B-54 | 32 | - | - | - | 32.5 | - | - | 8.2 | - | 3.1 | - | 20.1 | 8.6 | - | 18.5 | 0.5 | 4.9 | 20.2 | 4.1 | 9.1 | - | - | - | 36.9 | 5.5 | 4 |
| 28 | polo | - | - | - | - | - | 9.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | CP-999 | 30.1 | 2.2 | - | 6.8 | - | 31 | 19.9 | 8.3 | 17.6 | 15.1 | - | - | 17.4 | 9.5 | 47.1 | 7 | - | 52.7 | 9.6 | 29.3 | - | 32.3 | 6.2 | - | 13.5 | 9.7 |
| 30 | GK-3155 | - | 1.6 | - | - | - | - | 10.1 | - | - | 1.4 | - | - | - | - | 20.1 | - | - | 46.7 | - | - | - | 9.3 | - | 22.4 | - | - |
| 31 | GK-3158 | 30.3 | 36.5 | - | 13 | 3.9 | 32.2 | 23.1 | 18.1 | 12.6 | - | 13.9 | - | 1.4 | 18.7 | 26.4 | - | - | 20.5 | 4.9 | 16.7 | 18.2 | 15.6 | - | - | 8.2 | 8.5 |
| 32 | Super-6768 | - | 6.1 | - | - | - | 27.1 | 19 | 0.6 | - | - | - | - | 7.3 | 7.2 | 19.2 | - | - | 6.9 | - | - | - | - | - | - | - | - |
| 33 | Super-1177 | - | 2.5 | 4.9 | - | - | 16.7 | - | - | - | - | - | - | 16 | - | 12.5 | 1 | - | 40.3 | 0.5 | 2.3 | 17 | 9.4 | - | 19.8 | 8 | 0.7 |
| 34 | NMH-1603 | 15.7 | - | - | - | - | 16.6 | - | - | - | 23.6 | - | 6.5 | - | 3.6 | 36.8 | 3.2 | - | 37.7 | 2.1 | - | - | - | - | 5.6 | - | - |
| 35 | CMH10-548 | 10 | 14.5 | 8.8 | 11 | - | 50.3 | 9 | 16.5 | 5.6 | 21.3 | - | 14.4 | 0.5 | 20.5 | 14.6 | 5.8 | - | 39.1 | 7.9 | - | - | - | 5.8 | 33.3 | - | 7.7 |

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324 | | | | | | | | | | | | | | | | | | | | | | | | OV'L MEAN | |
|----------|------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|
| | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | | | | | ZN 5 | | | | | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | | MEAN |
| 36 | CMH10-550 | - | 12 | - | - | - | 38.4 | 23.6 | 14.6 | - | - | 1.8 | 3.4 | 27.4 | - | 7.4 | - | - | 20.4 | 0.7 | 4 | - | 15.7 | 28.4 | 13.5 | 11.8 | 4.4 |
| 37 | CMH11-583 | 15.8 | 16.4 | - | 4.1 | 5.1 | 26.3 | 16 | 14.7 | 3.9 | 2 | 6.5 | - | 24.5 | 6.6 | - | - | - | 34.9 | 3.5 | - | 12.4 | 27.3 | 3.4 | 15.6 | 11.2 | 6.5 |
| 38 | CMH11-586 | 4.8 | 27.1 | 0.1 | 10.2 | 7.7 | 21.5 | 25.9 | 17.2 | 5.1 | - | 3.2 | - | 4.1 | 2.4 | 24.2 | 2.7 | 0.4 | 21.7 | 3.7 | - | - | 19.4 | - | 25.7 | 6.5 | 7 |
| 39 | CMH11-591 | - | 23.7 | - | 2.2 | - | 21.8 | - | 1.2 | - | 31.4 | - | - | 12.7 | - | - | - | - | 43.5 | 2 | - | 18.1 | - | 2.2 | - | - | 1 |
| 40 | CMH11-660 | - | 15.8 | - | - | - | 21.8 | 41.7 | 17.2 | 5.3 | 6.2 | - | - | 9.8 | - | 25.8 | - | - | 40 | 2.4 | - | 51.1 | 31.3 | - | - | 5.4 | 3.8 |
| 41 | BH41036 | 16.7 | - | 3.7 | - | - | 5.2 | - | - | - | - | 10.1 | 2.4 | 24.2 | - | 8.2 | - | - | 26.1 | - | - | 7.7 | 7.4 | - | 4.2 | - | - |
| 42 | BH41127 | 9.7 | - | - | - | - | - | - | - | - | - | - | 13.5 | 2.9 | - | - | - | - | - | - | - | 24.1 | - | - | 28.7 | - | - |
| 43 | BH41642 | - | 14.4 | - | - | - | 9.3 | 24.7 | 2.9 | - | - | - | 10.8 | 13.1 | - | 17.1 | 0.5 | - | 19.3 | - | - | - | 10.9 | - | 21.1 | - | - |
| 44 | BH41151 | - | - | - | - | - | 19.6 | - | - | - | - | - | - | - | - | 4.3 | - | - | 21.2 | - | - | - | - | - | 5.1 | - | - |
| 45 | GH-0945 | - | - | 8.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - |
| 46 | GH-1102 | 9.1 | - | - | - | - | 11.6 | - | - | - | - | - | - | - | - | - | - | - | 28 | - | - | - | - | - | - | - | - |
| 47 | GH-1001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 | GH-1043 | - | - | - | - | - | 15.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 34.3 | - | - | - | - | - |
| 49 | DKC9133 | 5.2 | 20.3 | - | 4.6 | 8.8 | 48.4 | 19.2 | 23.9 | - | - | - | - | 13.1 | - | 19.8 | - | - | 25.5 | - | 2.3 | - | 47.6 | 2.8 | 41.9 | 19.6 | 4.6 |
| 50 | X35D612 | 14.4 | 34.2 | 3.2 | 16.4 | 2.9 | 50.5 | 20.2 | 22.5 | - | 6.4 | 16.3 | - | 25.3 | 16.5 | 36.7 | - | - | 22.1 | 0.4 | - | 5.3 | 13.2 | - | 18.4 | 7.2 | 7 |
| 51 | X35D613 | - | - | - | - | - | 22 | 17.1 | 11.1 | - | - | 1.6 | - | 4.7 | 3.3 | 31.7 | - | - | 46.2 | 2.6 | 10.9 | 14.2 | 4.5 | - | 9.7 | 6.7 | 1.9 |
| 52 | X35D601 | 40.3 | 54.7 | 5.7 | 31 | - | 23.1 | 2.2 | 7.6 | 10.8 | 38.8 | - | 6.6 | 26.2 | 23.6 | 16.3 | - | 15.7 | 40.9 | 13.9 | 14.9 | 28.4 | 39.8 | - | 17.2 | 20.4 | 17 |
| 53 | BB 032 | - | 12 | - | - | 35 | 25.5 | 8.4 | 24.3 | - | - | - | 13.1 | 8.3 | - | 33.6 | 3 | - | - | 0.1 | 4.6 | - | - | - | - | - | 1.1 |
| 54 | HTMH-5108 | 6.9 | 25.4 | 12.4 | 15.2 | 28.8 | 31.2 | 69.2 | 41.5 | - | 22 | 17.1 | 25.6 | 22.6 | 25.5 | 32.9 | 3.9 | - | 1.1 | 11.4 | 4.5 | - | - | 5.3 | 58.3 | 12.2 | 16 |
| 55 | PRO-392 | 28.2 | 4.1 | - | 7 | 7.6 | 29.2 | 26.9 | 19.8 | 8.7 | - | 15.2 | 9.7 | 17.9 | 2.5 | 24.5 | - | - | 24.4 | 4.3 | 13.7 | 3.3 | 36.2 | - | 20.6 | 16.6 | 9.1 |
| 56 | BRMH-1 | 9.1 | - | - | - | - | 18.2 | - | - | - | - | - | - | - | - | - | - | - | 23.2 | - | - | - | 1.9 | - | 0.3 | - | - |
| 57 | REH-2012-3 | - | - | - | - | - | 1 | 13.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 58 | JH31623 | 29.5 | 16.4 | - | 9.8 | 1.6 | 41.5 | 26.1 | 20.9 | 2.5 | 0 | - | 1.8 | 0.1 | - | 12.5 | - | - | 79.3 | 0.6 | - | - | - | - | 22.9 | - | 3.7 |
| 59 | JH31638 | 11.9 | - | - | - | - | 41.9 | 0.9 | 8.4 | - | 20.1 | - | 4 | 17.2 | - | - | - | 2.8 | 46.2 | 0.1 | - | - | - | - | - | - | - |
| 60 | JH12010(JH12019) | - | 4.3 | 3.4 | 0.5 | 2.6 | 13.8 | 10.7 | 8.4 | - | - | - | - | 16.9 | - | 19.9 | - | - | 15.4 | - | - | - | - | - | - | - | - |
| 61 | JH12171 | 8.7 | 9.3 | - | 4.2 | - | 52.6 | - | 1.2 | - | - | - | - | - | - | 2.2 | - | - | 7.3 | - | - | - | - | - | - | - | - |
| 62 | JH12003 | - | 9.2 | 10.6 | 3.1 | - | 31.3 | 0.6 | 9.5 | - | - | - | 20.3 | 19.7 | 0.4 | - | 3.4 | - | 48 | 2.8 | 1.7 | 29 | 15.4 | 5 | - | 7.5 | 4.6 |
| 63 | JH12247 | 3.4 | 27.9 | - | 6.8 | 11.1 | 31.8 | 32.3 | 23.6 | - | - | - | 6.9 | 8.6 | 5.8 | 6.6 | - | - | - | - | - | 27.6 | 11.2 | 1.7 | 37.8 | 12.1 | 4.1 |
| 64 | HKH421 | - | - | 0.5 | - | - | 25 | - | - | - | - | - | - | 1.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 14.7 | 19.8 | 0.3 | 10.5 | - | 54.6 | 1.8 | 16.2 | - | - | - | - | 22.4 | 3.1 | - | - | - | 46.6 | - | 5.1 | 38.2 | 15.4 | - | 1 | 8.2 | 2.6 |
| 66 | PMH3 | 19.5 | 22.8 | 11.5 | 17.3 | - | 29.3 | 17.1 | 12.9 | 5.1 | 11.6 | - | - | 15.5 | 8.6 | 14.3 | - | 4.7 | 61.6 | 5.3 | - | - | 23.9 | - | 8.6 | 6.5 | 8.3 |
| 67 | Seedtech-2324 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 68 | BIO-9681 | - | - | - | - | - | 1.9 | - | - | - | - | - | - | - | - | 0.1 | - | - | - | - | - | - | - | - | - | 4.7 | - |

BR24

TABLE No. 1 (Cont..)

| SI No | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| | PEDIGREE | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | | | | ZN 5 | | | OV'L | | | | | |
| | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN | |
| 1 | IM8539 | 23.8 | 27.3 | - | 8.2 | 53.3 | 55.4 | 45.1 | 51.3 | 35.7 | 78.2 | 32.2 | 44.4 | 69.4 | - | 30.8 | 18.7 | 31 | 61.4 | 38.2 | 42.4 | 2.4 | 60.8 | 43.6 | 33.2 | 40.1 | 35.5 |
| 2 | IM8562 | 9.5 | 65.4 | - | 19.1 | 93.3 | 16.3 | 52.4 | 52.6 | 27.6 | 57.4 | 35.7 | 62.1 | 40.9 | - | 47.2 | 17.8 | 26.9 | 13.7 | 33.6 | 41.6 | 11.2 | 51 | 27 | 54.9 | 42.1 | 35.3 |
| 3 | IM8556 | 3.7 | 9.7 | 12.6 | 9.1 | 36.1 | 22.1 | 6.8 | 21.4 | 35.2 | 66 | 40.1 | 6 | 29.1 | 0.3 | 39.3 | 5.1 | - | 34.3 | 24.3 | 20.1 | 25 | 51.1 | 48.3 | 31.5 | 34.2 | 23.4 |
| 4 | IM8554 | 17.3 | 56.5 | - | 16.3 | 82.7 | 31.1 | 24.6 | 45.1 | 39 | 85.6 | - | 7.4 | 13 | 0.6 | 44.4 | 11.7 | - | 33.2 | 21.9 | 22.1 | 12.4 | 70.5 | 46.9 | 41.4 | 40.3 | 27.5 |
| 5 | I18017 | 8.3 | 87.7 | 0.6 | 29 | 43.1 | 32.2 | 25.3 | 33.3 | 4 | 105.1 | - | 4.7 | 1 | - | 16.8 | 4.4 | 2.8 | 22.3 | 13 | 52.3 | - | 14.4 | 30.5 | 10 | 23.7 | 20.2 |
| 6 | Siri4546 | - | 44.4 | 9.7 | 16.8 | 22.1 | 31.8 | 16.4 | 23.6 | - | 76.3 | - | 33.1 | 16.3 | 16.4 | 14.1 | - | 9.2 | - | 10.2 | 12 | 19.7 | 47 | 30.5 | - | 19.3 | 14.7 |
| 7 | Siri4527 | - | 52.9 | 8.8 | 9.1 | 42.4 | 58.5 | 41.5 | 47.8 | 18.1 | 68.5 | - | 42.5 | 8.4 | 5.5 | 17.9 | 5.9 | - | 17 | 15.5 | 20.8 | 34.8 | 60.7 | 26.4 | 32 | 35.1 | 22.3 |
| 8 | RMH-972 | 7.7 | 63.8 | - | 15.7 | 64.4 | 29.4 | 23.9 | 38.6 | 24 | 82.2 | 20.7 | 39.3 | 15.1 | 4.1 | 44.6 | 10.8 | 24.1 | 55.6 | 30 | 9.4 | 5.3 | 25.6 | 20.9 | - | 9.5 | 24.9 |
| 9 | Super GA-105 | 14.7 | 71.4 | - | 25.2 | 70 | 38 | 19.3 | 41.8 | 19.6 | 41.2 | 13.1 | - | 31.4 | 7.8 | 21.4 | 10.6 | - | 33.3 | 14.8 | 38.2 | 45.1 | 65 | 29.1 | - | 31.2 | 23 |
| 10 | Janahit | 28.4 | 45 | 14.6 | 27.8 | 33.1 | 40.8 | 24.3 | 32.8 | 26.2 | 37.5 | 36.2 | - | 27.3 | 2.7 | 26.8 | 13.1 | 6.3 | 66.2 | 19.2 | 30.1 | 15.4 | 52.4 | 66.4 | 3 | 31.2 | 24.6 |
| 11 | HTMH-5202 | - | 82.5 | - | 14.8 | 53.9 | 71.4 | 7.4 | 44.4 | 10.1 | 30.6 | 15.2 | 11.5 | 30.2 | 7.7 | 49.4 | 15.5 | 43.1 | - | 21 | 45.5 | 33.3 | 63.5 | 29.9 | - | 31.9 | 25.1 |
| 12 | HTMH-5404 | 36.2 | - | 11.1 | 15 | 62.4 | 46.4 | 15.9 | 41.2 | 24.1 | 14 | 11 | 21.9 | 40.3 | - | 10.9 | 9 | 7.6 | 49.4 | 17.1 | 21.4 | - | 65.1 | 44.6 | - | 21.2 | 20.6 |
| 13 | DMH-696 | 30.7 | 39.5 | 3.9 | 22.4 | 35.2 | 39.3 | 37.9 | 37.6 | 9.5 | 54.5 | 24.7 | 13.7 | 13.8 | 10.8 | 37 | 13.1 | 24.2 | 43.8 | 22.4 | 20.1 | 26.9 | 47.3 | 20.5 | - | 18.3 | 23.6 |
| 14 | FCH-11270 | 29.3 | 59.1 | 14.9 | 32.4 | 26.1 | 36.2 | 13.3 | 25.4 | 25.2 | 33.5 | - | 0.8 | 52.6 | - | 37.6 | 7.9 | 8.1 | 57.7 | 16.2 | 24.8 | 0.2 | 35.4 | 11.3 | 5.9 | 18 | 20.3 |
| 15 | FCH-11273 | 13.7 | 60.2 | 5.7 | 24.4 | 18.2 | 33.7 | 38.2 | 30.3 | 11.6 | 43.6 | - | - | 13.3 | 6.1 | 26.5 | 8.3 | 22.2 | 127.2 | 17.8 | 2 | 42.2 | 33.6 | 39.3 | 22.8 | 23.7 | 21.6 |
| 16 | VNR-31834 | 38.5 | 49 | 24.9 | 36.1 | 53.3 | 55.9 | 8.7 | 39.3 | 9.8 | 47.4 | - | 22.1 | 17.5 | 2.4 | 19.5 | 2.5 | 13.5 | - | 13.3 | 35.5 | 13.6 | 40.4 | 18.9 | - | 22.6 | 22 |
| 17 | VNR-31355 | 5 | 54 | - | 16.5 | 54.9 | 29.8 | 39.2 | 40.8 | 31 | - | 32.6 | - | - | - | 37.6 | - | 22.1 | 55.1 | 12 | 32.2 | 21.6 | 39.3 | 36 | - | 22.9 | 18.5 |
| 18 | TMMH-807 | 33.3 | 15.1 | 2 | 15.1 | 11.7 | 24.4 | 10.5 | 15.8 | 5.8 | 78.8 | - | 27.5 | 24.6 | - | 30.5 | - | - | 48.6 | 15.2 | 11.4 | 48.6 | 27.4 | 18.9 | - | 15.6 | 15.4 |
| 19 | KMH-2811 | - | 6.5 | - | - | 57.6 | 45.4 | 12 | 38.1 | 9.9 | 73.5 | - | 19.4 | 35.5 | - | 12.3 | 14.4 | - | 47.7 | 16.9 | 35.5 | 22 | 37.6 | 36 | - | 18.8 | 16.6 |
| 20 | JKMH-4029 | - | 8.8 | 1.7 | - | 58.1 | 17.4 | 12.6 | 28.6 | 3 | 38.8 | 16 | 19.9 | - | - | 18.6 | 1.2 | 5.2 | 46 | 10.4 | 4 | 38.7 | 39 | 49.8 | - | 19.8 | 11.7 |
| 21 | DAS-MH-104 | 11.7 | 40.4 | - | 14.4 | 72.6 | 26.5 | 19.4 | 38.6 | - | 69.4 | 31.1 | - | 3.6 | 15.2 | 32.1 | 8.2 | 14.1 | 56.4 | 16.2 | 22.1 | - | 38.9 | 44.9 | 16.4 | 24.7 | 20.4 |
| 22 | DAS-MH-105 | 25.9 | 67.8 | 1.5 | 28.6 | 14 | 24.7 | 25.1 | 21.5 | 13.3 | 22.6 | 16.1 | 2.1 | 66.6 | - | 50.1 | 8.7 | - | 36.4 | 18.5 | 42.9 | 23 | 54.9 | 47.7 | - | 30.5 | 22.8 |
| 23 | ASMH-777 | 8 | 48.3 | 1.8 | 17.6 | 21.1 | 25.5 | 16.9 | 21.2 | 23.2 | 51.2 | 14.3 | 7.7 | 37.3 | 11.6 | 26.2 | 7.7 | - | 28.8 | 19.8 | 22.8 | 46.6 | 56.9 | 14.8 | 18 | 31 | 21.8 |
| 24 | ASMH-333 | - | 52.3 | - | 10.7 | 43.5 | 30.1 | 24.3 | 32.4 | 17.4 | 38.5 | - | 23.9 | - | 6.9 | 31.2 | 7.5 | 15.4 | 10.7 | 14 | 10 | 13.3 | 20 | 13.4 | - | 7.1 | 14.5 |
| 25 | PRO-391 | 10.8 | 45.6 | 8 | 20.1 | 64.6 | 11.6 | 47.4 | 40.3 | 4.8 | 56.2 | - | - | 20.3 | - | 6.2 | 13.2 | - | 17.4 | 6.7 | 2.7 | 13.3 | 12 | 26.1 | - | 2.5 | 12.3 |
| 26 | KH-2192 | - | 67 | - | 9.3 | 61.7 | 23.4 | 22.9 | 35.3 | 2.8 | 50.6 | 11 | - | 16.3 | - | 31.2 | - | 28.5 | - | 8.4 | 12.1 | 20.4 | 20.1 | 14 | 22.3 | 17.7 | 13.7 |
| 27 | B-54 | 32.4 | 7.8 | - | 8.5 | 92.1 | - | - | 22.9 | 21.1 | 40.4 | 1.9 | 36.6 | 15.4 | - | 18.4 | 8.9 | 26.4 | 36.6 | 18.9 | 27.4 | - | 13.6 | 22.6 | 30.7 | 20.8 | 18.1 |
| 28 | polo | - | - | - | - | 7.6 | 7.9 | - | - | - | 1.3 | - | - | 1.4 | - | - | - | - | - | - | - | 16.3 | - | - | - | - | - |
| 29 | CP-999 | 30.6 | 23.8 | 5.3 | 18.2 | 20 | 28.6 | 19.9 | 23 | 44 | 56.7 | - | - | 24.8 | 11.5 | 46.9 | 16 | 9.6 | 73.5 | 25.2 | 51 | 1.1 | 57.9 | 42 | - | 29.8 | 24.7 |
| 30 | GK-3155 | - | 23.1 | 3.6 | 8.3 | 39.2 | - | 10.1 | 13.3 | 5.9 | 38.1 | 10.6 | - | - | - | 19.9 | - | 20.3 | 66.6 | 7 | 7.3 | 2.5 | 30.4 | 5.9 | 16.8 | 14.4 | 9.4 |
| 31 | GK-3158 | 30.7 | 65.4 | - | 25 | 50.6 | 29.7 | 23.1 | 34.1 | 37.9 | 28 | 31.7 | 8.7 | 7.7 | 20.9 | 26.2 | 6.4 | - | 36.9 | 19.9 | 36.2 | 42.8 | 37.9 | 15.8 | - | 23.8 | 23.2 |
| 32 | Super-6768 | - | 28.5 | 8.8 | 10.5 | - | 24.8 | 19 | 14.2 | 5.7 | 35.3 | - | 6.4 | 14 | 9.1 | 19.1 | - | - | 21.5 | 6 | 6 | 1.9 | 4.9 | 5 | - | - | 6.5 |
| 33 | Super-1177 | - | 24.1 | 15.8 | 6.6 | 12.5 | 14.6 | - | 8.6 | 16.1 | 21.6 | 7.3 | 11.4 | 23.2 | - | 12.4 | 9.5 | 14.2 | 59.5 | 14.9 | 19.4 | 41.3 | 30.5 | 23.5 | 14.4 | 23.5 | 14.4 |
| 34 | NMH-1603 | 16.1 | 12.9 | 4.9 | 10.6 | 23 | 14.4 | - | 7.7 | 2.8 | 68.3 | - | 21.1 | 1.1 | 5.5 | 36.6 | 11.8 | 4.9 | 56.4 | 16.7 | - | 0.8 | - | 14.8 | 0.9 | - | 11.4 |
| 35 | CMH10-548 | 10.4 | 38.8 | 20.1 | 22.8 | 40 | 47.6 | 9 | 32.2 | 29.4 | 65.2 | 9.2 | 30.1 | 6.7 | 22.6 | 14.4 | 14.7 | 1.3 | 58 | 23.3 | - | - | 9.3 | 41.4 | 27.3 | 13.1 | 22.4 |

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | | | | OV'L | | | | | |
| | | KARN | LUDH | PANT | MEAN | DHOL | RANC | VARA | MEAN | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | MEAN |
| 36 | CMH10-550 | - | 35.6 | - | 10 | 30.7 | 35.8 | 23.6 | 30.1 | 22.3 | 30.3 | 17.7 | 17.7 | 35.4 | - | 7.3 | 0.4 | 4.5 | 36.8 | 15.1 | 21.5 | 19 | 38.1 | 71.7 | 8.4 | 28 | 18.6 |
| 37 | CMH11-583 | 16.2 | 41 | - | 15.3 | 52.4 | 24 | 16 | 30.3 | 27.2 | 39 | 23.1 | 12.4 | 32.3 | 8.5 | - | 1.5 | 4 | 53.3 | 18.2 | 14.1 | 35.7 | 51.9 | 38.3 | 10.4 | 27.2 | 21 |
| 38 | CMH11-586 | 5.1 | 54 | 10.5 | 22 | 56.1 | 19.3 | 25.9 | 33.1 | 28.7 | 22 | 19.3 | 11.3 | 10.6 | 4.2 | 24 | 11.2 | 21 | 38.3 | 18.5 | 10.1 | 11.3 | 42.5 | 22.7 | 20 | 21.8 | 21.5 |
| 39 | CMH11-591 | - | 49.9 | 5.1 | 13.1 | 41.8 | 19.6 | - | 14.9 | 20.7 | 78.9 | 15.2 | 13.3 | 19.7 | - | - | 2.3 | 6.2 | 63.1 | 16.6 | 11.4 | 42.6 | 8.4 | 36.7 | - | 11.4 | 14.8 |
| 40 | CMH11-660 | - | 40.3 | 1.2 | 5.7 | 39 | 19.5 | 41.7 | 33.1 | 29 | 44.7 | - | 4.1 | 16.6 | - | 25.7 | 3.6 | 11.6 | 59 | 17 | 1.3 | 82.5 | 56.7 | - | - | 20.6 | 17.9 |
| 41 | BH41036 | 17.1 | - | 14.5 | - | 8.6 | 3.3 | - | - | 6.2 | 34.7 | 27.3 | 16.5 | 31.9 | - | 8 | - | - | 43.3 | 11.9 | - | 30.1 | 28.2 | - | - | 6.6 | 5.3 |
| 42 | BH41127 | 10.1 | - | 10.1 | - | 15.1 | - | - | 0.3 | - | 9.4 | 1.7 | 29.2 | 9.4 | - | - | - | 2.5 | - | - | - | 49.9 | 11.5 | - | 22.9 | 8.5 | - |
| 43 | BH41642 | - | 38.6 | 8.8 | 6.4 | 18.9 | 7.3 | 24.8 | 16.8 | 8.4 | 25.2 | - | 26 | 20.1 | - | 17 | 8.9 | - | 35.5 | 9.2 | - | 13.8 | 32.4 | 17.9 | 15.6 | 12.8 | 10.4 |
| 44 | BH41151 | - | 8.7 | - | - | 17.2 | 17.4 | - | - | - | 12.2 | - | 11.3 | - | - | 4.1 | - | 5.3 | 37.8 | - | - | 8.3 | 3.7 | - | 0.3 | - | - |
| 45 | GH-0945 | - | - | 20.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22.7 | - | - | - | - | - | - | - | - |
| 46 | GH-1102 | 9.5 | - | - | 1.5 | 13.2 | 9.5 | - | 3.2 | - | - | - | - | - | - | - | - | - | 45.4 | - | - | 18.7 | - | 9.4 | - | - | - |
| 47 | GH-1001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10.9 | - | - | - | - | 23.7 | - | - | - |
| 48 | GH-1043 | - | - | - | - | - | 13.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 62.2 | - | - | - | - | - |
| 49 | DKC9133 | 5.5 | 45.7 | 1.2 | 15.8 | 57.8 | 45.7 | 19.2 | 40.6 | 11.8 | 28.5 | - | - | 20.2 | - | 19.7 | 6 | 18.1 | 42.6 | 8 | 19.5 | - | 76.1 | 37.5 | 35.5 | 36.8 | 18.9 |
| 50 | X35D612 | 14.8 | 62.6 | 13.9 | 28.8 | 49.3 | 47.8 | 20.2 | 39 | 1.6 | 44.9 | 34.5 | - | 33.2 | 18.6 | 36.6 | - | - | 38.7 | 14.7 | 14.7 | 27.1 | 35.1 | 33 | 13.1 | 22.6 | 21.5 |
| 51 | X35D613 | - | 8.6 | 2.1 | - | 42.9 | 19.8 | 17.1 | 26.2 | 22.3 | 35.5 | 17.5 | - | 11.2 | 5.1 | 31.5 | - | 18.7 | 66.1 | 17.2 | 29.5 | 37.9 | 24.8 | 22.7 | 4.8 | 22 | 15.8 |
| 52 | X35D601 | 40.7 | 87.5 | 16.7 | 45 | 44.7 | 20.9 | 2.3 | 22.1 | 35.7 | 89.1 | - | 21.3 | 34.1 | 25.8 | 16.2 | 6.8 | 39.4 | 60.1 | 30.2 | 34.2 | 55.1 | 66.8 | 30.6 | 12 | 37.7 | 32.9 |
| 53 | BB 032 | - | 35.7 | - | 1.1 | 95.8 | 23.2 | 8.5 | 41.1 | 7.8 | 30.8 | 8.2 | 28.7 | 15.1 | 1.2 | 33.4 | 11.6 | 1.8 | 0.3 | 14.4 | 22.1 | 4.8 | 18.5 | 8.6 | - | 10.2 | 14.9 |
| 54 | HTMH-5108 | 7.2 | 52 | 24.1 | 27.5 | 86.7 | 28.8 | 69.3 | 60.6 | 13.5 | 66.1 | 35.4 | 42.9 | 30.3 | 27.8 | 32.7 | 12.6 | 0.9 | 14.8 | 27.3 | 22.1 | 17.6 | 8.5 | 40.8 | 51.1 | 28.4 | 31.8 |
| 55 | PRO-392 | 28.6 | 26.1 | 5.6 | 18.5 | 56 | 26.8 | 27 | 36 | 33.1 | 23.6 | 33.1 | 24.8 | 25.2 | 4.3 | 24.3 | 6.7 | - | 41.3 | 19.2 | 32.8 | 24.8 | 62.5 | 26.1 | 15.2 | 33.4 | 23.9 |
| 56 | BRMH-1 | 9.5 | - | 4.8 | - | 3.3 | 16.1 | - | 4.8 | - | - | - | - | - | - | - | - | - | 40 | - | - | 12.3 | 21.6 | - | - | 2.1 | - |
| 57 | REH-2012-3 | - | - | 7.3 | - | 15.1 | - | 13.3 | 8.9 | - | 20.4 | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | - | - | - |
| 58 | JH31623 | 29.9 | 41 | 1.2 | 21.6 | 47.3 | 38.9 | 26.2 | 37.3 | 25.5 | 36.2 | - | 15.8 | 6.3 | - | 12.4 | - | 19.3 | 103.7 | 14.9 | 2 | 4.6 | 19 | - | 17.3 | 9.5 | 17.8 |
| 59 | JH31638 | 12.3 | - | 9.9 | - | 28.7 | 39.3 | 0.9 | 23.1 | 15.8 | 63.6 | - | 18.3 | 24.5 | - | - | - | 23.9 | 66.1 | 14.4 | - | - | - | 18.1 | - | - | 8.7 |
| 60 | JH12010(JH12019) | - | 26.4 | 14.2 | 11.2 | 48.8 | 11.7 | 10.8 | 23.1 | 4.6 | 20.3 | - | - | 24.2 | - | 19.7 | - | - | 31.2 | 0.6 | 11.4 | 7.8 | - | - | - | - | 4.6 |
| 61 | JH12171 | 9 | 32.5 | 7.1 | 15.3 | 8.1 | 49.8 | - | 14.9 | - | 7.3 | 3.3 | - | - | - | 2.1 | - | - | 21.9 | - | 9.3 | 19.9 | - | 11.3 | - | - | - |
| 62 | JH12003 | - | 32.3 | 22.1 | 14.1 | 44.3 | 28.9 | 0.6 | 24.3 | 20.1 | 25.8 | - | 36.9 | 27.2 | 2.2 | - | 12 | 17.5 | 68.2 | 17.4 | 18.8 | 55.8 | 37.7 | 40.4 | - | 23.1 | 18.8 |
| 63 | JH12247 | 3.7 | 55 | 1.4 | 18.2 | 61.2 | 29.4 | 32.3 | 40.4 | - | 32.8 | 15.2 | 21.7 | 15.4 | 7.7 | 6.5 | - | 11 | 3.1 | 9.3 | 8 | 54.1 | 32.7 | 36 | 31.6 | 28.3 | 18.3 |
| 64 | HKH421 | - | 0.9 | 11 | 0.7 | - | 22.7 | - | - | - | - | - | - | 7.4 | - | - | - | - | 12 | - | - | - | - | 22.6 | - | - | - |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 15 | 45.1 | 10.7 | 22.3 | 41.8 | 51.7 | 1.8 | 31.9 | 18.9 | 26.3 | 13.4 | - | 30 | 4.9 | - | - | - | 66.6 | 8.4 | 22.8 | 66.8 | 37.7 | 20.3 | - | 23.8 | 16.5 |
| 66 | PMH3 | 19.9 | 48.8 | 23.1 | 29.9 | 41.3 | 26.9 | 17.2 | 28.1 | 28.7 | 52 | 3.7 | 6.4 | 22.7 | 10.6 | 14.1 | - | 26.2 | 83.6 | 20.3 | 15.4 | 19.1 | 47.9 | 28.3 | 3.7 | 21.8 | 23.1 |
| 67 | Seedtech-2324 | 0.3 | 21.2 | 10.4 | 10.7 | 45 | - | 0 | 13.5 | 22.5 | 36.2 | 15.6 | 13.8 | 6.3 | 1.8 | - | 8.3 | 20.5 | 13.6 | 14.3 | 16.8 | 20.8 | 19.3 | 33.7 | - | 14.4 | 13.6 |
| 68 | BIO-9681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table No. 1 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | ZN 2 | | | | | | ZN 3 | | | | | | ZN 4 | | | | | | ZN 5 | | OV'L | | | | | | |
| | | KARN | LUDH | PANT | Mean | DHOL | RANC | VARA | Mean | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | Mean | |
| 40 | CMH11-660 | 66.8 | 79.7 | 85.3 | 77.2 | 81.8 | 84.7 | 78.5 | 81.7 | 84.8 | 79.8 | 67.3 | 76.9 | 82.9 | 86.4 | 79.5 | 81.1 | 84.3 | 79.9 | 80.3 | 73.7 | 72.1 | 79.0 | 80.0 | 81.2 | 77.2 | 79.3 | |
| 41 | BH41036 | 68.1 | 81.7 | 84.2 | 78.0 | 78.0 | 85.0 | 71.0 | 78.0 | 85.1 | 80.5 | 72.8 | 77.4 | 86.0 | 84.9 | 81.3 | 82.7 | 83.7 | 80.6 | 81.5 | 78.9 | 69.6 | 79.7 | 82.9 | 81.5 | 78.5 | 79.8 | |
| 42 | BH41127 | 68.1 | 73.9 | 83.9 | 75.3 | 81.1 | 79.3 | 70.0 | 76.8 | 86.9 | 80.3 | 72.0 | 76.3 | 83.7 | 85.9 | 81.0 | 82.8 | 80.9 | 75.6 | 80.5 | 79.8 | 69.3 | 77.8 | 79.7 | 80.2 | 77.3 | 78.5 | |
| 43 | BH41642 | 68.6 | 88.6 | 84.1 | 80.4 | 84.5 | 79.8 | 76.3 | 80.2 | 82.3 | 80.5 | 66.0 | 77.4 | 82.8 | 82.6 | 79.9 | 94.0 | 78.9 | 73.8 | 79.8 | 72.9 | 70.9 | 78.3 | 81.1 | 80.9 | 76.8 | 79.2 | |
| 44 | BH41151 | 65.8 | 84.5 | 87.1 | 79.1 | 79.5 | 87.9 | 71.8 | 79.7 | 84.0 | 85.5 | 73.2 | 80.9 | 81.8 | 85.0 | 81.7 | 81.8 | 83.5 | 73.1 | 81.0 | 76.8 | 69.0 | 78.6 | 81.8 | 80.8 | 77.4 | 79.7 | |
| 45 | GH-0945 | 67.4 | 86.6 | 84.9 | 79.6 | 80.8 | 85.6 | 74.5 | 80.3 | 85.1 | 80.8 | 63.1 | 78.9 | 84.4 | 86.5 | 81.2 | 82.5 | 83.8 | 74.0 | 80.0 | 75.5 | 69.6 | 77.2 | 85.5 | 81.0 | 77.7 | 79.5 | |
| 46 | GH-1102 | 67.7 | 85.1 | 81.5 | 78.1 | 76.1 | 83.9 | 74.5 | 78.2 | 83.7 | 82.4 | 64.7 | 77.8 | 83.4 | 87.8 | 78.9 | 82.8 | 77.4 | 78.0 | 79.7 | 78.6 | 70.1 | 76.9 | 81.7 | 80.4 | 77.5 | 78.7 | |
| 47 | GH-1001 | 65.7 | 75.4 | 81.5 | 74.2 | 79.2 | 87.5 | 74.5 | 80.4 | 82.7 | 81.2 | 67.3 | 78.6 | 86.1 | 87.0 | 75.7 | 82.1 | 81.4 | 73.6 | 79.6 | 79.2 | 68.8 | 78.6 | 84.2 | 82.1 | 78.6 | 78.7 | |
| 48 | GH-1043 | 65.5 | 82.7 | 81.5 | 76.6 | 75.0 | 79.0 | 70.0 | 74.7 | 83.3 | 80.2 | 71.1 | 81.3 | 86.4 | 85.0 | 83.9 | 84.4 | 83.8 | 74.8 | 81.4 | 77.2 | 70.6 | 77.7 | 83.5 | 82.0 | 78.2 | 79.0 | |
| 49 | DKC9133 | 65.7 | 79.3 | 85.2 | 76.7 | 79.5 | 85.7 | 76.3 | 80.5 | 83.3 | 79.2 | 72.2 | 78.9 | 82.9 | 85.2 | 81.2 | 81.5 | 85.4 | 75.3 | 80.5 | 76.8 | 69.3 | 80.5 | 81.6 | 82.0 | 78.0 | 79.4 | |
| 50 | X35D612 | 66.9 | 80.7 | 85.9 | 77.8 | 81.0 | 84.9 | 78.8 | 81.5 | 84.9 | 85.0 | 69.1 | 78.1 | 84.9 | 86.8 | 81.6 | 84.4 | 85.1 | 78.9 | 81.9 | 78.2 | 70.2 | 80.6 | 85.3 | 82.0 | 79.3 | 80.6 | |
| 51 | X35D613 | 68.2 | 85.7 | 87.2 | 80.4 | 83.5 | 82.3 | 76.3 | 80.7 | 86.6 | 83.2 | 69.5 | 79.5 | 81.9 | 86.1 | 82.4 | 84.0 | 88.3 | 79.5 | 82.1 | 78.2 | 69.9 | 81.9 | 85.0 | 80.9 | 79.2 | 80.9 | |
| 52 | X35D601 | 68.2 | 85.8 | 85.6 | 79.9 | 80.0 | 87.9 | 76.5 | 81.5 | 88.1 | 82.5 | 68.8 | 79.6 | 86.8 | 89.7 | 82.9 | 81.4 | 88.5 | 78.0 | 82.6 | 78.0 | 71.0 | 81.3 | 83.2 | 82.8 | 79.3 | 81.3 | |
| 53 | BB 032 | 64.4 | 82.1 | 87.3 | 77.9 | 81.5 | 86.0 | 73.8 | 80.4 | 87.1 | 82.2 | 66.1 | 77.9 | 85.0 | 87.8 | 83.2 | 83.0 | 86.9 | 74.2 | 81.3 | 77.3 | 69.4 | 80.2 | 81.1 | 83.7 | 78.3 | 80.0 | |
| 54 | HTMH-5108 | 67.3 | 81.8 | 83.3 | 77.5 | 82.5 | 86.7 | 76.8 | 82.0 | 84.0 | 81.6 | 66.7 | 78.8 | 85.9 | 85.9 | 81.0 | 82.1 | 86.0 | 74.4 | 80.6 | 77.9 | 72.8 | 64.5 | 83.2 | 83.7 | 76.4 | 79.4 | |
| 55 | PRO-392 | 64.2 | 81.6 | 82.3 | 76.0 | 82.9 | 84.4 | 78.8 | 82.0 | 83.6 | 80.5 | 67.5 | 79.6 | 85.2 | 86.9 | 83.2 | 82.2 | 74.1 | 73.8 | 79.6 | 74.5 | 71.1 | 79.8 | 79.6 | 82.3 | 77.5 | 78.9 | |
| 56 | BRMH-1 | 66.3 | 82.8 | 79.9 | 76.3 | 82.5 | 78.9 | 70.0 | 77.1 | 83.8 | 80.5 | 67.7 | 73.5 | 82.3 | 84.0 | 80.6 | 79.1 | 83.8 | 72.1 | 78.7 | 75.8 | 67.1 | 75.8 | 80.5 | 81.1 | 76.0 | 77.5 | |
| 57 | REH-2012-3 | 69.1 | 80.3 | 84.3 | 77.9 | 84.3 | 86.4 | 75.0 | 81.9 | 84.6 | 80.0 | 68.1 | 76.8 | 85.2 | 86.8 | 81.1 | 81.2 | 80.2 | 49.0 | 77.3 | 75.8 | 69.7 | 80.6 | 84.2 | 83.0 | 78.7 | 78.4 | |
| 58 | JH31623 | 67.7 | 84.6 | 84.4 | 78.9 | 81.5 | 84.5 | 75.0 | 80.3 | 82.5 | 80.2 | 65.5 | 76.0 | 84.5 | 85.2 | 78.9 | 79.1 | 84.9 | 82.8 | 80.0 | 73.7 | 69.9 | 77.3 | 78.9 | 83.0 | 76.5 | 79.1 | |
| 59 | JH31638 | 67.7 | 77.0 | 80.6 | 75.1 | 82.0 | 84.5 | 70.0 | 78.8 | 81.7 | 78.3 | 65.5 | 73.7 | 83.1 | 85.8 | 77.5 | 81.7 | 82.3 | 83.2 | 79.3 | 76.2 | 69.9 | 72.2 | 81.1 | 80.9 | 76.1 | 77.8 | |
| 60 | JH12010(JH12019) | 66.1 | 83.6 | 83.4 | 77.7 | 81.8 | 75.9 | 73.8 | 77.1 | 81.0 | 80.0 | 59.9 | 77.7 | 79.8 | 82.0 | 82.3 | 73.1 | 76.6 | 73.9 | 76.6 | 74.9 | 70.4 | 65.1 | 78.1 | 82.8 | 74.3 | 76.3 | |
| 61 | JH12171 | 67.8 | 79.4 | 83.4 | 76.8 | 76.1 | 83.3 | 72.5 | 77.3 | 64.9 | 80.6 | 74.9 | 75.0 | 83.6 | 86.2 | 78.8 | 79.9 | 79.1 | 82.5 | 78.5 | 74.5 | 70.4 | 76.7 | 83.1 | 84.3 | 77.8 | 77.9 | |
| 62 | JH12003 | 67.6 | 79.8 | 84.5 | 77.3 | 80.9 | 87.1 | 76.3 | 81.4 | 85.4 | 81.2 | 65.1 | 79.5 | 86.8 | 86.9 | 80.2 | 86.1 | 85.3 | 76.9 | 81.3 | 77.0 | 71.1 | 80.8 | 85.0 | 84.8 | 79.7 | 80.4 | |
| 63 | JH12247 | 66.1 | 82.1 | 86.2 | 78.1 | 80.6 | 85.2 | 81.3 | 82.4 | 86.6 | 85.2 | 68.2 | 80.8 | 86.4 | 88.9 | 82.2 | 84.3 | 85.7 | 74.8 | 82.3 | 79.3 | 69.9 | 83.3 | 83.3 | 81.5 | 79.4 | 81.0 | |
| 64 | HKH421 | 66.0 | 84.5 | 85.6 | 78.7 | 81.0 | 81.4 | 75.0 | 79.1 | 83.3 | 81.1 | 67.3 | 78.8 | 84.4 | 90.5 | 82.6 | 83.8 | 80.8 | 73.3 | 80.6 | 78.7 | 67.6 | 87.1 | 86.0 | 82.7 | 80.4 | 80.1 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 65.6 | 81.3 | 86.3 | 77.7 | 81.6 | 85.9 | 74.5 | 80.7 | 82.1 | 77.3 | 68.8 | 75.8 | 81.1 | 87.4 | 78.5 | 82.9 | 82.7 | 79.0 | 79.6 | 75.3 | 72.6 | 77.9 | 81.2 | 83.9 | 78.2 | 79.1 | |
| 66 | PMH3 | 66.2 | 85.8 | 85.4 | 79.1 | 77.4 | 83.8 | 76.3 | 79.1 | 85.6 | 83.3 | 66.8 | 77.7 | 86.0 | 88.7 | 80.7 | 84.7 | 85.7 | 81.8 | 82.1 | 75.3 | 69.9 | 80.3 | 82.5 | 81.8 | 78.0 | 80.3 | |
| 67 | Seedtech-2324 | 67.4 | 82.7 | 83.3 | 77.8 | 81.5 | 86.1 | 74.8 | 80.8 | 86.1 | 80.8 | 75.1 | 78.3 | 83.3 | 85.8 | 78.3 | 80.2 | 86.6 | 74.0 | 80.8 | 76.6 | 69.3 | 79.8 | 85.7 | 80.5 | 78.4 | 79.8 | |
| 68 | BIO-9681 | 66.7 | 83.6 | 85.0 | 78.4 | 83.2 | 85.3 | 74.8 | 81.1 | 84.9 | 80.7 | 74.2 | 78.0 | 86.2 | 84.7 | 84.9 | 83.6 | 85.9 | 74.9 | 81.8 | 76.2 | 68.2 | 77.6 | 82.8 | 81.6 | 77.3 | 80.1 | |
| | Loc. Mean | 66.9 | 83.5 | 84.4 | 78.3 | 80.7 | 83.9 | 75.7 | 80.1 | 84.5 | 81.2 | 68.2 | 78.5 | 84.6 | 86.5 | 80.5 | 82.5 | 83.2 | 76.4 | 80.6 | 76.5 | 69.9 | 79.4 | 83.2 | 82.1 | 78.2 | 79.6 | |
| | C.D. (5%) | 1.08 | 2.29 | 1.98 | 3.69 | 4.09 | 5.29 | 1.49 | 4.33 | 3.69 | 1.40 | 3.21 | 1.60 | 3.86 | 0.64 | 2.13 | 5.47 | 4.16 | 10.20 | 2.27 | 3.60 | 2.11 | 7.55 | 1.68 | 0.87 | 2.67 | 1.50 | |
| | C.V. (%) | 1.00 | 1.69 | 1.45 | 2.92 | 3.14 | 3.16 | 1.22 | 3.34 | 2.70 | 1.07 | 2.92 | 1.26 | 2.82 | 0.46 | 1.64 | 4.11 | 3.10 | 8.26 | 3.21 | 2.91 | 1.87 | 5.89 | 1.25 | 0.65 | 2.74 | 3.11 | |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | |

Table No. 1 (Continued)

| | | MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | | | | | | | | OV'L | |
|--------|------------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | Mean | | | | | | | | |
| | | KARN | LUDH | PANT | Mean | DHOL | RANC | VARA | Mean | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | | VAGA | VRDC | Mean | BANS | BHIL | CHHI | UDAI | Mean |
| 43 | BH41642 | 27.2 | 26.8 | 27.9 | 27.3 | 22.9 | 22.3 | 29.0 | 24.7 | 24.9 | 18.2 | 24.5 | 23.2 | 10.7 | 11.8 | 16.9 | 23.6 | 11.4 | 10.3 | 18.3 | 17.4 | 24.7 | 15.1 | 17.3 | 18.6 | 20.8 |
| 44 | BH41151 | 25.8 | 22.1 | 27.1 | 25.0 | 19.3 | 22.5 | 31.0 | 24.3 | 22.6 | 19.5 | 22.5 | 23.8 | 8.7 | 11.1 | 16.1 | 22.7 | 11.6 | 10.1 | 17.8 | 17.9 | 22.0 | 14.9 | 22.1 | 19.2 | 20.2 |
| 45 | GH-0945 | 26.4 | 22.8 | 22.4 | 23.8 | 18.0 | 22.3 | 29.0 | 23.1 | 22.3 | 20.0 | 22.3 | 23.4 | 12.9 | 11.7 | 15.9 | 20.7 | 13.0 | 9.2 | 17.6 | 17.7 | 22.3 | 15.2 | 20.6 | 18.9 | 19.7 |
| 46 | GH-1102 | 25.8 | 21.3 | 28.1 | 25.0 | 19.5 | 24.2 | 27.5 | 23.7 | 22.4 | 17.8 | 22.0 | 24.3 | 10.7 | 12.0 | 15.4 | 20.5 | 11.7 | 10.0 | 17.3 | 17.3 | 21.7 | 15.6 | 23.9 | 19.6 | 20.0 |
| 47 | GH-1001 | 25.8 | 22.3 | 28.3 | 25.4 | 19.2 | 22.7 | 29.9 | 23.9 | 22.1 | 14.1 | 21.1 | 18.0 | 10.1 | 14.0 | 14.9 | 18.7 | 11.9 | 10.4 | 16.1 | 17.4 | 22.3 | 18.5 | 25.1 | 20.8 | 19.8 |
| 48 | GH-1043 | 25.1 | 20.6 | 28.3 | 24.7 | 19.8 | 23.6 | 26.4 | 23.3 | 22.5 | 18.3 | 22.3 | 23.0 | 8.8 | 9.7 | 15.1 | 20.9 | 11.8 | 9.7 | 17.0 | 17.7 | 21.6 | 13.5 | 22.5 | 18.8 | 19.6 |
| 49 | DKC9133 | 27.7 | 28.7 | 28.4 | 28.2 | 20.5 | 22.7 | 32.9 | 25.3 | 24.8 | 23.5 | 20.8 | 23.4 | 10.6 | 12.7 | 18.0 | 26.1 | 14.5 | 9.5 | 19.2 | 17.6 | 22.0 | 19.5 | 23.7 | 20.7 | 21.9 |
| 50 | X35D612 | 26.3 | 27.2 | 28.6 | 27.4 | 24.7 | 23.5 | 31.5 | 26.6 | 22.7 | 18.0 | 24.4 | 24.2 | 6.8 | 10.9 | 16.2 | 23.2 | 8.2 | 9.6 | 17.5 | 17.7 | 21.4 | 17.4 | 20.7 | 19.3 | 20.9 |
| 51 | X35D613 | 27.6 | 25.2 | 29.4 | 27.4 | 19.6 | 22.6 | 29.3 | 23.8 | 25.6 | 19.0 | 23.1 | 24.5 | 9.9 | 12.3 | 17.4 | 24.3 | 11.7 | 9.9 | 18.6 | 17.1 | 22.1 | 12.9 | 22.3 | 18.6 | 20.8 |
| 52 | X35D601 | 26.1 | 24.7 | 28.0 | 26.3 | 22.4 | 23.7 | 31.4 | 25.8 | 26.0 | 20.1 | 23.9 | 19.8 | 8.9 | 12.9 | 16.6 | 24.9 | 11.4 | 9.5 | 18.3 | 18.0 | 22.0 | 17.0 | 25.1 | 20.5 | 21.2 |
| 53 | BB 032 | 27.1 | 26.3 | 29.3 | 27.6 | 22.5 | 20.7 | 32.7 | 25.3 | 22.7 | 20.0 | 23.3 | 23.3 | 9.9 | 11.1 | 15.9 | 25.7 | 12.9 | 9.6 | 18.3 | 18.1 | 22.6 | 19.0 | 20.9 | 20.1 | 21.2 |
| 54 | HTMH-5108 | 25.7 | 27.7 | 27.9 | 27.1 | 22.9 | 24.2 | 29.1 | 25.4 | 25.6 | 19.5 | 21.1 | 22.9 | 12.6 | 13.7 | 16.9 | 24.9 | 16.4 | 10.1 | 19.0 | 18.5 | 22.7 | 18.8 | 19.7 | 19.9 | 21.5 |
| 55 | PRO-392 | 24.6 | 27.6 | 28.4 | 26.8 | 23.1 | 23.2 | 30.5 | 25.6 | 24.6 | 23.5 | 21.0 | 25.5 | 11.3 | 13.3 | 17.3 | 24.1 | 10.9 | 10.2 | 18.9 | 17.7 | 21.8 | 19.0 | 23.4 | 20.5 | 21.6 |
| 56 | BRMH-1 | 27.0 | 24.9 | 28.1 | 26.6 | 25.5 | 21.8 | 30.7 | 26.0 | 25.2 | 18.8 | 21.1 | 23.3 | 10.1 | 13.9 | 16.9 | 23.0 | 11.7 | 9.2 | 18.1 | 16.8 | 23.2 | 16.9 | 22.5 | 19.8 | 21.1 |
| 57 | REH-2012-3 | 27.0 | 25.6 | 28.9 | 27.1 | 26.6 | 22.7 | 31.4 | 26.9 | 23.0 | 21.3 | 21.5 | 26.1 | 9.0 | 11.7 | 16.3 | 23.5 | 12.4 | 9.8 | 18.4 | 17.9 | 21.6 | 17.5 | 24.3 | 20.3 | 21.5 |
| 58 | JH31623 | 25.9 | 23.8 | 27.6 | 25.8 | 23.6 | 22.2 | 29.8 | 25.2 | 25.3 | 19.0 | 21.7 | 21.4 | 8.2 | 13.0 | 17.9 | 24.0 | 12.8 | 9.1 | 18.2 | 17.6 | 21.9 | 19.0 | 21.4 | 20.0 | 20.9 |
| 59 | JH31638 | 27.1 | 26.1 | 28.0 | 27.0 | 20.3 | 25.0 | 32.2 | 25.8 | 23.4 | 18.5 | 24.6 | 27.7 | 6.1 | 12.0 | 17.2 | 24.7 | 13.2 | 10.4 | 19.1 | 17.2 | 22.0 | 18.6 | 21.2 | 19.7 | 21.5 |
| 60 | JH12010(JH12019) | 25.9 | 25.9 | 29.0 | 26.9 | 21.9 | 21.7 | 32.4 | 25.3 | 24.2 | 19.4 | 25.2 | 24.8 | 9.2 | 13.9 | 16.6 | 22.6 | 11.1 | 9.2 | 18.5 | 17.5 | 21.9 | 17.0 | 29.2 | 21.4 | 21.5 |
| 61 | JH12171 | 26.2 | 22.9 | 28.2 | 25.7 | 23.1 | 23.5 | 29.1 | 25.2 | 23.7 | 17.9 | 24.8 | 25.7 | 6.7 | 12.9 | 15.7 | 23.3 | 11.8 | 10.4 | 18.5 | 17.7 | 22.5 | 15.9 | 23.1 | 19.8 | 20.9 |
| 62 | JH12003 | 24.9 | 26.7 | 27.5 | 26.3 | 26.3 | 21.3 | 32.3 | 26.6 | 25.9 | 21.0 | 24.8 | 27.5 | 7.3 | 10.7 | 17.7 | 25.6 | 13.1 | 9.3 | 19.5 | 17.8 | 23.6 | 19.0 | 25.3 | 21.4 | 22.1 |
| 63 | JH12247 | 26.4 | 26.5 | 27.4 | 26.7 | 22.0 | 25.7 | 31.6 | 26.4 | 24.0 | 20.0 | 21.5 | 26.7 | 9.7 | 11.7 | 16.6 | 24.4 | 13.2 | 9.8 | 18.6 | 17.6 | 22.0 | 17.7 | 20.3 | 19.4 | 21.3 |
| 64 | HKH421 | 27.8 | 25.4 | 28.9 | 27.4 | 23.5 | 23.1 | 32.8 | 26.4 | 22.6 | 18.3 | 21.9 | 19.4 | 8.8 | 11.6 | 15.9 | 24.3 | 12.2 | 9.8 | 17.3 | 17.5 | 22.3 | 20.1 | 15.5 | 18.8 | 20.7 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 26.1 | 27.3 | 27.1 | 26.8 | 18.0 | 22.6 | 29.3 | 23.3 | 24.8 | 20.7 | 21.8 | 27.8 | 10.1 | 13.0 | 16.2 | 23.6 | 12.7 | 9.6 | 18.9 | 18.4 | 22.1 | 18.7 | 23.1 | 20.6 | 21.2 |
| 66 | PMH3 | 26.8 | 25.5 | 27.8 | 26.7 | 29.1 | 22.4 | 30.7 | 27.4 | 24.6 | 20.0 | 22.9 | 23.8 | 9.4 | 13.0 | 16.8 | 25.1 | 16.2 | 9.5 | 19.1 | 16.6 | 22.6 | 19.8 | 18.3 | 19.3 | 21.6 |
| 67 | Seedtech-2324 | 26.3 | 27.1 | 28.7 | 27.3 | 21.8 | 23.3 | 32.6 | 25.9 | 23.8 | 21.6 | 21.8 | 24.3 | 11.5 | 12.5 | 16.5 | 22.7 | 12.3 | 9.8 | 18.3 | 17.9 | 22.2 | 18.0 | 25.6 | 20.9 | 21.5 |
| 68 | BIO-9681 | 25.1 | 21.9 | 29.0 | 25.3 | 21.7 | 25.1 | 26.6 | 24.4 | 21.7 | 18.2 | 20.4 | 21.6 | 8.7 | 10.7 | 15.9 | 21.7 | 11.0 | 9.7 | 16.7 | 18.1 | 24.7 | 11.6 | 19.2 | 18.4 | 19.6 |
| | Loc. Mean | 26.6 | 25.8 | 28.0 | 26.8 | 22.1 | 22.9 | 31.5 | 25.5 | 23.9 | 20.0 | 21.9 | 23.8 | 9.2 | 12.3 | 16.8 | 24.1 | 12.8 | 9.8 | 18.4 | 17.5 | 22.4 | 17.5 | 22.3 | 19.9 | 21.2 |
| | C.D. (5%) | 0.75 | 1.43 | 1.08 | 2.06 | 3.42 | 2.38 | 2.47 | 3.22 | 1.32 | 0.97 | 2.12 | 1.89 | 4.75 | 1.81 | 0.41 | 1.80 | 2.46 | 0.53 | 1.25 | 1.78 | - | 1.45 | 0.51 | 2.88 | 1.02 |
| | C.V. (%) | 1.76 | 3.42 | 2.39 | 4.75 | 9.60 | 5.19 | 4.84 | 7.81 | 3.41 | 3.01 | 6.00 | 4.90 | 32.06 | 9.08 | 1.50 | 4.63 | 11.95 | 3.37 | 7.35 | 6.28 | - | 5.14 | 1.42 | 10.38 | 7.59 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 32.1%

Table No. 1 (Continued)

| S.No. | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | | | | | | | | | OV'L | | |
|--------|------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 2 | | | | | | ZN 3 | | | | | | ZN 4 | | | | | | ZN 5 | | | | | | | |
| | | KARN | LUDH | PANT | Mean | DHOL | RANC | VARA | Mean | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | BHIL | CHHI | | UDAI | Mean |
| 46 | GH-1102 | 60.0 | 69.0 | 57.2 | 62.1 | 90.8 | 67.0 | 66.7 | 74.8 | 60.0 | 66.7 | 57.6 | 61.1 | 48.9 | 65.6 | 62.5 | 67.8 | 55.6 | 54.9 | 60.1 | 65.0 | 41.1 | 60.4 | 58.9 | 57.6 | 56.6 | 61.6 |
| 47 | GH-1001 | 60.0 | 71.4 | 59.4 | 63.6 | 83.3 | 76.8 | 66.0 | 75.4 | 57.8 | 65.3 | 43.8 | 66.1 | 54.4 | 63.9 | 58.9 | 63.9 | 56.9 | 47.9 | 57.9 | 62.2 | 35.0 | 60.4 | 55.6 | 54.2 | 53.5 | 60.2 |
| 48 | GH-1043 | 60.0 | 69.0 | 56.1 | 61.7 | 89.2 | 67.0 | 67.4 | 74.5 | 57.2 | 66.7 | 49.3 | 63.9 | 43.3 | 65.0 | 59.5 | 63.9 | 46.5 | 39.6 | 55.5 | 60.6 | 39.4 | 50.7 | 58.3 | 63.9 | 54.6 | 58.9 |
| 49 | DKC9133 | 61.7 | 72.6 | 56.1 | 63.5 | 92.5 | 72.3 | 67.4 | 77.4 | 58.9 | 66.7 | 34.7 | 63.9 | 53.9 | 66.7 | 66.7 | 63.3 | 55.6 | 54.9 | 58.5 | 65.6 | 52.8 | 70.8 | 62.2 | 65.3 | 63.3 | 63.1 |
| 50 | X35D612 | 56.7 | 69.0 | 60.6 | 62.1 | 89.2 | 71.4 | 62.5 | 74.4 | 60.0 | 66.7 | 57.6 | 66.1 | 50.0 | 65.6 | 66.7 | 63.9 | 53.5 | 46.5 | 59.7 | 57.2 | 46.7 | 69.4 | 54.4 | 58.3 | 57.2 | 61.5 |
| 51 | X35D613 | 56.7 | 72.0 | 56.1 | 61.6 | 86.7 | 69.6 | 64.6 | 73.6 | 57.8 | 66.7 | 54.2 | 62.2 | 45.0 | 59.4 | 67.3 | 57.8 | 40.3 | 47.2 | 55.8 | 66.1 | 42.8 | 63.9 | 56.7 | 60.4 | 58.0 | 59.7 |
| 52 | X35D601 | 61.7 | 70.2 | 60.0 | 64.0 | 91.7 | 62.5 | 69.4 | 74.5 | 63.9 | 66.0 | 52.1 | 65.0 | 60.6 | 65.6 | 66.7 | 66.1 | 54.9 | 55.6 | 61.6 | 66.1 | 42.8 | 76.4 | 52.8 | 61.1 | 59.8 | 63.4 |
| 53 | BB 032 | 58.3 | 69.0 | 48.9 | 58.7 | 88.3 | 67.0 | 65.3 | 73.5 | 58.9 | 66.0 | 61.1 | 65.0 | 45.0 | 61.1 | 64.9 | 69.4 | 54.2 | 43.8 | 58.9 | 67.2 | 41.7 | 69.4 | 53.3 | 61.1 | 58.6 | 60.9 |
| 54 | HTMH-5108 | 60.0 | 73.3 | 62.2 | 65.2 | 92.5 | 80.4 | 68.8 | 80.5 | 67.8 | 66.7 | 54.9 | 65.0 | 52.8 | 65.6 | 68.5 | 70.0 | 60.4 | 45.1 | 61.7 | 63.9 | 48.9 | 76.4 | 57.2 | 61.1 | 61.5 | 64.8 |
| 55 | PRO-392 | 61.7 | 69.6 | 59.4 | 63.6 | 95.0 | 71.4 | 63.9 | 76.8 | 63.3 | 66.0 | 54.9 | 65.6 | 57.8 | 65.0 | 63.1 | 68.3 | 61.1 | 50.7 | 61.6 | 68.9 | 41.7 | 75.7 | 61.7 | 60.4 | 61.7 | 64.1 |
| 56 | BRMH-1 | 56.7 | 68.4 | 61.7 | 62.2 | 90.0 | 68.8 | 66.0 | 74.9 | 62.8 | 66.0 | 33.3 | 65.0 | 47.2 | 66.7 | 68.5 | 63.9 | 52.1 | 49.3 | 57.5 | 63.3 | 40.0 | 75.7 | 58.3 | 66.7 | 60.8 | 61.4 |
| 57 | REH-2012-3 | 56.7 | 68.4 | 57.8 | 60.9 | 85.8 | 73.2 | 62.5 | 73.8 | 52.2 | 65.3 | 49.3 | 62.2 | 40.6 | 63.9 | 65.5 | 63.3 | 41.0 | 43.1 | 54.6 | 58.3 | 45.6 | 70.8 | 54.4 | 63.2 | 58.5 | 59.2 |
| 58 | JH31623 | 63.3 | 67.8 | 53.9 | 61.7 | 83.3 | 66.1 | 66.0 | 71.8 | 61.7 | 66.0 | 59.0 | 66.1 | 37.8 | 65.0 | 65.5 | 65.6 | 53.5 | 52.1 | 59.2 | 61.7 | 43.3 | 61.8 | 43.9 | 58.3 | 53.8 | 60.1 |
| 59 | JH31638 | 61.7 | 62.3 | 57.8 | 60.6 | 70.0 | 60.7 | 62.5 | 64.4 | 47.8 | 66.0 | 52.1 | 61.1 | 40.0 | 63.9 | 61.3 | 58.9 | 49.3 | 46.5 | 54.7 | 58.9 | 48.3 | 57.6 | 48.3 | 53.5 | 53.3 | 56.6 |
| 60 | JH12010(JH12019) | 58.3 | 69.0 | 59.4 | 62.3 | 94.2 | 61.6 | 63.2 | 73.0 | 62.2 | 66.0 | 48.6 | 64.4 | 53.9 | 65.6 | 66.7 | 59.4 | 54.9 | 54.2 | 59.6 | 68.3 | 42.2 | 66.7 | 56.1 | 63.2 | 59.3 | 61.8 |
| 61 | JH12171 | 55.0 | 61.7 | 59.4 | 58.7 | 78.3 | 68.8 | 63.2 | 70.1 | 47.2 | 65.3 | 56.3 | 64.4 | 42.8 | 58.9 | 64.9 | 60.6 | 45.1 | 40.3 | 54.6 | 61.7 | 40.6 | 51.4 | 56.7 | 52.8 | 52.6 | 56.9 |
| 62 | JH12003 | 60.0 | 71.4 | 62.8 | 64.7 | 88.3 | 63.4 | 62.5 | 71.4 | 57.8 | 66.0 | 47.2 | 63.9 | 45.0 | 66.7 | 67.9 | 69.4 | 49.3 | 48.6 | 58.2 | 68.3 | 52.2 | 71.5 | 53.9 | 60.4 | 61.3 | 61.7 |
| 63 | JH12247 | 60.0 | 72.0 | 51.1 | 61.1 | 88.3 | 72.3 | 62.5 | 74.4 | 56.1 | 65.3 | 53.5 | 64.4 | 43.3 | 64.4 | 65.5 | 65.0 | 56.3 | 47.2 | 58.1 | 61.1 | 46.1 | 72.2 | 58.3 | 62.5 | 60.1 | 61.3 |
| 64 | HKH421 | 60.0 | 61.7 | 61.1 | 60.9 | 78.3 | 76.8 | 65.3 | 73.5 | 63.3 | 65.3 | 47.9 | 60.0 | 51.7 | 64.4 | 67.3 | 66.7 | 48.6 | 41.0 | 57.6 | 68.3 | 41.1 | 65.3 | 57.2 | 57.6 | 57.9 | 60.4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 58.3 | 72.6 | 58.3 | 63.1 | 86.7 | 68.8 | 63.9 | 73.1 | 63.3 | 66.7 | 53.5 | 65.0 | 56.1 | 65.6 | 59.5 | 65.6 | 49.3 | 45.8 | 59.0 | 63.9 | 51.7 | 76.4 | 57.2 | 56.3 | 61.1 | 62.1 |
| 66 | PMH3 | 58.3 | 69.6 | 61.1 | 63.0 | 88.3 | 67.9 | 61.1 | 72.4 | 63.9 | 63.9 | 52.1 | 65.0 | 52.8 | 66.7 | 57.1 | 68.3 | 54.9 | 50.7 | 59.5 | 63.9 | 43.9 | 69.4 | 58.9 | 58.3 | 58.9 | 61.7 |
| 67 | Seedtech-2324 | 56.7 | 70.8 | 60.0 | 62.5 | 90.0 | 60.7 | 68.1 | 72.9 | 56.7 | 66.0 | 59.0 | 64.4 | 55.6 | 65.6 | 64.9 | 66.1 | 60.4 | 43.8 | 60.2 | 66.1 | 51.7 | 68.8 | 60.0 | 63.9 | 62.1 | 62.8 |
| 68 | BIO-9681 | 56.7 | 67.8 | 50.0 | 58.1 | 91.7 | 61.6 | 67.4 | 73.5 | 57.8 | 66.7 | 49.3 | 63.3 | 48.3 | 66.7 | 67.9 | 68.9 | 50.0 | 48.6 | 58.7 | 63.3 | 45.6 | 53.5 | 60.6 | 58.3 | 56.3 | 60.2 |
| | Loc. Mean | 59.2 | 68.5 | 57.4 | 61.7 | 87.5 | 68.6 | 64.8 | 73.6 | 59.8 | 66.0 | 51.6 | 64.0 | 49.9 | 64.1 | 64.5 | 65.1 | 53.8 | 47.7 | 58.6 | 63.6 | 45.5 | 65.7 | 56.5 | 60.2 | 58.3 | 61.1 |
| | C.D. (5%) | 0.00 | 6.72 | 6.64 | 5.54 | 13.05 | 12.52 | 4.05 | 6.78 | 9.38 | 2.22 | 14.71 | 4.13 | 8.21 | 5.34 | 6.07 | 6.94 | 9.66 | 10.49 | 3.30 | 6.59 | 10.61 | 15.70 | 9.10 | 5.65 | 5.59 | 2.43 |
| | C.V. (%) | 0.00 | 6.07 | 7.17 | 5.56 | 9.24 | 9.14 | 3.87 | 5.70 | 9.71 | 2.09 | 17.66 | 4.00 | 10.20 | 5.16 | 5.83 | 6.60 | 11.13 | 13.62 | 6.41 | 6.42 | 14.44 | 14.80 | 9.97 | 5.81 | 7.70 | 6.57 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.32 | 0.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.55 | 0.07 | 0.39 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | EAR HEIGHT(cm) | | | | | | | | | | | | | | | | | | | | | | | OV/L | | | |
|------------------|------------------|----------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|--|
| S.No. | PEDIGREE | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | Mean | Mean | | | | | | | | |
| | | KARN | LUDH | PANT | Mean | DHOL | RANC | VARA | Mean | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | | | VRDC | Mean | AMBI | BANS | BHIL | CHHI | UDAI | |
| 41 | BH41036 | 95.0 | 123.3 | 110.7 | 109.7 | 98.3 | 90.4 | 96.5 | 95.1 | 106.0 | 93.1 | 100.1 | 86.0 | 82.7 | 61.7 | 120.7 | 121.0 | 69.0 | 76.7 | 94.4 | 110.0 | 84.1 | 91.1 | 85.0 | 98.3 | 93.7 | 96.7 | |
| 42 | BH41127 | 88.3 | 110.0 | 99.0 | 99.1 | 99.7 | 97.2 | 81.5 | 92.8 | 94.5 | 85.7 | 89.5 | 98.7 | 73.0 | 51.7 | 132.7 | 113.3 | 70.6 | 58.7 | 90.9 | 89.6 | 73.8 | 88.3 | 66.7 | 95.0 | 82.7 | 90.3 | |
| 43 | BH41642 | 101.7 | 141.7 | 111.7 | 118.3 | 122.0 | 103.8 | 112.5 | 112.8 | 110.5 | 85.0 | 114.1 | 87.7 | 73.0 | 51.7 | 136.7 | 106.3 | 67.7 | 75.7 | 92.8 | 101.9 | 87.0 | 117.2 | 63.3 | 103.3 | 94.6 | 100.4 | |
| 44 | BH41151 | 85.0 | 118.3 | 109.7 | 104.3 | 103.7 | 98.5 | 90.5 | 97.6 | 98.0 | 97.1 | 100.1 | 84.3 | 76.0 | 46.7 | 128.3 | 112.0 | 69.7 | 70.3 | 92.0 | 101.9 | 71.4 | 100.0 | 66.7 | 90.0 | 86.0 | 93.2 | |
| 45 | GH-0945 | 85.0 | 126.7 | 93.3 | 101.7 | 89.3 | 80.0 | 82.0 | 83.8 | 84.0 | 89.4 | 83.2 | 77.3 | 60.0 | 45.0 | 127.0 | 105.0 | 60.1 | 65.0 | 83.5 | 92.2 | 70.5 | 88.9 | 58.3 | 90.0 | 80.0 | 85.5 | |
| 46 | GH-1102 | 83.3 | 125.0 | 98.0 | 102.1 | 108.3 | 100.0 | 103.0 | 103.8 | 94.0 | 79.5 | 100.3 | 94.0 | 65.7 | 40.0 | 115.7 | 104.3 | 59.0 | 62.3 | 84.3 | 88.1 | 80.6 | 91.1 | 56.7 | 88.3 | 80.9 | 89.3 | |
| 47 | GH-1001 | 93.3 | 138.3 | 89.0 | 106.9 | 102.0 | 89.7 | 86.5 | 92.7 | 90.0 | 96.4 | 94.3 | 73.7 | 67.7 | 45.0 | 118.3 | 101.3 | 68.4 | 57.3 | 84.1 | 103.4 | 72.0 | 95.0 | 61.7 | 90.0 | 84.4 | 89.2 | |
| 48 | GH-1043 | 81.7 | 130.0 | 83.3 | 98.3 | 85.7 | 97.4 | 58.0 | 80.4 | 70.5 | 76.7 | 84.0 | 58.7 | 50.3 | 38.3 | 109.3 | 99.0 | 58.0 | 41.7 | 70.5 | 67.3 | 60.7 | 72.8 | 51.7 | 81.7 | 66.8 | 75.5 | |
| 49 | DKC9133 | 93.3 | 133.3 | 100.7 | 109.1 | 99.3 | 100.6 | 91.5 | 97.1 | 94.0 | 77.5 | 107.2 | 66.7 | 58.3 | 31.7 | 129.7 | 108.0 | 61.3 | 65.7 | 82.6 | 91.4 | 83.1 | 109.4 | 65.0 | 101.7 | 90.1 | 91.1 | |
| 50 | X35D612 | 80.0 | 146.7 | 113.0 | 113.2 | 118.0 | 100.6 | 90.5 | 103.0 | 109.5 | 96.7 | 110.0 | 76.3 | 76.7 | 46.7 | 145.7 | 110.7 | 66.1 | 84.0 | 95.7 | 104.9 | 81.9 | 92.8 | 55.0 | 110.0 | 88.9 | 97.8 | |
| 51 | X35D613 | 105.0 | 131.7 | 104.3 | 113.7 | 119.7 | 97.6 | 101.5 | 106.3 | 105.0 | 100.7 | 86.6 | 80.7 | 86.7 | 53.3 | 138.7 | 107.0 | 74.9 | 77.3 | 96.4 | 118.1 | 88.7 | 101.1 | 73.3 | 118.3 | 99.9 | 101.6 | |
| 52 | X35D601 | 101.7 | 146.7 | 109.7 | 119.3 | 123.0 | 101.9 | 99.0 | 108.0 | 102.0 | 101.4 | 113.4 | 84.3 | 97.3 | 53.3 | 122.7 | 115.0 | 71.0 | 70.3 | 95.5 | 116.3 | 77.2 | 112.2 | 68.3 | 135.0 | 101.8 | 102.9 | |
| 53 | BB 032 | 90.0 | 126.7 | 103.0 | 106.6 | 111.7 | 85.6 | 95.0 | 97.4 | 98.0 | 96.4 | 104.0 | 83.3 | 75.0 | 55.0 | 143.0 | 120.3 | 68.7 | 70.3 | 94.4 | 105.4 | 68.8 | 87.8 | 68.3 | 101.7 | 86.4 | 94.7 | |
| 54 | HTMH-5108 | 90.0 | 118.3 | 80.7 | 96.3 | 97.7 | 94.0 | 86.5 | 92.7 | 100.0 | 89.5 | 93.7 | 76.0 | 69.0 | 53.3 | 121.7 | 113.0 | 57.7 | 63.3 | 86.3 | 100.7 | 66.4 | 96.1 | 60.0 | 86.7 | 82.0 | 87.7 | |
| 55 | PRO-392 | 80.0 | 121.7 | 100.3 | 100.7 | 97.3 | 46.7 | 85.5 | 76.5 | 108.5 | 70.3 | 91.7 | 80.7 | 72.0 | 38.3 | 117.0 | 109.7 | 51.3 | 68.0 | 84.7 | 90.1 | 80.5 | 101.1 | 61.7 | 95.0 | 85.7 | 86.2 | |
| 56 | BRMH-1 | 86.7 | 133.3 | 101.0 | 107.0 | 116.7 | 77.0 | 99.0 | 97.6 | 94.5 | 93.8 | 128.8 | 78.3 | 75.3 | 53.3 | 137.0 | 108.0 | 60.3 | 68.0 | 89.4 | 104.9 | 75.5 | 103.3 | 60.0 | 115.0 | 91.7 | 94.1 | |
| 57 | REH-2012-3 | 80.0 | 125.0 | 94.7 | 99.9 | 105.3 | 86.0 | 90.0 | 93.8 | 96.0 | 86.2 | 98.7 | 78.3 | 57.3 | 41.7 | 126.3 | 97.7 | 58.2 | 60.3 | 82.6 | 94.3 | 60.2 | 101.7 | 63.3 | 95.0 | 82.9 | 87.2 | |
| 58 | JH31623 | 86.7 | 113.3 | 108.3 | 102.8 | 109.0 | 90.0 | 84.0 | 94.3 | 96.0 | 86.0 | 134.2 | 79.7 | 79.0 | 48.3 | 121.0 | 106.0 | 65.1 | 69.0 | 87.7 | 103.7 | 85.4 | 99.4 | 68.3 | 96.7 | 90.7 | 91.9 | |
| 59 | JH31638 | 90.0 | 136.7 | 113.0 | 113.2 | 114.0 | 105.5 | 104.0 | 107.8 | 100.5 | 102.9 | 100.3 | 89.7 | 82.3 | 51.7 | 139.7 | 111.0 | 72.0 | 78.0 | 97.0 | 98.9 | 65.4 | 100.6 | 65.0 | 113.3 | 88.6 | 99.1 | |
| 60 | JH12010(JH12019) | 78.3 | 145.0 | 100.7 | 108.0 | 125.3 | 106.4 | 105.5 | 112.4 | 120.0 | 117.7 | 107.5 | 85.7 | 85.0 | 51.7 | 143.3 | 104.3 | 74.1 | 72.0 | 100.3 | 124.0 | 92.2 | 106.1 | 65.0 | 111.7 | 99.8 | 103.3 | |
| 61 | JH12171 | 88.3 | 130.0 | 103.7 | 107.3 | 107.0 | 113.3 | 106.5 | 108.9 | 104.5 | 121.7 | 109.2 | 101.3 | 79.3 | 53.3 | 139.0 | 116.3 | 70.9 | 72.0 | 100.6 | 126.5 | 90.3 | 91.1 | 85.0 | 106.7 | 99.9 | 102.8 | |
| 62 | JH12003 | 86.7 | 140.0 | 123.0 | 116.6 | 109.7 | 111.5 | 110.5 | 110.6 | 108.5 | 113.5 | 102.4 | 100.0 | 84.3 | 53.3 | 132.0 | 123.3 | 71.1 | 75.3 | 101.0 | 126.6 | 75.5 | 107.8 | 73.3 | 101.7 | 97.0 | 103.9 | |
| 63 | JH12247 | 96.7 | 160.0 | 91.7 | 116.1 | 121.0 | 102.2 | 104.0 | 109.1 | 115.0 | 118.2 | 99.8 | 91.3 | 76.7 | 55.0 | 141.0 | 114.7 | 72.0 | 77.7 | 100.8 | 121.5 | 73.8 | 112.8 | 71.7 | 106.7 | 97.3 | 103.6 | |
| 64 | HKH421 | 75.0 | 141.7 | 88.7 | 101.8 | 92.7 | 72.2 | 90.0 | 85.0 | 89.0 | 83.1 | 148.1 | 70.3 | 71.3 | 55.0 | 126.0 | 107.0 | 52.1 | 67.7 | 83.3 | 98.7 | 72.1 | 86.1 | 71.7 | 73.3 | 80.4 | 85.7 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | PMH1 | 90.0 | 140.0 | 123.7 | 117.9 | 126.7 | 111.4 | 112.5 | 116.8 | 116.5 | 107.4 | 87.8 | 92.0 | 90.7 | 55.0 | 143.3 | 112.0 | 65.9 | 78.7 | 100.8 | 127.3 | 107.1 | 117.8 | 78.3 | 123.3 | 110.8 | 108.7 | |
| 66 | PMH3 | 86.7 | 126.7 | 122.7 | 112.0 | 132.3 | 108.6 | 110.5 | 117.1 | 115.5 | 114.3 | 92.2 | 97.3 | 96.7 | 63.3 | 155.7 | 126.0 | 70.5 | 77.3 | 106.7 | 127.8 | 75.6 | 113.9 | 80.0 | 116.7 | 102.8 | 108.1 | |
| 67 | Seedtech-2324 | 88.3 | 143.3 | 97.3 | 109.7 | 111.3 | 83.6 | 101.5 | 98.8 | 106.0 | 97.4 | 103.5 | 88.0 | 82.3 | 63.3 | 117.3 | 114.7 | 72.4 | 65.3 | 92.9 | 103.9 | 70.4 | 100.5 | 73.3 | 98.3 | 89.3 | 95.5 | |
| 68 | BIO-9681 | 93.3 | 108.3 | 100.7 | 100.8 | 92.7 | 91.2 | 89.0 | 91.0 | 80.0 | 78.1 | 77.4 | 82.3 | 69.3 | 40.0 | 118.7 | 100.0 | 56.8 | 55.7 | 80.1 | 82.9 | 81.3 | 82.2 | 53.3 | 83.3 | 76.6 | 84.2 | |
| Loc. Mean | | 89.2 | 129.8 | 103.0 | 107.3 | 107.4 | 95.3 | 95.6 | 99.5 | 100.0 | 93.8 | 102.3 | 83.6 | 75.1 | 48.6 | 128.0 | 110.8 | 65.3 | 68.3 | 90.6 | 102.9 | 78.0 | 97.8 | 66.1 | 102.4 | 89.4 | 94.3 | |
| C.D. (5%) | | 7.57 | 12.05 | 13.28 | 13.57 | 12.91 | 21.58 | 8.64 | 12.61 | 11.76 | 11.88 | 36.99 | 10.36 | 11.80 | 16.20 | 14.73 | 13.22 | 12.23 | 15.44 | 6.55 | 21.13 | 22.76 | 17.84 | 11.51 | 19.57 | 9.43 | 4.73 | |
| C.V. (%) | | 5.26 | 5.75 | 7.98 | 7.83 | 7.44 | 11.34 | 5.60 | 7.85 | 7.28 | 7.84 | 22.40 | 7.67 | 9.72 | 20.63 | 7.13 | 7.39 | 11.60 | 13.99 | 7.36 | 12.72 | 18.07 | 11.30 | 10.78 | 11.84 | 8.47 | 7.88 | |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

Locations Rejected due to High C.V.(i.e.> 20%) : DHARWAD UAS 22.4%: KOLHAPUR 20.6%

BR42

TABLE No. 2

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BERTIN, DHAULAKUAN, KANGRA, POONCH, UDHAMPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, SMFPATENCHERU, VAGARAI, VRDCD, AMBIKAPUR, CHHINDWARA, UDAIPUR IN IVT TRIAL No. TR62 (IVT-M) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | |
|-------|---------------|-------------------------------------|----|------|----|-------|----|------|----|------|----|------|----|------|----|-----------|----|-------|----|-------|----|-------|----|
| | | BAJA | R | BARA | R | BERT | R | DHAU | R | KANG | R | POON | R | UDHA | R | ZN 1 MEAN | R | KARN | R | LUDH | R | PANT | R |
| 1 | QMH-29134 | 9882 | 64 | 4609 | 44 | 3948 | 86 | 4967 | 13 | 2067 | 73 | 4891 | 72 | 5410 | 69 | 5194 | 77 | 7084 | 56 | 5485 | 77 | 8815 | 75 |
| 2 | QMH-2916 | 8165 | 81 | 4292 | 51 | 6809 | 53 | 3113 | 61 | 1900 | 78 | 5140 | 69 | 7476 | 25 | 5434 | 73 | 5862 | 84 | 4785 | 82 | 7886 | 85 |
| 3 | EHL-3412 | 11280 | 34 | 5278 | 26 | 8139 | 25 | 3314 | 56 | 1748 | 81 | 5418 | 61 | 7236 | 28 | 6189 | 45 | 7128 | 54 | 8099 | 45 | 9223 | 68 |
| 4 | EHL-1111 | 10831 | 46 | 4167 | 56 | 7622 | 42 | 4206 | 38 | 3668 | 10 | 5550 | 58 | 7633 | 23 | 6585 | 34 | 7883 | 29 | 7437 | 55 | 9991 | 49 |
| 5 | EHL-3512 | 10606 | 51 | 6265 | 9 | 8007 | 29 | 1928 | 87 | 1589 | 84 | 5291 | 66 | 5592 | 62 | 5502 | 72 | 8272 | 22 | 7572 | 54 | 8351 | 81 |
| 6 | S-6750 | 12436 | 17 | 5684 | 14 | 9211 | 11 | 2452 | 76 | 4513 | 2 | 8019 | 5 | 9142 | 9 | 7629 | 4 | 8757 | 14 | 11458 | 8 | 9998 | 48 |
| 7 | RMH-932 | 10029 | 61 | 4529 | 45 | 7831 | 36 | 4340 | 30 | 2889 | 37 | 7176 | 20 | 7195 | 29 | 6577 | 35 | 8493 | 16 | 8120 | 44 | 8142 | 83 |
| 8 | RMH-3591 | 11903 | 21 | 4810 | 39 | 9278 | 10 | 6401 | 6 | 4020 | 5 | 6314 | 40 | 9640 | 3 | 7926 | 3 | 7797 | 31 | 10653 | 16 | 11391 | 21 |
| 9 | PHM-34(W) | 9999 | 62 | 3827 | 63 | 6480 | 60 | 2184 | 86 | 2128 | 67 | 7580 | 9 | 5911 | 51 | 5714 | 60 | 5957 | 83 | 6663 | 68 | 8397 | 80 |
| 10 | PHM-12(Y) | 10875 | 44 | 6764 | 5 | 6932 | 51 | 4310 | 34 | 2943 | 35 | 6727 | 31 | 7119 | 30 | 6484 | 37 | 7480 | 40 | 9607 | 25 | 8811 | 76 |
| 11 | LG-3271 | 11319 | 33 | 2941 | 82 | 8197 | 24 | 3833 | 48 | 2373 | 55 | 6294 | 41 | 8600 | 15 | 6769 | 27 | 7336 | 45 | 9358 | 27 | 10443 | 42 |
| 12 | LG-3282 | 12687 | 10 | 4749 | 40 | 8220 | 23 | 7653 | 3 | 4191 | 4 | 7573 | 10 | 7598 | 24 | 7987 | 2 | 7797 | 30 | 11216 | 10 | 9911 | 53 |
| 13 | FCH-85 | 11978 | 20 | 5964 | 11 | 6873 | 52 | 2716 | 72 | 2334 | 57 | 5025 | 70 | 7070 | 31 | 5999 | 51 | 7105 | 55 | 6473 | 69 | 9195 | 70 |
| 14 | FCH-184 | 12133 | 18 | 5267 | 27 | 7033 | 50 | 3191 | 59 | 2834 | 40 | 5330 | 64 | 9547 | 4 | 6678 | 32 | 9267 | 3 | 7972 | 48 | 8942 | 73 |
| 15 | FCH-11231 | 11823 | 22 | 5364 | 23 | 7658 | 41 | 7585 | 4 | 2681 | 44 | 7152 | 21 | 5948 | 48 | 7141 | 11 | 8736 | 15 | 10360 | 17 | 11255 | 27 |
| 16 | KMH-6 | 8128 | 82 | 4171 | 55 | 8048 | 26 | 4096 | 41 | 3158 | 23 | 5539 | 59 | 4746 | 85 | 5619 | 67 | 8784 | 11 | 7374 | 56 | 9459 | 63 |
| 17 | KMH-84 | 9018 | 74 | 3680 | 70 | 5195 | 74 | 4494 | 25 | 2668 | 45 | 7449 | 12 | 4780 | 84 | 5600 | 69 | 6438 | 76 | 6994 | 62 | 8009 | 84 |
| 18 | KMH-6681 | 12930 | 8 | 5419 | 21 | 9321 | 7 | 2768 | 69 | 2265 | 59 | 7239 | 19 | 6925 | 33 | 6908 | 23 | 9070 | 7 | 8382 | 41 | 11316 | 22 |
| 19 | KMH-5951 | 12728 | 9 | 2790 | 83 | 7525 | 43 | 3346 | 55 | 3035 | 28 | 6205 | 42 | 9083 | 10 | 6987 | 16 | 8773 | 13 | 8559 | 36 | 9931 | 51 |
| 20 | JKMH-4545 | 11598 | 28 | 3229 | 78 | 9084 | 12 | 4249 | 36 | 3893 | 7 | 8969 | 1 | 4940 | 80 | 7122 | 12 | 9206 | 4 | 12872 | 3 | 11620 | 12 |
| 21 | SAFAL X-2 | 12532 | 14 | 7462 | 3 | 10965 | 2 | 2786 | 68 | 3395 | 15 | 7038 | 26 | 8017 | 19 | 7456 | 8 | 7628 | 35 | 10013 | 23 | 7779 | 86 |
| 22 | Kuber Shakthi | 9873 | 65 | 6515 | 6 | 7939 | 33 | 2245 | 82 | 2695 | 43 | 7740 | 8 | 6758 | 37 | 6208 | 44 | 10070 | 1 | 8172 | 42 | 11269 | 26 |
| 23 | DAS-MH-304 | 13277 | 5 | 5494 | 17 | 6242 | 62 | 4540 | 22 | 2056 | 74 | 6364 | 38 | 9310 | 7 | 6965 | 19 | 9105 | 6 | 11102 | 11 | 12137 | 6 |
| 24 | DAS-MH-305 | 12619 | 12 | 5142 | 29 | 7740 | 39 | 3486 | 53 | 3814 | 8 | 8516 | 2 | 5719 | 56 | 6982 | 17 | 6848 | 67 | 9068 | 30 | 12093 | 7 |
| 25 | KH-517 Gold | 11642 | 26 | 4376 | 48 | 5784 | 69 | 2376 | 78 | 3600 | 11 | 5233 | 68 | 5301 | 71 | 5656 | 65 | 6567 | 72 | 7235 | 58 | 9071 | 72 |
| 26 | KH-2248 | 13716 | 2 | 4149 | 57 | 5575 | 70 | 2953 | 65 | 2800 | 41 | 5682 | 55 | 5678 | 59 | 6067 | 48 | 7039 | 59 | 9030 | 32 | 10677 | 34 |
| 27 | TH-38 | 13606 | 3 | 3110 | 80 | 7837 | 35 | 4792 | 16 | 3332 | 16 | 5890 | 49 | 9643 | 2 | 7517 | 6 | 8415 | 19 | 9043 | 31 | 12476 | 4 |
| | MAHABEEJ-1202 | | | | | | | | | | | | | | | | | | | | | | |
| 28 | (Nirdhar) | 11780 | 23 | 5480 | 18 | 8663 | 16 | 2561 | 74 | 3436 | 14 | 4277 | 78 | 5403 | 70 | 6020 | 50 | 7321 | 46 | 9301 | 28 | 11073 | 28 |
| 29 | KDMH-2705 | 12117 | 19 | 4188 | 54 | 11370 | 1 | 8364 | 1 | 4703 | 1 | 7448 | 13 | 8628 | 14 | 8772 | 1 | 7890 | 28 | 11006 | 12 | 9859 | 55 |
| 30 | EH-2205 | 8591 | 78 | 4933 | 36 | 7931 | 34 | 4466 | 26 | 2047 | 75 | 7114 | 22 | 7405 | 26 | 6259 | 43 | 8866 | 9 | 8438 | 40 | 8842 | 74 |
| 31 | EH-2208 | 7734 | 83 | 4226 | 53 | 6496 | 59 | 3643 | 52 | 3144 | 25 | 7068 | 25 | 7261 | 27 | 5891 | 58 | 7080 | 57 | 9804 | 24 | 8501 | 79 |
| 32 | EH-2240 | 9287 | 68 | 5614 | 15 | 6634 | 56 | 4957 | 14 | 2837 | 39 | 5905 | 48 | 5900 | 52 | 5920 | 56 | 7131 | 53 | 8574 | 35 | 9228 | 67 |

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | |
|-------|--------------------|-------------------------------------|----|------|----|-------|----|------|----|------|----|------|----|------|----|-----------|----|------|----|-------|----|-------|----|
| | | BAJA | R | BARA | R | BERT | R | DHAU | R | KANG | R | POON | R | UDHA | R | ZN 1 MEAN | R | KARN | R | LUDH | R | PANT | R |
| 33 | VaMH-08015 | 9836 | 66 | 2999 | 81 | 4867 | 77 | 3427 | 54 | 2032 | 76 | 3513 | 85 | 5184 | 75 | 4810 | 82 | 6455 | 74 | 4973 | 80 | 8313 | 82 |
| 34 | PMH-209 | 11774 | 24 | 4357 | 49 | 5938 | 66 | 3996 | 44 | 2695 | 42 | 6393 | 37 | 5580 | 63 | 6063 | 49 | 8832 | 10 | 10328 | 18 | 10740 | 33 |
| 35 | PRMH-2177 | 10872 | 45 | 4414 | 47 | 7090 | 49 | 2192 | 84 | 2853 | 38 | 5328 | 65 | 5459 | 67 | 5632 | 66 | 6991 | 61 | 10737 | 15 | 10565 | 37 |
| 36 | NMH-1289 | 12467 | 16 | 5150 | 28 | 7988 | 32 | 2293 | 81 | 2027 | 77 | 5605 | 57 | 8861 | 11 | 6540 | 36 | 7219 | 51 | 8547 | 37 | 10324 | 44 |
| 37 | HTMH-5402 | 10921 | 42 | 6142 | 10 | 10926 | 4 | 3910 | 46 | 2486 | 50 | 5249 | 67 | 6972 | 32 | 6744 | 29 | 6945 | 65 | 6720 | 66 | 11518 | 18 |
| 38 | CMH 10-488 | 11243 | 37 | 4228 | 52 | 6011 | 64 | 2939 | 66 | 2408 | 53 | 6075 | 46 | 7787 | 20 | 6077 | 47 | 7639 | 34 | 6992 | 63 | 9917 | 52 |
| 39 | CMH 10-547 | 10306 | 56 | 3646 | 73 | 8331 | 22 | 4999 | 12 | 3320 | 17 | 7284 | 15 | 8084 | 18 | 7054 | 14 | 8152 | 24 | 10294 | 19 | 12568 | 3 |
| 40 | CMH 11-582 | 13191 | 6 | 5044 | 33 | 6357 | 61 | 3780 | 50 | 3260 | 20 | 8026 | 4 | 5854 | 53 | 6745 | 28 | 8283 | 21 | 10996 | 13 | 9878 | 54 |
| 41 | CMH 11-603 | 11423 | 32 | 5426 | 20 | 8715 | 15 | 3790 | 49 | 2196 | 62 | 5367 | 63 | 6160 | 47 | 6275 | 41 | 7177 | 52 | 7958 | 49 | 10499 | 40 |
| 42 | CMH 11-617 | 12686 | 11 | 5293 | 25 | 7214 | 47 | 4325 | 32 | 2589 | 47 | 7244 | 18 | 8796 | 12 | 7142 | 10 | 7318 | 47 | 10125 | 22 | 11580 | 13 |
| 43 | IM8478 | 11550 | 29 | 5381 | 22 | 9279 | 9 | 3647 | 51 | 3697 | 9 | 8146 | 3 | 8444 | 17 | 7460 | 7 | 9154 | 5 | 14376 | 1 | 11775 | 10 |
| 44 | IM8479 | 11102 | 38 | 6351 | 7 | 8361 | 20 | 4177 | 40 | 3913 | 6 | 7284 | 16 | 6607 | 39 | 6907 | 24 | 7557 | 37 | 12381 | 4 | 8667 | 77 |
| 45 | IM8581 | 11244 | 36 | 4850 | 37 | 8048 | 27 | 4498 | 23 | 3106 | 26 | 6569 | 34 | 8747 | 13 | 7035 | 15 | 7641 | 33 | 12114 | 5 | 11740 | 11 |
| 46 | IM 7519 | 10980 | 40 | 4633 | 43 | 9554 | 6 | 2412 | 77 | 2942 | 36 | 5967 | 47 | 5726 | 55 | 6264 | 42 | 7897 | 27 | 11633 | 7 | 11288 | 23 |
| 47 | IM 7501 | 13856 | 1 | 5072 | 31 | 10963 | 3 | 2192 | 83 | 3034 | 29 | 7081 | 24 | 5252 | 72 | 7063 | 13 | 6242 | 80 | 13369 | 2 | 11573 | 15 |
| 48 | BH 41015 | 11671 | 25 | 5589 | 16 | 8436 | 19 | 2185 | 85 | 2227 | 61 | 7424 | 14 | 6443 | 42 | 6398 | 38 | 7408 | 44 | 4742 | 83 | 12612 | 2 |
| 49 | BH 41030 | 10947 | 41 | 3986 | 60 | 4323 | 83 | 4429 | 28 | 2606 | 46 | 4570 | 77 | 8547 | 16 | 5904 | 57 | 8074 | 25 | 6771 | 65 | 11427 | 20 |
| 50 | BH 41145 | 11448 | 31 | 3560 | 74 | 4794 | 78 | 2672 | 73 | 2123 | 68 | 6811 | 28 | 5747 | 54 | 5599 | 70 | 6802 | 69 | 7899 | 50 | 10652 | 35 |
| 51 | BH 41150 | 9947 | 63 | 3840 | 62 | 3264 | 87 | 5055 | 11 | 3076 | 27 | 3621 | 83 | 4794 | 83 | 4959 | 80 | 7024 | 60 | 7365 | 57 | 10336 | 43 |
| 52 | BH 411736 | 9268 | 69 | 2626 | 84 | 5568 | 71 | 4364 | 29 | 1871 | 80 | 4829 | 74 | 5518 | 66 | 5236 | 76 | 7306 | 48 | 6353 | 71 | 9749 | 58 |
| 53 | BH 411737 | 8634 | 77 | 5067 | 32 | 7998 | 30 | 5768 | 9 | 3001 | 33 | 4149 | 79 | 6185 | 46 | 5956 | 53 | 6845 | 68 | 8479 | 39 | 10016 | 47 |
| 54 | BH 411520 | 5704 | 87 | 6988 | 4 | 4021 | 85 | 4448 | 27 | 2145 | 66 | 2823 | 87 | 4983 | 79 | 4021 | 87 | 4361 | 87 | 4392 | 87 | 9742 | 59 |
| 55 | VEH 12-1 | 10067 | 59 | 5022 | 35 | 4713 | 80 | 4200 | 39 | 2119 | 69 | 3597 | 84 | 4819 | 82 | 4919 | 81 | 8923 | 8 | 6390 | 70 | 8562 | 78 |
| 56 | X35D620 | 12544 | 13 | 3183 | 79 | 8009 | 28 | 4260 | 35 | 4400 | 3 | 7906 | 6 | 4704 | 86 | 6971 | 18 | 8436 | 17 | 11304 | 9 | 13165 | 1 |
| 57 | X35D623 | 13078 | 7 | 4417 | 46 | 7434 | 44 | 2905 | 67 | 2462 | 52 | 6778 | 30 | 5694 | 57 | 6392 | 39 | 9539 | 2 | 7103 | 59 | 11538 | 17 |
| 58 | X35D602 | 12506 | 15 | 5323 | 24 | 6641 | 55 | 4553 | 21 | 3304 | 18 | 7871 | 7 | 6673 | 38 | 6925 | 22 | 8178 | 23 | 11912 | 6 | 11277 | 25 |
| 59 | X35D603 | 13360 | 4 | 4839 | 38 | 6189 | 63 | 3271 | 57 | 3028 | 30 | 7102 | 23 | 9921 | 1 | 7145 | 9 | 7754 | 32 | 10281 | 20 | 12447 | 5 |
| 60 | Bio 451 | 11027 | 39 | 5928 | 12 | 10824 | 5 | 4049 | 43 | 3500 | 13 | 6820 | 27 | 9489 | 5 | 7618 | 5 | 7467 | 41 | 8601 | 34 | 10447 | 41 |
| 61 | GWH-0711 | 6622 | 86 | 2163 | 85 | 5131 | 75 | 3845 | 47 | 2096 | 72 | 4609 | 76 | 5654 | 61 | 4659 | 86 | 4771 | 86 | 4930 | 81 | 10154 | 46 |
| 62 | REH-2012-1 | 9185 | 71 | 3397 | 76 | 7658 | 40 | 2373 | 79 | 1889 | 79 | 6175 | 43 | 6787 | 35 | 5678 | 62 | 6100 | 82 | 7685 | 53 | 11483 | 19 |
| 63 | REH-2012-2 | 9164 | 72 | 3818 | 64 | 8521 | 17 | 2739 | 71 | 2251 | 60 | 5775 | 53 | 5200 | 74 | 5608 | 68 | 7459 | 42 | 7015 | 61 | 9645 | 61 |
| 64 | REH-2012-4 | 8525 | 79 | 5117 | 30 | 7991 | 31 | 2535 | 75 | 2564 | 48 | 4986 | 71 | 5222 | 73 | 5304 | 75 | 6300 | 79 | 5366 | 78 | 11829 | 9 |
| 65 | JH 31595 | 10493 | 55 | 6297 | 8 | 7803 | 37 | 6181 | 7 | 3257 | 21 | 6638 | 32 | 6509 | 40 | 6813 | 26 | 7510 | 39 | 8531 | 38 | 9666 | 60 |
| 66 | JH 31537 | 9246 | 70 | 3653 | 72 | 8351 | 21 | 5862 | 8 | 2971 | 34 | 5768 | 54 | 9386 | 6 | 6931 | 21 | 7060 | 58 | 8090 | 46 | 11908 | 8 |
| 67 | JH 31604 | 10817 | 48 | 5797 | 13 | 8908 | 13 | 5704 | 10 | 3267 | 19 | 5833 | 52 | 5935 | 50 | 6744 | 30 | 8391 | 20 | 10233 | 21 | 10902 | 30 |
| 68 | JH 31600(JH 31627) | 10580 | 52 | 7541 | 2 | 5957 | 65 | 4858 | 15 | 3555 | 12 | 7525 | 11 | 9303 | 8 | 6963 | 20 | 7592 | 36 | 10947 | 14 | 10944 | 29 |
| 69 | JH 31244 | 10049 | 60 | 3670 | 71 | 6626 | 57 | 4495 | 24 | 3144 | 24 | 6324 | 39 | 5007 | 78 | 5941 | 55 | 6717 | 71 | 6151 | 74 | 11572 | 16 |

BR44

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | |
|-------|----------------------|-------------------------------------|----|--------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|--------------|----|
| | | BAJA | R | BARA | R | BERT | R | DHAU | R | KANG | R | POON | R | UDHA | R | MEAN | R | KARN | R | LUDH | R | PANT | R |
| 70 | JH 31554 | 10817 | 47 | 3759 | 67 | 5790 | 68 | 3001 | 63 | 2163 | 65 | 7271 | 17 | 7762 | 21 | 6134 | 46 | 8782 | 12 | 9521 | 26 | 11574 | 14 |
| 71 | AH-1226 | 7312 | 85 | 1270 | 87 | 5207 | 73 | 4703 | 19 | 1676 | 82 | 3664 | 82 | 5545 | 65 | 4685 | 85 | 5567 | 85 | 4561 | 85 | 9447 | 64 |
| 72 | AH-1262 | 10161 | 57 | 1818 | 86 | 6803 | 54 | 3132 | 60 | 1585 | 85 | 6096 | 44 | 6449 | 41 | 5704 | 61 | 7451 | 43 | 5885 | 75 | 9230 | 66 |
| 73 | MMH-2-12-13 | 11640 | 27 | 3683 | 69 | 5468 | 72 | 7472 | 5 | 2290 | 58 | 6576 | 33 | 7697 | 22 | 6857 | 25 | 6440 | 75 | 7802 | 51 | 10278 | 45 |
| 74 | MMH-3-12-13 | 10159 | 58 | 3252 | 77 | 6552 | 58 | 3204 | 58 | 2174 | 63 | 4880 | 73 | 6212 | 45 | 5530 | 71 | 7955 | 26 | 8128 | 43 | 9133 | 71 |
| 75 | MMH-4-12-13 | 8381 | 80 | 4079 | 58 | 5036 | 76 | 4248 | 37 | 1315 | 87 | 5447 | 60 | 6243 | 43 | 5112 | 78 | 8423 | 18 | 4536 | 86 | 10569 | 36 |
| 76 | MMH-5-12-13 | 7385 | 84 | 3787 | 66 | 4189 | 84 | 4774 | 17 | 1535 | 86 | 4738 | 75 | 5555 | 64 | 4696 | 84 | 6435 | 77 | 5240 | 79 | 4271 | 87 |
| 77 | HKH 338 | 11276 | 35 | 3708 | 68 | 4750 | 79 | 4079 | 42 | 3186 | 22 | 6499 | 36 | 5944 | 49 | 5956 | 54 | 6731 | 70 | 7779 | 52 | 9208 | 69 |
| 78 | HKH 339 | 10527 | 54 | 4319 | 50 | 7334 | 46 | 3954 | 45 | 3004 | 32 | 6077 | 45 | 6836 | 34 | 6288 | 40 | 6545 | 73 | 8071 | 47 | 9760 | 57 |
| 79 | HKH 340 | 8978 | 76 | 3880 | 61 | 4360 | 82 | 3067 | 62 | 2117 | 70 | 5397 | 62 | 6216 | 44 | 5022 | 79 | 6152 | 81 | 6218 | 73 | 9942 | 50 |
| 80 | KNMH-4302 | 10621 | 50 | 3413 | 75 | 7793 | 38 | 4316 | 33 | 2115 | 71 | 3509 | 86 | 5672 | 60 | 5671 | 63 | 6941 | 66 | 6343 | 72 | 10563 | 38 |
| 81 | KNMH-4303 | 9010 | 75 | 4078 | 59 | 5794 | 67 | 4729 | 18 | 1676 | 83 | 5843 | 51 | 4917 | 81 | 5328 | 74 | 6988 | 62 | 4668 | 84 | 10539 | 39 |
| 82 | KNMH-4304 | 11464 | 30 | 3790 | 65 | 8502 | 18 | 2970 | 64 | 2173 | 64 | 3733 | 81 | 5121 | 77 | 5661 | 64 | 7255 | 50 | 5587 | 76 | 11280 | 24 |
| 83 | KNMH-4305 | 9831 | 67 | 5460 | 19 | 9307 | 8 | 4338 | 31 | 2399 | 54 | 5673 | 56 | 4269 | 87 | 5969 | 52 | 6986 | 63 | 6786 | 64 | 9301 | 65 |
| 84 | KNMH-4010131 | 10732 | 49 | 4679 | 41 | 8815 | 14 | 4566 | 20 | 2561 | 49 | 6521 | 35 | 6761 | 36 | 6659 | 33 | 7278 | 49 | 9128 | 29 | 10756 | 32 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 10907 | 43 | 5035 | 34 | 7199 | 48 | 7975 | 2 | 3011 | 31 | 5850 | 50 | 5428 | 68 | 6728 | 31 | 6958 | 64 | 6697 | 67 | 9839 | 56 |
| 86 | BIO9637 | 10562 | 53 | 4646 | 42 | 7374 | 45 | 2753 | 70 | 2356 | 56 | 6795 | 29 | 5135 | 76 | 5829 | 59 | 7543 | 38 | 8923 | 33 | 10883 | 31 |
| 87 | HM12 | 9155 | 73 | 8752 | 1 | 4470 | 81 | 2314 | 80 | 2479 | 51 | 4126 | 80 | 5685 | 58 | 4705 | 83 | 6324 | 78 | 7090 | 60 | 9563 | 62 |
| | Location Mean | 10740 | | 4629 | | 7220 | | 3991 | | 2735 | | 6080 | | 6668 | | 6239 | | 7488 | | 8336 | | 10244 | |
| | C.D. (5%) | 1487 | | 3614 | | 888 | | 543 | | 223 | | 1282 | | 951 | | 896 | | 703 | | 1594 | | 1689 | |
| | C.V. (%) | 8.59 | | 39.27 | | 7.64 | | 8.44 | | 5.06 | | 13.08 | | 8.85 | | - | | 5.82 | | 11.86 | | 10.23 | |
| | F (Prob) | 0 | | 0.522 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | Plot Size | 3.6 | | 4.5 | | 2.4 | | 3.6 | | 4.8 | | 4.8 | | 4.8 | | - | | 6 | | 5.46 | | 6 | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 17-06 | | 24-06 | | 21-06 | | 24-06 | | 19-06 | | 19-06 | | 2-07 | | - | | 29-06 | | 21-06 | | 4-08 | |
| | Harvest Date | 9-10 | | 11-10 | | 9-10 | | 2-10 | | 25-09 | | 20-10 | | 8-10 | | - | | 10-10 | | 6-10 | | 25-11 | |
| | Irrigation Nos | 3 | | - | | - | | - | | - | | - | | - | | - | | 6 | | 5 | | 1 | |
| | Fertilizer Applied N | 120 | | 80 | | 120 | | 120 | | 120 | | 80 | | 120 | | - | | 150 | | 125 | | 120 | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | 60 | | 60 | | 60 | | - | | 60 | | 60 | | 60 | |
| | Fertilizer Applied K | 40 | | 40 | | 40 | | 40 | | 40 | | 40 | | 40 | | - | | 60 | | 30 | | 40 | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

TABLE No. 2 (Cont...)

| Sl No | PEDIGREE | ZN 2 | | | | | | | | | | ZN 3 | | | | | | | | | | | |
|-------|-------------------------|-------|----|------|----|-------|----|------|----|------|----|------|----|-------|----|-------|----|-------|----|-------|----|------|----|
| | | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R |
| 1 | QMH-29134 | 7128 | 80 | 3768 | 86 | 7272 | 80 | 4280 | 69 | 5420 | 70 | 5185 | 83 | 4727 | 71 | 5757 | 79 | 4570 | 85 | 7268 | 74 | 7282 | 56 |
| 2 | QMH-2916 | 6177 | 85 | 4636 | 74 | 7929 | 69 | 2919 | 85 | 4154 | 85 | 4910 | 86 | 3283 | 85 | 4066 | 87 | 4556 | 86 | 5701 | 85 | 5454 | 85 |
| 3 | EHL-3412 | 8150 | 59 | 4797 | 67 | 9990 | 14 | 2666 | 87 | 6883 | 24 | 6084 | 65 | 6537 | 36 | 8699 | 36 | 5933 | 70 | 8962 | 39 | 7913 | 39 |
| 4 | EHL-1111 | 8437 | 49 | 4497 | 77 | 6811 | 84 | 3807 | 80 | 5982 | 52 | 5274 | 82 | 5012 | 67 | 5503 | 82 | 5309 | 80 | 7655 | 65 | 8244 | 29 |
| 5 | EHL-3512 | 8065 | 62 | 7141 | 6 | 7709 | 74 | 5860 | 31 | 6215 | 46 | 6731 | 39 | 6256 | 42 | 9324 | 28 | 5339 | 78 | 7947 | 62 | 7107 | 62 |
| 6 | S-6750 | 10071 | 12 | 5940 | 29 | 10452 | 11 | 8968 | 3 | 9005 | 2 | 8591 | 4 | 10204 | 1 | 12568 | 1 | 8204 | 27 | 12127 | 2 | 8370 | 20 |
| 7 | RMH-932 | 8252 | 55 | 5300 | 49 | 10422 | 12 | 5396 | 46 | 5937 | 55 | 6764 | 37 | 6676 | 32 | 9422 | 25 | 7629 | 37 | 9254 | 27 | 8659 | 8 |
| 8 | RMH-3591 | 9947 | 16 | 4867 | 64 | 9528 | 23 | 4898 | 56 | 6450 | 37 | 6436 | 52 | 7856 | 19 | 11774 | 4 | 6385 | 64 | 10407 | 11 | 8013 | 35 |
| 9 | PHM-34(W) | 7005 | 81 | 6947 | 12 | 8517 | 60 | 4470 | 66 | 3898 | 86 | 5958 | 68 | 5431 | 60 | 6521 | 73 | 6516 | 60 | 5373 | 86 | 7536 | 51 |
| 10 | PHM-12(Y) | 8633 | 41 | 6965 | 10 | 9277 | 31 | 4527 | 64 | 6574 | 35 | 6836 | 35 | 3799 | 81 | 10910 | 9 | 6318 | 65 | 8918 | 41 | 7681 | 46 |
| 11 | LG-3271 | 9046 | 33 | 5339 | 46 | 11328 | 5 | 3598 | 83 | 5886 | 56 | 6538 | 47 | 5837 | 48 | 11323 | 5 | 6033 | 68 | 8289 | 53 | 6800 | 69 |
| 12 | LG-3282 | 9641 | 22 | 4892 | 63 | 8860 | 46 | 6993 | 15 | 7847 | 11 | 7148 | 22 | 8551 | 13 | 9106 | 32 | 9301 | 11 | 9269 | 25 | 8632 | 11 |
| 13 | FCH-85 | 7591 | 75 | 6804 | 16 | 8787 | 50 | 7504 | 10 | 5626 | 66 | 7180 | 20 | 5074 | 65 | 8321 | 41 | 8279 | 26 | 6261 | 79 | 7112 | 61 |
| 14 | FCH-184 | 8727 | 38 | 5265 | 51 | 7801 | 73 | 5805 | 34 | 5951 | 54 | 6206 | 60 | 3779 | 83 | 11962 | 2 | 7581 | 39 | 7479 | 69 | 8476 | 18 |
| 15 | FCH-11231 | 10117 | 11 | 7753 | 4 | 10604 | 8 | 6752 | 20 | 5879 | 57 | 7747 | 8 | 9070 | 6 | 10797 | 11 | 9297 | 12 | 9106 | 35 | 8253 | 26 |
| 16 | KMH-6 | 8539 | 44 | 4045 | 85 | 9353 | 30 | 5681 | 37 | 5957 | 53 | 6259 | 58 | 4423 | 76 | 7119 | 67 | 6421 | 63 | 7326 | 73 | 6456 | 72 |
| 17 | KMH-84 | 7147 | 79 | 6823 | 15 | 7411 | 77 | 4228 | 71 | 4293 | 83 | 5689 | 76 | 5448 | 59 | 7500 | 60 | 5040 | 83 | 6065 | 83 | 5766 | 82 |
| 18 | KMH-6681 | 9589 | 23 | 4681 | 73 | 9837 | 18 | 8648 | 5 | 6635 | 33 | 7450 | 10 | 8502 | 14 | 11108 | 8 | 6047 | 67 | 7878 | 63 | 9208 | 2 |
| 19 | KMH-5951 | 9087 | 31 | 9015 | 1 | 9468 | 26 | 4810 | 60 | 6399 | 39 | 7423 | 13 | 4439 | 75 | 8259 | 43 | 5276 | 81 | 9652 | 18 | 5883 | 81 |
| 20 | JKMH-4545 | 11233 | 2 | 6239 | 25 | 8828 | 48 | 7020 | 14 | 7676 | 12 | 7441 | 11 | 6876 | 29 | 8750 | 35 | 10331 | 3 | 9235 | 28 | 8897 | 5 |
| 21 | SAFAL X-2 | 8473 | 45 | 7435 | 5 | 8968 | 42 | 4570 | 63 | 6392 | 40 | 6841 | 34 | 9021 | 8 | 7804 | 54 | 8961 | 16 | 7326 | 72 | 8247 | 28 |
| 22 | Kuber Shakthi | 9837 | 18 | 7041 | 8 | 9762 | 19 | 9081 | 2 | 8550 | 5 | 8608 | 3 | 7934 | 18 | 7529 | 59 | 10795 | 1 | 10680 | 8 | 8507 | 17 |
| 23 | DAS-MH-304 | 10781 | 4 | 6003 | 28 | 8764 | 52 | 3113 | 84 | 6596 | 34 | 6119 | 63 | 5805 | 50 | 9935 | 18 | 4317 | 87 | 8248 | 55 | 8607 | 14 |
| 24 | DAS-MH-305 | 9336 | 28 | 8222 | 2 | 9966 | 15 | 8783 | 4 | 8848 | 3 | 8955 | 1 | 8669 | 11 | 9239 | 29 | 8004 | 32 | 8757 | 47 | 7879 | 40 |
| 25 | KH-517 Gold | 7624 | 74 | 6046 | 27 | 6971 | 83 | 3993 | 77 | 5751 | 60 | 5690 | 75 | 5594 | 54 | 6210 | 76 | 9147 | 14 | 8064 | 59 | 6171 | 79 |
| 26 | KH-2248 | 8915 | 35 | 6346 | 21 | 8695 | 55 | 5299 | 50 | 5834 | 58 | 6543 | 46 | 4862 | 70 | 10283 | 15 | 6560 | 59 | 8384 | 51 | 7273 | 57 |
| 27 | TH-38 | 9978 | 13 | 4463 | 79 | 8699 | 53 | 6921 | 17 | 6197 | 47 | 6570 | 45 | 4180 | 77 | 8166 | 45 | 6899 | 54 | 9158 | 31 | 7490 | 52 |
| 28 | MAHABEEJ-1202 (Nirdhar) | 9232 | 29 | 7813 | 3 | 8605 | 59 | 4800 | 61 | 5799 | 59 | 6754 | 38 | 7403 | 23 | 8696 | 37 | 7665 | 36 | 7653 | 66 | 7367 | 53 |
| 29 | KDMH-2705 | 9585 | 24 | 5250 | 52 | 8294 | 64 | 8305 | 6 | 6186 | 48 | 7009 | 27 | 9205 | 4 | 9578 | 22 | 8072 | 30 | 7962 | 61 | 9468 | 1 |
| 30 | EH-2205 | 8715 | 39 | 5112 | 60 | 7530 | 75 | 5926 | 29 | 6429 | 38 | 6249 | 59 | 5653 | 53 | 8029 | 47 | 6898 | 55 | 6898 | 77 | 7561 | 50 |
| 31 | EH-2208 | 8462 | 46 | 5582 | 38 | 10473 | 10 | 6317 | 23 | 5104 | 72 | 6869 | 33 | 6454 | 39 | 8488 | 39 | 7408 | 42 | 6889 | 78 | 6389 | 73 |
| 32 | EH-2240 | 8311 | 53 | 5144 | 58 | 8072 | 66 | 9114 | 1 | 7410 | 16 | 7435 | 12 | 7286 | 24 | 8277 | 42 | 7065 | 50 | 8009 | 60 | 8641 | 9 |

BR46

| SI No | PEDIGREE | ZN 2 | | | | | | | | | | ZN 3 | | | | | | | | | | | |
|----------|--------------------|-------|----|------|----|-------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|-------|----|------|----|
| | | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R |
| 33 | VaMH-08015 | 6580 | 83 | 4090 | 84 | 8345 | 63 | 5272 | 51 | 4445 | 81 | 5538 | 77 | 5080 | 64 | 6256 | 75 | 5650 | 77 | 7849 | 64 | 6252 | 76 |
| 34 | PMH-209 | 9967 | 14 | 6267 | 23 | 9142 | 36 | 5512 | 40 | 5638 | 64 | 6640 | 42 | 5886 | 46 | 9189 | 30 | 7926 | 33 | 7372 | 71 | 6623 | 70 |
| 35 | PRMH-2177 | 9431 | 26 | 5938 | 30 | 9078 | 38 | 5514 | 39 | 6321 | 43 | 6713 | 41 | 5819 | 49 | 8171 | 44 | 7458 | 41 | 8399 | 50 | 7101 | 63 |
| 36 | NMH-1289 | 8697 | 40 | 6082 | 26 | 9223 | 34 | 4862 | 59 | 8144 | 6 | 7078 | 25 | 6122 | 43 | 11227 | 6 | 8665 | 22 | 8144 | 58 | 8669 | 7 |
| 37 | HTMH-5402 | 8394 | 52 | 5387 | 43 | 8874 | 44 | 6080 | 26 | 6926 | 22 | 6817 | 36 | 6803 | 30 | 10622 | 13 | 10548 | 2 | 10994 | 6 | 8106 | 32 |
| 38 | CMH 10-488 | 8183 | 57 | 4629 | 76 | 9741 | 21 | 6927 | 16 | 6700 | 28 | 6999 | 28 | 8109 | 17 | 9896 | 20 | 8858 | 19 | 9329 | 22 | 8516 | 16 |
| 39 | CMH 10-547 | 10338 | 8 | 4923 | 62 | 9069 | 39 | 6255 | 25 | 7646 | 14 | 6973 | 31 | 8471 | 16 | 10639 | 12 | 9888 | 7 | 9546 | 20 | 8597 | 15 |
| 40 | CMH 11-582 | 9719 | 20 | 6259 | 24 | 10581 | 9 | 5420 | 45 | 9451 | 1 | 7928 | 5 | 9989 | 2 | 11897 | 3 | 8783 | 20 | 11694 | 3 | 8313 | 23 |
| 41 | CMH 11-603 | 8545 | 43 | 5138 | 59 | 11246 | 6 | 7534 | 8 | 5660 | 63 | 7394 | 14 | 6627 | 34 | 9944 | 16 | 10114 | 5 | 10443 | 10 | 7970 | 38 |
| 42 | CMH 11-617 | 9674 | 21 | 5191 | 56 | 8348 | 62 | 7497 | 11 | 6868 | 26 | 6976 | 30 | 9891 | 3 | 9931 | 19 | 9933 | 6 | 9070 | 36 | 8312 | 24 |
| 43 | IM8478 | 11768 | 1 | 6952 | 11 | 13474 | 1 | 7177 | 13 | 7890 | 9 | 8873 | 2 | 9031 | 7 | 11115 | 7 | 9595 | 8 | 9141 | 34 | 8176 | 30 |
| 44 | IM8479 | 9535 | 25 | 7072 | 7 | 9511 | 24 | 7928 | 7 | 6857 | 27 | 7842 | 6 | 8906 | 9 | 9849 | 21 | 8933 | 17 | 10793 | 7 | 8170 | 31 |
| 45 | IM8581 | 10499 | 5 | 6747 | 17 | 9410 | 29 | 7530 | 9 | 7340 | 17 | 7757 | 7 | 8482 | 15 | 9936 | 17 | 9517 | 9 | 8911 | 42 | 7977 | 36 |
| 46 | IM 7519 | 10273 | 9 | 6680 | 18 | 8682 | 56 | 5845 | 32 | 7200 | 19 | 7102 | 24 | 4985 | 68 | 9354 | 26 | 10258 | 4 | 9149 | 33 | 7793 | 42 |
| 47 | IM 7501 | 10395 | 7 | 6930 | 13 | 10279 | 13 | 5352 | 47 | 7920 | 7 | 7620 | 9 | 5317 | 61 | 9565 | 23 | 8294 | 25 | 10097 | 13 | 8358 | 21 |
| 48 | BH 41015 | 8254 | 54 | 5320 | 47 | 8809 | 49 | 5775 | 35 | 6143 | 49 | 6512 | 48 | 5679 | 52 | 6531 | 72 | 8309 | 24 | 8980 | 38 | 8623 | 12 |
| 49 | BH 41030 | 8757 | 37 | 5379 | 44 | 8629 | 57 | 5878 | 30 | 6517 | 36 | 6601 | 44 | 7022 | 28 | 8381 | 40 | 9226 | 13 | 8147 | 57 | 9169 | 3 |
| 50 | BH 41145 | 8451 | 47 | 5074 | 61 | 7938 | 67 | 4886 | 58 | 7259 | 18 | 6289 | 56 | 5023 | 66 | 5201 | 84 | 7467 | 40 | 9264 | 26 | 9058 | 4 |
| 51 | BH 41150 | 8242 | 56 | 4696 | 72 | 8219 | 65 | 5329 | 48 | 4864 | 77 | 5777 | 73 | 5504 | 56 | 7939 | 51 | 8918 | 18 | 8799 | 45 | 7314 | 55 |
| 52 | BH 411736 | 7803 | 71 | 5834 | 32 | 11557 | 2 | 5815 | 33 | 5424 | 69 | 7157 | 21 | 5481 | 57 | 6550 | 71 | 7173 | 47 | 6254 | 80 | 6842 | 68 |
| 53 | BH 411737 | 8447 | 48 | 4464 | 78 | 7933 | 68 | 6625 | 22 | 5626 | 65 | 6162 | 61 | 6520 | 37 | 7283 | 66 | 6714 | 56 | 8302 | 52 | 6563 | 71 |
| 54 | BH 411520 | 6165 | 86 | 4835 | 66 | 7329 | 79 | 2856 | 86 | 4466 | 80 | 4871 | 87 | 2683 | 87 | 4633 | 85 | 7813 | 34 | 5978 | 84 | 6285 | 75 |
| 55 | VEH 12-1 | 7958 | 65 | 5245 | 54 | 9125 | 37 | 4239 | 70 | 5108 | 71 | 5929 | 70 | 4118 | 78 | 7596 | 58 | 8012 | 31 | 8446 | 49 | 7078 | 64 |
| 56 | X35D620 | 10968 | 3 | 4413 | 82 | 9452 | 27 | 5143 | 54 | 6871 | 25 | 6470 | 51 | 6114 | 44 | 9187 | 31 | 7136 | 49 | 8722 | 48 | 8334 | 22 |
| 57 | X35D623 | 9394 | 27 | 4711 | 71 | 11429 | 3 | 5152 | 53 | 7879 | 10 | 7293 | 17 | 7719 | 20 | 10838 | 10 | 6988 | 52 | 10406 | 12 | 8636 | 10 |
| 58 | X35D602 | 10456 | 6 | 5481 | 40 | 7048 | 82 | 6687 | 21 | 6692 | 29 | 6477 | 50 | 9156 | 5 | 9456 | 24 | 9318 | 10 | 12148 | 1 | 8610 | 13 |
| 59 | X35D603 | 10161 | 10 | 5288 | 50 | 9879 | 17 | 5183 | 52 | 8590 | 4 | 7235 | 18 | 8639 | 12 | 9330 | 27 | 8108 | 29 | 11230 | 5 | 8424 | 19 |
| 60 | Bio 451 | 8838 | 36 | 4633 | 75 | 10859 | 7 | 6901 | 18 | 6333 | 41 | 7182 | 19 | 7575 | 21 | 10364 | 14 | 8120 | 28 | 7192 | 75 | 7630 | 48 |
| 61 | GWH-0711 | 6618 | 82 | 5826 | 33 | 5858 | 87 | 3837 | 79 | 4309 | 82 | 4958 | 85 | 3786 | 82 | 4303 | 86 | 6569 | 58 | 5129 | 87 | 5020 | 87 |
| 62 | REH-2012-1 | 8423 | 50 | 6991 | 9 | 9060 | 40 | 6289 | 24 | 5586 | 67 | 6981 | 29 | 4068 | 79 | 7953 | 50 | 5753 | 76 | 8862 | 44 | 6238 | 77 |
| 63 | REH-2012-2 | 8039 | 64 | 5350 | 45 | 7839 | 72 | 4208 | 72 | 6263 | 45 | 5915 | 71 | 4663 | 72 | 7621 | 57 | 7246 | 46 | 6223 | 81 | 7693 | 45 |
| 64 | REH-2012-4 | 7832 | 69 | 4426 | 80 | 5910 | 86 | 4106 | 73 | 5505 | 68 | 4987 | 84 | 4617 | 73 | 7416 | 62 | 6984 | 53 | 7077 | 76 | 6004 | 80 |
| 65 | JH 31595 | 8569 | 42 | 5690 | 35 | 9267 | 32 | 6014 | 28 | 7143 | 21 | 7029 | 26 | 7255 | 25 | 7994 | 48 | 7610 | 38 | 7598 | 68 | 7865 | 41 |
| 66 | JH 31537 | 9020 | 34 | 5779 | 34 | 9683 | 22 | 5687 | 36 | 6663 | 32 | 6953 | 32 | 6453 | 40 | 8842 | 33 | 7376 | 43 | 8260 | 54 | 7336 | 54 |
| 67 | JH 31604 | 9842 | 17 | 4779 | 69 | 8628 | 58 | 5463 | 43 | 7657 | 13 | 6632 | 43 | 7171 | 26 | 8524 | 38 | 5316 | 79 | 9158 | 30 | 8847 | 6 |
| 68 | JH 31600(JH 31627) | 9828 | 19 | 5581 | 39 | 9147 | 35 | 7329 | 12 | 7492 | 15 | 7387 | 15 | 6456 | 38 | 8827 | 34 | 8667 | 21 | 9169 | 29 | 7646 | 47 |
| 69 | JH 31244 | 8147 | 60 | 6355 | 20 | 9024 | 41 | 4083 | 75 | 6139 | 50 | 6400 | 53 | 6675 | 33 | 6570 | 70 | 8461 | 23 | 11416 | 4 | 7000 | 66 |

| SI No | PEDIGREE | ZN 2 | | | | | | | | | | ZN 3 | | | | | | | | | | | |
|-------|----------------------|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| | | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R |
| 70 | JH 31554 | 9959 | 15 | 6279 | 22 | 7163 | 81 | 5459 | 44 | 6294 | 44 | 6299 | 55 | 5838 | 47 | 7317 | 65 | 5859 | 72 | 9872 | 16 | 7045 | 65 |
| 71 | AH-1226 | 6525 | 84 | 5662 | 36 | 7515 | 76 | 4472 | 65 | 4264 | 84 | 5478 | 79 | 3309 | 84 | 5596 | 80 | 6069 | 66 | 6133 | 82 | 5643 | 83 |
| 72 | AH-1262 | 7522 | 76 | 6861 | 14 | 9935 | 16 | 4397 | 68 | 5686 | 62 | 6720 | 40 | 3913 | 80 | 5516 | 81 | 6430 | 62 | 9674 | 17 | 6231 | 78 |
| 73 | MMH-2-12-13 | 8173 | 58 | 5239 | 55 | 8868 | 45 | 5496 | 41 | 6333 | 42 | 6484 | 49 | 7440 | 22 | 7748 | 56 | 5754 | 75 | 8933 | 40 | 6905 | 67 |
| 74 | MMH-3-12-13 | 8405 | 51 | 5246 | 53 | 8698 | 54 | 5316 | 49 | 5084 | 73 | 6086 | 64 | 6586 | 35 | 7814 | 53 | 5838 | 73 | 10509 | 9 | 8038 | 33 |
| 75 | MMH-4-12-13 | 7843 | 68 | 5646 | 37 | 8784 | 51 | 4923 | 55 | 4969 | 74 | 6080 | 66 | 4935 | 69 | 5997 | 78 | 7021 | 51 | 7478 | 70 | 5263 | 86 |
| 76 | MMH-5-12-13 | 5315 | 87 | 5146 | 57 | 9506 | 25 | 3796 | 81 | 2828 | 87 | 5319 | 81 | 4572 | 74 | 6467 | 74 | 5943 | 69 | 9317 | 23 | 5620 | 84 |
| 77 | HKH 338 | 7906 | 67 | 4770 | 70 | 6572 | 85 | 5494 | 42 | 4918 | 76 | 5438 | 80 | 6699 | 31 | 7367 | 63 | 7155 | 48 | 8788 | 46 | 7175 | 59 |
| 78 | HKH 339 | 8125 | 61 | 4414 | 81 | 7333 | 78 | 5612 | 38 | 4597 | 79 | 5489 | 78 | 6098 | 45 | 7332 | 64 | 5158 | 82 | 8170 | 56 | 7151 | 60 |
| 79 | HKH 340 | 7437 | 77 | 5319 | 48 | 7928 | 70 | 4052 | 76 | 5691 | 61 | 5747 | 74 | 5136 | 63 | 5354 | 83 | 6631 | 57 | 7612 | 67 | 7216 | 58 |
| 80 | KNMH-4302 | 7949 | 66 | 5447 | 42 | 9249 | 33 | 3651 | 82 | 6136 | 51 | 6121 | 62 | 5273 | 62 | 6107 | 77 | 4769 | 84 | 9272 | 24 | 7788 | 43 |
| 81 | KNMH-4303 | 7398 | 78 | 4785 | 68 | 9436 | 28 | 4650 | 62 | 4951 | 75 | 5955 | 69 | 7105 | 27 | 7984 | 49 | 7359 | 44 | 9150 | 32 | 6297 | 74 |
| 82 | KNMH-4304 | 8041 | 63 | 3319 | 87 | 8853 | 47 | 6015 | 27 | 6888 | 23 | 6269 | 57 | 5570 | 55 | 7804 | 55 | 7674 | 35 | 10092 | 14 | 7736 | 44 |
| 83 | KNMH-4305 | 7691 | 72 | 4858 | 65 | 9750 | 20 | 3933 | 78 | 4844 | 78 | 5846 | 72 | 6300 | 41 | 6695 | 68 | 6506 | 61 | 8897 | 43 | 7973 | 37 |
| 84 | KNMH-4010131 | 9054 | 32 | 6461 | 19 | 11367 | 4 | 4892 | 57 | 6672 | 31 | 7348 | 16 | 8873 | 10 | 7853 | 52 | 8969 | 15 | 9580 | 19 | 8014 | 34 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 7831 | 70 | 5466 | 41 | 8952 | 43 | 6897 | 19 | 7183 | 20 | 7124 | 23 | 5751 | 51 | 8044 | 46 | 7338 | 45 | 9015 | 37 | 8253 | 27 |
| 86 | BIO9637 | 9116 | 30 | 5904 | 31 | 8362 | 61 | 4441 | 67 | 6686 | 30 | 6348 | 54 | 5478 | 58 | 6609 | 69 | 5861 | 71 | 9413 | 21 | 8254 | 25 |
| 87 | HM12 | 7659 | 73 | 4270 | 83 | 7914 | 71 | 4103 | 74 | 7900 | 8 | 6047 | 67 | 3200 | 86 | 7473 | 61 | 5815 | 74 | 9970 | 15 | 7583 | 49 |
| | Location Mean | 8690 | | 5629 | | 8952 | | 5573 | | 6290 | | 6611 | | 6297 | | 8334 | | 7402 | | 8641 | | 7571 | |
| | C.D. (5%) | 1329 | | 1359 | | 2487 | | 1728 | | 1061 | | 1659 | | 1909 | | 1529 | | 1682 | | 1797 | | 1506 | |
| | C.V. (%) | - | | 14.98 | | 17.24 | | 15.6 | | 10.47 | | - | | 18.81 | | 11.38 | | 14.09 | | 12.9 | | 12.34 | |
| | F (Prob) | - | | 0 | | 0 | | 0 | | 0 | | - | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | Plot Size | - | | 4.8 | | 4 | | 5.6 | | 4.8 | | - | | 6 | | 4.8 | | 6 | | 6 | | 6 | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | - | | 29-06 | | 3-07 | | 8-07 | | 25-06 | | - | | 2-07 | | 9-07 | | 24-06 | | 3-07 | | 27-06 | |
| | Harvest Date | - | | 6-10 | | 25-10 | | 7-11 | | 1-10 | | - | | 9-11 | | 30-10 | | 19-10 | | 29-19 | | 11-12 | |
| | Irrigation Nos | - | | - | | 3 | | - | | - | | - | | 6 | | 10 | | 2 | | - | | - | |
| | Fertilizer Applied N | - | | 120 | | 120 | | 120 | | 120 | | - | | 150 | | 150 | | 200 | | 200 | | 120 | |
| | Fertilizer Applied P | - | | 60 | | 60 | | 60 | | 60 | | - | | 75 | | 75 | | 60 | | 60 | | 60 | |
| | Fertilizer Applied K | - | | 40 | | 40 | | 40 | | 40 | | - | | 37.5 | | 75 | | 50 | | 60 | | 40 | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): BARA 39.3 %

BR48

TABLE No. 2 (Cont...)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | ZN 5 | | OV'L | | | | | |
|----------|---------------|-------|----|-------|----|-------|----|------|----|------|----|-------|----|------|----|-------|----|------|----|------|----|
| | | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 1 | QMH-29134 | 8683 | 74 | 7227 | 77 | 7045 | 80 | 2440 | 76 | 6111 | 83 | 6469 | 52 | 4613 | 23 | 3889 | 83 | 4990 | 73 | 5730 | 81 |
| 2 | QMH-2916 | 8590 | 76 | 7606 | 73 | 7655 | 70 | 4206 | 7 | 5680 | 85 | 6389 | 54 | 3180 | 64 | 2217 | 87 | 3928 | 83 | 5347 | 84 |
| 3 | EHL-3412 | 7239 | 84 | 8048 | 67 | 10813 | 3 | 3812 | 16 | 7551 | 48 | 8224 | 17 | 4130 | 37 | 7539 | 32 | 6631 | 22 | 6951 | 49 |
| 4 | EHL-1111 | 8641 | 75 | 8564 | 52 | 8154 | 55 | 3448 | 31 | 6726 | 70 | 6945 | 41 | 3995 | 40 | 5593 | 64 | 5511 | 61 | 6519 | 63 |
| 5 | EHL-3512 | 8909 | 72 | 7081 | 79 | 9105 | 23 | 2886 | 58 | 7106 | 64 | 5555 | 72 | 2990 | 70 | 8695 | 11 | 5746 | 50 | 6613 | 62 |
| 6 | S-6750 | 11303 | 21 | 10736 | 10 | 8485 | 37 | 3696 | 21 | 9522 | 1 | 7831 | 22 | 5278 | 8 | 7313 | 38 | 6807 | 18 | 8659 | 2 |
| 7 | RMH-932 | 9618 | 55 | 9881 | 27 | 8143 | 56 | 4004 | 12 | 8143 | 30 | 6167 | 62 | 4021 | 39 | 8410 | 19 | 6199 | 32 | 7326 | 35 |
| 8 | RMH-3591 | 10861 | 29 | 11514 | 3 | 9533 | 12 | 3061 | 51 | 8823 | 13 | 7057 | 38 | 4648 | 19 | 5342 | 68 | 5682 | 51 | 7984 | 16 |
| 9 | PHM-34(W) | 9381 | 62 | 8961 | 47 | 7825 | 67 | 2511 | 71 | 6673 | 72 | 6777 | 46 | 3483 | 54 | 5703 | 63 | 5321 | 66 | 6206 | 74 |
| 10 | PHM-12(Y) | 8291 | 79 | 9131 | 43 | 8457 | 41 | 2030 | 83 | 7282 | 58 | 7611 | 27 | 4228 | 34 | 6661 | 50 | 6167 | 33 | 7047 | 45 |
| 11 | LG-3271 | 9660 | 53 | 10129 | 22 | 8805 | 32 | 2286 | 79 | 7685 | 41 | 8391 | 14 | 2610 | 80 | 5863 | 62 | 5621 | 57 | 7197 | 40 |
| 12 | LG-3282 | 11971 | 5 | 10333 | 17 | 9400 | 16 | 2974 | 54 | 8837 | 12 | 7220 | 33 | 4495 | 25 | 9441 | 7 | 7052 | 14 | 8245 | 6 |
| 13 | FCH-85 | 11930 | 7 | 10656 | 12 | 8776 | 33 | 3411 | 32 | 7758 | 39 | 8334 | 15 | 2689 | 78 | 5992 | 60 | 5672 | 54 | 6973 | 48 |
| 14 | FCH-184 | 10130 | 43 | 9923 | 26 | 6624 | 85 | 2684 | 65 | 7626 | 43 | 4723 | 80 | 2577 | 82 | 4842 | 77 | 4047 | 81 | 6874 | 54 |
| 15 | FCH-11231 | 11187 | 24 | 9692 | 31 | 9558 | 11 | 3770 | 18 | 8970 | 10 | 7167 | 34 | 4719 | 18 | 5873 | 61 | 5920 | 45 | 8107 | 11 |
| 16 | KMH-6 | 8077 | 81 | 8025 | 69 | 8811 | 31 | 3562 | 29 | 6691 | 71 | 6222 | 60 | 2028 | 85 | 3909 | 82 | 4053 | 80 | 6270 | 72 |
| 17 | KMH-84 | 8963 | 71 | 7800 | 71 | 8452 | 42 | 3242 | 43 | 6475 | 79 | 4277 | 85 | 2962 | 71 | 4948 | 76 | 4062 | 79 | 5930 | 78 |
| 18 | KMH-6681 | 10495 | 33 | 9996 | 24 | 9996 | 8 | 3378 | 34 | 8512 | 20 | 8221 | 18 | 2953 | 72 | 7219 | 39 | 6131 | 37 | 7801 | 22 |
| 19 | KMH-5951 | 10157 | 41 | 10148 | 21 | 7963 | 64 | 2579 | 68 | 7151 | 63 | 8556 | 11 | 4483 | 27 | 7868 | 27 | 6969 | 16 | 7366 | 33 |
| 20 | JKMH-4545 | 11554 | 14 | 12069 | 1 | 11415 | 1 | 3225 | 44 | 9150 | 6 | 10165 | 5 | 4513 | 24 | 8773 | 10 | 7817 | 3 | 8480 | 3 |
| 21 | SAFAL X-2 | 11161 | 25 | 10109 | 23 | 9729 | 9 | 3842 | 15 | 8467 | 21 | 8831 | 10 | 6027 | 1 | 8386 | 20 | 7748 | 4 | 7879 | 19 |
| 22 | Kuber Shakthi | 12301 | 1 | 11007 | 7 | 8077 | 59 | 3327 | 37 | 8906 | 11 | 7722 | 25 | 5530 | 7 | 8194 | 23 | 7149 | 11 | 8112 | 10 |
| 23 | DAS-MH-304 | 11446 | 15 | 10537 | 14 | 8449 | 43 | 2940 | 55 | 7809 | 38 | 7276 | 32 | 3424 | 55 | 6234 | 56 | 5645 | 56 | 7433 | 30 |
| 24 | DAS-MH-305 | 11050 | 27 | 9419 | 36 | 8833 | 30 | 3740 | 20 | 8399 | 24 | 10775 | 2 | 5090 | 10 | 5396 | 67 | 7087 | 13 | 8103 | 12 |
| 25 | KH-517 Gold | 9058 | 68 | 9383 | 37 | 8465 | 38 | 3030 | 53 | 7236 | 62 | 7057 | 39 | 3169 | 65 | 6269 | 55 | 5498 | 62 | 6448 | 66 |
| 26 | KH-2248 | 10090 | 44 | 8258 | 62 | 9053 | 24 | 3251 | 42 | 7557 | 46 | 6946 | 40 | 3403 | 57 | 6681 | 49 | 5677 | 53 | 6975 | 47 |
| 27 | TH-38 | 9969 | 46 | 10172 | 20 | 9729 | 10 | 2743 | 62 | 7612 | 44 | 5888 | 69 | 3574 | 51 | 7577 | 30 | 5680 | 52 | 7474 | 29 |
| | MAHABEEJ-1202 | | | | | | | | | | | | | | | | | | | | |
| 28 | (Nirdhar) | 10694 | 31 | 9135 | 42 | 8334 | 48 | 2700 | 64 | 7739 | 40 | 5944 | 68 | 3601 | 50 | 8415 | 18 | 5987 | 43 | 7138 | 42 |
| 29 | KDMH-2705 | 9546 | 58 | 11124 | 6 | 7822 | 68 | 3379 | 33 | 8462 | 22 | 8944 | 8 | 5567 | 5 | 9865 | 5 | 8125 | 2 | 8398 | 4 |
| 30 | EH-2205 | 9170 | 66 | 9231 | 41 | 6813 | 82 | 3643 | 27 | 7099 | 65 | 4945 | 79 | 3732 | 45 | 10741 | 3 | 6473 | 26 | 6880 | 53 |
| 31 | EH-2208 | 9738 | 51 | 8189 | 64 | 8536 | 35 | 3563 | 28 | 7295 | 56 | 5166 | 75 | 2704 | 77 | 10912 | 2 | 6261 | 31 | 6906 | 52 |
| 32 | EH-2240 | 10418 | 35 | 9471 | 35 | 8186 | 52 | 4234 | 6 | 7954 | 33 | 6278 | 56 | 3405 | 56 | 11132 | 1 | 6938 | 17 | 7304 | 36 |

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | ZN 5 | | OV'L | | | | | |
|----------|--------------------|-------|----|-------|----|-------|----|------|----|------|----|-------|----|------|----|-------|----|------|----|------|----|
| | | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 33 | VaMH-08015 | 8487 | 77 | 8638 | 51 | 7520 | 74 | 3268 | 41 | 6555 | 75 | 4500 | 82 | 2881 | 74 | 4743 | 78 | 4041 | 82 | 5675 | 82 |
| 34 | PMH-209 | 10314 | 37 | 9820 | 29 | 8381 | 47 | 1504 | 86 | 7446 | 52 | 8279 | 16 | 3252 | 61 | 6653 | 51 | 6061 | 41 | 7121 | 43 |
| 35 | PRMH-2177 | 12020 | 4 | 9610 | 33 | 9235 | 19 | 3355 | 35 | 7908 | 35 | 8501 | 12 | 3639 | 48 | 7923 | 26 | 6688 | 21 | 7207 | 39 |
| 36 | NMH-1289 | 10478 | 34 | 11249 | 4 | 7608 | 72 | 3276 | 40 | 8382 | 25 | 7110 | 37 | 3546 | 53 | 7747 | 28 | 6135 | 36 | 7499 | 28 |
| 37 | HTMH-5402 | 12099 | 3 | 11532 | 2 | 7982 | 63 | 4445 | 3 | 9237 | 4 | 7557 | 28 | 5707 | 3 | 8781 | 9 | 7348 | 9 | 7924 | 18 |
| 38 | CMH 10-488 | 11294 | 22 | 9086 | 44 | 8485 | 36 | 3680 | 24 | 8584 | 18 | 6499 | 50 | 4405 | 32 | 7576 | 31 | 6160 | 34 | 7390 | 32 |
| 39 | CMH 10-547 | 9617 | 56 | 9832 | 28 | 7303 | 78 | 3654 | 26 | 8616 | 17 | 8167 | 19 | 4468 | 29 | 7488 | 35 | 6708 | 20 | 7956 | 17 |
| 40 | CMH 11-582 | 11730 | 11 | 9544 | 34 | 8121 | 57 | 4112 | 10 | 9354 | 2 | 7445 | 29 | 5009 | 13 | 5322 | 69 | 5925 | 44 | 8132 | 9 |
| 41 | CMH 11-603 | 11352 | 18 | 9770 | 30 | 8182 | 53 | 4827 | 1 | 8803 | 14 | 6722 | 47 | 4633 | 21 | 6889 | 44 | 6081 | 39 | 7613 | 27 |
| 42 | CMH 11-617 | 11799 | 9 | 10275 | 19 | 8174 | 54 | 3744 | 19 | 9014 | 9 | 7165 | 36 | 4772 | 17 | 8295 | 21 | 6744 | 19 | 8046 | 15 |
| 43 | IM8478 | 10934 | 28 | 11211 | 5 | 10476 | 4 | 4087 | 11 | 9307 | 3 | 11945 | 1 | 4632 | 22 | 8094 | 25 | 8223 | 1 | 8960 | 1 |
| 44 | IM8479 | 11698 | 12 | 10834 | 9 | 8072 | 60 | 4692 | 2 | 9105 | 7 | 10665 | 3 | 4928 | 16 | 7464 | 36 | 7686 | 7 | 8257 | 5 |
| 45 | IM8581 | 10814 | 30 | 10547 | 13 | 7410 | 76 | 2314 | 78 | 8434 | 23 | 10556 | 4 | 5547 | 6 | 6971 | 41 | 7691 | 6 | 8149 | 8 |
| 46 | IM 7519 | 11879 | 8 | 10437 | 15 | 6429 | 86 | 2494 | 72 | 8086 | 31 | 7834 | 21 | 5771 | 2 | 9628 | 6 | 7744 | 5 | 7713 | 24 |
| 47 | IM 7501 | 11777 | 10 | 10410 | 16 | 8974 | 26 | 3858 | 14 | 8517 | 19 | 9446 | 6 | 4433 | 30 | 7448 | 37 | 7109 | 12 | 8081 | 13 |
| 48 | BH 41015 | 10188 | 40 | 9979 | 25 | 8459 | 39 | 3961 | 13 | 7857 | 37 | 6556 | 48 | 3044 | 67 | 6826 | 46 | 5475 | 63 | 7053 | 44 |
| 49 | BH 41030 | 10282 | 38 | 9315 | 39 | 9352 | 18 | 3666 | 25 | 8284 | 27 | 6275 | 58 | 3769 | 44 | 8160 | 24 | 6068 | 40 | 7234 | 38 |
| 50 | BH 41145 | 9838 | 49 | 8781 | 50 | 7605 | 73 | 3682 | 23 | 7324 | 54 | 6168 | 61 | 4185 | 36 | 8665 | 12 | 6339 | 27 | 6762 | 57 |
| 51 | BH 41150 | 9288 | 63 | 7991 | 70 | 10021 | 7 | 2920 | 57 | 7633 | 42 | 6110 | 63 | 5083 | 11 | 8416 | 17 | 6536 | 23 | 6636 | 61 |
| 52 | BH 411736 | 8801 | 73 | 8177 | 66 | 9198 | 20 | 3197 | 46 | 6853 | 67 | 5944 | 67 | 3611 | 49 | 3652 | 84 | 4402 | 76 | 6333 | 69 |
| 53 | BH 411737 | 10053 | 45 | 8045 | 68 | 9168 | 22 | 3330 | 36 | 7331 | 53 | 6059 | 64 | 2873 | 75 | 6927 | 42 | 5286 | 67 | 6702 | 59 |
| 54 | BH 411520 | 6704 | 86 | 6399 | 83 | 7281 | 79 | 1333 | 87 | 5457 | 86 | 4333 | 84 | 2100 | 84 | 4995 | 74 | 3809 | 85 | 4906 | 87 |
| 55 | VEH 12-1 | 9890 | 48 | 8529 | 56 | 8955 | 27 | 2606 | 67 | 7248 | 61 | 3388 | 87 | 1205 | 87 | 2954 | 86 | 2516 | 87 | 5995 | 77 |
| 56 | X35D620 | 11959 | 6 | 10679 | 11 | 9406 | 15 | 3214 | 45 | 8306 | 26 | 8443 | 13 | 3386 | 58 | 7724 | 29 | 6518 | 24 | 7797 | 23 |
| 57 | X35D623 | 11611 | 13 | 10313 | 18 | 9468 | 14 | 2778 | 61 | 8751 | 15 | 6056 | 66 | 5277 | 9 | 6925 | 43 | 6086 | 38 | 7709 | 26 |
| 58 | X35D602 | 11352 | 17 | 9255 | 40 | 11290 | 2 | 2530 | 70 | 9235 | 5 | 7778 | 23 | 4940 | 14 | 6742 | 48 | 6487 | 25 | 8056 | 14 |
| 59 | X35D603 | 11432 | 16 | 10958 | 8 | 10086 | 6 | 2928 | 56 | 9015 | 8 | 9114 | 7 | 4096 | 38 | 8602 | 13 | 7271 | 10 | 8210 | 7 |
| 60 | Bio 451 | 11126 | 26 | 9638 | 32 | 8993 | 25 | 3809 | 17 | 8272 | 28 | 8888 | 9 | 3641 | 47 | 8433 | 16 | 6987 | 15 | 7854 | 21 |
| 61 | GWH-0711 | 7139 | 85 | 5792 | 87 | 8728 | 34 | 2110 | 81 | 5397 | 87 | 5278 | 74 | 2010 | 86 | 5466 | 66 | 4251 | 77 | 5159 | 86 |
| 62 | REH-2012-1 | 9732 | 52 | 8186 | 65 | 6417 | 87 | 1568 | 85 | 6531 | 76 | 5000 | 76 | 2835 | 76 | 7498 | 33 | 5111 | 69 | 6455 | 65 |
| 63 | REH-2012-2 | 8049 | 82 | 8276 | 61 | 6869 | 81 | 3169 | 48 | 6645 | 74 | 6447 | 53 | 3087 | 66 | 6613 | 52 | 5382 | 65 | 6295 | 71 |
| 64 | REH-2012-4 | 7705 | 83 | 8537 | 55 | 7365 | 77 | 2781 | 60 | 6499 | 78 | 4666 | 81 | 3036 | 68 | 4974 | 75 | 4226 | 78 | 5857 | 79 |
| 65 | JH 31595 | 10338 | 36 | 8382 | 60 | 7872 | 66 | 2465 | 74 | 7487 | 51 | 7166 | 35 | 4478 | 28 | 5073 | 72 | 5573 | 59 | 7152 | 41 |
| 66 | JH 31537 | 9465 | 60 | 8562 | 53 | 8383 | 46 | 3327 | 38 | 7556 | 47 | 5557 | 71 | 2946 | 73 | 10329 | 4 | 6277 | 30 | 7332 | 34 |
| 67 | JH 31604 | 11245 | 23 | 8992 | 46 | 8424 | 45 | 3507 | 30 | 7909 | 34 | 6058 | 65 | 4218 | 35 | 7109 | 40 | 5795 | 49 | 7403 | 31 |
| 68 | JH 31600(JH 31627) | 10628 | 32 | 8859 | 48 | 10196 | 5 | 3100 | 50 | 8172 | 29 | 6888 | 43 | 3334 | 60 | 8211 | 22 | 6144 | 35 | 7712 | 25 |
| 69 | JH 31244 | 9091 | 67 | 8543 | 54 | 9176 | 21 | 4117 | 9 | 7894 | 36 | 6277 | 57 | 3015 | 69 | 7490 | 34 | 5594 | 58 | 6941 | 50 |

BR50

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | ZN 5 | | OV'L | | | | | |
|-------|----------------------|--------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| | | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 70 | JH 31554 | 9206 | 65 | 9058 | 45 | 8913 | 28 | 2364 | 77 | 7275 | 59 | 7279 | 31 | 3931 | 41 | 6776 | 47 | 5995 | 42 | 7013 | 46 |
| 71 | AH-1226 | 6214 | 87 | 6231 | 84 | 9517 | 13 | 2471 | 73 | 5687 | 84 | 4445 | 83 | 2636 | 79 | 4694 | 79 | 3925 | 84 | 5302 | 85 |
| 72 | AH-1262 | 9505 | 59 | 6432 | 82 | 6651 | 84 | 2711 | 63 | 6340 | 82 | 4945 | 78 | 3235 | 62 | 8499 | 15 | 5560 | 60 | 6296 | 70 |
| 73 | MMH-2-12-13 | 9559 | 57 | 8410 | 58 | 8005 | 61 | 2865 | 59 | 7291 | 57 | 6222 | 59 | 4938 | 15 | 4598 | 81 | 5253 | 68 | 6919 | 51 |
| 74 | MMH-3-12-13 | 9794 | 50 | 8442 | 57 | 6789 | 83 | 3686 | 22 | 7499 | 50 | 8058 | 20 | 4348 | 33 | 6529 | 53 | 6312 | 29 | 6767 | 56 |
| 75 | MMH-4-12-13 | 9030 | 69 | 7132 | 78 | 7410 | 75 | 3284 | 39 | 6394 | 80 | 5000 | 77 | 3917 | 42 | 6377 | 54 | 5098 | 70 | 6055 | 75 |
| 76 | MMH-5-12-13 | 8416 | 78 | 6104 | 85 | 8206 | 51 | 2464 | 75 | 6345 | 81 | 7720 | 26 | 4641 | 20 | 4613 | 80 | 5658 | 55 | 5579 | 83 |
| 77 | HKH 338 | 9621 | 54 | 7533 | 74 | 8439 | 44 | 2621 | 66 | 7267 | 60 | 6835 | 44 | 4432 | 31 | 5008 | 73 | 5425 | 64 | 6515 | 64 |
| 78 | HKH 339 | 9259 | 64 | 8203 | 63 | 7613 | 71 | 2273 | 80 | 6806 | 68 | 5445 | 73 | 3860 | 43 | 5506 | 65 | 4937 | 74 | 6405 | 68 |
| 79 | HKH 340 | 10249 | 39 | 7398 | 76 | 8319 | 49 | 2096 | 82 | 6668 | 73 | 6498 | 51 | 3218 | 63 | 5319 | 70 | 5012 | 72 | 6019 | 76 |
| 80 | KNMH-4302 | 9444 | 61 | 5963 | 86 | 8085 | 58 | 2011 | 84 | 6524 | 77 | 5834 | 70 | 2588 | 81 | 6088 | 58 | 4837 | 75 | 6223 | 73 |
| 81 | KNMH-4303 | 8213 | 80 | 6518 | 81 | 7695 | 69 | 3036 | 52 | 7040 | 66 | 6780 | 45 | 3704 | 46 | 8532 | 14 | 6339 | 28 | 6414 | 67 |
| 82 | KNMH-4304 | 10137 | 42 | 7439 | 75 | 8884 | 29 | 3123 | 49 | 7606 | 45 | 6501 | 49 | 5030 | 12 | 6023 | 59 | 5851 | 48 | 6767 | 55 |
| 83 | KNMH-4305 | 11339 | 19 | 7778 | 72 | 8000 | 62 | 4129 | 8 | 7513 | 49 | 6890 | 42 | 4489 | 26 | 6203 | 57 | 5860 | 46 | 6699 | 60 |
| 84 | KNMH-4010131 | 11304 | 20 | 9379 | 38 | 9368 | 17 | 4284 | 5 | 8625 | 16 | 7778 | 24 | 5706 | 4 | 9024 | 8 | 7503 | 8 | 7866 | 20 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 12146 | 2 | 8395 | 59 | 8458 | 40 | 4380 | 4 | 7975 | 32 | 7334 | 30 | 3363 | 59 | 6883 | 45 | 5860 | 47 | 7269 | 37 |
| 86 | BIO9637 | 9955 | 47 | 8859 | 49 | 8280 | 50 | 3188 | 47 | 7322 | 55 | 6388 | 55 | 3562 | 52 | 5113 | 71 | 5021 | 71 | 6747 | 58 |
| 87 | HM12 | 9005 | 70 | 7029 | 80 | 7914 | 65 | 2575 | 69 | 6729 | 69 | 3999 | 86 | 2434 | 83 | 3449 | 85 | 3294 | 86 | 5833 | 80 |
| | Location Mean | 10056 | | 9021 | | 8490 | | 3179 | | 7666 | | 6929 | | 3881 | | 6873 | | 5894 | | 7065 | |
| | C.D. (5%) | 1025 | | 1317 | | 2294 | | 839 | | 1544 | | 1139 | | 878 | | 569 | | 862 | | 1299 | |
| | C.V. (%) | 6.33 | | 9.06 | | 16.77 | | 16.38 | | - | | 10.2 | | 14.04 | | 5.14 | | - | | - | |
| | F (Prob) | 0 | | 0 | | 0.007 | | 0 | | - | | 0 | | 0 | | 0 | | - | | - | |
| | Plot Size | 5.6 | | 6 | | 4.8 | | 4.8 | | - | | 6 | | 6 | | 4.8 | | - | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 18-07 | | 26-06 | | 19-06 | | 15-07 | | - | | 4-07 | | 10-07 | | 1-07 | | - | | - | |
| | Harvest Date | 5-12 | | 29-10 | | 5-10 | | 19-12 | | - | | - | | 16-11 | | 17-10 | | - | | - | |
| | Irrigation Nos | 8 | | - | | 13 | | 2 | | - | | - | | - | | 2 | | - | | - | |
| | Fertilizer Applied N | 150 | | - | | 150 | | 150 | | - | | 120 | | 120 | | 90 | | - | | - | |
| | Fertilizer Applied P | 75 | | - | | 75 | | 75 | | - | | 60 | | 60 | | 60 | | - | | - | |
| | Fertilizer Applied K | 40 | | - | | 75 | | 37.5 | | - | | 40 | | 40 | | - | | - | | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

Table No. 2 (Continued)

| Sl No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH4 | | | | | | | | | | | | | | | | |
|---------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 1 QMH-29134 | - | - | - | - | - | - | - | - | 1.8 | - | - | - | - | - | - | - | - |
| 2 QMH-2916 | - | - | - | - | - | - | 37.7 | - | - | - | - | - | - | - | - | - | - |
| 3 EHL-3412 | 3.4 | 4.8 | 13.1 | - | - | - | 33.3 | - | 2.5 | 20.9 | - | 4.1 | - | 11.6 | - | - | - |
| 4 EHL-1111 | - | - | 5.9 | - | 21.8 | - | 40.6 | - | 13.3 | 11.1 | 1.5 | 7.7 | - | - | - | - | - |
| 5 EHL-3512 | - | 24.4 | 11.2 | - | - | - | 3 | - | 18.9 | 13.1 | - | 3 | 30.6 | - | - | - | - |
| 6 S-6750 | 14 | 12.9 | 27.9 | - | 49.9 | 37.1 | 68.4 | 13.4 | 25.9 | 71.1 | 1.6 | 28.6 | 8.7 | 16.8 | 30 | 25.4 | 20.6 |
| 7 RMH-932 | - | - | 8.8 | - | - | 22.7 | 32.6 | - | 22.1 | 21.3 | - | 5.4 | - | 16.4 | - | - | - |
| 8 RMH-3591 | 9.1 | - | 28.9 | - | 33.5 | 7.9 | 77.6 | 17.8 | 12.1 | 59.1 | 15.8 | 27 | - | 6.4 | - | - | - |
| 9 PHM-34(W) | - | - | - | - | - | 29.6 | 8.9 | - | - | - | - | - | 27.1 | - | - | - | - |
| 10 PHM-12(Y) | - | 34.3 | - | - | - | 15 | 31.2 | - | 7.5 | 43.5 | - | 10.2 | 27.4 | 3.6 | - | - | - |
| 11 LG-3271 | 3.8 | - | 13.9 | - | - | 7.6 | 58.4 | 0.6 | 5.4 | 39.7 | 6.1 | 15.5 | - | 26.5 | - | - | - |
| 12 LG-3282 | 16.3 | - | 14.2 | - | 39.2 | 29.5 | 40 | 18.7 | 12.1 | 67.5 | 0.7 | 23.1 | - | - | 1.4 | 9.3 | 0.3 |
| 13 FCH-85 | 9.8 | 18.4 | - | - | - | - | 30.2 | - | 2.1 | - | - | - | 24.5 | - | 8.8 | - | 0.8 |
| 14 FCH-184 | 11.2 | 4.6 | - | - | - | - | 75.9 | - | 33.2 | 19 | - | 11.4 | - | - | - | - | - |
| 15 FCH-11231 | 8.4 | 6.5 | 6.4 | - | - | 22.3 | 9.6 | 6.1 | 25.6 | 54.7 | 14.4 | 29.2 | 41.8 | 18.5 | - | - | 8.7 |
| 16 KMH-6 | - | - | 11.8 | - | 4.9 | - | - | - | 26.3 | 10.1 | - | 9 | - | 4.5 | - | - | - |
| 17 KMH-84 | - | - | - | - | - | 27.3 | - | - | - | 4.4 | - | - | 24.8 | - | - | - | - |
| 18 KMH-6681 | 18.5 | 7.6 | 29.5 | - | - | 23.8 | 27.6 | 2.7 | 30.4 | 25.2 | 15 | 22.4 | - | 9.9 | 25.4 | - | 4.6 |
| 19 KMH-5951 | 16.7 | - | 4.5 | - | 0.8 | 6.1 | 67.3 | 3.8 | 26.1 | 27.8 | 0.9 | 16 | 64.9 | 5.8 | - | - | 4.2 |
| 20 JKMH-4545 | 6.3 | - | 26.2 | - | 29.3 | 53.3 | - | 5.9 | 32.3 | 92.2 | 18.1 | 43.4 | 14.1 | - | 1.8 | 6.9 | 4.4 |
| 21 SAFAL X-2 | 14.9 | 48.2 | 52.3 | - | 12.7 | 20.3 | 47.7 | 10.8 | 9.6 | 49.5 | - | 8.2 | 36 | 0.2 | - | - | - |
| 22 Kuber Shakthi | - | 29.4 | 10.3 | - | - | 32.3 | 24.5 | - | 44.7 | 22 | 14.5 | 25.6 | 28.8 | 9 | 31.7 | 19 | 20.8 |
| 23 DAS-MH-304 | 21.7 | 9.1 | - | - | - | 8.8 | 71.5 | 3.5 | 30.9 | 65.8 | 23.4 | 37.7 | 9.8 | - | - | - | - |
| 24 DAS-MH-305 | 15.7 | 2.1 | 7.5 | - | 26.6 | 45.6 | 5.4 | 3.8 | - | 35.4 | 22.9 | 19.2 | 50.4 | 11.3 | 27.3 | 23.2 | 25.7 |
| 25 KH-517 Gold | 6.7 | - | - | - | 19.5 | - | - | - | - | 8 | - | - | 10.6 | - | - | - | - |
| 26 KH-2248 | 25.8 | - | - | - | - | - | 4.6 | - | 1.2 | 34.8 | 8.5 | 13.8 | 16.1 | - | - | - | - |
| 27 TH-38 | 24.7 | - | 8.9 | - | 10.7 | 0.7 | 77.7 | 11.7 | 20.9 | 35 | 26.8 | 27.4 | - | - | 0.3 | - | - |
| 28 MAHABEEJ-1202(Nirdhar) | 8 | 8.8 | 20.3 | - | 14.1 | - | - | - | 5.2 | 38.9 | 12.5 | 17.9 | 42.9 | - | - | - | - |
| 29 KDMH-2705 | 11.1 | - | 57.9 | 4.9 | 56.2 | 27.3 | 59 | 30.4 | 13.4 | 64.3 | 0.2 | 22.4 | - | - | 20.4 | - | - |
| 30 EH-2205 | - | - | 10.2 | - | - | 21.6 | 36.4 | - | 27.4 | 26 | - | 11.3 | - | - | - | - | - |
| 31 EH-2208 | - | - | - | - | 4.4 | 20.8 | 33.8 | - | 1.8 | 46.4 | - | 8 | 2.1 | 17 | - | - | - |
| 32 EH-2240 | - | 11.5 | - | - | - | 0.9 | 8.7 | - | 2.5 | 28 | - | 6.1 | - | - | 32.1 | 3.2 | 4.4 |
| 33 VaMH-08015 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 PMH-209 | 7.9 | - | - | - | - | 9.3 | 2.8 | - | 26.9 | 54.2 | 9.2 | 27.3 | 14.7 | 2.1 | - | - | - |

BR52

Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH4 | | | | | | | | | | | | | | | | |
|-----------------------|---|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 35 PRMH-2177 | - | - | - | - | - | - | 0.6 | - | 0.5 | 60.3 | 7.4 | 20.4 | 8.6 | 1.4 | - | - | - |
| 36 NMH-1289 | 14.3 | 2.3 | 11 | - | - | - | 63.2 | - | 3.8 | 27.6 | 4.9 | 11.1 | 11.3 | 3 | - | 13.4 | - |
| 37 HTMH-5402 | 0.1 | 22 | 51.8 | - | - | - | 28.5 | 0.2 | - | 0.3 | 17.1 | 7.2 | - | - | - | - | - |
| 38 CMH 10-488 | 3.1 | - | - | - | - | 3.9 | 43.5 | - | 9.8 | 4.4 | 0.8 | 4.5 | - | 8.8 | 0.4 | - | - |
| 39 CMH 10-547 | - | - | 15.7 | - | 10.2 | 24.5 | 48.9 | 4.8 | 17.2 | 53.7 | 27.7 | 32 | - | 1.3 | - | 6.4 | - |
| 40 CMH 11-582 | 20.9 | 0.2 | - | - | 8.3 | 37.2 | 7.9 | 0.2 | 19 | 64.2 | 0.4 | 24.1 | 14.5 | 18.2 | - | 31.6 | 11.3 |
| 41 CMH 11-603 | 4.7 | 7.8 | 21.1 | - | - | - | 13.5 | - | 3.2 | 18.8 | 6.7 | 9.1 | - | 25.6 | 9.2 | - | 3.8 |
| 42 CMH 11-617 | 16.3 | 5.1 | 0.2 | - | - | 23.8 | 62 | 6.2 | 5.2 | 51.2 | 17.7 | 23.5 | - | - | 8.7 | - | - |
| 43 IM8478 | 5.9 | 6.9 | 28.9 | - | 22.8 | 39.3 | 55.6 | 10.9 | 31.6 | 114.7 | 19.7 | 50.3 | 27.2 | 50.5 | 4.1 | 9.8 | 24.5 |
| 44 IM8479 | 1.8 | 26.1 | 16.1 | - | 29.9 | 24.5 | 21.7 | 2.7 | 8.6 | 84.9 | - | 21.8 | 29.4 | 6.2 | 15 | - | 10.1 |
| 45 IM8581 | 3.1 | - | 11.8 | - | 3.1 | 12.3 | 61.2 | 4.6 | 9.8 | 80.9 | 19.3 | 34.1 | 23.4 | 5.1 | 9.2 | 2.2 | 8.9 |
| 46 IM 7519 | 0.7 | - | 32.7 | - | - | 2 | 5.5 | - | 13.5 | 73.7 | 14.7 | 31.2 | 22.2 | - | - | 0.2 | - |
| 47 IM 7501 | 27 | 0.7 | 52.3 | - | 0.7 | 21 | - | 5 | - | 99.6 | 17.6 | 32.7 | 26.8 | 14.8 | - | 10.3 | 7 |
| 48 BH 41015 | 7 | 11 | 17.2 | - | - | 26.9 | 18.7 | - | 6.5 | - | 28.2 | 5.4 | - | - | - | - | - |
| 49 BH 41030 | 0.4 | - | - | - | - | - | 57.5 | - | 16 | 1.1 | 16.1 | 11.8 | - | - | - | - | - |
| 50 BH 41145 | 5 | - | - | - | - | 16.4 | 5.9 | - | - | 17.9 | 8.3 | 7.9 | - | - | - | 1.1 | - |
| 51 BH 41150 | - | - | - | - | 2.1 | - | - | - | 1 | 10 | 5.1 | 5.2 | - | - | - | - | - |
| 52 BH 411736 | - | - | - | - | - | - | 1.7 | - | 5 | - | - | - | 6.7 | 29.1 | - | - | 0.5 |
| 53 BH 411737 | - | 0.6 | 11.1 | - | - | - | 13.9 | - | - | 26.6 | 1.8 | 7.9 | - | - | - | - | - |
| 54 BH 411520 | - | 38.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 55 VEH 12-1 | - | - | - | - | - | - | - | - | 28.2 | - | - | 1.6 | - | 1.9 | - | - | - |
| 56 X35D620 | 15 | - | 11.3 | - | 46.1 | 35.1 | - | 3.6 | 21.2 | 68.8 | 33.8 | 40.1 | - | 5.6 | - | - | - |
| 57 X35D623 | 19.9 | - | 3.3 | - | - | 15.9 | 4.9 | - | 37.1 | 6.1 | 17.3 | 19.9 | - | 27.7 | - | 9.7 | 2.4 |
| 58 X35D602 | 14.7 | 5.7 | - | - | 9.7 | 34.6 | 22.9 | 2.9 | 17.5 | 77.9 | 14.6 | 33.5 | 0.3 | - | - | - | - |
| 59 X35D603 | 22.5 | - | - | - | 0.5 | 21.4 | 82.8 | 6.2 | 11.4 | 53.5 | 26.5 | 29.7 | - | 10.4 | - | 19.6 | 1.6 |
| 60 Bio 451 | 1.1 | 17.7 | 50.4 | - | 16.2 | 16.6 | 74.8 | 13.2 | 7.3 | 28.4 | 6.2 | 12.9 | - | 21.3 | 0.1 | - | 0.8 |
| 61 GWH-0711 | - | - | - | - | - | - | 4.2 | - | - | - | 3.2 | - | 6.6 | - | - | - | - |
| 62 REH-2012-1 | - | - | 6.4 | - | - | 5.6 | 25 | - | - | 14.8 | 16.7 | 7.6 | 27.9 | 1.2 | - | - | - |
| 63 REH-2012-2 | - | - | 18.4 | - | - | - | - | - | 7.2 | 4.7 | - | 2.7 | - | - | - | - | - |
| 64 REH-2012-4 | - | 1.6 | 11 | - | - | - | - | - | - | - | 20.2 | 0 | - | - | - | - | - |
| 65 JH 31595 | - | 25.1 | 8.4 | - | 8.2 | 13.5 | 19.9 | 1.3 | 7.9 | 27.4 | - | 9.4 | 4.1 | 3.5 | - | - | - |
| 66 JH 31537 | - | - | 16 | - | - | - | 72.9 | 3 | 1.5 | 20.8 | 21 | 15.2 | 5.7 | 8.2 | - | - | - |
| 67 JH 31604 | - | 15.1 | 23.8 | - | 8.5 | - | 9.3 | 0.2 | 20.6 | 52.8 | 10.8 | 25.7 | - | - | - | 6.6 | - |
| 68 JH 31600(JH 31627) | - | 49.8 | - | - | 18.1 | 28.6 | 71.4 | 3.5 | 9.1 | 63.5 | 11.2 | 25.5 | 2.1 | 2.2 | 6.3 | 4.3 | 3.7 |

Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH4 | | | | | | | | | | | | | | | | |
|-------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 69 JH 31244 | - | - | - | - | 4.4 | 8.1 | - | - | - | - | 17.6 | 4 | 16.3 | 0.8 | - | - | - |
| 70 JH 31554 | - | - | - | - | - | 24.3 | 43 | - | 26.2 | 42.2 | 17.6 | 27.2 | 14.9 | - | - | - | - |
| 71 AH-1226 | - | - | - | - | - | - | 2.2 | - | - | - | - | - | 3.6 | - | - | - | - |
| 72 AH-1262 | - | - | - | - | - | 4.2 | 18.8 | - | 7.1 | - | - | - | 25.5 | 11 | - | - | - |
| 73 MMH-2-12-13 | 6.7 | - | - | - | - | 12.4 | 41.8 | 1.9 | - | 16.5 | 4.5 | 4.4 | - | - | - | - | - |
| 74 MMH-3-12-13 | - | - | - | - | - | - | 14.4 | - | 14.3 | 21.4 | - | 7.3 | - | - | - | - | - |
| 75 MMH-4-12-13 | - | - | - | - | - | - | 15 | - | 21.1 | - | 7.4 | 0.2 | 3.3 | - | - | - | - |
| 76 MMH-5-12-13 | - | - | - | - | - | - | 2.3 | - | - | - | - | - | - | 6.2 | - | - | - |
| 77 HKH 338 | 3.4 | - | - | - | 5.8 | 11.1 | 9.5 | - | - | 16.2 | - | 1 | - | - | - | - | - |
| 78 HKH 339 | - | - | 1.9 | - | - | 3.9 | 25.9 | - | - | 20.5 | - | 3.8 | - | - | - | - | - |
| 79 HKH 340 | - | - | - | - | - | - | 14.5 | - | - | - | 1 | - | - | - | - | - | - |
| 80 KNMH-4302 | - | - | 8.2 | - | - | - | 4.5 | - | - | - | 7.4 | 1.5 | - | 3.3 | - | - | - |
| 81 KNMH-4303 | - | - | - | - | - | - | - | - | 0.4 | - | 7.1 | - | - | 5.4 | - | - | - |
| 82 KNMH-4304 | 5.1 | - | 18.1 | - | - | - | - | - | 4.3 | - | 14.7 | 2.7 | - | - | - | - | - |
| 83 KNMH-4305 | - | 8.4 | 29.3 | - | - | - | - | - | 0.4 | 1.3 | - | - | - | 8.9 | - | - | - |
| 84 KNMH-4010131 | - | - | 22.5 | - | - | 11.5 | 24.6 | - | 4.6 | 36.3 | 9.3 | 15.6 | 18.2 | 27 | - | - | 3.1 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 85 PMH4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 86 BIO9637 | - | - | 2.4 | - | - | 16.2 | - | - | 8.4 | 33.2 | 10.6 | 16.4 | 8 | - | - | - | - |
| 87 HM12 | - | 73.8 | - | - | - | - | 4.7 | - | - | 5.9 | - | - | - | - | - | 10 | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

BR54

Table No. 2 (Continued)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | |
|----------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | | UDAI | MEAN |
| 1 | QMH-29134 | - | - | - | - | - | - | - | - | - | - | 37.2 | - | - | - | |
| 2 | QMH-2916 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3 | EHL-3412 | 13.7 | 8.1 | - | - | - | - | 27.8 | - | - | 12.1 | 22.8 | 9.5 | 13.2 | - | |
| 4 | EHL-1111 | - | - | - | - | - | 2 | - | - | - | - | 18.8 | - | - | - | |
| 5 | EHL-3512 | 8.8 | 15.9 | - | - | - | - | 7.7 | - | - | - | - | 26.3 | - | - | |
| 6 | S-6750 | 77.4 | 56.2 | 11.8 | 34.5 | 1.4 | - | 27.9 | 0.3 | - | 19.4 | 6.8 | 57 | 6.3 | 16.2 | 19.1 |
| 7 | RMH-932 | 16.1 | 17.1 | 4 | 2.7 | 4.9 | - | 17.7 | - | - | 2.1 | - | 19.6 | 22.2 | 5.8 | 0.8 |
| 8 | RMH-3591 | 36.6 | 46.4 | - | 15.4 | - | - | 37.2 | 12.7 | - | 10.6 | - | 38.2 | - | - | 9.8 |
| 9 | PHM-34(W) | - | - | - | - | - | - | 6.8 | - | - | - | - | 3.6 | - | - | - |
| 10 | PHM-12(Y) | - | 35.6 | - | - | - | - | 8.8 | - | - | - | 3.8 | 25.7 | - | 5.2 | - |
| 11 | LG-3271 | 1.5 | 40.8 | - | - | - | - | 20.7 | 4.1 | - | - | 14.4 | - | - | - | - |
| 12 | LG-3282 | 48.7 | 13.2 | 26.8 | 2.8 | 4.6 | - | 23.1 | 11.1 | - | 10.8 | - | 33.7 | 37.2 | 20.3 | 13.4 |
| 13 | FCH-85 | - | 3.4 | 12.8 | - | - | - | 26.9 | 3.8 | - | - | 13.6 | - | - | - | - |
| 14 | FCH-184 | - | 48.7 | 3.3 | - | 2.7 | - | 18.2 | - | - | - | - | - | - | - | - |
| 15 | FCH-11231 | 57.7 | 34.2 | 26.7 | 1 | 0 | - | 15.5 | 13 | - | 12.5 | - | 40.3 | - | 1 | 11.5 |
| 16 | KMH-6 | - | - | - | - | - | - | - | 4.2 | - | - | - | - | - | - | - |
| 17 | KMH-84 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | KMH-6681 | 47.8 | 38.1 | - | - | 11.6 | - | 19.1 | 18.2 | - | 6.7 | 12.1 | - | 4.9 | 4.6 | 7.3 |
| 19 | KMH-5951 | - | 2.7 | - | 7.1 | - | - | 20.9 | - | - | - | 16.7 | 33.3 | 14.3 | 18.9 | 1.3 |
| 20 | JKMH-4545 | 19.6 | 8.8 | 40.8 | 2.4 | 7.8 | - | 43.8 | 35 | - | 14.7 | 38.6 | 34.2 | 27.5 | 33.4 | 16.7 |
| 21 | SAFAL X-2 | 56.9 | - | 22.1 | - | - | - | 20.4 | 15 | - | 6.2 | 20.4 | 79.2 | 21.8 | 32.2 | 8.4 |
| 22 | Kuber Shakthi | 38 | - | 47.1 | 18.5 | 3.1 | 1.3 | 31.1 | - | - | 11.7 | 5.3 | 64.5 | 19.1 | 22 | 11.6 |
| 23 | DAS-MH-304 | 0.9 | 23.5 | - | - | 4.3 | - | 25.5 | - | - | - | - | 1.8 | - | - | 2.3 |
| 24 | DAS-MH-305 | 50.8 | 14.9 | 9.1 | - | - | - | 12.2 | 4.4 | - | 5.3 | 46.9 | 51.4 | - | 20.9 | 11.5 |
| 25 | KH-517 Gold | - | - | 24.7 | - | - | - | 11.8 | 0.1 | - | - | - | - | - | - | - |
| 26 | KH-2248 | - | 27.8 | - | - | - | - | - | 7 | - | - | - | 1.2 | - | - | - |
| 27 | TH-38 | - | 1.5 | - | 1.6 | - | - | 21.2 | 15 | - | - | - | 6.3 | 10.1 | - | 2.8 |
| 28 | MAHABEEJ-1202(Nirdhar) | 28.7 | 8.1 | 4.5 | - | - | - | 8.8 | - | - | - | - | 7.1 | 22.3 | 2.2 | - |
| 29 | KDMH-2705 | 60.1 | 19.1 | 10 | - | 14.7 | - | 32.5 | - | - | 6.1 | 22 | 65.6 | 43.3 | 38.7 | 15.5 |
| 30 | EH-2205 | - | - | - | - | - | - | 10 | - | - | - | - | 11 | 56.1 | 10.5 | - |
| 31 | EH-2208 | 12.2 | 5.5 | 1 | - | - | - | - | 0.9 | - | - | - | - | 58.5 | 6.8 | - |
| 32 | EH-2240 | 26.7 | 2.9 | - | - | 4.7 | - | 12.8 | - | - | - | - | 1.2 | 61.7 | 18.4 | 0.5 |
| 33 | VaMH-08015 | - | - | - | - | - | - | 2.9 | - | - | - | - | - | - | - | - |
| 34 | PMH-209 | 2.4 | 14.2 | 8 | - | - | - | 17 | - | - | - | 12.9 | - | - | 3.4 | - |

Table No. 2 (Continued)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L MEAN | | |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | | UDAI | MEAN |
| 35 PRMH-2177 | 1.2 | 1.6 | 1.6 | - | - | - | 14.5 | 9.2 | - | - | 15.9 | 8.2 | 15.1 | 14.1 | - |
| 36 NMH-1289 | 6.5 | 39.6 | 18.1 | - | 5 | - | 34 | - | - | 5.1 | - | 5.4 | 12.6 | 4.7 | 3.2 |
| 37 HTMH-5402 | 18.3 | 32 | 43.8 | 22 | - | - | 37.4 | - | 1.5 | 15.8 | 3 | 69.7 | 27.6 | 25.4 | 9 |
| 38 CMH 10-488 | 41 | 23 | 20.7 | 3.5 | 3.2 | - | 8.2 | 0.3 | - | 7.6 | - | 31 | 10.1 | 5.1 | 1.7 |
| 39 CMH 10-547 | 47.3 | 32.3 | 34.8 | 5.9 | 4.2 | - | 17.1 | - | - | 8 | 11.4 | 32.9 | 8.8 | 14.5 | 9.5 |
| 40 CMH 11-582 | 73.7 | 47.9 | 19.7 | 29.7 | 0.7 | - | 13.7 | - | - | 17.3 | 1.5 | 49 | - | 1.1 | 11.9 |
| 41 CMH 11-603 | 15.2 | 23.6 | 37.8 | 15.8 | - | - | 16.4 | - | 10.2 | 10.4 | - | 37.8 | 0.1 | 3.8 | 4.7 |
| 42 CMH 11-617 | 72 | 23.5 | 35.4 | 0.6 | 0.7 | - | 22.4 | - | - | 13 | - | 41.9 | 20.5 | 15.1 | 10.7 |
| 43 IM8478 | 57 | 38.2 | 30.8 | 1.4 | - | - | 33.6 | 23.9 | - | 16.7 | 62.9 | 37.7 | 17.6 | 40.3 | 23.3 |
| 44 IM8479 | 54.9 | 22.4 | 21.7 | 19.7 | - | - | 29.1 | - | 7.1 | 14.2 | 45.4 | 46.6 | 8.5 | 31.2 | 13.6 |
| 45 IM8581 | 47.5 | 23.5 | 29.7 | - | - | - | 25.6 | - | - | 5.8 | 43.9 | 65 | 1.3 | 31.3 | 12.1 |
| 46 IM 7519 | - | 16.3 | 39.8 | 1.5 | - | - | 24.3 | - | - | 1.4 | 6.8 | 71.6 | 39.9 | 32.2 | 6.1 |
| 47 IM 7501 | - | 18.9 | 13 | 12 | 1.3 | - | 24 | 6.1 | - | 6.8 | 28.8 | 31.8 | 8.2 | 21.3 | 11.2 |
| 48 BH 41015 | - | - | 13.2 | - | 4.5 | - | 18.9 | 0 | - | - | - | - | - | - | - |
| 49 BH 41030 | 22.1 | 4.2 | 25.7 | - | 11.1 | - | 11 | 10.6 | - | 3.9 | - | 12.1 | 18.6 | 3.6 | - |
| 50 BH 41145 | - | - | 1.8 | 2.8 | 9.8 | - | 4.6 | - | - | - | - | 24.5 | 25.9 | 8.2 | - |
| 51 BH 41150 | - | - | 21.5 | - | - | - | - | 18.5 | - | - | - | 51.1 | 22.3 | 11.5 | - |
| 52 BH 411736 | - | - | - | - | - | - | - | 8.8 | - | - | - | 7.4 | - | - | - |
| 53 BH 411737 | 13.4 | - | - | - | - | - | - | 8.4 | - | - | - | - | 0.6 | - | - |
| 54 BH 411520 | - | - | 6.5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 55 VEH 12-1 | - | - | 9.2 | - | - | - | 1.6 | 5.9 | - | - | - | - | - | - | - |
| 56 X35D620 | 6.3 | 14.2 | - | - | 1 | - | 27.2 | 11.2 | - | 4.1 | 15.1 | 0.7 | 12.2 | 11.2 | 7.3 |
| 57 X35D623 | 34.2 | 34.7 | - | 15.4 | 4.6 | - | 22.9 | 12 | - | 9.7 | - | 56.9 | 0.6 | 3.9 | 6.1 |
| 58 X35D602 | 59.2 | 17.5 | 27 | 34.8 | 4.3 | - | 10.2 | 33.5 | - | 15.8 | 6.1 | 46.9 | - | 10.7 | 10.8 |
| 59 X35D603 | 50.2 | 16 | 10.5 | 24.6 | 2.1 | - | 30.5 | 19.3 | - | 13 | 24.3 | 21.8 | 25 | 24.1 | 12.9 |
| 60 Bio 451 | 31.7 | 28.8 | 10.7 | - | - | - | 14.8 | 6.3 | - | 3.7 | 21.2 | 8.3 | 22.5 | 19.2 | 8.1 |
| 61 GWH-0711 | - | - | - | - | - | - | - | 3.2 | - | - | - | - | - | - | - |
| 62 REH-2012-1 | - | - | - | - | - | - | - | - | - | - | - | - | 8.9 | - | - |
| 63 REH-2012-2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 64 REH-2012-4 | - | - | - | - | - | - | 1.7 | - | - | - | - | - | - | - | - |
| 65 JH 31595 | 26.2 | - | 3.7 | - | - | - | - | - | - | - | - | 33.2 | - | - | - |
| 66 JH 31537 | 12.2 | 9.9 | 0.5 | - | - | - | 2 | - | - | - | - | - | 50.1 | 7.1 | 0.9 |
| 67 JH 31604 | 24.7 | 6 | - | 1.6 | 7.2 | - | 7.1 | - | - | - | - | 25.4 | 3.3 | - | 1.9 |
| 68 JH 31600(JH 31627) | 12.3 | 9.7 | 18.1 | 1.7 | - | - | 5.5 | 20.6 | - | 2.5 | - | - | 19.3 | 4.9 | 6.1 |

BR56

Table No. 2 (Continued)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L MEAN | | |
|----------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | | UDAI | MEAN |
| 69 | JH 31244 | 16.1 | - | 15.3 | 26.6 | - | - | 1.8 | 8.5 | - | - | - | - | 8.8 | - | |
| 70 | JH 31554 | 1.5 | - | - | 9.5 | - | - | 7.9 | 5.4 | - | - | - | 16.9 | - | 2.3 | |
| 71 | AH-1226 | - | - | - | - | - | - | - | 12.5 | - | - | - | - | - | - | |
| 72 | AH-1262 | - | - | - | 7.3 | - | - | - | - | - | - | - | - | 23.5 | - | |
| 73 | MMH-2-12-13 | 29.4 | - | - | - | - | - | 0.2 | - | - | - | - | 46.8 | - | - | |
| 74 | MMH-3-12-13 | 14.5 | - | - | 16.6 | - | - | 0.6 | - | - | - | 9.9 | 29.3 | - | 7.7 | |
| 75 | MMH-4-12-13 | - | - | - | - | - | - | - | - | - | - | - | 16.5 | - | - | |
| 76 | MMH-5-12-13 | - | - | - | 3.3 | - | - | - | - | - | - | 5.3 | 38 | - | - | |
| 77 | HKH 338 | 16.5 | - | - | - | - | - | - | - | - | - | - | 31.8 | - | - | |
| 78 | HKH 339 | 6 | - | - | - | - | - | - | - | - | - | - | 14.8 | - | - | |
| 79 | HKH 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 80 | KNMH-4302 | - | - | - | 2.8 | - | - | - | - | - | - | - | - | - | - | |
| 81 | KNMH-4303 | 23.6 | - | 0.3 | 1.5 | - | - | - | - | - | - | - | 10.1 | 24 | 8.2 | |
| 82 | KNMH-4304 | - | - | 4.6 | 11.9 | - | - | - | 5 | - | - | - | 49.6 | - | - | |
| 83 | KNMH-4305 | 9.6 | - | - | - | - | - | - | - | - | - | - | 33.5 | - | 0 | |
| 84 | KNMH-4010131 | 54.3 | - | 22.2 | 6.3 | - | - | 11.7 | 10.8 | - | 8.1 | 6.1 | 69.7 | 31.1 | 28 | 8.2 |
| | CHECKS | | | | | | | | | | | | | | | |
| 85 | PMH4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 86 | BIO9637 | - | - | - | 4.4 | 0 | - | 5.5 | - | - | - | - | 5.9 | - | - | - |
| 87 | HM12 | - | - | - | 10.6 | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

Table No. 2 (Continued)

| Sl No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO9637 | | | | | | | | | | | | | | | | |
|---------------------------|--|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 1 QMH-29134 | - | - | - | 80.4 | - | - | 5.3 | - | - | - | - | - | - | - | - | - | - |
| 2 QMH-2916 | - | - | - | 13.1 | - | - | 45.6 | - | - | - | - | - | - | - | - | - | - |
| 3 EHL-3412 | 6.8 | 13.6 | 10.4 | 20.4 | - | - | 40.9 | 6.2 | - | - | - | - | - | 19.5 | - | 2.9 | - |
| 4 EHL-1111 | 2.5 | - | 3.4 | 52.8 | 55.7 | - | 48.6 | 13 | 4.5 | - | - | - | - | - | - | - | - |
| 5 EHL-3512 | 0.4 | 34.9 | 8.6 | - | - | - | 8.9 | - | 9.7 | - | - | - | 21 | - | 31.9 | - | 6 |
| 6 S-6750 | 17.7 | 22.4 | 24.9 | - | 91.5 | 18 | 78 | 30.9 | 16.1 | 28.4 | - | 10.5 | 0.6 | 25 | 101.9 | 34.7 | 35.3 |
| 7 RMH-932 | - | - | 6.2 | 57.7 | 22.6 | 5.6 | 40.1 | 12.8 | 12.6 | - | - | - | - | 24.6 | 21.5 | - | 6.5 |
| 8 RMH-3591 | 12.7 | 3.5 | 25.8 | 132.5 | 70.6 | - | 87.7 | 36 | 3.4 | 19.4 | 4.7 | 9.1 | - | 13.9 | 10.3 | - | 1.4 |
| 9 PHM-34(W) | - | - | - | - | - | 11.6 | 15.1 | - | - | - | - | - | 17.7 | 1.9 | 0.6 | - | - |
| 10 PHM-12(Y) | 3 | 45.6 | - | 56.6 | 24.9 | - | 38.6 | 11.2 | - | 7.7 | - | - | 18 | 10.9 | 1.9 | - | 7.7 |
| 11 LG-3271 | 7.2 | - | 11.2 | 39.2 | 0.7 | - | 67.5 | 16.1 | - | 4.9 | - | - | - | 35.5 | - | - | 3 |
| 12 LG-3282 | 20.1 | 2.2 | 11.5 | 178 | 77.9 | 11.5 | 48 | 37 | 3.4 | 25.7 | - | 5.8 | - | 6 | 57.5 | 17.4 | 12.6 |
| 13 FCH-85 | 13.4 | 28.4 | - | - | - | - | 37.7 | 2.9 | - | - | - | - | 15.2 | 5.1 | 69 | - | 13.1 |
| 14 FCH-184 | 14.9 | 13.4 | - | 15.9 | 20.3 | - | 85.9 | 14.6 | 22.8 | - | - | - | - | - | 30.7 | - | - |
| 15 FCH-11231 | 11.9 | 15.5 | 3.9 | 175.6 | 13.8 | 5.3 | 15.8 | 22.5 | 15.8 | 16.1 | 3.4 | 11 | 31.3 | 26.8 | 52 | - | 22 |
| 16 KMH-6 | - | - | 9.1 | 48.8 | 34 | - | - | - | 16.5 | - | - | - | - | 11.9 | 27.9 | - | - |
| 17 KMH-84 | - | - | - | 63.3 | 13.2 | 9.6 | - | - | - | - | - | - | 15.6 | - | - | - | - |
| 18 KMH-6681 | 22.4 | 16.6 | 26.4 | 0.6 | - | 6.5 | 34.9 | 18.5 | 20.2 | - | 4 | 5.2 | - | 17.6 | 94.7 | - | 17.4 |
| 19 KMH-5951 | 20.5 | - | 2 | 21.5 | 28.8 | - | 76.9 | 19.9 | 16.3 | - | - | - | 52.7 | 13.2 | 8.3 | - | 16.9 |
| 20 JKMH-4545 | 9.8 | - | 23.2 | 54.4 | 65.2 | 32 | - | 22.2 | 22 | 44.3 | 6.8 | 23.2 | 5.7 | 5.6 | 58.1 | 14.8 | 17.2 |
| 21 SAFAL X-2 | 18.6 | 60.6 | 48.7 | 1.2 | 44.1 | 3.6 | 56.1 | 27.9 | 1.1 | 12.2 | - | - | 25.9 | 7.2 | 2.9 | - | 7.8 |
| 22 Kuber Shakthi | - | 40.2 | 7.7 | - | 14.4 | 13.9 | 31.6 | 6.5 | 33.5 | - | 3.5 | 7.9 | 19.3 | 16.7 | 104.5 | 27.9 | 35.6 |
| 23 DAS-MH-304 | 25.7 | 18.3 | - | 64.9 | - | - | 81.3 | 19.5 | 20.7 | 24.4 | 11.5 | 18.3 | 1.7 | 4.8 | - | - | - |
| 24 DAS-MH-305 | 19.5 | 10.7 | 5 | 26.6 | 61.8 | 25.3 | 11.4 | 19.8 | - | 1.6 | 11.1 | 2.4 | 39.3 | 19.2 | 97.8 | 32.3 | 41.1 |
| 25 KH-517 Gold | 10.2 | - | - | - | 52.8 | - | 3.2 | - | - | - | - | - | 2.4 | - | - | - | - |
| 26 KH-2248 | 29.9 | - | - | 7.3 | 18.8 | - | 10.6 | 4.1 | - | 1.2 | - | - | 7.5 | 4 | 19.3 | - | 3.1 |
| 27 TH-38 | 28.8 | - | 6.3 | 74.1 | 41.4 | - | 87.8 | 28.9 | 11.6 | 1.3 | 14.6 | 9.5 | - | 4 | 55.8 | - | 3.5 |
| 28 MAHABEEJ-1202(Nirdhar) | 11.5 | 18 | 17.5 | - | 45.8 | - | 5.2 | 3.3 | - | 4.2 | 1.7 | 1.3 | 32.3 | 2.9 | 8.1 | - | 6.4 |
| 29 KDMH-2705 | 14.7 | - | 54.2 | 203.9 | 99.6 | 9.6 | 68 | 50.5 | 4.6 | 23.3 | - | 5.1 | - | - | 87 | - | 10.4 |
| 30 EH-2205 | - | 6.2 | 7.6 | 62.3 | - | 4.7 | 44.2 | 7.4 | 17.5 | - | - | - | - | - | 33.4 | - | - |
| 31 EH-2208 | - | - | - | 32.3 | 33.4 | 4 | 41.4 | 1.1 | - | 9.9 | - | - | - | 25.2 | 42.2 | - | 8.2 |
| 32 EH-2240 | - | 20.9 | - | 80.1 | 20.4 | - | 14.9 | 1.6 | - | - | - | - | - | - | 105.2 | 10.8 | 17.1 |
| 33 VaMH-08015 | - | - | - | 24.5 | - | - | 1 | - | - | - | - | - | - | - | 18.7 | - | - |
| 34 PMH-209 | 11.5 | - | - | 45.2 | 14.4 | - | 8.7 | 4 | 17.1 | 15.7 | - | 9.3 | 6.2 | 9.3 | 24.1 | - | 4.6 |

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Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO9637 | | | | | | | | | | | | | | | | |
|-----------------------|--|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 35 PRMH-2177 | 2.9 | - | - | - | 21.1 | - | 6.3 | - | - | 20.3 | - | 3.5 | 0.6 | 8.6 | 24.2 | - | 5.7 |
| 36 NMH-1289 | 18 | 10.9 | 8.3 | - | - | - | 72.5 | 12.2 | - | - | - | - | 3 | 10.3 | 9.5 | 21.8 | 11.5 |
| 37 HTMH-5402 | 3.4 | 32.2 | 48.2 | 42.1 | 5.5 | - | 35.8 | 15.7 | - | - | 5.8 | - | - | 6.1 | 36.9 | 3.6 | 7.4 |
| 38 CMH 10-488 | 6.4 | - | - | 6.8 | 2.2 | - | 51.6 | 4.3 | 1.3 | - | - | - | - | 16.5 | 56 | 0.2 | 10.3 |
| 39 CMH 10-547 | - | - | 13 | 81.6 | 40.9 | 7.2 | 57.4 | 21 | 8.1 | 15.4 | 15.5 | 13.4 | - | 8.5 | 40.8 | 14.3 | 9.8 |
| 40 CMH 11-582 | 24.9 | 8.6 | - | 37.3 | 38.4 | 18.1 | 14 | 15.7 | 9.8 | 23.2 | - | 6.6 | 6 | 26.5 | 22 | 41.3 | 24.9 |
| 41 CMH 11-603 | 8.1 | 16.8 | 18.2 | 37.7 | - | - | 19.9 | 7.7 | - | - | - | - | - | 34.5 | 69.6 | - | 16.5 |
| 42 CMH 11-617 | 20.1 | 13.9 | - | 57.1 | 9.9 | 6.6 | 71.3 | 22.5 | - | 13.5 | 6.4 | 6.1 | - | - | 68.8 | 2.7 | 9.9 |
| 43 IM8478 | 9.4 | 15.8 | 25.8 | 32.5 | 56.9 | 19.9 | 64.4 | 28 | 21.3 | 61.1 | 8.2 | 29.1 | 17.8 | 61.1 | 61.6 | 18 | 39.8 |
| 44 IM8479 | 5.1 | 36.7 | 13.4 | 51.8 | 66.1 | 7.2 | 28.7 | 18.5 | 0.2 | 38.8 | - | 4.6 | 19.8 | 13.7 | 78.5 | 2.6 | 23.5 |
| 45 IM8581 | 6.5 | 4.4 | 9.1 | 63.4 | 31.8 | - | 70.3 | 20.7 | 1.3 | 35.8 | 7.9 | 15.2 | 14.3 | 12.5 | 69.5 | 9.8 | 22.2 |
| 46 IM 7519 | 4 | - | 29.6 | - | 24.9 | - | 11.5 | 7.5 | 4.7 | 30.4 | 3.7 | 12.7 | 13.1 | 3.8 | 31.6 | 7.7 | 11.9 |
| 47 IM 7501 | 31.2 | 9.2 | 48.7 | - | 28.8 | 4.2 | 2.3 | 21.2 | - | 49.8 | 6.3 | 14 | 17.4 | 22.9 | 20.5 | 18.4 | 20 |
| 48 BH 41015 | 10.5 | 20.3 | 14.4 | - | - | 9.3 | 25.5 | 9.8 | - | - | 15.9 | - | - | 5.3 | 30 | - | 2.6 |
| 49 BH 41030 | 3.6 | - | - | 60.9 | 10.6 | - | 66.4 | 1.3 | 7 | - | 5 | - | - | 3.2 | 32.4 | - | 4 |
| 50 BH 41145 | 8.4 | - | - | - | - | 0.2 | 11.9 | - | - | - | - | - | - | - | 10 | 8.6 | - |
| 51 BH 41150 | - | - | - | 83.6 | 30.5 | - | - | - | - | - | - | - | - | - | 20 | - | - |
| 52 BH 411736 | - | - | - | 58.5 | - | - | 7.4 | - | - | - | - | - | - | 38.2 | 30.9 | - | 12.7 |
| 53 BH 411737 | - | 9.1 | 8.5 | 109.5 | 27.4 | - | 20.4 | 2.2 | - | - | - | - | - | - | 49.2 | - | - |
| 54 BH 411520 | - | 50.4 | - | 61.6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 55 VEH 12-1 | - | 8.1 | - | 52.6 | - | - | - | - | 18.3 | - | - | - | - | 9.1 | - | - | - |
| 56 X35D620 | 18.8 | - | 8.6 | 54.8 | 86.8 | 16.4 | - | 19.6 | 11.8 | 26.7 | 21 | 20.3 | - | 13 | 15.8 | 2.8 | 1.9 |
| 57 X35D623 | 23.8 | - | 0.8 | 5.5 | 4.5 | - | 10.9 | 9.7 | 26.5 | - | 6 | 3 | - | 36.7 | 16 | 17.8 | 14.9 |
| 58 X35D602 | 18.4 | 14.6 | - | 65.4 | 40.2 | 15.8 | 30 | 18.8 | 8.4 | 33.5 | 3.6 | 14.7 | - | - | 50.6 | 0.1 | 2 |
| 59 X35D603 | 26.5 | 4.2 | - | 18.8 | 28.5 | 4.5 | 93.2 | 22.6 | 2.8 | 15.2 | 14.4 | 11.5 | - | 18.1 | 16.7 | 28.5 | 14 |
| 60 Bio 451 | 4.4 | 27.6 | 46.8 | 47.1 | 48.5 | 0.4 | 84.8 | 30.7 | - | - | - | - | - | 29.9 | 55.4 | - | 13.1 |
| 61 GWH-0711 | - | - | - | 39.7 | - | - | 10.1 | - | - | - | - | - | - | - | - | - | - |
| 62 REH-2012-1 | - | - | 3.9 | - | - | - | 32.2 | - | - | - | 5.5 | - | 18.4 | 8.4 | 41.6 | - | 10 |
| 63 REH-2012-2 | - | - | 15.6 | - | - | - | 1.3 | - | - | - | - | - | - | - | - | - | - |
| 64 REH-2012-4 | - | 10.1 | 8.4 | - | 8.8 | - | 1.7 | - | - | - | 8.7 | - | - | - | - | - | - |
| 65 JH 31595 | - | 35.6 | 5.8 | 124.5 | 38.2 | - | 26.7 | 16.9 | - | - | - | - | - | 10.8 | 35.4 | 6.8 | 10.7 |
| 66 JH 31537 | - | - | 13.3 | 113 | 26.1 | - | 82.8 | 18.9 | - | - | 9.4 | - | - | 15.8 | 28.1 | - | 9.5 |
| 67 JH 31604 | 2.4 | 24.8 | 20.8 | 107.2 | 38.6 | - | 15.6 | 15.7 | 11.2 | 14.7 | 0.2 | 8 | - | 3.2 | 23 | 14.5 | 4.5 |
| 68 JH 31600(JH 31627) | 0.2 | 62.3 | - | 76.5 | 50.9 | 10.7 | 81.2 | 19.4 | 0.6 | 22.7 | 0.6 | 7.8 | - | 9.4 | 65 | 12 | 16.4 |

Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE BIO9637 | | | | | | | | | | | | | | | |
|-------------------|--|------|------|-------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| | BAJA | BARA | BERT | DHAU | KANG POON | UDHA | ZN 1 | | | ZN 2 | | | | ZN 3 | | |
| | | | | | | | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 69 JH 31244 | - | - | - | 63.3 | 33.4 | - | 1.9 | - | - | 6.3 | - | 7.6 | 7.9 | - | - | 0.8 |
| 70 JH 31554 | 2.4 | - | - | 9 | - | 7 | 51.2 | 5.2 | 16.4 | 6.7 | 6.4 | 9.2 | 6.4 | - | 22.9 | - |
| 71 AH-1226 | - | - | - | 70.8 | - | - | 8 | - | - | - | - | - | - | - | 0.7 | - |
| 72 AH-1262 | - | - | - | 13.8 | - | - | 25.6 | - | - | - | - | - | 16.2 | 18.8 | - | 5.8 |
| 73 MMH-2-12-13 | 10.2 | - | - | 171.5 | - | - | 49.9 | 17.6 | - | - | - | - | 6.1 | 23.7 | - | 2.1 |
| 74 MMH-3-12-13 | - | - | - | 16.4 | - | - | 21 | - | 5.5 | - | - | - | 4 | 19.7 | - | - |
| 75 MMH-4-12-13 | - | - | - | 54.3 | - | - | 21.6 | - | 11.7 | - | - | - | 5 | 10.9 | - | - |
| 76 MMH-5-12-13 | - | - | - | 73.4 | - | - | 8.2 | - | - | - | - | - | 13.7 | - | - | - |
| 77 HKH 338 | 6.8 | - | - | 48.2 | 35.2 | - | 15.7 | 2.2 | - | - | - | - | - | 23.7 | - | - |
| 78 HKH 339 | - | - | - | 43.7 | 27.5 | - | 33.1 | 7.9 | - | - | - | - | - | 26.4 | - | - |
| 79 HKH 340 | - | - | - | 11.4 | - | - | 21.1 | - | - | - | - | - | - | - | - | - |
| 80 KNMH-4302 | 0.6 | - | 5.7 | 56.8 | - | - | 10.5 | - | - | - | - | - | 10.6 | - | - | - |
| 81 KNMH-4303 | - | - | - | 71.8 | - | - | - | - | - | - | - | - | 12.8 | 4.7 | - | - |
| 82 KNMH-4304 | 8.5 | - | 15.3 | 7.9 | - | - | - | - | - | 3.7 | - | - | 5.9 | 35.4 | 3 | - |
| 83 KNMH-4305 | - | 17.5 | 26.2 | 57.6 | 1.8 | - | 2.4 | - | - | - | - | - | 16.6 | - | - | - |
| 84 KNMH-4010131 | 1.6 | 0.7 | 19.6 | 65.9 | 8.7 | - | 31.7 | 14.2 | - | 2.3 | - | - | 9.4 | 35.9 | 10.2 | 15.7 |
| CHECKS | | | | | | | | | | | | | | | | |
| 85 PMH4 | 3.3 | 8.4 | - | 189.7 | 27.8 | - | 5.7 | 15.4 | - | - | - | - | 7.1 | 55.3 | 7.4 | 12.2 |
| 86 BIO9637 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 87 HM12 | - | 88.4 | - | - | 5.2 | - | 10.7 | - | - | - | - | - | - | - | 18.2 | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

BR60

Table No. 2 (Continued)

| Sl No | PEDIGREE | ZN 4 | | | | | | | | | | | ZN 5 | | OV'L | |
|----------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | UDAI | | MEAN |
| 1 | QMH-29134 | - | - | - | - | - | - | - | - | - | 1.3 | 29.5 | - | - | - | |
| 2 | QMH-2916 | - | - | - | - | - | - | - | 31.9 | - | 0 | - | - | - | - | |
| 3 | EHL-3412 | 19.3 | 31.6 | 1.2 | - | - | - | 30.6 | 19.6 | 3.1 | 28.7 | 16 | 47.5 | 32.1 | 3 | |
| 4 | EHL-1111 | - | - | - | - | - | - | - | 8.1 | - | 8.7 | 12.2 | 9.4 | 9.8 | - | |
| 5 | EHL-3512 | 14.2 | 41.1 | - | - | - | - | 10 | - | - | - | - | 70.1 | 14.5 | - | |
| 6 | S-6750 | 86.3 | 90.2 | 40 | 28.8 | 1.4 | 13.5 | 21.2 | 2.5 | 15.9 | 30 | 22.6 | 48.2 | 43 | 35.6 | 28.3 |
| 7 | RMH-932 | 21.9 | 42.6 | 30.2 | - | 4.9 | - | 11.5 | - | 25.6 | 11.2 | - | 12.9 | 64.5 | 23.5 | 8.6 |
| 8 | RMH-3591 | 43.4 | 78.2 | 8.9 | 10.6 | - | 9.1 | 30 | 15.1 | - | 20.5 | 10.5 | 30.5 | 4.5 | 13.2 | 18.3 |
| 9 | PHM-34(W) | - | - | 11.2 | - | - | - | 1.2 | - | - | - | 6.1 | - | 11.5 | 6 | - |
| 10 | PHM-12(Y) | - | 65.1 | 7.8 | - | - | - | 3.1 | 2.1 | - | - | 19.1 | 18.7 | 30.3 | 22.8 | 4.4 |
| 11 | LG-3271 | 6.5 | 71.3 | 2.9 | - | - | - | 14.3 | 6.3 | - | 5 | 31.3 | - | 14.7 | 12 | 6.7 |
| 12 | LG-3282 | 56.1 | 37.8 | 58.7 | - | 4.6 | 20.3 | 16.6 | 13.5 | - | 20.7 | 13 | 26.2 | 84.7 | 40.5 | 22.2 |
| 13 | FCH-85 | - | 25.9 | 41.3 | - | - | 19.8 | 20.3 | 6 | 7 | 6 | 30.5 | - | 17.2 | 13 | 3.3 |
| 14 | FCH-184 | - | 81 | 29.3 | - | 2.7 | 1.8 | 12 | - | - | 4.2 | - | - | - | - | 1.9 |
| 15 | FCH-11231 | 65.6 | 63.4 | 58.6 | - | - | 12.4 | 9.4 | 15.4 | 18.2 | 22.5 | 12.2 | 32.5 | 14.9 | 17.9 | 20.2 |
| 16 | KMH-6 | - | 7.7 | 9.6 | - | - | - | - | 6.4 | 11.7 | - | - | - | - | - | - |
| 17 | KMH-84 | - | 13.5 | - | - | - | - | - | 2.1 | 1.7 | - | - | - | - | - | - |
| 18 | KMH-6681 | 55.2 | 68.1 | 3.2 | - | 11.6 | 5.4 | 12.8 | 20.7 | 5.9 | 16.3 | 28.7 | - | 41.2 | 22.1 | 15.6 |
| 19 | KMH-5951 | - | 25 | - | 2.5 | - | 2 | 14.5 | - | - | - | 33.9 | 25.9 | 53.9 | 38.8 | 9.2 |
| 20 | JKMH-4545 | 25.5 | 32.4 | 76.3 | - | 7.8 | 16.1 | 36.2 | 37.9 | 1.1 | 25 | 59.1 | 26.7 | 71.6 | 55.7 | 25.7 |
| 21 | SAFAL X-2 | 64.7 | 18.1 | 52.9 | - | - | 12.1 | 14.1 | 17.5 | 20.5 | 15.6 | 38.2 | 69.2 | 64 | 54.3 | 16.8 |
| 22 | Kuber Shakthi | 44.8 | 13.9 | 84.2 | 13.5 | 3.1 | 23.6 | 24.2 | - | 4.3 | 21.6 | 20.9 | 55.3 | 60.3 | 42.4 | 20.2 |
| 23 | DAS-MH-304 | 6 | 50.3 | - | - | 4.3 | 15 | 18.9 | 2 | - | 6.7 | 13.9 | - | 21.9 | 12.4 | 10.2 |
| 24 | DAS-MH-305 | 58.3 | 39.8 | 36.6 | - | - | 11 | 6.3 | 6.7 | 17.3 | 14.7 | 68.7 | 42.9 | 5.5 | 41.1 | 20.1 |
| 25 | KH-517 Gold | 2.1 | - | 56.1 | - | - | - | 5.9 | 2.2 | - | - | 10.5 | - | 22.6 | 9.5 | - |
| 26 | KH-2248 | - | 55.6 | 11.9 | - | - | 1.4 | - | 9.3 | 2 | 3.2 | 8.7 | - | 30.7 | 13.1 | 3.4 |
| 27 | TH-38 | - | 23.6 | 17.7 | - | - | 0.1 | 14.8 | 17.5 | - | 4 | - | 0.3 | 48.2 | 13.1 | 10.8 |
| 28 | MAHABEEJ-1202(Nirdhar) | 35.1 | 31.6 | 30.8 | - | - | 7.4 | 3.1 | 0.7 | - | 5.7 | - | 1.1 | 64.6 | 19.2 | 5.8 |
| 29 | KDMH-2705 | 68 | 44.9 | 37.7 | - | 14.7 | - | 25.6 | - | 6 | 15.6 | 40 | 56.3 | 93 | 61.8 | 24.5 |
| 30 | EH-2205 | 3.2 | 21.5 | 17.7 | - | - | - | 4.2 | - | 14.3 | - | - | 4.8 | 110.1 | 28.9 | 2 |
| 31 | EH-2208 | 17.8 | 28.4 | 26.4 | - | - | - | - | 3.1 | 11.7 | - | - | - | 113.4 | 24.7 | 2.3 |
| 32 | EH-2240 | 33 | 25.2 | 20.5 | - | 4.7 | 4.7 | 6.9 | - | 32.8 | 8.6 | - | - | 117.7 | 38.2 | 8.3 |
| 33 | VaMH-08015 | - | - | - | - | - | - | - | - | 2.5 | - | - | - | - | - | - |
| 34 | PMH-209 | 7.5 | 39 | 35.2 | - | - | 3.6 | 10.9 | 1.2 | - | 1.7 | 29.6 | - | 30.1 | 20.7 | 5.5 |

Table No. 2 (Continued)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | | | | ZN 5 | | OV'L |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | UDAI | MEAN | MEAN | |
| 35 PRMH-2177 | 6.2 | 23.6 | 27.3 | - | - | 20.7 | 8.5 | 11.5 | 5.2 | 8 | 33.1 | 2.2 | 55 | 33.2 | 6.8 | |
| 36 NMH-1289 | 11.8 | 69.9 | 47.8 | - | 5 | 5.3 | 27 | - | 2.7 | 14.5 | 11.3 | - | 51.5 | 22.2 | 11.1 | |
| 37 HTMH-5402 | 24.2 | 60.7 | 80 | 16.8 | - | 21.5 | 30.2 | - | 39.4 | 26.2 | 18.3 | 60.2 | 71.7 | 46.4 | 17.4 | |
| 38 CMH 10-488 | 48 | 49.7 | 51.1 | - | 3.2 | 13.4 | 2.6 | 2.5 | 15.4 | 17.2 | 1.7 | 23.7 | 48.2 | 22.7 | 9.5 | |
| 39 CMH 10-547 | 54.6 | 61 | 68.7 | 1.4 | 4.1 | - | 11 | - | 14.6 | 17.7 | 27.8 | 25.5 | 46.4 | 33.6 | 17.9 | |
| 40 CMH 11-582 | 82.3 | 80 | 49.9 | 24.2 | 0.7 | 17.8 | 7.7 | - | 29 | 27.7 | 16.5 | 40.6 | 4.1 | 18 | 20.5 | |
| 41 CMH 11-603 | 21 | 50.5 | 72.6 | 10.9 | - | 14 | 10.3 | - | 51.4 | 20.2 | 5.2 | 30.1 | 34.7 | 21.1 | 12.8 | |
| 42 CMH 11-617 | 80.6 | 50.3 | 69.5 | - | 0.7 | 18.5 | 16 | - | 17.4 | 23.1 | 12.2 | 34 | 62.2 | 34.3 | 19.2 | |
| 43 IM8478 | 64.9 | 68.2 | 63.7 | - | - | 9.8 | 26.6 | 26.5 | 28.2 | 27.1 | 87 | 30 | 58.3 | 63.8 | 32.8 | |
| 44 IM8479 | 62.6 | 49 | 52.4 | 14.7 | - | 17.5 | 22.3 | - | 47.1 | 24.4 | 67 | 38.4 | 46 | 53.1 | 22.4 | |
| 45 IM8581 | 54.8 | 50.3 | 62.4 | - | - | 8.6 | 19.1 | - | - | 15.2 | 65.2 | 55.7 | 36.3 | 53.2 | 20.8 | |
| 46 IM 7519 | - | 41.5 | 75 | - | - | 19.3 | 17.8 | - | - | 10.4 | 22.6 | 62 | 88.3 | 54.2 | 14.3 | |
| 47 IM 7501 | - | 44.7 | 41.5 | 7.3 | 1.3 | 18.3 | 17.5 | 8.4 | 21 | 16.3 | 47.9 | 24.5 | 45.7 | 41.6 | 19.8 | |
| 48 BH 41015 | 3.7 | - | 41.8 | - | 4.5 | 2.3 | 12.6 | 2.2 | 24.2 | 7.3 | 2.6 | - | 33.5 | 9 | 4.5 | |
| 49 BH 41030 | 28.2 | 26.8 | 57.4 | - | 11.1 | 3.3 | 5.1 | 13 | 15 | 13.1 | - | 5.8 | 59.6 | 20.9 | 7.2 | |
| 50 BH 41145 | - | - | 27.4 | - | 9.7 | - | - | - | 15.5 | 0 | - | 17.5 | 69.5 | 26.3 | 0.2 | |
| 51 BH 41150 | 0.5 | 20.1 | 52.2 | - | - | - | - | 21 | - | 4.2 | - | 42.7 | 64.6 | 30.2 | - | |
| 52 BH 411736 | 0.1 | - | 22.4 | - | - | - | - | 11.1 | 0.3 | - | - | 1.4 | - | - | - | |
| 53 BH 411737 | 19 | 10.2 | 14.6 | - | - | 1 | - | 10.7 | 4.4 | 0.1 | - | - | 35.5 | 5.3 | - | |
| 54 BH 411520 | - | - | 33.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 55 VEH 12-1 | - | 14.9 | 36.7 | - | - | - | - | 8.2 | - | - | - | - | - | - | - | |
| 56 X35D620 | 11.6 | 39 | 21.8 | - | 1 | 20.1 | 20.5 | 13.6 | 0.8 | 13.4 | 32.2 | - | 51.1 | 29.8 | 15.6 | |
| 57 X35D623 | 40.9 | 64 | 19.2 | 10.5 | 4.6 | 16.6 | 16.4 | 14.4 | - | 19.5 | - | 48.2 | 35.5 | 21.2 | 14.3 | |
| 58 X35D602 | 67.1 | 43.1 | 59 | 29.1 | 4.3 | 14 | 4.5 | 36.4 | - | 26.1 | 21.8 | 38.7 | 31.9 | 29.2 | 19.4 | |
| 59 X35D603 | 57.7 | 41.2 | 38.3 | 19.3 | 2.1 | 14.8 | 23.7 | 21.8 | - | 23.1 | 42.7 | 15 | 68.3 | 44.8 | 21.7 | |
| 60 Bio 451 | 38.3 | 56.8 | 38.5 | - | - | 11.8 | 8.8 | 8.6 | 19.4 | 13 | 39.1 | 2.2 | 64.9 | 39.2 | 16.4 | |
| 61 GWH-0711 | - | - | 12.1 | - | - | - | - | 5.4 | - | - | - | - | 6.9 | - | - | |
| 62 REH-2012-1 | - | 20.3 | - | - | - | - | - | - | - | - | - | - | 46.6 | 1.8 | - | |
| 63 REH-2012-2 | - | 15.3 | 23.6 | - | - | - | - | - | - | - | 0.9 | - | 29.4 | 7.2 | - | |
| 64 REH-2012-4 | - | 12.2 | 19.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 65 JH 31595 | 32.4 | 21 | 29.8 | - | - | 3.8 | - | - | - | 2.2 | 12.2 | 25.7 | - | 11 | 6 | |
| 66 JH 31537 | 17.8 | 33.8 | 25.9 | - | - | - | - | 1.3 | 4.3 | 3.2 | - | - | 102 | 25 | 8.7 | |
| 67 JH 31604 | 30.9 | 29 | - | - | 7.2 | 13 | 1.5 | 1.7 | 10 | 8 | - | 18.4 | 39 | 15.4 | 9.7 | |
| 68 JH 31600(JH 31627) | 17.9 | 33.6 | 47.9 | - | - | 6.8 | 0 | 23.1 | - | 11.6 | 7.8 | - | 60.6 | 22.4 | 14.3 | |

BR62

Table No. 2 (Continued)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OVL | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | | UDAI | MEAN |
| 69 JH 31244 | 21.9 | - | 44.4 | 21.3 | - | - | - | 10.8 | 29.1 | 7.8 | - | - | 46.5 | 11.4 | 2.9 |
| 70 JH 31554 | 6.6 | 10.7 | - | 4.9 | - | - | 2.2 | 7.7 | - | - | 13.9 | 10.4 | 32.5 | 19.4 | 3.9 |
| 71 AH-1226 | - | - | 3.5 | - | - | - | - | 14.9 | - | - | - | - | - | - | - |
| 72 AH-1262 | - | - | 9.7 | 2.8 | - | - | - | - | - | - | - | - | 66.2 | 10.7 | - |
| 73 MMH-2-12-13 | 35.8 | 17.2 | - | - | - | - | - | - | - | - | - | 38.6 | - | 4.6 | 2.5 |
| 74 MMH-3-12-13 | 20.2 | 18.2 | - | 11.6 | - | - | - | - | 15.6 | 2.4 | 26.1 | 22.1 | 27.7 | 25.7 | 0.3 |
| 75 MMH-4-12-13 | - | - | 19.8 | - | - | - | - | - | 3 | - | - | 10 | 24.7 | 1.5 | - |
| 76 MMH-5-12-13 | - | - | 1.4 | - | - | - | - | - | - | - | 20.9 | 30.3 | - | 12.7 | - |
| 77 HKH 338 | 22.3 | 11.5 | 22.1 | - | - | - | - | 1.9 | - | - | 7 | 24.4 | - | 8 | - |
| 78 HKH 339 | 11.3 | 10.9 | - | - | - | - | - | - | - | - | - | 8.4 | 7.7 | - | - |
| 79 HKH 340 | - | - | 13.1 | - | - | 3 | - | 0.5 | - | - | 1.7 | - | 4 | - | - |
| 80 KNMH-4302 | - | - | - | - | - | - | - | - | - | - | - | - | 19.1 | - | - |
| 81 KNMH-4303 | 29.7 | 20.8 | 25.6 | - | - | - | - | - | - | - | 6.1 | 4 | 66.9 | 26.2 | - |
| 82 KNMH-4304 | 1.7 | 18.1 | 30.9 | 7.2 | - | 1.8 | - | 7.3 | - | 3.9 | 1.8 | 41.2 | 17.8 | 16.5 | 0.3 |
| 83 KNMH-4305 | 15 | 1.3 | 11 | - | - | 13.9 | - | - | 29.5 | 2.6 | 7.9 | 26 | 21.3 | 16.7 | - |
| 84 KNMH-4010131 | 62 | 18.8 | 53 | 1.8 | - | 13.6 | 5.9 | 13.1 | 34.4 | 17.8 | 21.8 | 60.2 | 76.5 | 49.4 | 16.6 |
| CHECKS | | | | | | | | | | | | | | | |
| 85 PMH4 | 5 | 21.7 | 25.2 | - | - | 22 | - | 2.1 | 37.4 | 8.9 | 14.8 | - | 34.6 | 16.7 | 7.7 |
| 86 BIO9637 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 87 HM12 | - | 13.1 | - | 5.9 | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM12 | | | | | | | | | | | | | | | | |
|---------------------------|---|------|-------|-------|------|-------|------|------|------|------|------|------|-------|------|-------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 1 QMH-29134 | 7.9 | - | - | 114.7 | - | 18.5 | - | 10.4 | 12 | - | - | - | - | - | 4.3 | - | - |
| 2 QMH-2916 | - | - | 52.3 | 34.6 | - | 24.6 | 31.5 | 15.5 | - | - | - | - | 8.6 | 0.2 | - | - | - |
| 3 EHL-3412 | 23.2 | - | 82.1 | 43.2 | - | 31.3 | 27.3 | 31.6 | 12.7 | 14.2 | - | 6.4 | 12.3 | 26.2 | - | - | 0.6 |
| 4 EHL-1111 | 18.3 | - | 70.5 | 81.8 | 48 | 34.5 | 34.3 | 40 | 24.7 | 4.9 | 4.5 | 10.2 | 5.3 | - | - | - | - |
| 5 EHL-3512 | 15.9 | - | 79.1 | - | - | 28.2 | - | 17 | 30.8 | 6.8 | - | 5.3 | 67.3 | - | 42.8 | - | 11.3 |
| 6 S-6750 | 35.8 | - | 106.1 | 6 | 82.1 | 94.3 | 60.8 | 62.2 | 38.5 | 61.6 | 4.6 | 31.5 | 39.1 | 32.1 | 118.5 | 14 | 42.1 |
| 7 RMH-932 | 9.6 | - | 75.2 | 87.6 | 16.5 | 73.9 | 26.6 | 39.8 | 34.3 | 14.5 | - | 7.7 | 24.1 | 31.7 | 31.5 | - | 11.9 |
| 8 RMH-3591 | 30 | - | 107.6 | 176.7 | 62.2 | 53 | 69.6 | 68.5 | 23.3 | 50.3 | 19.1 | 29.9 | 14 | 20.4 | 19.4 | - | 6.4 |
| 9 PHM-34(W) | 9.2 | - | 45 | - | - | 83.7 | 4 | 21.4 | - | - | - | - | 62.7 | 7.6 | 8.9 | - | - |
| 10 PHM-12(Y) | 18.8 | - | 55.1 | 86.3 | 18.7 | 63 | 25.2 | 37.8 | 18.3 | 35.5 | - | 12.7 | 63.1 | 17.2 | 10.3 | - | 13 |
| 11 LG-3271 | 23.6 | - | 83.4 | 65.7 | - | 52.5 | 51.3 | 43.9 | 16 | 32 | 9.2 | 18.1 | 25.1 | 43.1 | - | - | 8.1 |
| 12 LG-3282 | 38.6 | - | 83.9 | 230.8 | 69.1 | 83.5 | 33.7 | 69.8 | 23.3 | 58.2 | 3.6 | 25.9 | 14.6 | 12 | 70.4 | - | 18.2 |
| 13 FCH-85 | 30.8 | - | 53.8 | 17.4 | - | 21.8 | 24.4 | 27.5 | 12.4 | - | - | - | 59.4 | 11 | 82.9 | - | 18.7 |
| 14 FCH-184 | 32.5 | - | 57.3 | 37.9 | 14.4 | 29.2 | 67.9 | 41.9 | 46.5 | 12.4 | - | 14 | 23.3 | - | 41.5 | - | 2.6 |
| 15 FCH-11231 | 29.2 | - | 71.3 | 227.9 | 8.2 | 73.3 | 4.6 | 51.8 | 38.2 | 46.1 | 17.7 | 32.1 | 81.6 | 34 | 64.6 | - | 28.1 |
| 16 KMH-6 | - | - | 80 | 77 | 27.4 | 34.2 | - | 19.4 | 38.9 | 4 | - | 11.5 | - | 18.2 | 38.5 | - | 3.5 |
| 17 KMH-84 | - | - | 16.2 | 94.2 | 7.6 | 80.5 | - | 19 | 1.8 | - | - | - | 59.8 | - | 3 | - | - |
| 18 KMH-6681 | 41.2 | - | 108.5 | 19.7 | - | 75.4 | 21.8 | 46.8 | 43.4 | 18.2 | 18.3 | 25.2 | 9.6 | 24.3 | 110.8 | - | 23.2 |
| 19 KMH-5951 | 39 | - | 68.3 | 44.6 | 22.5 | 50.4 | 59.8 | 48.5 | 38.7 | 20.7 | 3.9 | 18.7 | 111.2 | 19.6 | 17.2 | - | 22.8 |
| 20 JKMH-4545 | 26.7 | - | 103.2 | 83.7 | 57.1 | 117.3 | - | 51.4 | 45.6 | 81.6 | 21.5 | 46.7 | 46.1 | 11.5 | 71.1 | - | 23.1 |
| 21 SAFAL X-2 | 36.9 | - | 145.3 | 20.4 | 37 | 70.6 | 41 | 58.5 | 20.6 | 41.2 | - | 10.6 | 74.1 | 13.3 | 11.4 | - | 13.1 |
| 22 Kuber Shakthi | 7.8 | - | 77.6 | - | 8.7 | 87.6 | 18.9 | 32 | 59.2 | 15.3 | 17.8 | 28.4 | 64.9 | 23.3 | 121.3 | 8.2 | 42.4 |
| 23 DAS-MH-304 | 45 | - | 39.7 | 96.2 | - | 54.2 | 63.8 | 48 | 44 | 56.6 | 26.9 | 40.8 | 40.6 | 10.7 | - | - | 1.2 |
| 24 DAS-MH-305 | 37.8 | - | 73.2 | 50.7 | 53.9 | 106.4 | 0.6 | 48.4 | 8.3 | 27.9 | 26.5 | 21.9 | 92.6 | 25.9 | 114 | 12 | 48.1 |
| 25 KH-517 Gold | 27.2 | - | 29.4 | 2.7 | 45.3 | 26.8 | - | 20.2 | 3.8 | 2 | - | - | 41.6 | - | - | - | - |
| 26 KH-2248 | 49.8 | - | 24.7 | 27.7 | 13 | 37.7 | - | 29 | 11.3 | 27.4 | 11.7 | 16.4 | 48.6 | 9.9 | 29.1 | - | 8.2 |
| 27 TH-38 | 48.6 | - | 75.3 | 107.1 | 34.5 | 42.7 | 69.6 | 59.8 | 33.1 | 27.5 | 30.5 | 30.3 | 4.5 | 9.9 | 68.7 | - | 8.7 |
| 28 MAHABEEJ-1202(Nirdhar) | 28.7 | - | 93.8 | 10.7 | 38.6 | 3.7 | - | 28 | 15.8 | 31.2 | 15.8 | 20.5 | 83 | 8.7 | 17 | - | 11.7 |
| 29 KDMH-2705 | 32.4 | - | 154.4 | 261.5 | 89.8 | 80.5 | 51.8 | 86.5 | 24.8 | 55.2 | 3.1 | 25.2 | 23 | 4.8 | 102.4 | - | 15.9 |
| 30 EH-2205 | - | - | 77.4 | 93 | - | 72.4 | 30.3 | 33 | 40.2 | 19 | - | 13.8 | 19.7 | - | 44.4 | - | 3.3 |
| 31 EH-2208 | - | - | 45.3 | 57.4 | 26.9 | 71.3 | 27.7 | 25.2 | 12 | 38.3 | - | 10.5 | 30.7 | 32.3 | 54 | - | 13.6 |
| 32 EH-2240 | 1.4 | - | 48.4 | 114.2 | 14.5 | 43.1 | 3.8 | 25.8 | 12.8 | 20.9 | - | 8.5 | 20.5 | 2 | 122.1 | - | 23 |
| 33 VaMH-08015 | 7.4 | - | 8.9 | 48.1 | - | - | - | 2.2 | 2.1 | - | - | - | - | 5.4 | 28.5 | - | - |
| 34 PMH-209 | 28.6 | - | 32.8 | 72.7 | 8.7 | 54.9 | - | 28.9 | 39.7 | 45.7 | 12.3 | 30.1 | 46.8 | 15.5 | 34.3 | - | 9.8 |

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Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM12 | | | | | | | | | | | | | | | | |
|-----------------------|---|------|-------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN |
| 35 PRMH-2177 | 18.8 | - | 58.6 | - | 15.1 | 29.1 | - | 19.7 | 10.6 | 51.4 | 10.5 | 23.1 | 39.1 | 14.7 | 34.4 | - | 11 |
| 36 NMH-1289 | 36.2 | - | 78.7 | - | - | 35.8 | 55.9 | 39 | 14.2 | 20.6 | 8 | 13.6 | 42.4 | 16.5 | 18.5 | 3.1 | 17 |
| 37 HTMH-5402 | 19.3 | - | 144.4 | 69 | 0.3 | 27.2 | 22.7 | 43.4 | 9.8 | - | 20.5 | 9.6 | 26.2 | 12.1 | 48.2 | - | 12.7 |
| 38 CMH 10-488 | 22.8 | - | 34.5 | 27 | - | 47.2 | 37 | 29.2 | 20.8 | - | 3.7 | 6.8 | 8.4 | 23.1 | 68.8 | - | 15.8 |
| 39 CMH 10-547 | 12.6 | - | 86.4 | 116.1 | 33.9 | 76.5 | 42.2 | 49.9 | 28.9 | 45.2 | 31.4 | 35 | 15.3 | 14.6 | 52.4 | - | 15.3 |
| 40 CMH 11-582 | 44.1 | - | 42.2 | 63.4 | 31.5 | 94.5 | 3 | 43.4 | 31 | 55.1 | 3.3 | 26.9 | 46.6 | 33.7 | 32.1 | 19.6 | 31.1 |
| 41 CMH 11-603 | 24.8 | - | 95 | 63.8 | - | 30.1 | 8.4 | 33.4 | 13.5 | 12.2 | 9.8 | 11.6 | 20.3 | 42.1 | 83.6 | - | 22.3 |
| 42 CMH 11-617 | 38.6 | - | 61.4 | 86.9 | 4.4 | 75.6 | 54.7 | 51.8 | 15.7 | 42.8 | 21.1 | 26.3 | 21.6 | 5.5 | 82.7 | - | 15.4 |
| 43 IM8478 | 26.2 | - | 107.6 | 57.6 | 49.1 | 97.4 | 48.5 | 58.6 | 44.8 | 102.8 | 23.1 | 53.7 | 62.8 | 70.3 | 74.9 | - | 46.7 |
| 44 IM8479 | 21.3 | - | 87 | 80.6 | 57.9 | 76.5 | 16.2 | 46.8 | 19.5 | 74.6 | - | 24.5 | 65.6 | 20.2 | 93.2 | - | 29.7 |
| 45 IM8581 | 22.8 | - | 80 | 94.4 | 25.3 | 59.2 | 53.9 | 49.5 | 20.8 | 70.9 | 22.8 | 37.1 | 58 | 18.9 | 83.5 | - | 28.3 |
| 46 IM 7519 | 19.9 | - | 113.8 | 4.3 | 18.7 | 44.6 | 0.7 | 33.1 | 24.9 | 64.1 | 18 | 34.1 | 56.5 | 9.7 | 42.5 | - | 17.4 |
| 47 IM 7501 | 51.4 | - | 145.3 | - | 22.4 | 71.6 | - | 50.1 | - | 88.6 | 21 | 35.7 | 62.3 | 29.9 | 30.4 | 0.3 | 26 |
| 48 BH 41015 | 27.5 | - | 88.7 | - | - | 79.9 | 13.3 | 36 | 17.1 | - | 31.9 | 7.8 | 24.6 | 11.3 | 40.8 | - | 7.7 |
| 49 BH 41030 | 19.6 | - | - | 91.4 | 5.1 | 10.7 | 50.3 | 25.5 | 27.7 | - | 19.5 | 14.3 | 26 | 9 | 43.3 | - | 9.2 |
| 50 BH 41145 | 25.1 | - | 7.2 | 15.5 | - | 65.1 | 1.1 | 19 | 7.6 | 11.4 | 11.4 | 10.3 | 18.8 | 0.3 | 19.1 | - | 4 |
| 51 BH 41150 | 8.7 | - | - | 118.5 | 24.1 | - | - | 5.4 | 11.1 | 3.9 | 8.1 | 7.6 | 10 | 3.8 | 29.9 | - | - |
| 52 BH 411736 | 1.2 | - | 24.6 | 88.6 | - | 17 | - | 11.3 | 15.5 | - | 1.9 | 1.9 | 36.6 | 46 | 41.7 | - | 18.4 |
| 53 BH 411737 | - | - | 78.9 | 149.3 | 21.1 | 0.5 | 8.8 | 26.6 | 8.3 | 19.6 | 4.7 | 10.3 | 4.6 | 0.2 | 61.5 | - | 1.9 |
| 54 BH 411520 | - | - | - | 92.3 | - | - | - | - | - | - | 1.9 | - | 13.2 | - | - | - | - |
| 55 VEH 12-1 | 10 | - | 5.4 | 81.5 | - | - | - | 4.6 | 41.1 | - | - | 3.9 | 22.8 | 15.3 | 3.3 | - | - |
| 56 X35D620 | 37 | - | 79.2 | 84.1 | 77.5 | 91.6 | - | 48.2 | 33.4 | 59.4 | 37.7 | 43.2 | 3.4 | 19.4 | 25.3 | - | 7 |
| 57 X35D623 | 42.9 | - | 66.3 | 25.6 | - | 64.3 | 0.2 | 35.9 | 50.9 | 0.2 | 20.7 | 22.7 | 10.3 | 44.4 | 25.5 | - | 20.6 |
| 58 X35D602 | 36.6 | - | 48.6 | 96.8 | 33.3 | 90.7 | 17.4 | 47.2 | 29.3 | 68 | 17.9 | 36.5 | 28.4 | - | 63 | - | 7.1 |
| 59 X35D603 | 45.9 | - | 38.5 | 41.4 | 22.2 | 72.1 | 74.5 | 51.9 | 22.6 | 45 | 30.2 | 32.7 | 23.8 | 24.8 | 26.3 | 8.7 | 19.7 |
| 60 Bio 451 | 20.5 | - | 142.2 | 75 | 41.2 | 65.3 | 66.9 | 61.9 | 18.1 | 21.3 | 9.2 | 15.4 | 8.5 | 37.2 | 68.2 | - | 18.8 |
| 61 GWH-0711 | - | - | 14.8 | 66.2 | - | 11.7 | - | - | - | - | 6.2 | - | 36.5 | - | - | - | - |
| 62 REH-2012-1 | 0.3 | - | 71.3 | 2.6 | - | 49.6 | 19.4 | 20.7 | - | 8.4 | 20.1 | 10 | 63.7 | 14.5 | 53.3 | - | 15.5 |
| 63 REH-2012-2 | 0.1 | - | 90.6 | 18.4 | - | 40 | - | 19.2 | 18 | - | 0.9 | 5 | 25.3 | - | 2.6 | - | - |
| 64 REH-2012-4 | - | - | 78.8 | 9.6 | 3.5 | 20.8 | - | 12.7 | - | - | 23.7 | 2.3 | 3.7 | - | 0.1 | - | - |
| 65 JH 31595 | 14.6 | - | 74.6 | 167.2 | 31.4 | 60.9 | 14.5 | 44.8 | 18.8 | 20.3 | 1.1 | 11.9 | 33.3 | 17.1 | 46.6 | - | 16.2 |
| 66 JH 31537 | 1 | - | 86.8 | 153.4 | 19.9 | 39.8 | 65.1 | 47.3 | 11.6 | 14.1 | 24.5 | 17.8 | 35.3 | 22.3 | 38.6 | - | 15 |
| 67 JH 31604 | 18.2 | - | 99.3 | 146.6 | 31.8 | 41.4 | 4.4 | 43.3 | 32.7 | 44.3 | 14 | 28.5 | 11.9 | 9 | 33.2 | - | 9.7 |
| 68 JH 31600(JH 31627) | 15.6 | - | 33.3 | 110 | 43.4 | 82.4 | 63.6 | 48 | 20.1 | 54.4 | 14.4 | 28.3 | 30.7 | 15.6 | 78.6 | - | 22.2 |

Table No. 2 (Continued)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM12 | | | | | | | | | | | | | | | | |
|-------------------|---|------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | ZN 1 | | | ZN 2 | | | | ZN 3 | | |
| | | | | | | | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | |
| 69 JH 31244 | 9.8 | - | 48.2 | 94.3 | 26.9 | 53.2 | - | 26.3 | 6.2 | - | 21 | 6.4 | 48.8 | 14 | - | - | 5.8 |
| 70 JH 31554 | 18.2 | - | 29.5 | 29.7 | - | 76.2 | 36.5 | 30.4 | 38.9 | 34.3 | 21 | 30 | 47.1 | - | 33 | - | 4.2 |
| 71 AH-1226 | - | - | 16.5 | 103.3 | - | - | - | - | - | - | - | - | 32.6 | - | 9 | - | - |
| 72 AH-1262 | 11 | - | 52.2 | 35.4 | - | 47.7 | 13.4 | 21.3 | 17.8 | - | - | - | 60.7 | 25.5 | 7.2 | - | 11.1 |
| 73 MMH-2-12-13 | 27.1 | - | 22.3 | 223 | - | 59.4 | 35.4 | 45.8 | 1.8 | 10 | 7.5 | 6.7 | 22.7 | 12.1 | 33.9 | - | 7.2 |
| 74 MMH-3-12-13 | 11 | - | 46.6 | 38.5 | - | 18.3 | 9.3 | 17.5 | 25.8 | 14.6 | - | 9.7 | 22.9 | 9.9 | 29.6 | - | 0.6 |
| 75 MMH-4-12-13 | - | - | 12.7 | 83.6 | - | 32 | 9.8 | 8.7 | 33.2 | - | 10.5 | 2.4 | 32.2 | 11 | 20 | - | 0.6 |
| 76 MMH-5-12-13 | - | - | - | 106.4 | - | 14.8 | - | - | 1.8 | - | - | - | 20.5 | 20.1 | - | - | - |
| 77 HKH 338 | 23.2 | - | 6.3 | 76.3 | 28.5 | 57.5 | 4.6 | 26.6 | 6.4 | 9.7 | - | 3.2 | 11.7 | - | 33.9 | - | - |
| 78 HKH 339 | 15 | - | 64.1 | 70.9 | 21.2 | 47.3 | 20.2 | 33.7 | 3.5 | 13.8 | 2.1 | 6.1 | 3.4 | - | 36.8 | - | - |
| 79 HKH 340 | - | - | - | 32.6 | - | 30.8 | 9.4 | 6.8 | - | - | 4 | - | 24.6 | 0.2 | - | - | - |
| 80 KNMH-4302 | 16 | - | 74.3 | 86.5 | - | - | - | 20.5 | 9.8 | - | 10.5 | 3.8 | 27.6 | 16.9 | - | - | 1.2 |
| 81 KNMH-4303 | - | - | 29.6 | 104.4 | - | 41.6 | - | 13.3 | 10.5 | - | 10.2 | - | 12.1 | 19.2 | 13.3 | - | - |
| 82 KNMH-4304 | 25.2 | - | 90.2 | 28.4 | - | - | - | 20.3 | 14.7 | - | 18 | 5 | - | 11.9 | 46.6 | - | 3.7 |
| 83 KNMH-4305 | 7.4 | - | 108.2 | 87.5 | - | 37.5 | - | 26.9 | 10.5 | - | - | 0.4 | 13.8 | 23.2 | - | - | - |
| 84 KNMH-4010131 | 17.2 | - | 97.2 | 97.4 | 3.3 | 58 | 18.9 | 41.6 | 15.1 | 28.7 | 12.5 | 18.2 | 51.3 | 43.6 | 19.2 | - | 21.5 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 85 PMH4 | 19.1 | - | 61.1 | 244.7 | 21.5 | 41.8 | - | 43 | 10 | - | 2.9 | 2.3 | 28 | 13.1 | 68.1 | - | 17.8 |
| 86 BIO9637 | 15.4 | - | 65 | 19 | - | 64.7 | - | 23.9 | 19.3 | 25.9 | 13.8 | 19 | 38.3 | 5.7 | 8.2 | - | 5 |
| 87 HM12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

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Table No. 2 (Continued)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L MEAN | | |
|---------------------------|-------|------|------|------|------|------|------|------|------|------|-------|-------|--------------|-------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | | UDAI | MEAN |
| 1 QMH-29134 | 47.7 | - | - | - | - | - | 2.8 | - | - | - | 61.7 | 89.5 | 12.8 | 51.5 | - |
| 2 QMH-2916 | 2.6 | - | - | - | - | - | 8.2 | - | 63.4 | - | 59.8 | 30.6 | - | 19.3 | - |
| 3 EHL-3412 | 104.3 | 16.4 | 2 | - | 4.4 | - | 14.5 | 36.6 | 48.1 | 12.2 | 105.6 | 69.7 | 118.6 | 101.3 | 19.2 |
| 4 EHL-1111 | 56.6 | - | - | - | 8.7 | - | 21.8 | 3 | 33.9 | - | 73.6 | 64.2 | 62.2 | 67.3 | 11.8 |
| 5 EHL-3512 | 95.5 | 24.8 | - | - | - | - | 0.7 | 15 | 12.1 | 5.6 | 38.9 | 22.9 | 152.1 | 74.5 | 13.4 |
| 6 S-6750 | 218.9 | 68.2 | 41.1 | 21.6 | 10.4 | 25.5 | 52.8 | 7.2 | 43.5 | 41.5 | 95.8 | 116.9 | 112 | 106.7 | 48.4 |
| 7 RMH-932 | 108.6 | 26.1 | 31.2 | - | 14.2 | 6.8 | 40.6 | 2.9 | 55.5 | 21 | 54.2 | 65.2 | 143.9 | 88.2 | 25.6 |
| 8 RMH-3591 | 145.5 | 57.6 | 9.8 | 4.4 | 5.7 | 20.6 | 63.8 | 20.4 | 18.9 | 31.1 | 76.5 | 91 | 54.9 | 72.5 | 36.9 |
| 9 PHM-34(W) | 69.7 | - | 12 | - | - | 4.2 | 27.5 | - | - | - | 69.5 | 43.1 | 65.4 | 61.5 | 6.4 |
| 10 PHM-12(Y) | 18.7 | 46 | 8.6 | - | 1.3 | - | 29.9 | 6.9 | - | 8.2 | 90.3 | 73.7 | 93.1 | 87.2 | 20.8 |
| 11 LG-3271 | 82.4 | 51.5 | 3.7 | - | - | 7.3 | 44.1 | 11.3 | - | 14.2 | 109.8 | 7.2 | 70 | 70.6 | 23.4 |
| 12 LG-3282 | 167.2 | 21.9 | 59.9 | - | 13.8 | 32.9 | 47 | 18.8 | 15.5 | 31.3 | 80.5 | 84.7 | 173.7 | 114.1 | 41.3 |
| 13 FCH-85 | 58.6 | 11.3 | 42.4 | - | - | 32.5 | 51.6 | 10.9 | 32.5 | 15.3 | 108.4 | 10.5 | 73.7 | 72.2 | 19.5 |
| 14 FCH-184 | 18.1 | 60.1 | 30.4 | - | 11.8 | 12.5 | 41.2 | - | 4.2 | 13.3 | 18.1 | 5.9 | 40.4 | 22.9 | 17.8 |
| 15 FCH-11231 | 183.4 | 44.5 | 59.9 | - | 8.8 | 24.2 | 37.9 | 20.8 | 46.4 | 33.3 | 79.2 | 93.9 | 70.3 | 79.7 | 39 |
| 16 KMH-6 | 38.2 | - | 10.4 | - | - | - | 14.2 | 11.3 | 38.3 | - | 55.6 | - | 13.3 | 23 | 7.5 |
| 17 KMH-84 | 70.3 | 0.4 | - | - | - | - | 11 | 6.8 | 25.9 | - | 7 | 21.7 | 43.5 | 23.3 | 1.7 |
| 18 KMH-6681 | 165.7 | 48.6 | 4 | - | 21.4 | 16.5 | 42.2 | 26.3 | 31.2 | 26.5 | 105.6 | 21.4 | 109.3 | 86.1 | 33.7 |
| 19 KMH-5951 | 38.7 | 10.5 | - | - | - | 12.8 | 44.4 | 0.6 | 0.2 | 6.3 | 113.9 | 84.2 | 128.1 | 111.6 | 26.3 |
| 20 JKMH-4545 | 114.9 | 17.1 | 77.7 | - | 17.3 | 28.3 | 71.7 | 44.2 | 25.3 | 36 | 154.2 | 85.4 | 154.4 | 137.3 | 45.4 |
| 21 SAFAL X-2 | 181.9 | 4.4 | 54.1 | - | 8.8 | 24 | 43.8 | 22.9 | 49.2 | 25.8 | 120.8 | 147.6 | 143.1 | 135.2 | 35.1 |
| 22 Kuber Shakthi | 147.9 | 0.7 | 85.6 | 7.1 | 12.2 | 36.6 | 56.6 | 2.1 | 29.2 | 32.4 | 93.1 | 127.2 | 137.6 | 117 | 39.1 |
| 23 DAS-MH-304 | 81.4 | 32.9 | - | - | 13.5 | 27.1 | 49.9 | 6.7 | 14.2 | 16 | 81.9 | 40.7 | 80.8 | 71.4 | 27.4 |
| 24 DAS-MH-305 | 170.9 | 23.6 | 37.6 | - | 3.9 | 22.7 | 34 | 11.6 | 45.3 | 24.8 | 169.4 | 109.1 | 56.4 | 115.1 | 38.9 |
| 25 KH-517 Gold | 74.8 | - | 57.3 | - | - | 0.6 | 33.5 | 7 | 17.7 | 7.5 | 76.4 | 30.2 | 81.8 | 66.9 | 10.5 |
| 26 KH-2248 | 51.9 | 37.6 | 12.8 | - | - | 12.1 | 17.5 | 14.4 | 26.3 | 12.3 | 73.7 | 39.8 | 93.7 | 72.3 | 19.6 |
| 27 TH-38 | 30.6 | 9.3 | 18.6 | - | - | 10.7 | 44.7 | 22.9 | 6.6 | 13.1 | 47.2 | 46.8 | 119.7 | 72.4 | 28.1 |
| 28 MAHABEEJ-1202(Nirdhar) | 131.4 | 16.4 | 31.8 | - | - | 18.8 | 30 | 5.3 | 4.9 | 15 | 48.6 | 48 | 144 | 81.7 | 22.4 |
| 29 KDMH-2705 | 187.7 | 28.2 | 38.8 | - | 24.9 | 6 | 58.3 | - | 31.2 | 25.7 | 123.6 | 128.8 | 186 | 146.7 | 44 |
| 30 EH-2205 | 76.7 | 7.4 | 18.6 | - | - | 1.8 | 31.3 | - | 41.5 | 5.5 | 23.6 | 53.4 | 211.4 | 96.5 | 17.9 |
| 31 EH-2208 | 101.7 | 13.6 | 27.4 | - | - | 8.1 | 16.5 | 7.9 | 38.4 | 8.4 | 29.2 | 11.1 | 216.4 | 90.1 | 18.4 |
| 32 EH-2240 | 127.7 | 10.8 | 21.5 | - | 13.9 | 15.7 | 34.8 | 3.4 | 64.5 | 18.2 | 57 | 39.9 | 222.8 | 110.6 | 25.2 |
| 33 VaMH-08015 | 58.8 | - | - | - | - | - | 22.9 | - | 26.9 | - | 12.5 | 18.4 | 37.5 | 22.7 | - |
| 34 PMH-209 | 83.9 | 23 | 36.3 | - | - | 14.5 | 39.7 | 5.9 | - | 10.7 | 107 | 33.6 | 92.9 | 84 | 22.1 |

Table No. 2 (Continued)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | | | | ZN 5 | OV'L |
|-----------------------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | UDAI | MEAN | MEAN |
| 35 PRMH-2177 | 81.9 | 9.3 | 28.3 | - | - | 33.5 | 36.7 | 16.7 | 30.3 | 17.5 | 112.6 | 49.5 | 129.7 | 103 | 23.5 |
| 36 NMH-1289 | 91.3 | 50.2 | 49 | - | 14.3 | 16.4 | 60 | - | 27.2 | 24.6 | 77.8 | 45.7 | 124.6 | 86.2 | 28.6 |
| 37 HTMH-5402 | 112.6 | 42.1 | 81.4 | 10.3 | 6.9 | 34.4 | 64.1 | 0.9 | 72.7 | 37.3 | 89 | 134.5 | 154.6 | 123.1 | 35.8 |
| 38 CMH 10-488 | 153.4 | 32.4 | 52.3 | - | 12.3 | 25.4 | 29.3 | 7.2 | 42.9 | 27.6 | 62.5 | 81 | 119.7 | 87 | 26.7 |
| 39 CMH 10-547 | 164.7 | 42.4 | 70 | - | 13.4 | 6.8 | 39.9 | - | 41.9 | 28 | 104.2 | 83.6 | 117.1 | 103.6 | 36.4 |
| 40 CMH 11-582 | 212.2 | 59.2 | 51 | 17.3 | 9.6 | 30.3 | 35.8 | 2.6 | 59.7 | 39 | 86.1 | 105.8 | 54.3 | 79.9 | 39.4 |
| 41 CMH 11-603 | 107.1 | 33.1 | 73.9 | 4.7 | 5.1 | 26.1 | 39 | 3.4 | 87.5 | 30.8 | 68.1 | 90.4 | 99.7 | 84.6 | 30.5 |
| 42 CMH 11-617 | 209.1 | 32.9 | 70.8 | - | 9.6 | 31 | 46.2 | 3.3 | 45.4 | 34 | 79.1 | 96.1 | 140.5 | 104.7 | 37.9 |
| 43 IM8478 | 182.2 | 48.7 | 65 | - | 7.8 | 21.4 | 59.5 | 32.4 | 58.8 | 38.3 | 198.7 | 90.3 | 134.7 | 149.6 | 53.6 |
| 44 IM8479 | 178.3 | 31.8 | 53.6 | 8.3 | 7.7 | 29.9 | 54.1 | 2 | 82.2 | 35.3 | 166.7 | 102.5 | 116.4 | 133.3 | 41.5 |
| 45 IM8581 | 165.1 | 33 | 63.7 | - | 5.2 | 20.1 | 50.1 | - | - | 25.3 | 163.9 | 127.9 | 102.1 | 133.5 | 39.7 |
| 46 IM 7519 | 55.8 | 25.2 | 76.4 | - | 2.8 | 31.9 | 48.5 | - | - | 20.2 | 95.9 | 137.1 | 179.2 | 135.1 | 32.2 |
| 47 IM 7501 | 66.2 | 28 | 42.6 | 1.3 | 10.2 | 30.8 | 48.1 | 13.4 | 49.8 | 26.6 | 136.2 | 82.2 | 116 | 115.8 | 38.5 |
| 48 BH 41015 | 77.5 | - | 42.9 | - | 13.7 | 13.1 | 42 | 6.9 | 53.9 | 16.8 | 63.9 | 25.1 | 97.9 | 66.2 | 20.9 |
| 49 BH 41030 | 119.4 | 12.1 | 58.7 | - | 20.9 | 14.2 | 32.5 | 18.2 | 42.4 | 23.1 | 56.9 | 54.9 | 136.6 | 84.2 | 24 |
| 50 BH 41145 | 57 | - | 28.4 | - | 19.4 | 9.3 | 24.9 | - | 43 | 8.8 | 54.2 | 72 | 151.2 | 92.5 | 15.9 |
| 51 BH 41150 | 72 | 6.2 | 53.4 | - | - | 3.1 | 13.7 | 26.6 | 13.4 | 13.4 | 52.8 | 108.8 | 144 | 98.4 | 13.8 |
| 52 BH 411736 | 71.3 | - | 23.4 | - | - | - | 16.3 | 16.2 | 24.2 | 1.8 | 48.6 | 48.4 | 5.9 | 33.6 | 8.6 |
| 53 BH 411737 | 103.8 | - | 15.5 | - | - | 11.6 | 14.5 | 15.8 | 29.4 | 8.9 | 51.5 | 18 | 100.8 | 60.5 | 14.9 |
| 54 BH 411520 | - | - | 34.4 | - | - | - | - | - | - | - | 8.3 | - | 44.8 | 15.6 | - |
| 55 VEH 12-1 | 28.7 | 1.6 | 37.8 | - | - | 9.8 | 21.3 | 13.1 | 1.2 | 7.7 | - | - | - | - | 2.8 |
| 56 X35D620 | 91.1 | 22.9 | 22.7 | - | 9.9 | 32.8 | 51.9 | 18.9 | 24.8 | 23.4 | 111.1 | 39.1 | 124 | 97.9 | 33.7 |
| 57 X35D623 | 141.2 | 45 | 20.2 | 4.4 | 13.9 | 28.9 | 46.7 | 19.6 | 7.9 | 30 | 51.4 | 116.8 | 100.8 | 84.8 | 32.1 |
| 58 X35D602 | 186.1 | 26.5 | 60.2 | 21.8 | 13.5 | 26.1 | 31.7 | 42.6 | - | 37.2 | 94.5 | 103 | 95.5 | 96.9 | 38.1 |
| 59 X35D603 | 170 | 24.8 | 39.4 | 12.6 | 11.1 | 27 | 55.9 | 27.4 | 13.7 | 34 | 127.9 | 68.3 | 149.4 | 120.7 | 40.7 |
| 60 Bio 451 | 136.7 | 38.7 | 39.6 | - | 0.6 | 23.6 | 37.1 | 13.6 | 47.9 | 22.9 | 122.2 | 49.6 | 144.5 | 112.1 | 34.6 |
| 61 GWH-0711 | 18.3 | - | 13 | - | - | - | - | 10.3 | - | - | 32 | - | 58.5 | 29.1 | - |
| 62 REH-2012-1 | 27.1 | 6.4 | - | - | - | 8.1 | 16.5 | - | - | - | 25 | 16.5 | 117.4 | 55.2 | 10.7 |
| 63 REH-2012-2 | 45.7 | 2 | 24.6 | - | 1.4 | - | 17.8 | - | 23.1 | - | 61.2 | 26.8 | 91.8 | 63.4 | 7.9 |
| 64 REH-2012-4 | 44.3 | - | 20.1 | - | - | - | 21.5 | - | 8 | - | 16.7 | 24.8 | 44.2 | 28.3 | 0.4 |
| 65 JH 31595 | 126.7 | 7 | 30.9 | - | 3.7 | 14.8 | 19.3 | - | - | 11.3 | 79.2 | 84 | 47.1 | 69.2 | 22.6 |
| 66 JH 31537 | 101.6 | 18.3 | 26.8 | - | - | 5.1 | 21.8 | 5.9 | 29.2 | 12.3 | 38.9 | 21 | 199.5 | 90.6 | 25.7 |
| 67 JH 31604 | 124.1 | 14.1 | - | - | 16.7 | 24.9 | 27.9 | 6.4 | 36.2 | 17.5 | 51.5 | 73.3 | 106.1 | 75.9 | 26.9 |
| 68 JH 31600(JH 31627) | 101.8 | 18.1 | 49.1 | - | 0.8 | 18 | 26 | 28.8 | 20.4 | 21.4 | 72.2 | 37 | 138.1 | 86.5 | 32.2 |

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Table No. 2 (Continued)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | | | | ZN 5 | | OV'L |
|-------------------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | CHHI | UDAI | MEAN | MEAN | |
| 69 JH 31244 | 108.6 | - | 45.5 | 14.5 | - | 1 | 21.5 | 15.9 | 59.9 | 17.3 | 57 | 23.9 | 117.2 | 69.8 | 19 | |
| 70 JH 31554 | 82.4 | - | 0.8 | - | - | 2.2 | 28.9 | 12.6 | - | 8.1 | 82 | 61.5 | 96.5 | 82 | 20.2 | |
| 71 AH-1226 | 3.4 | - | 4.4 | - | - | - | - | 20.2 | - | - | 11.1 | 8.3 | 36.1 | 19.1 | - | |
| 72 AH-1262 | 22.3 | - | 10.6 | - | - | 5.6 | - | - | 5.3 | - | 23.6 | 32.9 | 146.4 | 68.8 | 7.9 | |
| 73 MMH-2-12-13 | 132.5 | 3.7 | - | - | - | 6.2 | 19.7 | 1.1 | 11.3 | 8.3 | 55.6 | 102.9 | 33.3 | 59.5 | 18.6 | |
| 74 MMH-3-12-13 | 105.8 | 4.6 | 0.4 | 5.4 | 6 | 8.8 | 20.1 | - | 43.2 | 11.4 | 101.5 | 78.7 | 89.3 | 91.6 | 16 | |
| 75 MMH-4-12-13 | 54.2 | - | 20.7 | - | - | 0.3 | 1.5 | - | 27.6 | - | 25 | 61 | 84.9 | 54.8 | 3.8 | |
| 76 MMH-5-12-13 | 42.9 | - | 2.2 | - | - | - | - | 3.7 | - | - | 93 | 90.7 | 33.8 | 71.8 | - | |
| 77 HKH 338 | 109.4 | - | 23 | - | - | 6.8 | 7.2 | 6.6 | 1.8 | 8 | 70.9 | 82.1 | 45.2 | 64.7 | 11.7 | |
| 78 HKH 339 | 90.6 | - | - | - | - | 2.8 | 16.7 | - | - | 1.1 | 36.1 | 58.6 | 59.7 | 49.9 | 9.8 | |
| 79 HKH 340 | 60.5 | - | 14 | - | - | 13.8 | 5.3 | 5.1 | - | - | 62.5 | 32.2 | 54.2 | 52.1 | 3.2 | |
| 80 KNMH-4302 | 64.8 | - | - | - | 2.7 | 4.9 | - | 2.2 | - | - | 45.9 | 6.3 | 76.5 | 46.8 | 6.7 | |
| 81 KNMH-4303 | 122 | 6.8 | 26.5 | - | - | - | - | - | 17.9 | 4.6 | 69.5 | 52.2 | 147.4 | 92.4 | 10 | |
| 82 KNMH-4304 | 74.1 | 4.4 | 32 | 1.2 | 2 | 12.6 | 5.8 | 12.2 | 21.3 | 13 | 62.5 | 106.7 | 74.6 | 77.6 | 16 | |
| 83 KNMH-4305 | 96.9 | - | 11.9 | - | 5.1 | 25.9 | 10.7 | 1.1 | 60.4 | 11.6 | 72.3 | 84.4 | 79.8 | 77.9 | 14.8 | |
| 84 KNMH-4010131 | 177.3 | 5.1 | 54.2 | - | 5.7 | 25.5 | 33.4 | 18.4 | 66.4 | 28.2 | 94.5 | 134.4 | 161.6 | 127.8 | 34.8 | |
| CHECKS | | | | | | | | | | | | | | | | |
| 85 PMH4 | 79.7 | 7.6 | 26.2 | - | 8.8 | 34.9 | 19.4 | 6.9 | 70.1 | 18.5 | 83.4 | 38.2 | 99.6 | 77.9 | 24.6 | |
| 86 BIO9637 | 71.2 | - | 0.8 | - | 8.9 | 10.6 | 26 | 4.6 | 23.8 | 8.8 | 59.7 | 46.4 | 48.2 | 52.4 | 15.7 | |
| 87 HM12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 39.3 %

Table No. 2 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | | | |
|-------|------------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 84.3 | 66.5 | 75.3 | 81.0 | 76.1 | 82.7 | 77.4 | 77.6 | 64.2 | 79.6 | 82.3 | 75.3 | 74.5 | 81.7 | 86.7 | 70.8 | 78.4 |
| 2 | QMH-2916 | 81.7 | 69.5 | 73.5 | 87.5 | 72.1 | 81.4 | 77.8 | 77.6 | 63.9 | 84.9 | 80.5 | 76.4 | 78.9 | 80.9 | 87.8 | 70.0 | 79.4 |
| 3 | EHL-3412 | 83.0 | 68.5 | 79.0 | 82.4 | 72.7 | 81.4 | 78.6 | 77.9 | 67.6 | 83.8 | 87.1 | 79.5 | 75.9 | 79.2 | 83.2 | 68.3 | 76.6 |
| 4 | EHL-1111 | 85.2 | 65.5 | 78.9 | 86.3 | 73.9 | 84.9 | 74.5 | 78.4 | 67.9 | 81.0 | 84.5 | 77.8 | 74.2 | 82.6 | 83.3 | 70.5 | 77.6 |
| 5 | EHL-3512 | 83.6 | 62.5 | 78.6 | 82.8 | 71.9 | 87.6 | 76.8 | 77.7 | 68.0 | 82.9 | 85.0 | 78.6 | 79.8 | 77.7 | 87.2 | 69.0 | 78.4 |
| 6 | S-6750 | 82.5 | 66.0 | 73.0 | 83.0 | 74.6 | 85.8 | 78.1 | 77.6 | 67.7 | 84.0 | 82.1 | 77.9 | 82.0 | 79.8 | 83.9 | 74.3 | 80.0 |
| 7 | RMH-932 | 85.6 | 70.5 | 79.0 | 83.2 | 74.8 | 84.3 | 78.3 | 79.4 | 66.9 | 89.3 | 82.6 | 79.6 | 80.3 | 84.4 | 83.3 | 72.3 | 80.1 |
| 8 | RMH-3591 | 85.4 | 71.5 | 75.6 | 86.1 | 73.3 | 85.4 | 79.3 | 79.5 | 68.1 | 84.9 | 82.9 | 78.6 | 79.3 | 79.2 | 69.8 | 72.0 | 75.1 |
| 9 | PHM-34(W) | 88.5 | 68.5 | 75.3 | 84.5 | 73.6 | 82.6 | 79.2 | 78.9 | 65.3 | 84.9 | 81.4 | 77.2 | 81.7 | 82.9 | 87.5 | 73.5 | 81.4 |
| 10 | PHM-12(Y) | 84.5 | 64.5 | 75.8 | 86.4 | 72.0 | 83.3 | 81.9 | 78.3 | 67.2 | 89.1 | 85.6 | 80.6 | 80.4 | 79.1 | 85.6 | 72.5 | 79.4 |
| 11 | LG-3271 | 87.8 | 68.0 | 79.8 | 85.2 | 76.4 | 81.9 | 84.0 | 80.4 | 68.3 | 86.1 | 85.1 | 79.8 | 77.6 | 85.0 | 81.1 | 73.5 | 79.3 |
| 12 | LG-3282 | 81.7 | 70.0 | 76.5 | 84.7 | 71.3 | 84.8 | 76.6 | 77.9 | 67.8 | 84.3 | 82.3 | 78.1 | 75.1 | 78.9 | 82.0 | 73.3 | 77.3 |
| 13 | FCH-85 | 84.3 | 66.5 | 76.7 | 88.5 | 71.7 | 81.3 | 83.0 | 78.8 | 66.0 | 79.8 | 82.6 | 76.1 | 77.4 | 81.7 | 85.2 | 76.0 | 80.0 |
| 14 | FCH-184 | 85.8 | 64.5 | 78.3 | 86.6 | 70.5 | 81.3 | 79.1 | 78.0 | 65.3 | 86.6 | 84.4 | 78.8 | 81.5 | 81.7 | 82.7 | 80.0 | 81.5 |
| 15 | FCH-11231 | 85.0 | 63.0 | 79.8 | 84.0 | 73.9 | 84.5 | 80.4 | 78.7 | 66.8 | 80.5 | 85.4 | 77.5 | 79.1 | 84.8 | 87.9 | 74.0 | 81.5 |
| 16 | KMH-6 | 83.1 | 67.5 | 80.0 | 86.2 | 71.6 | 84.0 | 78.5 | 78.7 | 67.9 | 87.4 | 83.2 | 79.5 | 79.6 | 84.0 | 85.6 | 70.8 | 80.0 |
| 17 | KMH-84 | 85.6 | 71.5 | 84.8 | 82.8 | 73.4 | 85.6 | 76.4 | 80.0 | 66.6 | 82.4 | 81.7 | 76.9 | 76.5 | 75.7 | 81.1 | 72.3 | 76.4 |
| 18 | KMH-6681 | 86.0 | 68.5 | 79.7 | 82.0 | 74.3 | 85.4 | 78.1 | 79.1 | 67.9 | 84.9 | 86.4 | 79.7 | 79.9 | 86.1 | 85.6 | 77.0 | 82.1 |
| 19 | KMH-5951 | 87.6 | 66.0 | 83.6 | 82.4 | 75.9 | 86.7 | 76.5 | 79.8 | 67.4 | 84.9 | 80.6 | 77.6 | 81.5 | 80.5 | 82.7 | 73.8 | 79.6 |
| 20 | JKMH-4545 | 85.1 | 66.5 | 80.8 | 85.7 | 72.9 | 84.5 | 76.4 | 78.8 | 68.4 | 86.9 | 85.9 | 80.4 | 80.5 | 85.4 | 85.6 | 76.5 | 82.0 |
| 21 | SAFAL X-2 | 84.4 | 69.5 | 88.4 | 81.7 | 72.6 | 84.7 | 77.8 | 79.9 | 67.0 | 85.5 | 83.2 | 78.6 | 76.1 | 79.2 | 82.1 | 73.0 | 77.6 |
| 22 | Kuber Shakthi | 83.0 | 68.5 | 75.2 | 81.6 | 71.4 | 83.7 | 79.5 | 77.5 | 68.2 | 88.3 | 86.6 | 81.0 | 71.4 | 77.0 | 86.4 | 75.8 | 77.6 |
| 23 | DAS-MH-304 | 83.5 | 65.5 | 76.3 | 86.4 | 72.9 | 82.5 | 76.7 | 77.7 | 67.1 | 85.2 | 82.3 | 78.2 | 78.3 | 82.1 | 84.5 | 71.3 | 79.0 |
| 24 | DAS-MH-305 | 83.9 | 62.5 | 83.8 | 78.0 | 71.8 | 85.9 | 78.9 | 77.8 | 67.3 | 82.4 | 82.1 | 77.3 | 80.1 | 77.6 | 83.0 | 73.5 | 78.5 |
| 25 | KH-517 Gold | 85.1 | 66.0 | 75.2 | 86.8 | 77.1 | 81.9 | 78.6 | 78.7 | 68.1 | 84.9 | 81.4 | 78.1 | 76.5 | 77.5 | 79.6 | 70.0 | 75.9 |
| 26 | KH-2248 | 87.9 | 69.0 | 72.4 | 83.0 | 73.1 | 80.8 | 74.9 | 77.3 | 68.0 | 83.3 | 85.5 | 78.9 | 81.1 | 87.1 | 85.4 | 75.3 | 82.2 |
| 27 | TH-38 | 84.4 | 70.0 | 76.4 | 78.0 | 71.4 | 83.3 | 77.0 | 77.2 | 68.1 | 82.2 | 88.1 | 79.5 | 76.4 | 80.0 | 85.5 | 67.3 | 77.3 |
| 28 | MAHABEEJ-1202(Nirdhar) | 80.8 | 68.5 | 78.0 | 83.5 | 72.3 | 79.3 | 73.5 | 76.5 | 66.4 | 82.2 | 83.0 | 77.2 | 78.3 | 83.3 | 84.0 | 72.3 | 79.5 |
| 29 | KDMH-2705 | 84.4 | 64.5 | 79.3 | 85.0 | 77.6 | 84.1 | 81.4 | 79.5 | 68.1 | 88.5 | 83.3 | 80.0 | 76.6 | 74.8 | 83.5 | 73.8 | 77.2 |
| 30 | EH-2205 | 83.1 | 68.0 | 77.6 | 84.5 | 72.0 | 81.3 | 74.5 | 77.3 | 65.1 | 81.3 | 77.8 | 74.7 | 75.9 | 79.8 | 83.4 | 71.5 | 77.6 |
| 31 | EH-2208 | 82.1 | 70.0 | 76.8 | 84.3 | 70.7 | 82.2 | 75.0 | 77.3 | 66.8 | 81.1 | 81.2 | 76.4 | 74.0 | 86.5 | 81.9 | 65.8 | 77.0 |
| 32 | EH-2240 | 83.3 | 66.5 | 75.6 | 86.3 | 71.7 | 83.0 | 72.9 | 77.0 | 64.9 | 87.7 | 87.9 | 80.1 | 77.2 | 87.8 | 82.3 | 74.5 | 80.4 |
| 33 | VaMH-08015 | 83.9 | 64.5 | 80.6 | 84.8 | 72.1 | 75.5 | 73.7 | 76.4 | 67.0 | 74.9 | 81.2 | 74.4 | 80.0 | 82.3 | 84.1 | 74.5 | 80.2 |
| 34 | PMH-209 | 85.9 | 70.5 | 79.8 | 86.8 | 76.2 | 85.2 | 81.8 | 80.9 | 67.2 | 84.5 | 87.1 | 79.6 | 81.0 | 83.8 | 83.3 | 70.8 | 79.7 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | | | |
|-------|--------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 35 | PRMH-2177 | 84.1 | 66.5 | 75.3 | 80.4 | 73.2 | 80.9 | 77.6 | 76.8 | 66.1 | 84.5 | 81.7 | 77.4 | 80.3 | 83.8 | 85.4 | 79.5 | 82.2 |
| 36 | NMH-1289 | 87.6 | 70.5 | 85.2 | 82.0 | 72.6 | 84.6 | 86.0 | 81.2 | 68.0 | 84.9 | 87.8 | 80.2 | 80.7 | 81.7 | 83.0 | 77.5 | 80.7 |
| 37 | HTMH-5402 | 85.6 | 68.5 | 82.8 | 85.3 | 74.3 | 80.0 | 80.1 | 79.5 | 64.9 | 84.2 | 87.3 | 78.8 | 78.0 | 77.5 | 83.1 | 80.0 | 79.6 |
| 38 | CMH 10-488 | 82.5 | 66.0 | 78.8 | 82.1 | 76.1 | 85.9 | 74.0 | 77.9 | 68.0 | 80.0 | 82.3 | 76.8 | 79.5 | 83.8 | 83.4 | 74.0 | 80.2 |
| 39 | CMH 10-547 | 85.1 | 66.5 | 78.1 | 88.2 | 72.3 | 85.3 | 87.9 | 80.5 | 65.0 | 85.6 | 84.9 | 78.5 | 79.6 | 78.4 | 84.1 | 77.8 | 79.9 |
| 40 | CMH 11-582 | 83.7 | 70.5 | 78.9 | 79.7 | 71.1 | 82.9 | 75.5 | 77.5 | 67.7 | 85.8 | 81.9 | 78.4 | 78.3 | 78.5 | 84.4 | 73.8 | 78.7 |
| 41 | CMH 11-603 | 84.6 | 68.5 | 78.7 | 80.0 | 73.1 | 77.7 | 76.2 | 77.0 | 65.0 | 79.8 | 85.1 | 76.6 | 77.9 | 78.4 | 83.2 | 69.0 | 77.1 |
| 42 | CMH 11-617 | 83.5 | 65.5 | 77.3 | 82.0 | 71.6 | 86.1 | 72.0 | 76.9 | 67.2 | 83.4 | 81.8 | 77.5 | 82.7 | 78.9 | 82.9 | 68.5 | 78.2 |
| 43 | IM8478 | 83.8 | 71.5 | 74.0 | 80.2 | 72.3 | 86.3 | 76.5 | 77.8 | 67.9 | 89.0 | 82.9 | 79.9 | 79.9 | 85.0 | 80.9 | 76.3 | 80.5 |
| 44 | IM8479 | 81.2 | 66.0 | 73.6 | 82.6 | 74.4 | 84.0 | 76.5 | 76.9 | 67.6 | 85.8 | 85.2 | 79.5 | 79.1 | 76.0 | 86.9 | 81.3 | 80.8 |
| 45 | IM8581 | 84.4 | 69.0 | 77.1 | 87.5 | 71.7 | 82.5 | 75.4 | 78.2 | 67.9 | 86.4 | 85.1 | 79.8 | 78.8 | 81.3 | 82.6 | 77.5 | 80.0 |
| 46 | IM 7519 | 84.8 | 70.0 | 81.3 | 84.3 | 72.5 | 82.6 | 76.1 | 78.8 | 66.0 | 86.0 | 85.7 | 79.2 | 77.4 | 74.8 | 77.9 | 76.0 | 76.5 |
| 47 | IM 7501 | 83.3 | 68.5 | 80.9 | 86.3 | 72.6 | 87.6 | 75.3 | 79.2 | 66.0 | 86.6 | 85.8 | 79.5 | 77.6 | 85.6 | 85.3 | 75.5 | 81.0 |
| 48 | BH 41015 | 87.9 | 64.5 | 79.4 | 81.5 | 72.2 | 88.7 | 80.3 | 79.2 | 66.0 | 80.0 | 86.7 | 77.6 | 74.3 | 77.4 | 81.1 | 75.3 | 77.0 |
| 49 | BH 41030 | 83.2 | 68.0 | 72.6 | 85.7 | 72.1 | 79.2 | 80.6 | 77.4 | 66.9 | 82.9 | 85.1 | 78.3 | 75.3 | 87.3 | 84.5 | 68.3 | 78.8 |
| 50 | BH 41145 | 83.2 | 70.0 | 77.9 | 84.2 | 70.3 | 87.0 | 74.5 | 78.2 | 67.5 | 82.1 | 85.7 | 78.4 | 74.3 | 81.3 | 84.7 | 67.3 | 76.9 |
| 51 | BH 41150 | 82.5 | 66.5 | 76.1 | 86.5 | 71.5 | 72.7 | 74.3 | 75.7 | 64.4 | 84.5 | 80.4 | 76.4 | 76.9 | 83.3 | 83.8 | 68.3 | 78.1 |
| 52 | BH 411736 | 84.7 | 64.5 | 76.3 | 83.5 | 71.9 | 84.5 | 83.0 | 78.3 | 66.2 | 84.2 | 83.4 | 77.9 | 80.4 | 85.0 | 84.2 | 75.3 | 81.2 |
| 53 | BH 411737 | 79.2 | 63.0 | 74.9 | 83.8 | 71.7 | 74.4 | 72.5 | 74.2 | 67.8 | 78.7 | 83.3 | 76.6 | 80.4 | 80.1 | 79.0 | 77.8 | 79.3 |
| 54 | BH 411520 | 80.9 | 67.5 | 77.3 | 89.9 | 71.5 | 74.2 | 76.8 | 76.9 | 62.6 | 78.2 | 84.5 | 75.1 | 81.4 | 75.0 | 86.0 | 76.3 | 79.7 |
| 55 | VEH 12-1 | 86.5 | 71.5 | 78.3 | 84.6 | 72.9 | 74.2 | 73.2 | 77.3 | 67.1 | 85.3 | 86.2 | 79.5 | 80.8 | 87.1 | 85.5 | 77.3 | 82.6 |
| 56 | X35D620 | 85.5 | 68.5 | 81.3 | 88.2 | 75.3 | 85.7 | 74.9 | 79.9 | 66.5 | 85.7 | 86.2 | 79.5 | 79.5 | 81.8 | 86.8 | 75.5 | 80.9 |
| 57 | X35D623 | 87.3 | 66.0 | 80.3 | 85.7 | 70.6 | 86.6 | 76.8 | 79.0 | 67.9 | 86.8 | 86.3 | 80.3 | 76.4 | 85.6 | 88.3 | 74.0 | 81.1 |
| 58 | X35D602 | 82.7 | 66.5 | 75.2 | 85.8 | 71.8 | 85.3 | 76.5 | 77.7 | 67.9 | 86.1 | 87.1 | 80.3 | 80.8 | 73.3 | 84.5 | 81.3 | 80.0 |
| 59 | X35D603 | 88.3 | 69.5 | 79.1 | 81.6 | 74.0 | 85.2 | 80.4 | 79.7 | 65.9 | 84.5 | 85.9 | 78.7 | 78.8 | 85.4 | 86.4 | 81.8 | 83.1 |
| 60 | Bio 451 | 84.3 | 68.5 | 78.3 | 81.4 | 71.1 | 81.3 | 78.4 | 77.6 | 68.1 | 84.5 | 83.4 | 78.7 | 75.4 | 81.0 | 85.0 | 74.5 | 79.0 |
| 61 | GWH-0711 | 81.5 | 67.0 | 75.2 | 84.5 | 70.9 | 84.5 | 73.9 | 76.8 | 66.1 | 77.2 | 84.0 | 75.7 | 79.7 | 79.2 | 81.6 | 80.3 | 80.2 |
| 62 | REH-2012-1 | 82.0 | 62.5 | 80.2 | 83.4 | 70.9 | 86.9 | 76.9 | 77.5 | 65.1 | 85.4 | 84.0 | 78.1 | 79.0 | 82.1 | 85.2 | 72.3 | 79.6 |
| 63 | REH-2012-2 | 84.5 | 66.0 | 78.9 | 86.5 | 71.0 | 87.5 | 73.0 | 78.2 | 65.1 | 85.4 | 82.3 | 77.6 | 77.9 | 70.8 | 83.7 | 76.5 | 77.2 |
| 64 | REH-2012-4 | 87.6 | 69.0 | 77.5 | 81.7 | 72.6 | 83.9 | 80.9 | 79.0 | 64.0 | 84.6 | 85.8 | 78.1 | 78.1 | 78.3 | 82.4 | 79.0 | 79.5 |
| 65 | JH 31595 | 83.2 | 70.0 | 83.6 | 84.2 | 74.1 | 86.7 | 78.4 | 80.0 | 66.7 | 84.6 | 85.1 | 78.8 | 79.5 | 79.2 | 86.6 | 80.5 | 81.4 |
| 66 | JH 31537 | 87.0 | 68.5 | 82.5 | 84.6 | 75.7 | 88.8 | 78.5 | 80.8 | 65.8 | 87.3 | 86.5 | 79.9 | 74.6 | 80.0 | 85.0 | 75.3 | 78.7 |
| 67 | JH 31604 | 85.8 | 64.5 | 78.8 | 81.7 | 71.0 | 88.3 | 76.8 | 78.1 | 67.8 | 82.9 | 86.7 | 79.1 | 74.8 | 80.0 | 85.9 | 77.5 | 79.5 |
| 68 | JH 31600(JH 31627) | 85.2 | 68.0 | 84.9 | 83.4 | 73.6 | 85.6 | 76.8 | 79.6 | 67.8 | 84.8 | 85.0 | 79.2 | 78.6 | 79.2 | 84.3 | 78.0 | 80.0 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | | | |
|-------|------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 69 | JH 31244 | 89.0 | 70.0 | 83.7 | 85.9 | 71.6 | 84.9 | 81.2 | 80.9 | 65.9 | 80.0 | 91.8 | 79.2 | 81.8 | 83.8 | 82.4 | 78.8 | 81.7 |
| 70 | JH 31554 | 87.0 | 66.5 | 77.9 | 86.6 | 71.2 | 83.2 | 79.1 | 78.8 | 67.1 | 86.5 | 86.3 | 80.0 | 82.9 | 77.5 | 81.7 | 78.5 | 80.1 |
| 71 | AH-1226 | 86.1 | 64.5 | 84.4 | 87.5 | 72.9 | 79.7 | 80.8 | 79.4 | 66.2 | 81.1 | 82.9 | 76.7 | 79.9 | 83.3 | 87.7 | 79.8 | 82.7 |
| 72 | AH-1262 | 88.9 | 63.0 | 79.8 | 88.7 | 71.1 | 84.3 | 76.3 | 78.9 | 66.0 | 84.3 | 81.8 | 77.4 | 74.7 | 77.8 | 88.9 | 68.8 | 77.5 |
| 73 | MMH-2-12-13 | 79.8 | 67.5 | 76.9 | 86.1 | 72.5 | 80.6 | 77.5 | 77.3 | 66.1 | 84.9 | 82.7 | 77.9 | 76.0 | 82.9 | 84.0 | 74.8 | 79.4 |
| 74 | MMH-3-12-13 | 82.1 | 71.5 | 72.6 | 86.3 | 74.7 | 82.1 | 74.0 | 77.6 | 66.3 | 83.8 | 81.3 | 77.1 | 79.8 | 77.5 | 81.8 | 80.0 | 79.8 |
| 75 | MMH-4-12-13 | 86.5 | 68.5 | 72.2 | 86.0 | 71.9 | 82.8 | 76.1 | 77.7 | 68.0 | 83.1 | 86.9 | 79.3 | 77.9 | 83.4 | 84.8 | 73.5 | 79.9 |
| 76 | MMH-5-12-13 | 79.3 | 70.0 | 71.1 | 85.0 | 72.0 | 82.1 | 76.4 | 76.5 | 67.1 | 80.4 | 85.7 | 77.7 | 80.2 | 82.9 | 80.7 | 69.8 | 78.4 |
| 77 | HKH 338 | 82.8 | 70.0 | 79.9 | 78.8 | 74.5 | 81.1 | 75.7 | 77.5 | 64.8 | 80.5 | 80.5 | 75.2 | 79.7 | 77.5 | 85.1 | 68.3 | 77.6 |
| 78 | HKH 339 | 82.5 | 68.5 | 78.4 | 81.8 | 73.6 | 84.4 | 79.2 | 78.3 | 65.6 | 81.4 | 81.8 | 76.3 | 77.4 | 75.6 | 84.5 | 69.0 | 76.6 |
| 79 | HKH 340 | 81.2 | 64.5 | 77.5 | 84.5 | 71.6 | 84.4 | 74.1 | 76.8 | 65.9 | 85.0 | 83.3 | 78.1 | 76.2 | 72.5 | 83.5 | 74.5 | 76.7 |
| 80 | KNMH-4302 | 81.1 | 68.0 | 76.2 | 81.0 | 72.0 | 81.9 | 77.2 | 76.8 | 65.0 | 79.8 | 87.0 | 77.2 | 77.6 | 85.4 | 81.5 | 71.8 | 79.1 |
| 81 | KNMH-4303 | 81.4 | 70.0 | 78.3 | 83.6 | 70.3 | 86.3 | 73.0 | 77.6 | 65.8 | 83.7 | 79.3 | 76.2 | 77.4 | 77.2 | 83.7 | 68.5 | 76.7 |
| 82 | KNMH-4304 | 83.5 | 66.5 | 85.8 | 85.6 | 74.5 | 79.9 | 74.8 | 78.7 | 63.9 | 84.1 | 81.6 | 76.5 | 66.4 | 78.4 | 81.1 | 68.3 | 73.5 |
| 83 | KNMH-4305 | 80.7 | 64.5 | 74.8 | 79.7 | 71.9 | 84.3 | 69.8 | 75.1 | 67.1 | 79.6 | 80.3 | 75.7 | 73.6 | 81.7 | 81.4 | 62.8 | 74.8 |
| 84 | KNMH-4010131 | 82.1 | 63.0 | 80.2 | 84.0 | 72.4 | 84.0 | 83.8 | 78.5 | 66.3 | 77.6 | 81.3 | 75.1 | 81.5 | 81.7 | 83.2 | 72.5 | 79.7 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 88.3 | 67.5 | 83.6 | 86.3 | 76.4 | 84.1 | 76.0 | 80.3 | 65.8 | 81.1 | 84.3 | 77.0 | 79.4 | 84.4 | 88.3 | 73.8 | 81.5 |
| 86 | BIO9637 | 86.2 | 71.5 | 78.0 | 87.5 | 71.6 | 82.1 | 76.6 | 79.1 | 67.6 | 88.7 | 82.7 | 79.7 | 69.6 | 83.3 | 86.6 | 79.3 | 79.7 |
| 87 | HM12 | 82.6 | 68.5 | 79.1 | 86.2 | 73.3 | 80.9 | 79.1 | 78.5 | 67.2 | 82.5 | 83.4 | 77.7 | 77.1 | 81.5 | 82.6 | 84.3 | 81.4 |
| | Loc. Mean | 84.3 | 67.5 | 78.4 | 84.2 | 72.8 | 83.3 | 77.4 | 78.3 | 66.6 | 83.7 | 84.0 | 78.1 | 78.1 | 80.8 | 83.9 | 74.1 | 79.2 |
| | C.D. (5%) | - | 3.93 | 0.26 | - | 1.56 | 4.54 | 3.24 | 2.73 | 0.62 | 2.18 | 2.41 | 3.41 | 2.48 | 5.81 | 6.46 | 1.61 | 4.49 |
| | C.V. (%) | - | 2.93 | 0.21 | - | 1.33 | 3.38 | 2.60 | 3.32 | 0.57 | 1.62 | 1.78 | 2.71 | 1.97 | 4.46 | 3.87 | 1.35 | 4.07 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.08 | 0.00 | 0.02 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 1 | QMH-29134 | 80.7 | 80.8 | 79.6 | 80.7 | 85.5 | 80.8 | 81.2 | 80.3 | 70.5 | 80.0 | 73.4 | 80.1 | 82.0 | 78.5 | 78.4 | |
| 2 | QMH-2916 | 77.5 | 78.7 | 78.8 | 78.3 | 80.7 | 81.0 | 78.3 | 76.6 | 76.5 | 78.5 | 77.7 | 80.1 | 82.3 | 80.0 | 78.3 | |
| 3 | EHL-3412 | 84.1 | 79.2 | 76.1 | 79.1 | 85.2 | 79.0 | 81.7 | 84.1 | 81.1 | 81.1 | 75.9 | 82.5 | 82.2 | 80.2 | 79.3 | |
| 4 | EHL-1111 | 86.0 | 82.0 | 81.7 | 84.3 | 87.0 | 79.4 | 83.7 | 81.4 | 75.5 | 82.3 | 75.8 | 85.3 | 81.9 | 81.0 | 79.9 | |
| 5 | EHL-3512 | 83.7 | 80.3 | 79.7 | 81.1 | 85.1 | 80.3 | 80.9 | 82.5 | 70.9 | 80.5 | 75.7 | 82.6 | 82.3 | 80.2 | 79.2 | |
| 6 | S-6750 | 83.4 | 78.9 | 76.4 | 78.0 | 85.2 | 80.2 | 77.4 | 78.9 | 77.2 | 79.5 | 76.8 | 80.5 | 81.9 | 79.7 | 78.9 | |
| 7 | RMH-932 | 86.9 | 81.0 | 79.1 | 79.3 | 87.1 | 79.2 | 81.0 | 83.8 | 74.2 | 81.3 | 76.6 | 84.3 | 82.8 | 81.2 | 80.4 | |
| 8 | RMH-3591 | 85.3 | 81.3 | 78.8 | 82.0 | 85.8 | 82.6 | 81.3 | 84.5 | 75.4 | 81.9 | 76.3 | 83.8 | 80.7 | 80.2 | 79.6 | |
| 9 | PHM-34(W) | 88.8 | 85.7 | 81.8 | 81.1 | 88.0 | 80.1 | 86.0 | 80.1 | 69.1 | 82.3 | 76.4 | 87.5 | 82.1 | 82.0 | 80.6 | |
| 10 | PHM-12(Y) | 83.7 | 81.7 | 80.1 | 80.9 | 86.0 | 80.0 | 83.0 | 83.3 | 67.7 | 80.7 | 76.8 | 84.4 | 82.5 | 81.2 | 79.9 | |
| 11 | LG-3271 | 87.6 | 84.1 | 82.3 | 80.8 | 86.9 | 85.1 | 88.4 | 86.3 | 72.3 | 83.7 | 74.5 | 86.4 | 82.7 | 81.2 | 81.4 | |
| 12 | LG-3282 | 82.3 | 80.9 | 76.3 | 78.3 | 83.1 | 82.8 | 78.3 | 80.3 | 76.6 | 79.9 | 77.4 | 80.5 | 79.5 | 79.1 | 78.7 | |
| 13 | FCH-85 | 83.1 | 80.7 | 80.4 | 87.3 | 85.8 | 82.8 | 83.9 | 83.5 | 68.5 | 81.8 | 77.7 | 81.8 | 81.0 | 80.1 | 79.9 | |
| 14 | FCH-184 | 80.4 | 80.8 | 79.8 | 81.4 | 85.0 | 79.7 | 82.2 | 84.0 | 67.0 | 80.0 | 75.9 | 84.3 | 83.2 | 81.1 | 79.7 | |
| 15 | FCH-11231 | 86.0 | 83.1 | 80.8 | 79.2 | 84.9 | 84.2 | 83.1 | 82.6 | 70.7 | 81.6 | 78.6 | 83.6 | 82.2 | 81.5 | 80.3 | |
| 16 | KMH-6 | 82.9 | 77.9 | 77.3 | 81.3 | 85.1 | 81.5 | 83.2 | 83.3 | 72.4 | 80.5 | 78.3 | 84.0 | 80.0 | 80.8 | 79.9 | |
| 17 | KMH-84 | 84.2 | 83.1 | 79.7 | 76.1 | 81.6 | 82.2 | 80.7 | 81.6 | 72.2 | 80.1 | 74.7 | 84.7 | 83.0 | 80.8 | 79.2 | |
| 18 | KMH-6681 | 86.7 | 81.0 | 78.7 | 82.2 | 87.7 | 81.6 | 84.0 | 85.6 | 77.2 | 82.7 | 75.3 | 85.1 | 81.0 | 80.5 | 81.1 | |
| 19 | KMH-5951 | 84.9 | 80.5 | 81.7 | 82.0 | 86.7 | 83.8 | 84.9 | 84.7 | 69.8 | 82.1 | 77.4 | 85.6 | 82.0 | 81.7 | 80.5 | |
| 20 | JKMH-4545 | 86.9 | 82.9 | 81.8 | 81.8 | 85.0 | 81.0 | 85.6 | 86.6 | 75.9 | 83.0 | 77.5 | 87.0 | 81.1 | 81.9 | 81.3 | |
| 21 | SAFAL X-2 | 85.3 | 78.9 | 79.3 | 79.8 | 86.3 | 82.1 | 81.5 | 85.7 | 79.5 | 82.0 | 74.3 | 88.4 | 80.7 | 81.1 | 80.3 | |
| 22 | Kuber Shakthi | 84.5 | 75.3 | 75.4 | 80.4 | 84.9 | 83.8 | 81.8 | 83.3 | 70.9 | 80.0 | 77.5 | 80.8 | 80.2 | 79.5 | 79.0 | |
| 23 | DAS-MH-304 | 82.8 | 78.1 | 77.6 | 78.3 | 84.9 | 79.8 | 79.5 | 79.3 | 61.6 | 78.0 | 75.9 | 81.7 | 81.1 | 79.6 | 78.3 | |
| 24 | DAS-MH-305 | 83.9 | 78.2 | 76.6 | 79.8 | 84.2 | 80.1 | 73.6 | 84.6 | 74.5 | 79.5 | 77.9 | 81.3 | 82.5 | 80.6 | 78.8 | |
| 25 | KH-517 Gold | 86.9 | 78.5 | 77.4 | 81.7 | 84.0 | 82.7 | 82.0 | 82.9 | 70.1 | 80.7 | 79.5 | 82.1 | 82.5 | 81.4 | 79.2 | |
| 26 | KH-2248 | 82.9 | 84.6 | 81.5 | 84.2 | 86.0 | 81.5 | 80.6 | 84.7 | 76.2 | 82.5 | 72.9 | 86.0 | 80.9 | 79.9 | 80.3 | |
| 27 | TH-38 | 79.5 | 74.2 | 76.9 | 80.4 | 86.3 | 81.3 | 80.3 | 82.2 | 69.3 | 78.9 | 76.2 | 83.1 | 80.8 | 80.0 | 78.4 | |
| 28 | MAHABEEJ-1202(Nirdhar) | 81.6 | 81.3 | 77.3 | 80.2 | 83.1 | 82.9 | 80.3 | 81.5 | 76.3 | 80.5 | 74.8 | 82.5 | 81.5 | 79.6 | 78.8 | |
| 29 | KDMH-2705 | 86.1 | 81.4 | 77.9 | 78.4 | 87.2 | 82.2 | 83.4 | 81.0 | 77.7 | 81.7 | 76.3 | 83.5 | 80.2 | 80.0 | 80.0 | |
| 30 | EH-2205 | 84.9 | 80.8 | 78.7 | 79.4 | 85.0 | 81.2 | 81.2 | 81.1 | 77.4 | 81.1 | 73.1 | 82.8 | 83.2 | 79.7 | 78.6 | |
| 31 | EH-2208 | 80.6 | 79.6 | 74.6 | 75.9 | 82.9 | 79.9 | 78.3 | 77.1 | 77.1 | 78.5 | 76.2 | 84.2 | 82.5 | 81.0 | 78.0 | |
| 32 | EH-2240 | 84.9 | 81.1 | 78.9 | 78.5 | 85.6 | 81.8 | 80.9 | 83.0 | 77.4 | 81.3 | 74.5 | 81.3 | 83.5 | 79.8 | 79.7 | |
| 33 | VaMH-08015 | 87.4 | 80.7 | 80.7 | 84.8 | 84.3 | 81.5 | 83.7 | 81.5 | 75.4 | 82.2 | 75.8 | 88.2 | 81.5 | 81.8 | 79.4 | |
| 34 | PMH-209 | 86.5 | 84.2 | 80.6 | 82.3 | 86.3 | 81.7 | 84.3 | 82.0 | 67.8 | 81.7 | 78.4 | 85.2 | 81.4 | 81.7 | 80.9 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | | | | | | | | | | ZN 4 | | | | ZN 5 | | OV'L |
|-------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 35 | PRMH-2177 | 86.0 | 82.9 | 81.1 | 86.5 | 89.0 | 82.5 | 84.9 | 89.4 | 77.1 | 84.4 | 76.9 | 85.4 | 81.3 | 81.2 | 80.9 | |
| 36 | NMH-1289 | 90.6 | 88.1 | 82.7 | 86.0 | 92.1 | 79.7 | 89.0 | 83.0 | 71.8 | 84.8 | 77.0 | 88.1 | 81.1 | 82.1 | 82.3 | |
| 37 | HTMH-5402 | 88.7 | 82.0 | 80.1 | 83.2 | 84.6 | 84.4 | 84.0 | 85.2 | 79.0 | 83.5 | 76.6 | 85.7 | 82.4 | 81.6 | 81.1 | |
| 38 | CMH 10-488 | 83.1 | 79.8 | 76.1 | 80.4 | 85.2 | 82.7 | 80.2 | 78.9 | 75.0 | 80.1 | 76.5 | 80.6 | 81.0 | 79.4 | 79.1 | |
| 39 | CMH 10-547 | 84.8 | 81.2 | 80.5 | 82.2 | 87.2 | 82.6 | 82.4 | 82.6 | 71.4 | 81.6 | 76.7 | 83.6 | 81.6 | 80.6 | 80.6 | |
| 40 | CMH 11-582 | 83.1 | 79.7 | 75.1 | 78.3 | 84.9 | 83.5 | 79.2 | 77.7 | 76.2 | 79.7 | 74.9 | 81.4 | 80.5 | 78.9 | 78.7 | |
| 41 | CMH 11-603 | 80.3 | 78.8 | 77.8 | 76.8 | 84.3 | 79.5 | 79.7 | 78.9 | 69.2 | 78.4 | 77.1 | 78.9 | 80.9 | 79.0 | 77.7 | |
| 42 | CMH 11-617 | 85.1 | 79.2 | 77.6 | 75.0 | 83.7 | 81.1 | 78.7 | 80.0 | 73.2 | 79.3 | 77.6 | 80.1 | 80.4 | 79.4 | 78.3 | |
| 43 | IM8478 | 84.1 | 79.8 | 78.3 | 79.8 | 85.0 | 81.0 | 80.4 | 85.7 | 73.1 | 80.8 | 75.4 | 80.2 | 82.2 | 79.3 | 79.7 | |
| 44 | IM8479 | 83.1 | 77.5 | 77.1 | 81.5 | 82.9 | 81.4 | 80.1 | 84.1 | 74.0 | 80.2 | 76.6 | 84.3 | 81.8 | 80.9 | 79.4 | |
| 45 | IM8581 | 85.6 | 79.0 | 79.0 | 82.0 | 86.7 | 79.1 | 81.9 | 81.4 | 75.6 | 81.1 | 78.5 | 81.9 | 83.0 | 81.1 | 80.0 | |
| 46 | IM 7519 | 85.5 | 80.9 | 78.3 | 77.5 | 84.9 | 82.4 | 80.6 | 79.4 | 70.8 | 80.0 | 76.7 | 82.4 | 80.1 | 79.7 | 79.0 | |
| 47 | IM 7501 | 83.0 | 80.4 | 78.1 | 79.3 | 85.0 | 80.6 | 81.3 | 81.3 | 72.6 | 80.2 | 77.9 | 80.6 | 82.5 | 80.3 | 80.0 | |
| 48 | BH 41015 | 85.9 | 83.1 | 79.6 | 84.4 | 88.1 | 83.0 | 83.4 | 86.2 | 80.6 | 83.8 | 78.0 | 80.6 | 82.0 | 80.2 | 80.4 | |
| 49 | BH 41030 | 82.7 | 77.2 | 75.5 | 74.9 | 84.6 | 79.6 | 80.1 | 81.8 | 73.2 | 78.9 | 73.3 | 79.9 | 81.8 | 78.4 | 78.3 | |
| 50 | BH 41145 | 84.7 | 75.6 | 73.8 | 69.2 | 83.1 | 82.8 | 77.5 | 76.3 | 81.8 | 78.3 | 72.6 | 78.6 | 82.7 | 78.0 | 78.0 | |
| 51 | BH 41150 | 83.8 | 78.7 | 75.5 | 77.0 | 84.0 | 81.8 | 80.6 | 83.6 | 70.0 | 79.4 | 75.3 | 83.8 | 81.8 | 80.3 | 78.0 | |
| 52 | BH 411736 | 85.9 | 81.0 | 78.9 | 78.1 | 86.2 | 80.2 | 85.1 | 87.8 | 72.9 | 81.8 | 74.3 | 86.1 | 81.5 | 80.6 | 80.2 | |
| 53 | BH 411737 | 81.4 | 81.0 | 78.9 | 79.6 | 83.2 | 79.6 | 77.5 | 79.4 | 68.5 | 78.8 | 75.9 | 80.4 | 81.5 | 79.3 | 77.4 | |
| 54 | BH 411520 | 82.3 | 83.3 | 82.2 | 83.3 | 86.3 | 81.6 | 85.8 | 85.4 | 54.4 | 80.5 | 78.1 | 75.9 | 81.2 | 78.4 | 78.5 | |
| 55 | VEH 12-1 | 84.6 | 83.8 | 81.1 | 81.7 | 87.1 | 80.6 | 84.0 | 84.7 | 67.5 | 81.7 | 75.4 | 83.2 | 80.7 | 79.7 | 80.2 | |
| 56 | X35D620 | 85.5 | 78.5 | 79.0 | 81.2 | 87.8 | 81.8 | 83.8 | 87.6 | 76.7 | 82.4 | 75.8 | 84.0 | 81.0 | 80.3 | 80.9 | |
| 57 | X35D623 | 88.6 | 82.2 | 81.7 | 81.6 | 89.5 | 81.9 | 83.3 | 86.7 | 59.9 | 81.7 | 75.8 | 85.0 | 83.1 | 81.3 | 80.7 | |
| 58 | X35D602 | 83.4 | 81.4 | 76.6 | 82.5 | 83.6 | 83.3 | 82.0 | 84.3 | 69.9 | 80.8 | 76.5 | 81.8 | 80.1 | 79.5 | 79.6 | |
| 59 | X35D603 | 87.8 | 84.1 | 82.8 | 86.0 | 89.1 | 82.2 | 87.5 | 87.3 | 71.8 | 84.3 | 75.0 | 85.8 | 79.9 | 80.2 | 81.8 | |
| 60 | Bio 451 | 82.2 | 81.3 | 79.1 | 80.6 | 87.9 | 80.0 | 83.9 | 84.5 | 75.2 | 81.6 | 75.9 | 83.8 | 82.8 | 80.9 | 79.7 | |
| 61 | GWH-0711 | 79.5 | 83.6 | 78.8 | 86.0 | 84.8 | 80.0 | 83.0 | 82.4 | 62.9 | 80.1 | 73.2 | 82.1 | 80.2 | 78.5 | 78.5 | |
| 62 | REH-2012-1 | 84.2 | 83.1 | 75.7 | 79.2 | 82.0 | 80.0 | 79.7 | 78.7 | 61.5 | 78.2 | 74.3 | 83.4 | 80.8 | 79.5 | 78.4 | |
| 63 | REH-2012-2 | 83.1 | 82.9 | 78.0 | 80.2 | 87.0 | 79.8 | 82.8 | 80.6 | 63.9 | 79.8 | 76.4 | 85.0 | 81.0 | 80.8 | 78.8 | |
| 64 | REH-2012-4 | 86.0 | 78.5 | 77.2 | 75.7 | 87.2 | 81.1 | 83.1 | 86.3 | 73.0 | 80.9 | 76.9 | 80.7 | 81.8 | 79.8 | 79.7 | |
| 65 | JH 31595 | 84.4 | 78.0 | 77.3 | 81.0 | 87.1 | 81.1 | 83.7 | 85.9 | 71.7 | 81.1 | 77.9 | 81.7 | 83.7 | 81.1 | 80.6 | |
| 66 | JH 31537 | 87.6 | 81.9 | 82.8 | 84.7 | 89.8 | 81.9 | 84.8 | 90.0 | 76.9 | 84.5 | 76.8 | 85.7 | 82.8 | 81.8 | 81.8 | |
| 67 | JH 31604 | 86.6 | 81.9 | 77.7 | 80.1 | 88.0 | 81.7 | 86.4 | 84.4 | 74.3 | 82.3 | 78.7 | 84.3 | 81.0 | 81.3 | 80.3 | |
| 68 | JH 31600(JH 31627) | 85.3 | 82.2 | 76.5 | 79.7 | 86.9 | 81.1 | 83.5 | 85.0 | 71.9 | 81.3 | 74.5 | 83.9 | 82.0 | 80.1 | 80.3 | |

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Table No. 2 (Continued)

| S.No. PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 OVL | |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 69 JH 31244 | 87.0 | 82.0 | 82.7 | 84.7 | 87.0 | 82.4 | 85.3 | 87.3 | 75.5 | 83.7 | 73.9 | 86.8 | 80.6 | 80.4 | 81.8 |
| 70 JH 31554 | 86.0 | 82.2 | 81.6 | 82.6 | 86.1 | 80.8 | 83.1 | 85.5 | 71.7 | 82.1 | 74.9 | 86.2 | 80.8 | 80.6 | 80.5 |
| 71 AH-1226 | 86.0 | 84.7 | 82.0 | 85.4 | 87.6 | 77.5 | 86.6 | 85.8 | 63.2 | 82.1 | 75.6 | 87.9 | 82.3 | 81.9 | 80.8 |
| 72 AH-1262 | 84.1 | 80.2 | 78.3 | 80.7 | 85.2 | 83.6 | 77.7 | 78.6 | 70.7 | 79.9 | 75.1 | 83.2 | 82.2 | 80.1 | 79.0 |
| 73 MMH-2-12-13 | 83.8 | 74.8 | 74.4 | 78.4 | 80.8 | 79.3 | 79.8 | 75.9 | 68.7 | 77.3 | 74.4 | 79.3 | 80.1 | 77.9 | 77.8 |
| 74 MMH-3-12-13 | 83.3 | 78.5 | 78.3 | 81.3 | 85.9 | 81.4 | 79.4 | 78.5 | 71.4 | 79.8 | 77.4 | 84.1 | 82.0 | 81.2 | 79.0 |
| 75 MMH-4-12-13 | 85.1 | 77.0 | 77.4 | 79.9 | 85.2 | 79.8 | 82.4 | 84.0 | 73.6 | 80.5 | 75.1 | 81.4 | 81.3 | 79.3 | 79.4 |
| 76 MMH-5-12-13 | 82.3 | 81.3 | 80.1 | 78.3 | 86.0 | 79.9 | 75.2 | 89.0 | 65.4 | 79.7 | 75.9 | 82.7 | 81.4 | 80.0 | 78.5 |
| 77 HKH 338 | 84.7 | 81.2 | 79.2 | 83.1 | 85.3 | 80.1 | 80.7 | 82.9 | 66.0 | 80.3 | 76.4 | 85.6 | 80.4 | 80.8 | 78.6 |
| 78 HKH 339 | 84.4 | 79.8 | 78.1 | 79.8 | 83.7 | 79.7 | 81.2 | 82.5 | 72.1 | 80.1 | 76.5 | 84.7 | 78.8 | 80.0 | 78.6 |
| 79 HKH 340 | 81.3 | 77.8 | 75.2 | 82.2 | 83.8 | 82.4 | 80.0 | 77.0 | 67.4 | 78.6 | 79.0 | 82.5 | 81.3 | 80.9 | 78.0 |
| 80 KNMH-4302 | 83.8 | 77.7 | 78.2 | 79.5 | 84.4 | 80.9 | 80.9 | 84.6 | 60.9 | 79.0 | 73.5 | 85.4 | 83.0 | 80.6 | 78.4 |
| 81 KNMH-4303 | 82.3 | 79.5 | 79.7 | 75.4 | 81.7 | 82.3 | 78.4 | 78.2 | 64.3 | 78.0 | 76.4 | 83.8 | 81.1 | 80.5 | 77.7 |
| 82 KNMH-4304 | 73.0 | 77.2 | 76.7 | 80.3 | 84.4 | 80.5 | 80.8 | 79.5 | 67.8 | 77.8 | 78.0 | 86.1 | 81.1 | 81.7 | 77.7 |
| 83 KNMH-4305 | 82.5 | 75.1 | 74.8 | 79.4 | 83.7 | 79.5 | 74.2 | 78.8 | 67.6 | 77.3 | 76.5 | 79.1 | 78.3 | 78.0 | 76.2 |
| 84 KNMH-4010131 | 83.1 | 80.3 | 76.6 | 78.1 | 84.8 | 80.0 | 80.7 | 85.6 | 74.1 | 80.4 | 76.9 | 80.7 | 79.1 | 78.9 | 79.0 |
| CHECKS | | | | | | | | | | | | | | | |
| 85 PMH4 | 89.1 | 81.9 | 82.5 | 82.9 | 86.9 | 84.6 | 85.5 | 87.1 | 76.0 | 84.1 | 77.5 | 84.8 | 80.2 | 80.8 | 81.5 |
| 86 BIO9637 | 86.4 | 83.0 | 76.6 | 81.0 | 85.1 | 80.7 | 82.5 | 85.1 | 67.4 | 80.8 | 75.2 | 83.5 | 81.9 | 80.2 | 80.0 |
| 87 HM12 | 80.7 | 79.9 | 78.2 | 83.0 | 86.8 | 81.0 | 82.1 | 81.6 | 66.0 | 79.9 | 75.7 | 85.2 | 80.6 | 80.5 | 79.6 |
| Loc. Mean | 84.2 | 80.5 | 78.7 | 80.6 | 85.5 | 81.3 | 81.8 | 82.8 | 71.7 | 80.8 | 76.2 | 83.3 | 81.5 | 80.3 | 79.5 |
| C.D. (5%) | 2.79 | 1.83 | 1.57 | 3.28 | 0.58 | 1.88 | 3.85 | 3.88 | 9.39 | 2.35 | 4.52 | 1.61 | 0.62 | 2.94 | 1.40 |
| C.V. (%) | 2.05 | 1.41 | 1.23 | 2.53 | 0.42 | 1.44 | 2.92 | 2.91 | 8.13 | 3.14 | 3.68 | 1.20 | 0.48 | 2.27 | 3.25 |
| F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.70 | 0.00 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | |
|-------|------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 19.2 | 22.5 | 22.6 | 21.5 | 27.3 | 19.9 | 25.0 | 22.6 | 26.0 | 24.0 | 26.9 | 25.6 | 23.8 | 20.7 | 20.5 | 33.4 | 24.6 |
| 2 | QMH-2916 | 20.0 | 25.0 | 24.6 | 21.3 | 28.0 | 21.2 | 25.0 | 23.6 | 24.9 | 23.2 | 28.6 | 25.5 | 23.5 | 22.0 | 20.5 | 26.3 | 23.1 |
| 3 | EHL-3412 | 20.5 | 21.5 | 22.0 | 20.6 | 26.1 | 20.4 | 24.5 | 22.2 | 26.0 | 26.5 | 28.1 | 26.9 | 24.1 | 25.1 | 23.6 | 32.2 | 26.2 |
| 4 | EHL-1111 | 20.5 | 23.0 | 27.6 | 22.1 | 25.8 | 19.4 | 24.5 | 23.3 | 25.1 | 24.4 | 27.6 | 25.7 | 22.7 | 22.2 | 21.1 | 29.4 | 23.8 |
| 5 | EHL-3512 | 20.2 | 22.5 | 27.4 | 23.1 | 28.4 | 20.6 | 24.5 | 23.8 | 26.3 | 23.5 | 28.4 | 26.0 | 23.5 | 24.0 | 20.0 | 26.0 | 23.3 |
| 6 | S-6750 | 23.4 | 21.5 | 21.8 | 21.3 | 24.3 | 20.3 | 25.0 | 22.5 | 27.1 | 25.8 | 29.4 | 27.4 | 22.9 | 24.1 | 18.6 | 27.7 | 23.3 |
| 7 | RMH-932 | 20.7 | 25.0 | 26.5 | 22.7 | 28.6 | 19.9 | 24.5 | 24.0 | 25.6 | 26.9 | 28.1 | 26.8 | 25.2 | 28.5 | 22.5 | 30.6 | 26.7 |
| 8 | RMH-3591 | 20.2 | 24.0 | 27.3 | 22.0 | 27.1 | 21.8 | 24.5 | 23.8 | 25.6 | 26.9 | 28.7 | 27.1 | 23.3 | 26.4 | 20.7 | 31.4 | 25.5 |
| 9 | PHM-34(W) | 20.3 | 25.5 | 27.6 | 21.2 | 25.9 | 19.2 | 24.5 | 23.4 | 26.3 | 24.7 | 28.1 | 26.3 | 22.3 | 27.7 | 18.9 | 28.6 | 24.4 |
| 10 | PHM-12(Y) | 19.7 | 23.0 | 26.3 | 21.7 | 25.8 | 20.1 | 24.0 | 22.9 | 26.0 | 23.1 | 28.4 | 25.8 | 22.1 | 21.8 | 22.6 | 27.5 | 23.5 |
| 11 | LG-3271 | 19.9 | 21.5 | 21.9 | 23.5 | 25.3 | 20.2 | 24.5 | 22.4 | 28.0 | 23.3 | 27.8 | 26.3 | 24.2 | 20.1 | 22.8 | 25.7 | 23.2 |
| 12 | LG-3282 | 21.0 | 22.5 | 21.0 | 21.0 | 25.3 | 22.1 | 25.0 | 22.5 | 25.0 | 23.7 | 27.7 | 25.4 | 24.8 | 24.7 | 18.8 | 29.9 | 24.5 |
| 13 | FCH-85 | 20.9 | 23.0 | 21.4 | 20.7 | 28.2 | 22.3 | 24.5 | 23.0 | 26.1 | 25.7 | 29.0 | 26.9 | 23.7 | 22.8 | 23.6 | 29.2 | 24.8 |
| 14 | FCH-184 | 23.0 | 22.5 | 27.7 | 22.2 | 27.7 | 21.3 | 23.5 | 24.0 | 27.0 | 25.6 | 27.9 | 26.8 | 23.9 | 24.6 | 21.3 | 30.4 | 25.0 |
| 15 | FCH-11231 | 20.4 | 24.0 | 22.8 | 23.3 | 29.7 | 19.7 | 24.5 | 23.5 | 27.3 | 25.4 | 26.6 | 26.4 | 25.1 | 26.0 | 22.6 | 30.6 | 26.0 |
| 16 | KMH-6 | 20.5 | 21.0 | 20.6 | 23.4 | 23.9 | 19.5 | 25.5 | 22.0 | 25.8 | 21.8 | 29.0 | 25.5 | 22.1 | 24.4 | 20.9 | 27.4 | 23.7 |
| 17 | KMH-84 | 20.4 | 23.5 | 22.8 | 20.9 | 24.3 | 21.2 | 23.5 | 22.4 | 28.1 | 23.6 | 26.7 | 26.1 | 23.1 | 20.8 | 23.8 | 28.0 | 23.9 |
| 18 | KMH-6681 | 22.9 | 25.0 | 24.8 | 19.5 | 29.1 | 21.7 | 23.0 | 23.7 | 25.8 | 24.2 | 29.7 | 26.5 | 23.0 | 22.9 | 22.9 | 28.7 | 24.4 |
| 19 | KMH-5951 | 20.2 | 21.5 | 25.7 | 23.1 | 29.4 | 21.6 | 24.5 | 23.7 | 25.9 | 25.0 | 28.8 | 26.6 | 23.1 | 25.1 | 20.9 | 28.3 | 24.3 |
| 20 | JKMH-4545 | 20.9 | 25.0 | 26.5 | 21.5 | 26.0 | 19.9 | 24.0 | 23.4 | 26.5 | 23.9 | 28.5 | 26.3 | 23.5 | 22.1 | 17.8 | 26.5 | 22.5 |
| 21 | SAFAL X-2 | 20.7 | 22.5 | 22.1 | 20.7 | 27.5 | 21.2 | 24.5 | 22.7 | 27.1 | 24.4 | 27.9 | 26.4 | 25.2 | 23.3 | 23.9 | 31.3 | 25.9 |
| 22 | Kuber Shakthi | 20.0 | 21.0 | 26.4 | 21.4 | 27.5 | 20.4 | 23.5 | 22.9 | 25.9 | 25.6 | 27.6 | 26.4 | 25.4 | 26.3 | 20.0 | 26.9 | 24.7 |
| 23 | DAS-MH-304 | 22.7 | 22.5 | 21.5 | 22.8 | 26.5 | 19.4 | 25.0 | 22.9 | 26.0 | 23.2 | 27.0 | 25.4 | 23.6 | 23.6 | 21.3 | 27.9 | 24.1 |
| 24 | DAS-MH-305 | 20.7 | 22.5 | 25.6 | 21.1 | 27.2 | 20.6 | 23.5 | 23.0 | 26.0 | 26.1 | 29.4 | 27.2 | 24.0 | 23.2 | 22.5 | 24.7 | 23.6 |
| 25 | KH-517 Gold | 20.9 | 23.0 | 18.5 | 23.1 | 28.0 | 20.3 | 24.5 | 22.6 | 26.1 | 25.9 | 28.9 | 26.9 | 23.3 | 27.2 | 20.3 | 30.2 | 25.2 |
| 26 | KH-2248 | 22.5 | 21.0 | 30.1 | 19.3 | 27.6 | 19.9 | 24.0 | 23.5 | 25.5 | 23.9 | 27.8 | 25.7 | 24.1 | 26.8 | 21.4 | 30.2 | 25.6 |
| 27 | TH-38 | 23.3 | 22.5 | 21.7 | 21.7 | 26.4 | 21.8 | 23.0 | 22.9 | 26.0 | 23.6 | 27.8 | 25.8 | 23.9 | 23.5 | 22.8 | 29.5 | 24.9 |
| 28 | MAHABEEJ-1202(Nirdhar) | 20.1 | 22.0 | 20.6 | 19.8 | 25.2 | 19.2 | 25.5 | 21.7 | 27.1 | 22.8 | 28.3 | 26.1 | 23.3 | 24.8 | 22.3 | 27.2 | 24.4 |
| 29 | KDMH-2705 | 20.6 | 24.0 | 20.0 | 18.6 | 24.2 | 20.1 | 25.0 | 21.8 | 26.1 | 25.0 | 29.0 | 26.7 | 23.7 | 26.1 | 24.3 | 32.1 | 26.5 |
| 30 | EH-2205 | 20.1 | 21.5 | 23.7 | 21.7 | 27.3 | 20.2 | 24.5 | 22.7 | 26.1 | 24.7 | 27.5 | 26.1 | 23.7 | 25.3 | 20.3 | 28.6 | 24.5 |
| 31 | EH-2208 | 20.2 | 21.5 | 22.0 | 21.4 | 28.0 | 22.1 | 24.0 | 22.7 | 26.7 | 26.5 | 28.8 | 27.3 | 23.1 | 23.0 | 22.8 | 30.0 | 24.7 |
| 32 | EH-2240 | 20.4 | 22.5 | 27.8 | 19.5 | 26.5 | 22.3 | 25.0 | 23.4 | 25.1 | 22.3 | 28.6 | 25.3 | 23.8 | 22.5 | 19.0 | 27.5 | 23.2 |
| 33 | VaMH-08015 | 21.2 | 23.0 | 20.6 | 19.9 | 29.1 | 21.3 | 24.5 | 22.8 | 25.3 | 24.4 | 28.8 | 26.1 | 23.7 | 23.5 | 20.6 | 29.0 | 24.2 |
| 34 | PMH-209 | 20.3 | 21.0 | 26.0 | 22.4 | 28.5 | 19.7 | 23.5 | 23.0 | 25.9 | 23.0 | 28.8 | 25.9 | 23.0 | 26.0 | 21.2 | 28.8 | 24.7 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | |
|-------|--------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 35 | PRMH-2177 | 20.3 | 23.0 | 25.9 | 21.8 | 26.4 | 19.5 | 26.0 | 23.3 | 26.2 | 23.2 | 29.2 | 26.2 | 24.0 | 19.9 | 17.9 | 24.7 | 21.6 |
| 36 | NMH-1289 | 20.3 | 21.0 | 25.6 | 22.2 | 26.9 | 21.2 | 24.5 | 23.1 | 25.7 | 23.5 | 29.4 | 26.2 | 23.2 | 23.9 | 20.1 | 25.1 | 23.1 |
| 37 | HTMH-5402 | 21.8 | 21.5 | 27.8 | 22.1 | 27.1 | 21.7 | 25.0 | 23.8 | 26.3 | 30.1 | 29.1 | 28.5 | 24.5 | 30.8 | 22.2 | 29.5 | 26.7 |
| 38 | CMH 10-488 | 20.4 | 25.0 | 18.9 | 22.6 | 26.6 | 21.6 | 26.0 | 23.0 | 27.0 | 25.4 | 29.0 | 27.1 | 24.2 | 24.9 | 21.1 | 31.6 | 25.4 |
| 39 | CMH 10-547 | 19.7 | 21.0 | 24.6 | 21.2 | 24.5 | 19.9 | 24.0 | 22.1 | 26.1 | 28.6 | 27.0 | 27.2 | 24.1 | 26.1 | 21.6 | 31.2 | 25.7 |
| 40 | CMH 11-582 | 20.3 | 22.5 | 26.6 | 22.2 | 27.6 | 21.2 | 23.5 | 23.4 | 27.1 | 26.0 | 27.6 | 26.9 | 25.0 | 23.1 | 18.3 | 27.4 | 23.4 |
| 41 | CMH 11-603 | 20.6 | 23.0 | 23.9 | 21.6 | 29.7 | 20.4 | 24.5 | 23.4 | 26.1 | 27.4 | 27.5 | 27.0 | 25.1 | 25.9 | 21.6 | 31.2 | 25.9 |
| 42 | CMH 11-617 | 24.1 | 21.0 | 26.9 | 21.3 | 28.7 | 19.4 | 24.5 | 23.7 | 26.3 | 26.2 | 29.1 | 27.2 | 23.2 | 25.0 | 21.9 | 29.9 | 25.0 |
| 43 | IM8478 | 20.2 | 23.5 | 20.9 | 21.9 | 28.5 | 20.6 | 25.0 | 22.9 | 25.4 | 27.2 | 27.8 | 26.8 | 24.0 | 26.9 | 22.9 | 32.7 | 26.6 |
| 44 | IM8479 | 20.7 | 23.5 | 24.4 | 22.6 | 28.5 | 20.3 | 25.5 | 23.6 | 27.1 | 27.0 | 29.3 | 27.8 | 25.0 | 27.4 | 20.9 | 32.9 | 26.5 |
| 45 | IM8581 | 20.2 | 21.5 | 20.6 | 21.3 | 28.1 | 19.9 | 24.5 | 22.3 | 24.2 | 27.2 | 27.1 | 26.1 | 24.5 | 27.6 | 20.9 | 31.1 | 26.0 |
| 46 | IM 7519 | 20.6 | 23.5 | 28.4 | 21.6 | 27.6 | 21.8 | 24.5 | 24.0 | 27.1 | 25.1 | 29.3 | 27.1 | 25.4 | 26.7 | 20.4 | 32.2 | 26.2 |
| 47 | IM 7501 | 20.0 | 22.0 | 24.6 | 22.2 | 29.5 | 19.2 | 24.0 | 23.1 | 27.2 | 24.4 | 27.6 | 26.4 | 25.1 | 25.7 | 20.2 | 29.9 | 25.2 |
| 48 | BH 41015 | 20.1 | 24.0 | 21.9 | 21.8 | 27.4 | 20.1 | 24.5 | 22.8 | 25.8 | 23.9 | 29.4 | 26.3 | 24.4 | 26.6 | 24.8 | 28.2 | 26.0 |
| 49 | BH 41030 | 20.9 | 21.5 | 27.3 | 20.9 | 28.3 | 20.2 | 25.5 | 23.5 | 25.2 | 24.7 | 29.2 | 26.4 | 24.5 | 24.2 | 21.9 | 29.2 | 24.9 |
| 50 | BH 41145 | 20.2 | 21.5 | 27.2 | 23.3 | 29.3 | 22.1 | 24.0 | 23.9 | 26.0 | 24.8 | 26.8 | 25.9 | 24.5 | 30.3 | 21.2 | 33.3 | 27.3 |
| 51 | BH 41150 | 20.0 | 22.5 | 23.5 | 20.5 | 26.6 | 22.3 | 25.5 | 23.0 | 28.0 | 23.3 | 29.8 | 27.0 | 22.7 | 25.6 | 24.3 | 28.0 | 25.1 |
| 52 | BH 411736 | 20.8 | 23.5 | 21.4 | 23.2 | 28.7 | 21.3 | 24.0 | 23.3 | 27.1 | 22.2 | 28.3 | 25.9 | 22.1 | 24.0 | 17.8 | 27.3 | 22.8 |
| 53 | BH 411737 | 21.2 | 21.0 | 24.7 | 22.0 | 27.3 | 19.7 | 25.0 | 23.0 | 28.5 | 24.3 | 27.8 | 26.9 | 22.7 | 23.0 | 20.1 | 27.3 | 23.3 |
| 54 | BH 411520 | 20.9 | 22.5 | 25.2 | 21.0 | 26.6 | 19.5 | 24.5 | 22.9 | 25.8 | 20.3 | 26.5 | 24.2 | 22.6 | 25.0 | 20.8 | 24.6 | 23.2 |
| 55 | VEH 12-1 | 21.0 | 21.0 | 25.0 | 20.7 | 26.7 | 21.2 | 24.0 | 22.8 | 25.4 | 27.1 | 27.6 | 26.7 | 23.6 | 26.8 | 21.2 | 33.7 | 26.3 |
| 56 | X35D620 | 20.3 | 24.0 | 26.1 | 21.5 | 25.2 | 21.7 | 24.0 | 23.2 | 25.7 | 23.8 | 27.0 | 25.5 | 23.3 | 22.0 | 19.4 | 32.2 | 24.2 |
| 57 | X35D623 | 19.9 | 22.5 | 24.4 | 21.2 | 25.9 | 21.6 | 25.0 | 22.9 | 25.7 | 27.1 | 28.1 | 27.0 | 23.8 | 27.1 | 20.1 | 28.4 | 24.9 |
| 58 | X35D602 | 20.1 | 22.5 | 24.4 | 19.5 | 27.0 | 19.9 | 24.5 | 22.5 | 28.0 | 25.1 | 28.0 | 27.0 | 21.9 | 23.4 | 20.7 | 29.0 | 23.8 |
| 59 | X35D603 | 23.7 | 22.0 | 23.2 | 22.6 | 28.0 | 21.2 | 24.5 | 23.6 | 26.0 | 24.8 | 24.7 | 25.1 | 23.9 | 25.4 | 19.5 | 30.6 | 24.8 |
| 60 | Bio 451 | 22.0 | 21.5 | 22.5 | 21.3 | 27.2 | 20.4 | 24.0 | 22.7 | 28.5 | 25.9 | 27.6 | 27.3 | 22.4 | 24.1 | 22.8 | 32.1 | 25.3 |
| 61 | GWH-0711 | 19.5 | 22.0 | 24.4 | 20.4 | 24.0 | 19.4 | 24.0 | 21.9 | 27.0 | 21.4 | 25.9 | 24.8 | 23.6 | 19.9 | 18.5 | 26.2 | 22.0 |
| 62 | REH-2012-1 | 20.7 | 24.5 | 26.1 | 21.6 | 28.0 | 20.6 | 24.0 | 23.6 | 26.1 | 24.8 | 27.8 | 26.2 | 23.7 | 22.8 | 21.6 | 29.7 | 24.4 |
| 63 | REH-2012-2 | 20.1 | 22.5 | 24.8 | 21.4 | 26.8 | 20.3 | 25.0 | 23.0 | 25.3 | 23.8 | 28.4 | 25.8 | 23.6 | 21.7 | 20.1 | 30.9 | 24.0 |
| 64 | REH-2012-4 | 20.1 | 22.5 | 20.9 | 21.6 | 25.2 | 19.9 | 24.0 | 22.0 | 26.2 | 26.6 | 28.4 | 27.0 | 23.0 | 30.0 | 20.7 | 29.0 | 25.7 |
| 65 | JH 31595 | 20.3 | 21.5 | 26.6 | 18.8 | 25.5 | 21.8 | 23.5 | 22.6 | 25.3 | 22.0 | 27.6 | 24.9 | 22.7 | 25.5 | 22.0 | 30.8 | 25.2 |
| 66 | JH 31537 | 20.6 | 22.0 | 24.4 | 21.5 | 28.5 | 19.2 | 24.5 | 22.9 | 25.1 | 24.7 | 27.3 | 25.7 | 23.3 | 22.5 | 20.3 | 26.3 | 23.1 |
| 67 | JH 31604 | 20.7 | 23.0 | 22.7 | 18.9 | 28.0 | 20.1 | 24.0 | 22.5 | 27.3 | 24.4 | 28.7 | 26.8 | 23.1 | 26.2 | 24.2 | 28.8 | 25.6 |
| 68 | JH 31600(JH 31627) | 20.3 | 21.5 | 22.1 | 21.4 | 26.2 | 20.2 | 24.0 | 22.2 | 27.6 | 23.8 | 29.5 | 27.0 | 22.8 | 22.5 | 21.1 | 29.7 | 24.0 |

Table No. 2 (Continued)

| MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 69 | JH 31244 | 20.6 | 23.0 | 24.1 | 21.2 | 24.8 | 22.1 | 24.5 | 22.9 | 24.8 | 25.2 | 27.6 | 25.8 | 24.3 | 21.9 | 21.3 | 30.3 | 24.4 |
| 70 | JH 31554 | 20.5 | 21.0 | 25.6 | 21.4 | 26.3 | 22.3 | 24.5 | 23.1 | 25.9 | 24.2 | 28.0 | 26.0 | 23.9 | 27.8 | 20.4 | 30.9 | 25.7 |
| 71 | AH-1226 | 20.7 | 23.5 | 23.2 | 20.4 | 28.2 | 21.3 | 25.0 | 23.2 | 24.5 | 21.8 | 28.9 | 25.0 | 22.5 | 22.6 | 18.9 | 27.3 | 22.8 |
| 72 | AH-1262 | 20.7 | 23.5 | 25.4 | 20.9 | 26.5 | 19.7 | 24.5 | 23.0 | 26.2 | 24.1 | 29.6 | 26.6 | 23.1 | 25.8 | 21.4 | 31.3 | 25.4 |
| 73 | MMH-2-12-13 | 21.3 | 23.0 | 27.3 | 22.3 | 26.5 | 19.5 | 24.5 | 23.5 | 27.7 | 24.8 | 28.0 | 26.8 | 23.1 | 22.1 | 22.1 | 26.3 | 23.4 |
| 74 | MMH-3-12-13 | 21.4 | 22.0 | 24.8 | 21.8 | 27.9 | 21.2 | 24.0 | 23.3 | 26.3 | 23.7 | 26.8 | 25.6 | 22.6 | 24.9 | 22.1 | 32.9 | 25.6 |
| 75 | MMH-4-12-13 | 20.3 | 21.5 | 25.0 | 21.8 | 30.3 | 21.7 | 24.0 | 23.5 | 26.1 | 23.6 | 28.3 | 26.0 | 22.9 | 24.3 | 20.6 | 29.3 | 24.2 |
| 76 | MMH-5-12-13 | 20.2 | 21.5 | 21.1 | 21.3 | 28.2 | 21.6 | 24.0 | 22.5 | 26.9 | 21.9 | 27.3 | 25.4 | 22.4 | 20.9 | 18.3 | 28.1 | 22.4 |
| 77 | HKH 338 | 20.4 | 21.5 | 22.5 | 21.5 | 24.9 | 19.9 | 25.0 | 22.2 | 25.7 | 22.7 | 28.5 | 25.6 | 21.2 | 24.2 | 23.1 | 25.9 | 23.6 |
| 78 | HKH 339 | 20.1 | 22.0 | 23.8 | 21.5 | 28.4 | 21.2 | 24.0 | 23.0 | 25.3 | 22.5 | 28.3 | 25.3 | 22.4 | 22.2 | 20.9 | 26.6 | 23.0 |
| 79 | HKH 340 | 20.4 | 23.0 | 23.5 | 19.7 | 29.9 | 20.4 | 24.5 | 23.0 | 24.5 | 24.1 | 28.4 | 25.7 | 22.9 | 20.7 | 22.9 | 31.4 | 24.4 |
| 80 | KNMH-4302 | 20.4 | 21.5 | 21.6 | 22.4 | 29.6 | 19.4 | 24.5 | 22.7 | 26.1 | 24.8 | 27.1 | 26.0 | 23.3 | 24.9 | 22.5 | 31.6 | 25.6 |
| 81 | KNMH-4303 | 20.3 | 23.0 | 23.2 | 23.1 | 25.8 | 20.6 | 24.5 | 22.9 | 27.9 | 26.3 | 28.6 | 27.6 | 21.2 | 24.1 | 18.5 | 30.9 | 23.7 |
| 82 | KNMH-4304 | 20.5 | 21.0 | 25.8 | 21.3 | 27.0 | 20.3 | 24.5 | 22.9 | 26.6 | 25.8 | 29.6 | 27.3 | 21.5 | 27.9 | 21.4 | 27.6 | 24.6 |
| 83 | KNMH-4305 | 20.1 | 23.5 | 27.9 | 21.3 | 24.4 | 19.9 | 26.0 | 23.3 | 26.3 | 26.9 | 29.1 | 27.4 | 24.4 | 26.7 | 22.9 | 32.5 | 26.6 |
| 84 | KNMH-4010131 | 20.3 | 23.5 | 22.3 | 21.4 | 28.7 | 21.8 | 24.5 | 23.2 | 26.1 | 28.9 | 27.7 | 27.6 | 23.6 | 24.9 | 21.3 | 31.7 | 25.4 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 20.1 | 23.0 | 26.8 | 21.8 | 26.7 | 19.2 | 24.0 | 23.1 | 26.9 | 22.9 | 28.2 | 26.0 | 21.9 | 21.5 | 17.4 | 28.2 | 22.2 |
| 86 | BIO9637 | 20.4 | 23.5 | 21.6 | 23.1 | 27.8 | 20.1 | 24.0 | 22.9 | 26.9 | 24.0 | 26.8 | 25.9 | 24.2 | 27.4 | 18.5 | 28.9 | 24.7 |
| 87 | HM12 | 21.1 | 23.0 | 26.7 | 21.8 | 27.7 | 20.2 | 26.0 | 23.8 | 27.1 | 24.9 | 28.4 | 26.8 | 22.2 | 19.4 | 21.0 | 31.7 | 23.6 |
| Loc. Mean | | 20.7 | 22.6 | 24.2 | 21.5 | 27.1 | 20.6 | 24.5 | 23.0 | 26.2 | 24.6 | 28.1 | 26.3 | 23.5 | 24.4 | 21.1 | 29.3 | 24.6 |
| C.D. (5%) | | 0.75 | 2.79 | 0.00 | 0.79 | 2.02 | 1.46 | 1.15 | 1.43 | 0.76 | 1.07 | 1.72 | 1.99 | 0.92 | 2.41 | 4.37 | 2.45 | 2.34 |
| C.V. (%) | | 2.26 | 6.21 | 0.00 | 2.28 | 4.62 | 4.39 | 2.91 | 5.91 | 1.80 | 2.69 | 3.80 | 4.70 | 2.43 | 6.11 | 10.43 | 5.20 | 6.84 |
| F (Prob) | | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 30.0%

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | ZN 5 | OV'L |
|-------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | CHHI | UDAI | Mean | Mean |
| 1 | QMH-29134 | 19.2 | 21.2 | 19.4 | 11.1 | 11.6 | 15.7 | 23.1 | 13.0 | 9.9 | 16.6 | 16.0 | 21.9 | 19.0 | 21.0 |
| 2 | QMH-2916 | 16.9 | 20.2 | 21.8 | 7.4 | 14.0 | 15.9 | 22.3 | 16.5 | 9.9 | 17.2 | 16.8 | 22.6 | 19.7 | 21.3 |
| 3 | EHL-3412 | 20.3 | 22.1 | 19.6 | 11.8 | 12.0 | 15.5 | 25.3 | 13.4 | 10.3 | 17.3 | 18.1 | 24.7 | 21.4 | 21.8 |
| 4 | EHL-1111 | 18.3 | 19.2 | 23.0 | 8.7 | 11.7 | 14.5 | 22.1 | 12.5 | 9.8 | 16.4 | 14.7 | 22.3 | 18.5 | 21.0 |
| 5 | EHL-3512 | 18.3 | 18.6 | 24.0 | 10.3 | 13.5 | 16.0 | 21.7 | 13.5 | 10.0 | 16.9 | 14.8 | 24.2 | 19.5 | 21.4 |
| 6 | S-6750 | 23.2 | 22.1 | 23.5 | 7.5 | 13.3 | 17.2 | 26.6 | 13.5 | 10.9 | 18.8 | 18.4 | 24.9 | 21.6 | 21.9 |
| 7 | RMH-932 | 21.1 | 19.6 | 18.9 | 11.1 | 12.0 | 16.2 | 25.4 | 16.8 | 9.9 | 17.5 | 14.1 | 22.4 | 18.2 | 22.1 |
| 8 | RMH-3591 | 18.8 | 21.8 | 23.0 | 8.3 | 11.8 | 17.2 | 24.6 | 13.5 | 9.6 | 17.5 | 16.9 | 22.1 | 19.5 | 22.0 |
| 9 | PHM-34(W) | 17.7 | 19.8 | 19.3 | 11.1 | 11.3 | 15.5 | 23.4 | 12.5 | 10.5 | 16.2 | 17.2 | 21.7 | 19.4 | 21.2 |
| 10 | PHM-12(Y) | 16.2 | 18.6 | 22.1 | 8.8 | 10.7 | 15.9 | 22.5 | 11.9 | 10.0 | 16.0 | 12.9 | 21.3 | 17.1 | 20.6 |
| 11 | LG-3271 | 15.0 | 17.8 | 22.1 | 11.7 | 12.5 | 15.1 | 22.1 | 12.2 | 10.0 | 15.8 | 11.2 | 23.3 | 17.2 | 20.4 |
| 12 | LG-3282 | 21.3 | 20.9 | 25.3 | 8.0 | 11.1 | 15.3 | 22.5 | 13.8 | 10.5 | 17.6 | 15.8 | 24.3 | 20.1 | 21.4 |
| 13 | FCH-85 | 18.0 | 23.5 | 24.3 | 13.1 | 11.3 | 18.0 | 22.7 | 12.9 | 10.8 | 17.7 | 13.4 | 24.3 | 18.8 | 21.7 |
| 14 | FCH-184 | 16.1 | 20.5 | 23.6 | 8.4 | 11.5 | 15.6 | 23.4 | 12.8 | 10.6 | 16.7 | 17.3 | 22.3 | 19.8 | 21.7 |
| 15 | FCH-11231 | 21.7 | 21.1 | 24.5 | 12.4 | 14.3 | 16.4 | 24.7 | 11.9 | 10.0 | 18.1 | 16.9 | 20.9 | 18.9 | 22.1 |
| 16 | KMH-6 | 16.7 | 17.6 | 20.5 | 10.0 | 12.3 | 16.8 | 22.5 | 12.4 | 10.0 | 16.1 | 14.2 | 19.3 | 16.7 | 20.3 |
| 17 | KMH-84 | 18.1 | 17.5 | 22.5 | 9.4 | 12.1 | 14.8 | 21.8 | 12.0 | 10.1 | 16.1 | 14.5 | 25.3 | 19.9 | 20.8 |
| 18 | KMH-6681 | 23.3 | 23.3 | 24.1 | 12.1 | 12.5 | 16.1 | 25.0 | 13.8 | 10.9 | 18.6 | 18.4 | 28.5 | 23.5 | 22.4 |
| 19 | KMH-5951 | 18.0 | 22.6 | 23.4 | 8.7 | 10.7 | 17.5 | 24.0 | 13.5 | 10.3 | 17.5 | 12.4 | 24.0 | 18.2 | 21.6 |
| 20 | JKMH-4545 | 15.9 | 21.9 | 21.1 | 9.0 | 10.0 | 15.5 | 23.5 | 13.0 | 10.3 | 16.4 | 14.6 | 24.8 | 19.7 | 21.0 |
| 21 | SAFAL X-2 | 24.3 | 21.7 | 24.9 | 6.2 | 12.0 | 14.2 | 24.4 | 13.8 | 10.0 | 18.1 | 17.2 | 24.3 | 20.7 | 22.0 |
| 22 | Kuber Shakthi | 20.2 | 20.1 | 21.1 | 11.0 | 14.8 | 15.1 | 23.7 | 14.6 | 10.0 | 17.4 | 16.5 | 27.7 | 22.1 | 21.7 |
| 23 | DAS-MH-304 | 16.4 | 20.5 | 20.7 | 9.5 | 10.3 | 17.1 | 22.5 | 13.0 | 9.7 | 16.2 | 14.7 | 18.3 | 16.5 | 20.6 |
| 24 | DAS-MH-305 | 23.9 | 20.8 | 21.8 | 10.8 | 13.1 | 16.9 | 25.5 | 12.9 | 10.5 | 18.2 | 17.5 | 23.1 | 20.3 | 21.8 |
| 25 | KH-517 Gold | 20.5 | 22.9 | 26.5 | 10.9 | 12.9 | 17.2 | 24.9 | 13.8 | 10.2 | 18.6 | 16.2 | 29.1 | 22.6 | 22.2 |
| 26 | KH-2248 | 21.2 | 21.4 | 20.5 | 10.4 | 11.4 | 15.8 | 23.0 | 13.2 | 10.4 | 17.1 | 11.6 | 25.5 | 18.5 | 21.6 |
| 27 | TH-38 | 17.9 | 21.4 | 26.2 | 9.1 | 11.5 | 16.1 | 23.1 | 12.3 | 10.3 | 17.3 | 14.1 | 26.0 | 20.0 | 21.5 |
| 28 | MAHABEEJ-1202(Nirdhar) | 18.3 | 20.8 | 24.1 | 8.1 | 13.3 | 16.2 | 24.7 | 13.1 | 10.7 | 17.6 | 16.4 | 23.5 | 19.9 | 21.2 |
| 29 | KDMH-2705 | 17.4 | 18.5 | 23.8 | 9.0 | 11.6 | 15.3 | 22.4 | 12.2 | 10.0 | 16.4 | 15.4 | 19.8 | 17.6 | 21.0 |
| 30 | EH-2205 | 20.2 | 21.0 | 23.8 | 9.0 | 11.4 | 16.4 | 22.9 | 12.0 | 10.0 | 17.2 | 15.4 | 19.2 | 17.3 | 21.1 |
| 31 | EH-2208 | 24.4 | 21.1 | 26.3 | 8.6 | 11.6 | 16.7 | 26.1 | 12.4 | 9.9 | 18.5 | 16.4 | 18.1 | 17.2 | 21.8 |
| 32 | EH-2240 | 19.9 | 19.6 | 22.1 | 11.0 | 11.4 | 15.3 | 22.7 | 11.3 | 10.8 | 16.6 | 15.6 | 17.6 | 16.6 | 20.8 |
| 33 | VaMH-08015 | 16.1 | 20.3 | 28.6 | 11.0 | 10.6 | 16.4 | 22.4 | 12.5 | 10.4 | 17.1 | 14.6 | 27.0 | 20.8 | 21.4 |
| 34 | PMH-209 | 17.4 | 19.8 | 21.8 | 12.2 | 12.3 | 15.3 | 22.6 | 12.0 | 9.4 | 16.3 | 14.6 | 22.5 | 18.5 | 21.1 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | ZN 5 | OV'L |
|-------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | CHHI | UDAI | Mean | Mean |
| 35 | PRMH-2177 | 19.0 | 21.6 | 22.4 | 8.7 | 13.5 | 15.4 | 21.3 | 12.8 | 9.8 | 17.0 | 12.5 | 23.3 | 17.9 | 20.8 |
| 36 | NMH-1289 | 20.5 | 20.9 | 25.4 | 13.6 | 10.9 | 16.1 | 23.7 | 11.9 | 11.0 | 17.5 | 14.5 | 18.9 | 16.7 | 21.1 |
| 37 | HTMH-5402 | 20.7 | 23.5 | 27.5 | 13.0 | 13.2 | 15.4 | 26.0 | 15.5 | 10.1 | 19.0 | 19.5 | 29.9 | 24.7 | 23.4 |
| 38 | CMH 10-488 | 22.6 | 21.5 | 27.8 | 12.5 | 13.8 | 15.6 | 24.4 | 13.4 | 10.2 | 18.6 | 16.4 | 24.0 | 20.2 | 22.2 |
| 39 | CMH 10-547 | 22.8 | 21.3 | 24.9 | 8.5 | 11.8 | 16.5 | 25.3 | 13.3 | 10.9 | 18.3 | 17.3 | 28.3 | 22.8 | 22.1 |
| 40 | CMH 11-582 | 22.6 | 21.3 | 23.6 | 11.3 | 12.3 | 15.7 | 26.0 | 15.6 | 10.7 | 18.5 | 18.5 | 22.3 | 20.4 | 21.9 |
| 41 | CMH 11-603 | 24.2 | 22.5 | 23.9 | 10.7 | 13.4 | 16.8 | 25.2 | 14.7 | 10.1 | 18.8 | 16.8 | 27.2 | 22.0 | 22.6 |
| 42 | CMH 11-617 | 23.8 | 22.0 | 23.8 | 10.1 | 13.3 | 16.2 | 25.2 | 12.2 | 10.2 | 18.3 | 18.2 | 23.5 | 20.9 | 22.3 |
| 43 | IM8478 | 23.9 | 23.5 | 23.7 | 11.3 | 11.9 | 16.5 | 26.2 | 16.0 | 10.0 | 18.9 | 18.2 | 21.8 | 20.0 | 22.4 |
| 44 | IM8479 | 24.2 | 23.5 | 25.9 | 10.5 | 11.4 | 16.6 | 24.1 | 15.8 | 9.8 | 18.9 | 17.9 | 26.1 | 22.0 | 22.9 |
| 45 | IM8581 | 22.5 | 23.3 | 24.0 | 10.2 | 14.0 | 16.8 | 25.6 | 12.3 | 10.8 | 18.6 | 17.7 | 23.3 | 20.5 | 22.0 |
| 46 | IM 7519 | 20.4 | 23.6 | 25.4 | 10.6 | 12.1 | 16.6 | 25.9 | 13.0 | 10.2 | 18.4 | 18.2 | 23.6 | 20.9 | 22.6 |
| 47 | IM 7501 | 15.5 | 21.2 | 23.5 | 10.6 | 12.3 | 15.5 | 24.2 | 12.8 | 9.6 | 16.8 | 13.7 | 22.2 | 18.0 | 21.3 |
| 48 | BH 41015 | 17.0 | 23.2 | 25.0 | 7.9 | 11.8 | 17.3 | 24.7 | 12.3 | 9.9 | 17.6 | 14.3 | 22.6 | 18.4 | 21.7 |
| 49 | BH 41030 | 21.7 | 19.2 | 20.5 | 12.5 | 11.1 | 15.8 | 23.2 | 13.9 | 9.8 | 16.9 | 17.1 | 22.1 | 19.6 | 21.6 |
| 50 | BH 41145 | 20.5 | 21.6 | 24.1 | 9.7 | 12.5 | 15.5 | 22.6 | 12.6 | 9.6 | 17.4 | 17.3 | 25.7 | 21.5 | 22.3 |
| 51 | BH 41150 | 20.2 | 21.9 | 26.6 | 7.8 | 13.0 | 16.8 | 23.7 | 13.3 | 10.5 | 18.2 | 14.1 | 24.7 | 19.4 | 21.9 |
| 52 | BH 411736 | 19.8 | 19.5 | 22.8 | 5.8 | 11.3 | 14.8 | 22.5 | 12.2 | 10.4 | 16.7 | 15.0 | 25.9 | 20.5 | 21.1 |
| 53 | BH 411737 | 16.7 | 17.6 | 23.9 | 9.4 | 11.1 | 14.9 | 19.9 | 13.7 | 9.8 | 15.9 | 15.2 | 24.1 | 19.7 | 20.9 |
| 54 | BH 411520 | 17.1 | 15.6 | 21.4 | 4.5 | 11.8 | 15.0 | 19.5 | 11.3 | 10.5 | 15.3 | 11.8 | 19.9 | 15.9 | 20.0 |
| 55 | VEH 12-1 | 19.2 | 22.3 | 26.3 | 10.1 | 12.4 | 17.8 | 25.2 | 13.3 | 10.3 | 18.3 | 17.8 | 25.4 | 21.6 | 22.3 |
| 56 | X35D620 | 20.8 | 19.5 | 25.6 | 12.4 | 14.0 | 15.8 | 24.3 | 13.3 | 10.1 | 17.9 | 12.5 | 26.0 | 19.2 | 21.6 |
| 57 | X35D623 | 17.7 | 23.5 | 27.2 | 9.0 | 10.2 | 16.0 | 23.9 | 12.9 | 9.4 | 17.6 | 14.4 | 23.0 | 18.7 | 21.6 |
| 58 | X35D602 | 22.0 | 21.0 | 26.2 | 12.0 | 10.7 | 17.2 | 24.0 | 13.5 | 10.8 | 18.2 | 16.0 | 21.7 | 18.8 | 21.5 |
| 59 | X35D603 | 20.9 | 18.8 | 21.9 | 8.7 | 10.6 | 15.1 | 22.6 | 13.0 | 9.9 | 16.6 | 17.4 | 19.4 | 18.4 | 21.2 |
| 60 | Bio 451 | 21.9 | 19.7 | 20.2 | 8.3 | 12.6 | 15.1 | 24.5 | 12.1 | 9.9 | 17.0 | 13.7 | 24.5 | 19.1 | 21.5 |
| 61 | GWH-0711 | 17.3 | 14.0 | 20.1 | 5.3 | 10.5 | 14.5 | 18.7 | 11.7 | 10.5 | 14.6 | 11.5 | 23.5 | 17.5 | 19.5 |
| 62 | REH-2012-1 | 17.9 | 21.4 | 22.5 | 7.6 | 13.8 | 17.1 | 25.2 | 14.6 | 9.6 | 17.7 | 14.7 | 21.7 | 18.2 | 21.7 |
| 63 | REH-2012-2 | 19.0 | 21.7 | 17.4 | 8.6 | 11.6 | 15.2 | 22.2 | 13.3 | 9.4 | 16.2 | 17.1 | 28.7 | 22.9 | 21.2 |
| 64 | REH-2012-4 | 17.8 | 22.4 | 24.0 | 11.1 | 12.4 | 16.3 | 23.4 | 13.4 | 10.4 | 17.5 | 17.5 | 23.0 | 20.2 | 21.6 |
| 65 | JH 31595 | 18.9 | 21.2 | 19.5 | 11.9 | 11.4 | 14.5 | 23.2 | 15.2 | 10.5 | 16.8 | 15.3 | 24.3 | 19.8 | 21.1 |
| 66 | JH 31537 | 19.5 | 19.6 | 24.6 | 11.7 | 10.9 | 15.7 | 23.8 | 12.7 | 10.1 | 17.1 | 13.8 | 20.9 | 17.4 | 20.9 |
| 67 | JH 31604 | 21.4 | 23.7 | 23.0 | 12.9 | 13.2 | 16.3 | 23.5 | 12.3 | 10.2 | 17.9 | 16.5 | 25.9 | 21.2 | 21.9 |
| 68 | JH 31600(JH 31627) | 23.7 | 21.1 | 22.3 | 7.7 | 12.5 | 15.4 | 20.1 | 12.9 | 10.5 | 17.3 | 17.0 | 21.2 | 19.1 | 21.2 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | ZN 5 | OVL |
|-------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | | | Mean | CHHI | UDAI | Mean | Mean |
| 69 | JH 31244 | 19.6 | 19.9 | 21.4 | 11.1 | 12.5 | 15.7 | 22.6 | 12.5 | 9.7 | 16.7 | 16.9 | 24.4 | 20.6 | 21.3 |
| 70 | JH 31554 | 21.3 | 20.9 | 26.7 | 12.1 | 10.9 | 15.7 | 23.7 | 12.9 | 10.7 | 17.8 | 16.4 | 23.1 | 19.7 | 21.9 |
| 71 | AH-1226 | 15.9 | 16.7 | 21.4 | 9.8 | 11.9 | 13.7 | 21.4 | 11.7 | 10.2 | 15.3 | 14.3 | 25.4 | 19.9 | 20.5 |
| 72 | AH-1262 | 20.9 | 19.8 | 25.2 | 10.9 | 11.8 | 15.9 | 24.1 | 13.4 | 9.9 | 17.6 | 16.0 | 20.9 | 18.4 | 21.7 |
| 73 | MMH-2-12-13 | 21.0 | 21.2 | 22.2 | 7.8 | 12.2 | 16.4 | 22.9 | 12.1 | 10.5 | 17.3 | 16.8 | 22.3 | 19.5 | 21.5 |
| 74 | MMH-3-12-13 | 17.5 | 21.5 | 21.8 | 8.7 | 11.5 | 15.8 | 22.8 | 11.8 | 10.0 | 16.6 | 16.7 | 21.5 | 19.1 | 21.4 |
| 75 | MMH-4-12-13 | 20.2 | 21.2 | 21.2 | 12.6 | 12.7 | 17.1 | 24.3 | 13.0 | 10.6 | 17.5 | 18.2 | 25.4 | 21.8 | 21.8 |
| 76 | MMH-5-12-13 | 16.6 | 19.5 | 19.8 | 6.2 | 10.3 | 15.4 | 20.6 | 12.0 | 9.7 | 15.5 | 14.6 | 24.7 | 19.6 | 20.3 |
| 77 | HKH 338 | 20.3 | 20.3 | 24.2 | 8.6 | 10.9 | 15.5 | 22.5 | 12.5 | 10.6 | 17.1 | 14.6 | 23.1 | 18.8 | 20.9 |
| 78 | HKH 339 | 17.5 | 20.7 | 25.1 | 9.9 | 12.4 | 14.9 | 21.9 | 14.0 | 10.3 | 17.1 | 14.7 | 21.6 | 18.1 | 20.9 |
| 79 | HKH 340 | 20.7 | 21.7 | 24.1 | 8.9 | 11.9 | 15.5 | 22.6 | 11.9 | 9.6 | 17.2 | 14.8 | 23.1 | 18.9 | 21.3 |
| 80 | KNMH-4302 | 18.4 | 18.3 | 19.4 | 9.4 | 11.6 | 15.4 | 22.5 | 12.9 | 10.1 | 16.1 | 13.3 | 22.3 | 17.8 | 21.0 |
| 81 | KNMH-4303 | 22.3 | 19.5 | 23.8 | 10.9 | 14.1 | 15.2 | 23.1 | 13.2 | 10.3 | 17.7 | 18.5 | 23.4 | 21.0 | 21.7 |
| 82 | KNMH-4304 | 19.9 | 21.1 | 23.9 | 11.6 | 13.1 | 15.6 | 22.8 | 14.0 | 10.4 | 17.6 | 16.3 | 25.3 | 20.8 | 21.8 |
| 83 | KNMH-4305 | 17.7 | 22.7 | 21.7 | 13.3 | 11.9 | 16.2 | 23.6 | 13.6 | 10.0 | 17.1 | 19.0 | 19.9 | 19.4 | 22.0 |
| 84 | KNMH-4010131 | 22.1 | 20.9 | 23.6 | 11.8 | 12.6 | 16.2 | 24.7 | 12.7 | 10.3 | 17.9 | 18.4 | 22.1 | 20.2 | 22.1 |
| | CHECKS | | | | | | | | | | | | | | |
| 85 | PMH4 | 19.2 | 20.3 | 19.0 | 8.5 | 12.3 | 14.6 | 22.8 | 12.4 | 10.7 | 16.4 | 17.5 | 25.0 | 21.3 | 20.9 |
| 86 | BIO9637 | 19.3 | 21.4 | 20.8 | 9.8 | 12.8 | 15.3 | 23.8 | 13.9 | 10.2 | 17.2 | 17.5 | 20.4 | 19.0 | 21.3 |
| 87 | HM12 | 16.2 | 21.4 | 21.0 | 13.1 | 10.6 | 15.8 | 24.4 | 13.2 | 10.2 | 16.6 | 17.5 | 20.8 | 19.1 | 21.3 |
| | Loc. Mean | 19.7 | 20.7 | 23.1 | 10.0 | 12.0 | 15.9 | 23.5 | 13.1 | 10.2 | 17.3 | 15.8 | 23.3 | 19.6 | 21.5 |
| | C.D. (5%) | 1.88 | 1.58 | 1.65 | 4.82 | 1.42 | 0.81 | 1.76 | 1.43 | 0.56 | 1.36 | 1.42 | 0.75 | 4.21 | 0.86 |
| | C.V. (%) | 5.92 | 4.73 | 4.44 | 30.04 | 7.30 | 3.17 | 4.67 | 6.78 | 3.42 | 8.01 | 5.59 | 2.01 | 10.83 | 7.06 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 30.0%

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|-------|------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 58.3 | 61.0 | 62.0 | 55.3 | 53.7 | 61.0 | 54.3 | 58.0 | 50.0 | 51.0 | 56.3 | 52.4 | 55.3 | 53.7 | 52.0 | 57.0 | 54.5 |
| 2 | QMH-2916 | 55.7 | 58.0 | 60.3 | 52.3 | 54.0 | 60.3 | 53.0 | 56.2 | 49.0 | 46.0 | 55.3 | 50.1 | 56.0 | 52.3 | 72.5 | 55.0 | 59.0 |
| 3 | EHL-3412 | 58.7 | 62.5 | 60.0 | 56.3 | 55.0 | 61.0 | 52.3 | 58.0 | 52.0 | 51.0 | 57.7 | 53.6 | 60.7 | 54.3 | 56.0 | 62.0 | 58.3 |
| 4 | EHL-1111 | 53.3 | 56.0 | 57.0 | 52.3 | 49.3 | 55.0 | 52.0 | 53.6 | 52.0 | 48.7 | 55.3 | 52.0 | 56.0 | 52.7 | 52.0 | 57.3 | 54.5 |
| 5 | EHL-3512 | 56.7 | 58.5 | 57.0 | 55.0 | 51.7 | 57.3 | 52.0 | 55.5 | 52.0 | 48.0 | 51.3 | 50.4 | 56.7 | 51.3 | 51.5 | 50.7 | 52.5 |
| 6 | S-6750 | 60.3 | 59.5 | 60.0 | 56.3 | 52.0 | 62.7 | 52.7 | 57.6 | 50.0 | 50.0 | 56.3 | 52.1 | 60.7 | 51.7 | 53.0 | 53.3 | 54.7 |
| 7 | RMH-932 | 59.0 | 62.0 | 58.7 | 55.0 | 54.3 | 61.3 | 53.0 | 57.6 | 50.0 | 52.0 | 60.0 | 54.0 | 60.7 | 52.3 | 54.5 | 60.0 | 56.9 |
| 8 | RMH-3591 | 60.0 | 61.0 | 59.7 | 56.0 | 52.0 | 62.3 | 52.7 | 57.7 | 53.0 | 51.0 | 53.3 | 52.4 | 60.7 | 53.3 | 53.0 | 56.7 | 55.9 |
| 9 | PHM-34(W) | 52.0 | 56.0 | 52.0 | 52.0 | 46.0 | 55.7 | 50.3 | 52.0 | 53.0 | 45.3 | 53.7 | 50.7 | 47.7 | 49.7 | 51.5 | 51.7 | 50.1 |
| 10 | PHM-12(Y) | 55.0 | 57.0 | 55.0 | 54.7 | 49.3 | 55.0 | 52.7 | 54.1 | 50.0 | 47.0 | 56.0 | 51.0 | 51.0 | 50.0 | 52.5 | 52.3 | 51.5 |
| 11 | LG-3271 | 54.3 | 57.5 | 55.0 | 50.7 | 48.0 | 53.7 | 51.7 | 53.0 | 53.0 | 45.7 | 53.3 | 50.7 | 52.7 | 49.3 | 52.0 | 52.3 | 51.6 |
| 12 | LG-3282 | 57.3 | 59.0 | 57.0 | 58.7 | 50.7 | 59.7 | 52.3 | 56.4 | 51.0 | 50.3 | 52.3 | 51.2 | 60.7 | 53.0 | 54.0 | 55.7 | 55.8 |
| 13 | FCH-85 | 60.0 | 60.0 | 61.7 | 55.7 | 55.0 | 62.0 | 54.7 | 58.4 | 50.0 | 49.7 | 60.3 | 53.3 | 54.7 | 53.3 | 54.0 | 57.3 | 54.8 |
| 14 | FCH-184 | 54.3 | 57.0 | 58.3 | 51.7 | 51.3 | 58.7 | 52.3 | 54.8 | 54.3 | 46.3 | 53.3 | 51.3 | 56.7 | 51.0 | 50.5 | 53.7 | 53.0 |
| 15 | FCH-11231 | 60.3 | 63.5 | 60.7 | 56.3 | 56.0 | 64.3 | 53.3 | 59.2 | 50.0 | 51.7 | 57.7 | 53.1 | 60.7 | 51.3 | 53.0 | 57.3 | 55.6 |
| 16 | KMH-6 | 52.7 | 54.5 | 51.7 | 50.7 | 46.0 | 52.3 | 50.0 | 51.1 | 50.0 | 44.3 | 49.7 | 48.0 | 52.7 | 49.7 | 49.0 | 52.3 | 50.9 |
| 17 | KMH-84 | 55.3 | 57.0 | 60.0 | 50.7 | 49.3 | 56.7 | 53.0 | 54.6 | 54.0 | 46.0 | 54.3 | 51.4 | 54.7 | 50.0 | 52.0 | 52.0 | 52.2 |
| 18 | KMH-6681 | 53.0 | 56.5 | 58.0 | 52.0 | 49.3 | 54.7 | 52.0 | 53.6 | 50.0 | 44.7 | 57.0 | 50.6 | 52.0 | 50.0 | 51.5 | 54.3 | 52.0 |
| 19 | KMH-5951 | 55.7 | 57.0 | 54.7 | 53.3 | 51.0 | 55.7 | 52.7 | 54.3 | 52.0 | 46.7 | 55.3 | 51.3 | 54.7 | 50.3 | 51.5 | 51.7 | 52.0 |
| 20 | JKMH-4545 | 55.0 | 57.5 | 53.3 | 51.3 | 50.7 | 55.3 | 52.7 | 53.7 | 52.0 | 46.7 | 50.7 | 49.8 | 55.3 | 50.0 | 50.0 | 48.7 | 51.0 |
| 21 | SAFAL X-2 | 56.7 | 57.5 | 57.3 | 53.7 | 53.7 | 60.0 | 54.0 | 56.1 | 53.0 | 48.0 | 58.7 | 53.2 | 50.7 | 50.0 | 53.0 | 57.7 | 52.8 |
| 22 | Kuber Shakthi | 57.3 | 58.5 | 58.7 | 60.7 | 51.7 | 56.7 | 52.3 | 56.5 | 53.3 | 52.0 | 56.7 | 54.0 | 56.7 | 53.0 | 52.5 | 55.3 | 54.4 |
| 23 | DAS-MH-304 | 56.0 | 60.0 | 56.7 | 52.3 | 53.7 | 56.3 | 53.7 | 55.5 | 50.0 | 46.3 | 54.3 | 50.2 | 54.7 | 51.3 | 53.0 | 51.0 | 52.5 |
| 24 | DAS-MH-305 | 59.0 | 58.0 | 60.0 | 53.0 | 53.7 | 61.7 | 53.0 | 56.9 | 51.0 | 49.7 | 54.7 | 51.8 | 56.7 | 51.3 | 52.5 | 55.7 | 54.0 |
| 25 | KH-517 Gold | 56.0 | 57.0 | 56.7 | 52.0 | 50.3 | 59.0 | 52.7 | 54.8 | 50.0 | 48.7 | 50.7 | 49.8 | 50.7 | 51.7 | 51.5 | 51.3 | 51.3 |
| 26 | KH-2248 | 56.7 | 59.0 | 58.7 | 56.0 | 52.3 | 59.7 | 53.3 | 56.5 | 50.0 | 51.0 | 54.7 | 51.9 | 56.7 | 51.3 | 52.5 | 56.3 | 54.2 |
| 27 | TH-38 | 58.7 | 60.0 | 62.7 | 54.0 | 54.7 | 63.3 | 54.0 | 58.2 | 52.0 | 51.0 | 56.3 | 53.1 | 60.7 | 52.7 | 53.0 | 57.0 | 55.8 |
| 28 | MAHABEEJ-1202(Nirdhar) | 57.3 | 58.0 | 56.3 | 52.7 | 53.3 | 62.0 | 53.7 | 56.2 | 50.0 | 49.3 | 53.7 | 51.0 | 56.3 | 51.7 | 53.0 | 56.0 | 54.3 |
| 29 | KDMH-2705 | 59.3 | 60.0 | 59.7 | 53.7 | 55.0 | 61.0 | 53.7 | 57.5 | 51.0 | 51.3 | 57.7 | 53.3 | 60.7 | 52.0 | 52.0 | 58.7 | 55.8 |
| 30 | EH-2205 | 54.7 | 57.0 | 57.7 | 52.7 | 51.3 | 57.7 | 54.0 | 55.0 | 51.0 | 49.0 | 59.7 | 53.2 | 52.7 | 51.7 | 51.5 | 52.0 | 52.0 |
| 31 | EH-2208 | 56.7 | 58.5 | 57.0 | 51.7 | 52.7 | 56.3 | 53.3 | 55.2 | 53.0 | 49.0 | 57.3 | 53.1 | 54.0 | 50.0 | 52.5 | 53.0 | 52.4 |
| 32 | EH-2240 | 56.3 | 57.5 | 58.7 | 52.7 | 51.0 | 60.7 | 54.3 | 55.9 | 52.0 | 49.0 | 57.7 | 52.9 | 52.7 | 52.3 | 51.0 | 52.3 | 52.1 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|-------|------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 33 | VaMH-08015 | 57.7 | 59.0 | 61.3 | 58.0 | 55.7 | 62.7 | 53.0 | 58.2 | 51.0 | 51.3 | 58.7 | 53.7 | 56.7 | 52.7 | 53.0 | 54.7 | 54.3 |
| 34 | PMH-209 | 55.7 | 58.0 | 57.0 | 55.7 | 50.0 | 59.0 | 53.3 | 55.5 | 51.7 | 47.7 | 54.3 | 51.2 | 57.7 | 51.3 | 51.0 | 55.3 | 53.8 |
| 35 | PRMH-2177 | 55.7 | 56.5 | 58.3 | 52.7 | 52.7 | 55.7 | 53.0 | 54.9 | 50.0 | 47.3 | 55.7 | 51.0 | 52.7 | 51.0 | 52.5 | 56.7 | 53.2 |
| 36 | NMH-1289 | 53.7 | 57.0 | 58.3 | 54.0 | 51.0 | 56.7 | 53.0 | 54.8 | 50.0 | 49.0 | 54.0 | 51.0 | 55.0 | 52.0 | 53.0 | 52.7 | 53.2 |
| 37 | HTMH-5402 | 61.3 | 60.5 | 60.7 | 56.3 | 57.0 | 64.7 | 54.0 | 59.2 | 51.7 | 51.3 | 54.3 | 52.4 | 56.3 | 51.7 | 53.5 | 56.7 | 54.5 |
| 38 | CMH 10-488 | 59.3 | 59.0 | 63.7 | 56.7 | 56.7 | 62.3 | 54.0 | 58.8 | 52.0 | 52.7 | 57.7 | 54.1 | 59.0 | 53.3 | 53.5 | 53.7 | 54.9 |
| 39 | CMH 10-547 | 57.7 | 61.0 | 60.7 | 53.3 | 58.0 | 63.3 | 53.0 | 58.1 | 50.0 | 51.7 | 54.0 | 51.9 | 57.0 | 53.3 | 53.5 | 52.0 | 54.0 |
| 40 | CMH 11-582 | 57.3 | 62.0 | 60.0 | 54.3 | 54.3 | 61.3 | 52.7 | 57.4 | 50.0 | 48.7 | 59.0 | 52.6 | 57.3 | 52.3 | 54.5 | 52.0 | 54.0 |
| 41 | CMH 11-603 | 59.0 | 63.5 | 58.7 | 57.0 | 55.0 | 64.7 | 53.3 | 58.7 | 52.0 | 50.7 | 55.3 | 52.7 | 59.7 | 54.0 | 54.5 | 55.7 | 56.0 |
| 42 | CMH 11-617 | 58.7 | 61.5 | 59.0 | 55.0 | 55.0 | 62.3 | 54.7 | 58.0 | 51.7 | 51.0 | 50.3 | 51.0 | 58.0 | 51.3 | 53.0 | 53.7 | 54.0 |
| 43 | IM8478 | 59.0 | 60.5 | 59.3 | 56.0 | 55.0 | 60.3 | 53.7 | 57.7 | 50.0 | 51.3 | 55.7 | 52.3 | 58.7 | 52.7 | 53.0 | 54.7 | 54.8 |
| 44 | IM8479 | 60.3 | 60.0 | 61.3 | 57.7 | 55.7 | 63.3 | 54.3 | 59.0 | 52.0 | 51.7 | 60.3 | 54.7 | 58.3 | 53.7 | 53.5 | 58.7 | 56.0 |
| 45 | IM8581 | 59.0 | 60.5 | 59.0 | 55.3 | 55.0 | 62.0 | 55.0 | 58.0 | 51.7 | 50.7 | 59.7 | 54.0 | 56.0 | 52.3 | 53.5 | 52.7 | 53.6 |
| 46 | IM 7519 | 58.7 | 61.0 | 59.3 | 55.3 | 53.0 | 62.3 | 52.3 | 57.4 | 50.0 | 51.3 | 55.7 | 52.3 | 57.0 | 53.7 | 55.5 | 57.0 | 55.8 |
| 47 | IM 7501 | 60.3 | 61.0 | 60.0 | 60.0 | 53.0 | 61.0 | 52.0 | 58.2 | 54.0 | 50.7 | 61.3 | 55.3 | 54.0 | 53.7 | 52.0 | 56.0 | 53.9 |
| 48 | BH 41015 | 58.7 | 59.5 | 59.3 | 58.7 | 55.7 | 63.3 | 52.7 | 58.3 | 51.7 | 51.0 | 55.3 | 52.7 | 55.3 | 53.3 | 52.5 | 55.7 | 54.2 |
| 49 | BH 41030 | 59.7 | 61.0 | 61.3 | 53.7 | 54.3 | 62.7 | 54.0 | 58.1 | 53.3 | 51.3 | 56.7 | 53.8 | 58.0 | 54.0 | 54.5 | 51.7 | 54.5 |
| 50 | BH 41145 | 61.0 | 62.0 | 55.7 | 58.3 | 57.7 | 59.3 | 53.3 | 58.2 | 51.0 | 50.7 | 57.3 | 53.0 | 56.7 | 53.7 | 56.0 | 54.3 | 55.2 |
| 51 | BH 41150 | 58.7 | 58.0 | 55.7 | 51.3 | 52.0 | 60.7 | 52.7 | 55.6 | 52.7 | 50.0 | 54.0 | 52.2 | 57.0 | 51.3 | 53.0 | 52.3 | 53.4 |
| 52 | BH 411736 | 59.7 | 58.5 | 61.3 | 52.7 | 54.7 | 60.7 | 52.7 | 57.2 | 53.0 | 51.3 | 56.7 | 53.7 | 57.0 | 53.0 | 53.0 | 55.7 | 54.7 |
| 53 | BH 411737 | 60.7 | 58.0 | 60.0 | 53.3 | 55.7 | 63.3 | 54.3 | 57.9 | 49.0 | 52.0 | 54.7 | 51.9 | 52.7 | 53.0 | 52.5 | 57.0 | 53.8 |
| 54 | BH 411520 | 52.7 | 55.5 | 55.0 | 52.3 | 46.0 | 53.3 | 51.0 | 52.3 | 53.0 | 44.0 | 50.3 | 49.1 | 54.0 | 49.0 | 51.0 | 53.0 | 51.8 |
| 55 | VEH 12-1 | 62.3 | 61.0 | 64.0 | 55.0 | 56.7 | 65.0 | 54.3 | 59.8 | 50.0 | 54.0 | 57.7 | 53.9 | 58.0 | 54.0 | 54.0 | 58.3 | 56.1 |
| 56 | X35D620 | 54.7 | 57.0 | 58.0 | 51.3 | 49.7 | 55.3 | 50.3 | 53.8 | 49.7 | 46.7 | 53.7 | 50.0 | 56.7 | 50.0 | 50.0 | 51.3 | 52.0 |
| 57 | X35D623 | 57.3 | 60.5 | 63.7 | 56.3 | 54.7 | 61.0 | 53.7 | 58.2 | 51.0 | 51.7 | 54.0 | 52.2 | 59.3 | 52.3 | 53.0 | 57.0 | 55.4 |
| 58 | X35D602 | 57.0 | 55.5 | 56.3 | 55.3 | 54.0 | 55.7 | 53.7 | 55.4 | 51.0 | 48.7 | 54.0 | 51.2 | 56.3 | 51.7 | 52.0 | 53.7 | 53.4 |
| 59 | X35D603 | 56.3 | 59.5 | 60.7 | 55.0 | 54.3 | 58.7 | 53.3 | 56.8 | 53.0 | 51.7 | 57.7 | 54.1 | 56.7 | 54.7 | 53.0 | 58.7 | 55.8 |
| 60 | Bio 451 | 59.7 | 58.5 | 60.7 | 55.0 | 54.3 | 63.3 | 53.3 | 57.8 | 51.3 | 52.3 | 57.0 | 53.6 | 57.3 | 52.3 | 53.0 | 57.7 | 55.1 |
| 61 | GWH-0711 | 52.0 | 54.0 | 53.0 | 52.3 | 46.7 | 53.7 | 51.7 | 51.9 | 47.7 | 45.3 | 52.0 | 48.3 | 54.3 | 47.7 | 49.0 | 47.3 | 49.6 |
| 62 | REH-2012-1 | 58.3 | 60.0 | 60.7 | 53.0 | 54.0 | 62.3 | 53.0 | 57.3 | 49.0 | 50.7 | 56.7 | 52.1 | 57.7 | 53.0 | 55.5 | 59.3 | 56.4 |
| 63 | REH-2012-2 | 56.0 | 58.0 | 58.7 | 52.7 | 50.0 | 56.3 | 52.0 | 54.8 | 49.0 | 47.0 | 53.7 | 49.9 | 54.0 | 53.0 | 51.5 | 56.3 | 53.7 |
| 64 | REH-2012-4 | 61.3 | 59.5 | 60.0 | 56.3 | 54.0 | 64.0 | 53.0 | 58.3 | 51.7 | 51.0 | 59.0 | 53.9 | 58.3 | 53.0 | 53.5 | 57.0 | 55.5 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|--------|--------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 65 | JH 31595 | 56.7 | 58.0 | 60.0 | 55.3 | 52.3 | 57.7 | 52.0 | 56.0 | 50.7 | 47.3 | 58.0 | 52.0 | 55.3 | 51.7 | 51.5 | 57.7 | 54.0 |
| 66 | JH 31537 | 53.7 | 55.0 | 51.7 | 52.3 | 49.0 | 55.3 | 52.3 | 52.8 | 52.7 | 46.0 | 53.7 | 50.8 | 52.7 | 50.0 | 52.0 | 52.3 | 51.8 |
| 67 | JH 31604 | 55.3 | 58.0 | 56.3 | 52.3 | 51.3 | 60.0 | 51.7 | 55.0 | 55.3 | 49.3 | 53.3 | 52.7 | 56.0 | 49.7 | 51.0 | 52.3 | 52.3 |
| 68 | JH 31600(JH 31627) | 55.7 | 56.0 | 57.7 | 54.3 | 52.7 | 58.7 | 53.7 | 55.5 | 51.7 | 49.0 | 56.0 | 52.2 | 57.3 | 50.7 | 50.0 | 53.7 | 52.9 |
| 69 | JH 31244 | 55.0 | 57.5 | 57.7 | 54.3 | 49.7 | 56.7 | 51.7 | 54.6 | 51.0 | 49.7 | 53.3 | 51.3 | 54.7 | 52.0 | 50.5 | 53.3 | 52.6 |
| 70 | JH 31554 | 55.0 | 59.5 | 59.0 | 54.7 | 52.3 | 55.7 | 53.3 | 55.6 | 52.0 | 46.3 | 54.3 | 50.9 | 54.7 | 52.0 | 52.5 | 55.3 | 53.6 |
| 71 | AH-1226 | 53.3 | 56.0 | 50.0 | 54.3 | 49.0 | 54.7 | 53.3 | 53.0 | 53.7 | 46.7 | 50.7 | 50.3 | 54.7 | 48.0 | 50.5 | 50.7 | 51.0 |
| 72 | AH-1262 | 54.0 | 58.0 | 55.7 | 54.3 | 49.3 | 55.3 | 51.7 | 54.0 | 50.0 | 47.0 | 53.3 | 50.1 | 55.3 | 52.3 | 52.5 | 53.0 | 53.3 |
| 73 | MMH-2-12-13 | 58.0 | 61.0 | 60.7 | 52.0 | 54.0 | 60.0 | 53.7 | 57.0 | 53.0 | 50.3 | 55.3 | 52.9 | 56.7 | 52.7 | 53.5 | 53.7 | 54.1 |
| 74 | MMH-3-12-13 | 59.3 | 61.5 | 60.7 | 52.0 | 54.0 | 60.3 | 54.3 | 57.5 | 53.0 | 50.0 | 56.3 | 53.1 | 56.7 | 52.3 | 53.0 | 57.7 | 54.9 |
| 75 | MMH-4-12-13 | 56.3 | 58.0 | 57.3 | 53.7 | 51.7 | 57.7 | 52.3 | 55.3 | 51.0 | 49.7 | 54.3 | 51.7 | 56.7 | 51.3 | 52.0 | 54.7 | 53.7 |
| 76 | MMH-5-12-13 | 58.3 | 59.0 | 64.0 | 53.0 | 55.0 | 60.7 | 53.7 | 57.7 | 52.0 | 48.7 | 57.7 | 52.8 | 58.0 | 51.7 | 53.0 | 57.0 | 54.9 |
| 77 | HKH 338 | 56.7 | 60.0 | 61.3 | 53.0 | 52.3 | 60.0 | 53.3 | 56.7 | 49.0 | 47.0 | 55.7 | 50.6 | 59.3 | 52.3 | 52.5 | 53.3 | 54.4 |
| 78 | HKH 339 | 56.7 | 57.5 | 57.7 | 57.3 | 51.0 | 59.3 | 52.3 | 56.0 | 51.0 | 48.3 | 56.7 | 52.0 | 58.0 | 50.0 | 53.0 | 55.3 | 54.1 |
| 79 | HKH 340 | 58.3 | 60.5 | 60.0 | 55.3 | 52.3 | 61.0 | 53.0 | 57.2 | 50.0 | 49.3 | 54.0 | 51.1 | 58.3 | 50.7 | 53.0 | 57.0 | 54.8 |
| 80 | KNMH-4302 | 61.0 | 60.5 | 60.0 | 54.3 | 54.3 | 62.0 | 51.3 | 57.6 | 51.0 | 51.7 | 56.3 | 53.0 | 58.0 | 54.3 | 53.5 | 58.3 | 56.0 |
| 81 | KNMH-4303 | 60.7 | 61.0 | 59.7 | 53.3 | 55.0 | 57.3 | 53.7 | 57.2 | 51.0 | 52.0 | 53.3 | 52.1 | 57.3 | 54.3 | 56.0 | 60.0 | 56.9 |
| 82 | KNMH-4304 | 59.7 | 62.0 | 60.7 | 56.0 | 54.3 | 63.3 | 53.7 | 58.5 | 52.0 | 51.3 | 56.7 | 53.3 | 58.7 | 54.7 | 54.0 | 55.7 | 55.8 |
| 83 | KNMH-4305 | 59.0 | 60.0 | 60.0 | 55.7 | 52.0 | 63.7 | 53.3 | 57.7 | 54.3 | 51.7 | 57.0 | 54.3 | 58.7 | 53.0 | 54.0 | 57.0 | 55.7 |
| 84 | KNMH-4010131 | 60.0 | 63.0 | 60.0 | 55.0 | 56.0 | 61.3 | 53.0 | 58.3 | 51.0 | 52.7 | 56.0 | 53.2 | 58.7 | 53.7 | 54.0 | 58.0 | 56.1 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 53.0 | 56.0 | 57.0 | 52.3 | 48.3 | 54.3 | 50.3 | 53.0 | 50.0 | 46.3 | 50.7 | 49.0 | 52.7 | 48.7 | 50.5 | 52.0 | 51.0 |
| 86 | BIO9637 | 56.0 | 58.0 | 57.0 | 59.7 | 52.0 | 59.3 | 51.3 | 56.2 | 49.7 | 48.3 | 53.7 | 50.6 | 54.7 | 51.7 | 52.5 | 57.0 | 54.0 |
| 87 | HM12 | 59.7 | 61.0 | 60.7 | 57.0 | 57.3 | 62.7 | 54.3 | 59.0 | 51.0 | 49.3 | 58.0 | 52.8 | 56.7 | 51.5 | 56.0 | 57.3 | 55.4 |
| | Loc. Mean | 57.3 | 58.9 | 58.6 | 54.4 | 52.7 | 59.5 | 52.9 | 56.3 | 51.3 | 49.3 | 55.4 | 52.0 | 56.3 | 51.9 | 52.9 | 54.9 | 54.0 |
| | C.D. (5%) | 1.81 | 2.78 | 2.34 | 1.72 | 1.55 | 1.56 | 2.23 | 1.65 | 0.92 | 1.52 | 4.15 | 3.05 | 3.35 | 2.35 | 4.85 | 1.21 | 2.65 |
| | C.V. (%) | 1.96 | 2.38 | 2.48 | 1.96 | 1.83 | 1.62 | 2.62 | 2.79 | 1.11 | 1.91 | 4.64 | 3.64 | 3.70 | 2.80 | 4.61 | 1.37 | 3.52 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 1 | QMH-29134 | 61.0 | 54.3 | 60.0 | 52.7 | 64.3 | 55.3 | 58.0 | 55.7 | 72.7 | 59.3 | 56.0 | 65.7 | 57.7 | 59.8 | 57.5 | |
| 2 | QMH-2916 | 59.7 | 56.0 | 59.0 | 53.3 | 58.0 | 55.0 | 56.7 | 55.0 | 70.3 | 58.1 | 53.0 | 61.0 | 57.0 | 57.0 | 56.7 | |
| 3 | EHL-3412 | 63.3 | 56.0 | 61.3 | 54.0 | 64.7 | 56.3 | 59.7 | 54.0 | 74.3 | 60.4 | 56.0 | 66.0 | 58.0 | 60.0 | 58.6 | |
| 4 | EHL-1111 | 59.3 | 53.0 | 55.7 | 56.0 | 56.3 | 54.0 | 56.7 | 54.3 | 69.3 | 57.2 | 53.0 | 58.7 | 52.7 | 54.8 | 54.9 | |
| 5 | EHL-3512 | 60.0 | 53.3 | 60.0 | 53.0 | 60.3 | 54.7 | 54.7 | 52.3 | 71.0 | 57.7 | 54.0 | 63.3 | 54.3 | 57.2 | 55.4 | |
| 6 | S-6750 | 61.0 | 54.0 | 59.3 | 52.7 | 44.3 | 55.3 | 60.0 | 54.0 | 72.7 | 57.0 | 58.3 | 63.3 | 56.0 | 59.2 | 56.5 | |
| 7 | RMH-932 | 61.0 | 54.0 | 61.3 | 54.7 | 65.7 | 56.3 | 58.7 | 56.0 | 73.3 | 60.1 | 58.0 | 66.0 | 56.7 | 60.2 | 58.3 | |
| 8 | RMH-3591 | 60.7 | 52.0 | 61.3 | 52.7 | 64.0 | 55.7 | 57.3 | 52.7 | 74.0 | 58.9 | 54.3 | 62.7 | 55.3 | 57.4 | 57.2 | |
| 9 | PHM-34(W) | 57.3 | 53.3 | 55.0 | 52.0 | 56.0 | 52.7 | 53.0 | 49.7 | 68.7 | 55.3 | 51.0 | 58.3 | 51.7 | 53.7 | 52.9 | |
| 10 | PHM-12(Y) | 59.3 | 48.0 | 56.7 | 53.7 | 57.3 | 53.3 | 56.7 | 51.7 | 71.0 | 56.4 | 53.0 | 60.3 | 55.3 | 56.2 | 54.4 | |
| 11 | LG-3271 | 58.7 | 54.0 | 58.0 | 54.7 | 60.3 | 53.7 | 54.0 | 51.0 | 68.0 | 56.9 | 51.0 | 58.7 | 53.3 | 54.3 | 54.0 | |
| 12 | LG-3282 | 61.3 | 55.0 | 60.0 | 53.3 | 59.3 | 53.3 | 56.7 | 54.0 | 71.0 | 58.2 | 55.7 | 62.0 | 54.7 | 57.4 | 56.5 | |
| 13 | FCH-85 | 61.3 | 54.7 | 58.7 | 54.7 | 63.0 | 55.0 | 58.3 | 55.0 | 72.3 | 59.2 | 56.3 | 63.7 | 56.0 | 58.7 | 57.6 | |
| 14 | FCH-184 | 61.3 | 53.3 | 57.3 | 54.7 | 57.7 | 53.7 | 55.0 | 53.0 | 72.0 | 57.6 | 59.0 | 62.3 | 52.0 | 57.8 | 55.4 | |
| 15 | FCH-11231 | 62.3 | 52.3 | 59.3 | 52.0 | 65.3 | 58.7 | 58.7 | 57.0 | 74.0 | 60.0 | 58.7 | 62.7 | 58.7 | 60.0 | 58.3 | |
| 16 | KMH-6 | 58.0 | 48.0 | 55.0 | 54.7 | 55.7 | 52.3 | 53.3 | 50.0 | 71.3 | 55.4 | 50.0 | 59.0 | 53.0 | 54.0 | 52.5 | |
| 17 | KMH-84 | 59.3 | 54.7 | 57.7 | 52.7 | 59.0 | 53.7 | 57.0 | 52.3 | 67.7 | 57.1 | 55.0 | 62.3 | 55.0 | 57.4 | 55.1 | |
| 18 | KMH-6681 | 58.7 | 54.0 | 58.3 | 52.3 | 58.7 | 54.3 | 54.0 | 50.7 | 70.3 | 56.8 | 53.3 | 62.7 | 53.3 | 56.4 | 54.4 | |
| 19 | KMH-5951 | 60.0 | 56.0 | 57.3 | 53.3 | 61.0 | 53.3 | 57.0 | 52.7 | 70.7 | 57.9 | 52.0 | 61.7 | 54.0 | 55.9 | 55.0 | |
| 20 | JKMH-4545 | 58.0 | 52.3 | 54.7 | 55.0 | 52.3 | 53.0 | 54.0 | 52.3 | 66.3 | 55.3 | 53.3 | 59.0 | 51.3 | 54.6 | 53.5 | |
| 21 | SAFAL X-2 | 60.0 | 57.0 | 58.3 | 53.3 | 58.7 | 54.7 | 56.0 | 54.3 | 69.0 | 57.9 | 55.3 | 62.7 | 54.7 | 57.6 | 56.1 | |
| 22 | Kuber Shakthi | 61.0 | 54.0 | 58.0 | 53.3 | 63.0 | 53.7 | 58.0 | 55.3 | 72.3 | 58.7 | 57.3 | 64.3 | 56.3 | 59.3 | 57.0 | |
| 23 | DAS-MH-304 | 62.0 | 53.3 | 60.0 | 53.3 | 63.7 | 56.0 | 58.0 | 53.3 | 73.3 | 59.2 | 57.0 | 63.0 | 55.3 | 58.4 | 56.1 | |
| 24 | DAS-MH-305 | 60.7 | 55.7 | 59.3 | 53.7 | 64.7 | 56.3 | 58.0 | 55.3 | 72.3 | 59.6 | 53.0 | 61.7 | 55.3 | 56.7 | 56.8 | |
| 25 | KH-517 Gold | 59.3 | 54.0 | 56.7 | 52.7 | 58.3 | 53.7 | 56.3 | 52.0 | 69.7 | 57.0 | 54.0 | 62.3 | 53.7 | 56.7 | 54.6 | |
| 26 | KH-2248 | 59.3 | 57.0 | 58.3 | 52.0 | 60.0 | 54.0 | 58.0 | 55.7 | 68.0 | 58.0 | 57.0 | 62.3 | 57.3 | 58.9 | 56.4 | |
| 27 | TH-38 | 59.7 | 56.3 | 59.3 | 52.7 | 63.7 | 55.3 | 57.7 | 53.7 | 71.3 | 58.9 | 57.3 | 63.7 | 56.0 | 59.0 | 57.6 | |
| 28 | MAHABEEJ-1202(Nirdhar) | 60.3 | 52.0 | 60.0 | 54.7 | 63.0 | 54.3 | 59.0 | 55.3 | 72.3 | 59.0 | 55.0 | 63.0 | 53.7 | 57.2 | 56.4 | |
| 29 | KDMH-2705 | 60.3 | 57.3 | 60.7 | 53.3 | 63.7 | 55.7 | 57.7 | 53.3 | 71.7 | 59.3 | 56.0 | 63.7 | 55.3 | 58.3 | 57.5 | |
| 30 | EH-2205 | 60.0 | 52.0 | 57.3 | 52.7 | 59.7 | 53.3 | 56.0 | 53.0 | 70.3 | 57.1 | 56.7 | 63.7 | 51.7 | 57.3 | 55.3 | |
| 31 | EH-2208 | 59.7 | 55.0 | 58.0 | 53.7 | 63.7 | 54.0 | 57.3 | 52.3 | 72.3 | 58.4 | 56.3 | 61.3 | 51.7 | 56.4 | 55.8 | |
| 32 | EH-2240 | 56.7 | 52.3 | 59.0 | 51.3 | 59.0 | 52.7 | 56.0 | 53.0 | 70.3 | 56.7 | 55.0 | 64.3 | 52.0 | 57.1 | 55.4 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 33 | VaMH-08015 | 60.7 | 52.0 | 59.3 | 53.0 | 60.3 | 54.7 | 56.7 | 52.7 | 71.7 | 57.9 | 57.0 | 61.3 | 55.3 | 57.9 | 56.9 | |
| 34 | PMH-209 | 60.0 | 57.0 | 57.7 | 52.3 | 60.3 | 54.3 | 55.3 | 52.0 | 71.0 | 57.8 | 56.7 | 61.7 | 53.3 | 57.2 | 55.7 | |
| 35 | PRMH-2177 | 59.7 | 52.0 | 57.0 | 55.0 | 58.0 | 54.0 | 56.3 | 53.0 | 69.7 | 57.2 | 53.0 | 60.3 | 53.3 | 55.6 | 55.1 | |
| 36 | NMH-1289 | 59.3 | 48.7 | 56.3 | 53.0 | 59.7 | 55.7 | 56.7 | 55.0 | 67.0 | 56.8 | 56.0 | 61.0 | 54.3 | 57.1 | 55.1 | |
| 37 | HTMH-5402 | 61.0 | 52.3 | 58.0 | 52.7 | 59.7 | 54.7 | 57.7 | 53.7 | 70.7 | 57.8 | 56.0 | 65.3 | 54.3 | 58.6 | 57.2 | |
| 38 | CMH 10-488 | 61.3 | 55.0 | 58.7 | 53.3 | 63.0 | 57.0 | 58.7 | 53.7 | 70.7 | 59.0 | 57.0 | 62.7 | 56.7 | 58.8 | 57.7 | |
| 39 | CMH 10-547 | 60.7 | 53.7 | 59.7 | 52.7 | 62.3 | 56.0 | 58.3 | 55.7 | 69.7 | 58.7 | 57.0 | 62.3 | 56.0 | 58.4 | 57.0 | |
| 40 | CMH 11-582 | 61.0 | 57.7 | 62.0 | 52.7 | 65.3 | 56.0 | 58.7 | 55.3 | 73.3 | 60.2 | 56.0 | 63.7 | 57.0 | 58.9 | 57.5 | |
| 41 | CMH 11-603 | 63.0 | 52.0 | 58.3 | 53.3 | 62.7 | 58.3 | 58.0 | 55.7 | 76.3 | 59.7 | 58.7 | 65.0 | 55.7 | 59.8 | 58.1 | |
| 42 | CMH 11-617 | 62.0 | 57.0 | 59.7 | 53.3 | 64.7 | 56.0 | 58.7 | 53.7 | 73.3 | 59.8 | 58.0 | 63.3 | 56.7 | 59.3 | 57.4 | |
| 43 | IM8478 | 61.3 | 56.7 | 59.3 | 52.0 | 61.3 | 55.7 | 58.3 | 54.7 | 71.7 | 59.0 | 56.0 | 64.7 | 56.0 | 58.9 | 57.2 | |
| 44 | IM8479 | 62.0 | 55.7 | 60.3 | 53.3 | 63.7 | 57.0 | 59.0 | 54.0 | 73.0 | 59.8 | 55.0 | 63.0 | 56.3 | 58.1 | 58.2 | |
| 45 | IM8581 | 60.0 | 58.7 | 58.3 | 52.7 | 63.7 | 56.3 | 57.7 | 53.3 | 70.7 | 59.0 | 56.3 | 63.3 | 55.3 | 58.3 | 57.3 | |
| 46 | IM 7519 | 63.3 | 59.0 | 61.0 | 54.0 | 64.3 | 56.7 | 58.3 | 56.3 | 72.7 | 60.6 | 57.0 | 64.3 | 57.7 | 59.7 | 58.0 | |
| 47 | IM 7501 | 64.0 | 57.7 | 61.3 | 54.0 | 64.7 | 58.3 | 59.7 | 56.7 | 74.0 | 61.1 | 58.0 | 64.7 | 58.3 | 60.3 | 58.5 | |
| 48 | BH 41015 | 61.7 | 58.3 | 60.0 | 54.0 | 62.0 | 55.7 | 58.3 | 53.0 | 72.3 | 59.5 | 58.0 | 63.7 | 57.7 | 59.8 | 57.6 | |
| 49 | BH 41030 | 61.7 | 53.0 | 59.3 | 53.3 | 64.0 | 57.3 | 58.0 | 54.0 | 72.3 | 59.2 | 58.0 | 64.3 | 57.3 | 59.9 | 57.6 | |
| 50 | BH 41145 | 62.3 | 48.3 | 62.7 | 53.3 | 65.7 | 56.0 | 59.3 | 52.0 | 76.3 | 59.6 | 57.0 | 66.3 | 58.7 | 60.7 | 57.9 | |
| 51 | BH 41150 | 60.3 | 56.3 | 59.3 | 54.0 | 63.7 | 55.3 | 57.3 | 51.0 | 71.0 | 58.7 | 54.3 | 61.3 | 57.7 | 57.8 | 56.2 | |
| 52 | BH 411736 | 62.7 | 58.0 | 59.0 | 53.3 | 62.3 | 54.7 | 56.7 | 53.3 | 69.3 | 58.8 | 55.0 | 64.3 | 55.7 | 58.3 | 57.1 | |
| 53 | BH 411737 | 60.0 | 51.7 | 59.0 | 53.3 | 60.0 | 54.7 | 56.3 | 52.0 | 69.7 | 57.4 | 55.0 | 63.3 | 53.7 | 57.3 | 56.3 | |
| 54 | BH 411520 | 55.7 | 54.0 | 54.3 | 52.7 | 56.7 | 51.7 | 54.0 | 50.0 | 65.0 | 54.9 | 50.0 | 57.7 | 52.7 | 53.4 | 52.9 | |
| 55 | VEH 12-1 | 61.7 | 56.0 | 61.7 | 53.3 | 64.0 | 56.7 | 58.0 | 57.0 | 74.7 | 60.3 | 58.3 | 66.7 | 58.3 | 61.1 | 58.9 | |
| 56 | X35D620 | 59.0 | 54.3 | 55.3 | 52.3 | 56.3 | 53.0 | 54.0 | 51.3 | 71.3 | 56.3 | 53.0 | 61.3 | 53.3 | 55.9 | 54.2 | |
| 57 | X35D623 | 61.3 | 51.0 | 60.7 | 52.7 | 62.0 | 56.0 | 57.7 | 53.0 | 75.3 | 58.9 | 57.0 | 63.7 | 56.7 | 59.1 | 57.4 | |
| 58 | X35D602 | 61.0 | 52.0 | 59.3 | 54.7 | 60.7 | 53.7 | 58.7 | 52.0 | 73.0 | 58.3 | 56.0 | 62.0 | 55.3 | 57.8 | 55.9 | |
| 59 | X35D603 | 60.7 | 52.3 | 59.7 | 54.7 | 61.7 | 54.7 | 57.3 | 54.7 | 72.3 | 58.7 | 57.0 | 62.7 | 54.3 | 58.0 | 57.1 | |
| 60 | Bio 451 | 60.3 | 57.0 | 58.3 | 52.7 | 62.7 | 54.7 | 58.7 | 52.0 | 68.7 | 58.3 | 55.0 | 61.7 | 55.0 | 57.2 | 57.0 | |
| 61 | GWH-0711 | 53.7 | 45.7 | 52.3 | 50.0 | 50.7 | 49.0 | 52.0 | 48.0 | 63.0 | 51.6 | 48.3 | 55.3 | 51.7 | 51.8 | 51.0 | |
| 62 | REH-2012-1 | 61.7 | 57.7 | 59.7 | 53.3 | 62.7 | 55.0 | 59.0 | 55.0 | 76.7 | 60.1 | 58.0 | 66.0 | 56.7 | 60.2 | 57.9 | |
| 63 | REH-2012-2 | 59.7 | 53.3 | 58.0 | 51.3 | 58.0 | 54.7 | 55.7 | 51.3 | 71.3 | 57.0 | 53.0 | 64.3 | 54.0 | 57.1 | 55.1 | |
| 64 | REH-2012-4 | 61.3 | 51.7 | 59.7 | 54.7 | 62.7 | 56.0 | 57.7 | 55.3 | 70.7 | 58.9 | 57.0 | 65.0 | 57.0 | 59.7 | 57.7 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|-------|------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 58.3 | 61.0 | 62.0 | 55.3 | 53.7 | 61.0 | 54.3 | 58.0 | 50.0 | 51.0 | 56.3 | 52.4 | 55.3 | 53.7 | 52.0 | 57.0 | 54.5 |
| 2 | QMH-2916 | 55.7 | 58.0 | 60.3 | 52.3 | 54.0 | 60.3 | 53.0 | 56.2 | 49.0 | 46.0 | 55.3 | 50.1 | 56.0 | 52.3 | 72.5 | 55.0 | 59.0 |
| 3 | EHL-3412 | 58.7 | 62.5 | 60.0 | 56.3 | 55.0 | 61.0 | 52.3 | 58.0 | 52.0 | 51.0 | 57.7 | 53.6 | 60.7 | 54.3 | 56.0 | 62.0 | 58.3 |
| 4 | EHL-1111 | 53.3 | 56.0 | 57.0 | 52.3 | 49.3 | 55.0 | 52.0 | 53.6 | 52.0 | 48.7 | 55.3 | 52.0 | 56.0 | 52.7 | 52.0 | 57.3 | 54.5 |
| 5 | EHL-3512 | 56.7 | 58.5 | 57.0 | 55.0 | 51.7 | 57.3 | 52.0 | 55.5 | 52.0 | 48.0 | 51.3 | 50.4 | 56.7 | 51.3 | 51.5 | 50.7 | 52.5 |
| 6 | S-6750 | 60.3 | 59.5 | 60.0 | 56.3 | 52.0 | 62.7 | 52.7 | 57.6 | 50.0 | 50.0 | 56.3 | 52.1 | 60.7 | 51.7 | 53.0 | 53.3 | 54.7 |
| 7 | RMH-932 | 59.0 | 62.0 | 58.7 | 55.0 | 54.3 | 61.3 | 53.0 | 57.6 | 50.0 | 52.0 | 60.0 | 54.0 | 60.7 | 52.3 | 54.5 | 60.0 | 56.9 |
| 8 | RMH-3591 | 60.0 | 61.0 | 59.7 | 56.0 | 52.0 | 62.3 | 52.7 | 57.7 | 53.0 | 51.0 | 53.3 | 52.4 | 60.7 | 53.3 | 53.0 | 56.7 | 55.9 |
| 9 | PHM-34(W) | 52.0 | 56.0 | 52.0 | 52.0 | 46.0 | 55.7 | 50.3 | 52.0 | 53.0 | 45.3 | 53.7 | 50.7 | 47.7 | 49.7 | 51.5 | 51.7 | 50.1 |
| 10 | PHM-12(Y) | 55.0 | 57.0 | 55.0 | 54.7 | 49.3 | 55.0 | 52.7 | 54.1 | 50.0 | 47.0 | 56.0 | 51.0 | 51.0 | 50.0 | 52.5 | 52.3 | 51.5 |
| 11 | LG-3271 | 54.3 | 57.5 | 55.0 | 50.7 | 48.0 | 53.7 | 51.7 | 53.0 | 53.0 | 45.7 | 53.3 | 50.7 | 52.7 | 49.3 | 52.0 | 52.3 | 51.6 |
| 12 | LG-3282 | 57.3 | 59.0 | 57.0 | 58.7 | 50.7 | 59.7 | 52.3 | 56.4 | 51.0 | 50.3 | 52.3 | 51.2 | 60.7 | 53.0 | 54.0 | 55.7 | 55.8 |
| 13 | FCH-85 | 60.0 | 60.0 | 61.7 | 55.7 | 55.0 | 62.0 | 54.7 | 58.4 | 50.0 | 49.7 | 60.3 | 53.3 | 54.7 | 53.3 | 54.0 | 57.3 | 54.8 |
| 14 | FCH-184 | 54.3 | 57.0 | 58.3 | 51.7 | 51.3 | 58.7 | 52.3 | 54.8 | 54.3 | 46.3 | 53.3 | 51.3 | 56.7 | 51.0 | 50.5 | 53.7 | 53.0 |
| 15 | FCH-11231 | 60.3 | 63.5 | 60.7 | 56.3 | 56.0 | 64.3 | 53.3 | 59.2 | 50.0 | 51.7 | 57.7 | 53.1 | 60.7 | 51.3 | 53.0 | 57.3 | 55.6 |
| 16 | KMH-6 | 52.7 | 54.5 | 51.7 | 50.7 | 46.0 | 52.3 | 50.0 | 51.1 | 50.0 | 44.3 | 49.7 | 48.0 | 52.7 | 49.7 | 49.0 | 52.3 | 50.9 |
| 17 | KMH-84 | 55.3 | 57.0 | 60.0 | 50.7 | 49.3 | 56.7 | 53.0 | 54.6 | 54.0 | 46.0 | 54.3 | 51.4 | 54.7 | 50.0 | 52.0 | 52.0 | 52.2 |
| 18 | KMH-6681 | 53.0 | 56.5 | 58.0 | 52.0 | 49.3 | 54.7 | 52.0 | 53.6 | 50.0 | 44.7 | 57.0 | 50.6 | 52.0 | 50.0 | 51.5 | 54.3 | 52.0 |
| 19 | KMH-5951 | 55.7 | 57.0 | 54.7 | 53.3 | 51.0 | 55.7 | 52.7 | 54.3 | 52.0 | 46.7 | 55.3 | 51.3 | 54.7 | 50.3 | 51.5 | 51.7 | 52.0 |
| 20 | JKMH-4545 | 55.0 | 57.5 | 53.3 | 51.3 | 50.7 | 55.3 | 52.7 | 53.7 | 52.0 | 46.7 | 50.7 | 49.8 | 55.3 | 50.0 | 50.0 | 48.7 | 51.0 |
| 21 | SAFAL X-2 | 56.7 | 57.5 | 57.3 | 53.7 | 53.7 | 60.0 | 54.0 | 56.1 | 53.0 | 48.0 | 58.7 | 53.2 | 50.7 | 50.0 | 53.0 | 57.7 | 52.8 |
| 22 | Kuber Shakthi | 57.3 | 58.5 | 58.7 | 60.7 | 51.7 | 56.7 | 52.3 | 56.5 | 53.3 | 52.0 | 56.7 | 54.0 | 56.7 | 53.0 | 52.5 | 55.3 | 54.4 |
| 23 | DAS-MH-304 | 56.0 | 60.0 | 56.7 | 52.3 | 53.7 | 56.3 | 53.7 | 55.5 | 50.0 | 46.3 | 54.3 | 50.2 | 54.7 | 51.3 | 53.0 | 51.0 | 52.5 |
| 24 | DAS-MH-305 | 59.0 | 58.0 | 60.0 | 53.0 | 53.7 | 61.7 | 53.0 | 56.9 | 51.0 | 49.7 | 54.7 | 51.8 | 56.7 | 51.3 | 52.5 | 55.7 | 54.0 |
| 25 | KH-517 Gold | 56.0 | 57.0 | 56.7 | 52.0 | 50.3 | 59.0 | 52.7 | 54.8 | 50.0 | 48.7 | 50.7 | 49.8 | 50.7 | 51.7 | 51.5 | 51.3 | 51.3 |
| 26 | KH-2248 | 56.7 | 59.0 | 58.7 | 56.0 | 52.3 | 59.7 | 53.3 | 56.5 | 50.0 | 51.0 | 54.7 | 51.9 | 56.7 | 51.3 | 52.5 | 56.3 | 54.2 |
| 27 | TH-38 | 58.7 | 60.0 | 62.7 | 54.0 | 54.7 | 63.3 | 54.0 | 58.2 | 52.0 | 51.0 | 56.3 | 53.1 | 60.7 | 52.7 | 53.0 | 57.0 | 55.8 |
| 28 | MAHABEEJ-1202(Nirdhar) | 57.3 | 58.0 | 56.3 | 52.7 | 53.3 | 62.0 | 53.7 | 56.2 | 50.0 | 49.3 | 53.7 | 51.0 | 56.3 | 51.7 | 53.0 | 56.0 | 54.3 |
| 29 | KDMH-2705 | 59.3 | 60.0 | 59.7 | 53.7 | 55.0 | 61.0 | 53.7 | 57.5 | 51.0 | 51.3 | 57.7 | 53.3 | 60.7 | 52.0 | 52.0 | 58.7 | 55.8 |
| 30 | EH-2205 | 54.7 | 57.0 | 57.7 | 52.7 | 51.3 | 57.7 | 54.0 | 55.0 | 51.0 | 49.0 | 59.7 | 53.2 | 52.7 | 51.7 | 51.5 | 52.0 | 52.0 |
| 31 | EH-2208 | 56.7 | 58.5 | 57.0 | 51.7 | 52.7 | 56.3 | 53.3 | 55.2 | 53.0 | 49.0 | 57.3 | 53.1 | 54.0 | 50.0 | 52.5 | 53.0 | 52.4 |
| 32 | EH-2240 | 56.3 | 57.5 | 58.7 | 52.7 | 51.0 | 60.7 | 54.3 | 55.9 | 52.0 | 49.0 | 57.7 | 52.9 | 52.7 | 52.3 | 51.0 | 52.3 | 52.1 |
| 33 | VaMH-08015 | 57.7 | 59.0 | 61.3 | 58.0 | 55.7 | 62.7 | 53.0 | 58.2 | 51.0 | 51.3 | 58.7 | 53.7 | 56.7 | 52.7 | 53.0 | 54.7 | 54.3 |
| 34 | PMH-209 | 55.7 | 58.0 | 57.0 | 55.7 | 50.0 | 59.0 | 53.3 | 55.5 | 51.7 | 47.7 | 54.3 | 51.2 | 57.7 | 51.3 | 51.0 | 55.3 | 53.8 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|-------|--------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | | | | ZN 2 | | | | ZN 3 | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 35 | PRMH-2177 | 55.7 | 56.5 | 58.3 | 52.7 | 52.7 | 55.7 | 53.0 | 54.9 | 50.0 | 47.3 | 55.7 | 51.0 | 52.7 | 51.0 | 52.5 | 56.7 | 53.2 |
| 36 | NMH-1289 | 53.7 | 57.0 | 58.3 | 54.0 | 51.0 | 56.7 | 53.0 | 54.8 | 50.0 | 49.0 | 54.0 | 51.0 | 55.0 | 52.0 | 53.0 | 52.7 | 53.2 |
| 37 | HTMH-5402 | 61.3 | 60.5 | 60.7 | 56.3 | 57.0 | 64.7 | 54.0 | 59.2 | 51.7 | 51.3 | 54.3 | 52.4 | 56.3 | 51.7 | 53.5 | 56.7 | 54.5 |
| 38 | CMH 10-488 | 59.3 | 59.0 | 63.7 | 56.7 | 56.7 | 62.3 | 54.0 | 58.8 | 52.0 | 52.7 | 57.7 | 54.1 | 59.0 | 53.3 | 53.5 | 53.7 | 54.9 |
| 39 | CMH 10-547 | 57.7 | 61.0 | 60.7 | 53.3 | 58.0 | 63.3 | 53.0 | 58.1 | 50.0 | 51.7 | 54.0 | 51.9 | 57.0 | 53.3 | 53.5 | 52.0 | 54.0 |
| 40 | CMH 11-582 | 57.3 | 62.0 | 60.0 | 54.3 | 54.3 | 61.3 | 52.7 | 57.4 | 50.0 | 48.7 | 59.0 | 52.6 | 57.3 | 52.3 | 54.5 | 52.0 | 54.0 |
| 41 | CMH 11-603 | 59.0 | 63.5 | 58.7 | 57.0 | 55.0 | 64.7 | 53.3 | 58.7 | 52.0 | 50.7 | 55.3 | 52.7 | 59.7 | 54.0 | 54.5 | 55.7 | 56.0 |
| 42 | CMH 11-617 | 58.7 | 61.5 | 59.0 | 55.0 | 55.0 | 62.3 | 54.7 | 58.0 | 51.7 | 51.0 | 50.3 | 51.0 | 58.0 | 51.3 | 53.0 | 53.7 | 54.0 |
| 43 | IM8478 | 59.0 | 60.5 | 59.3 | 56.0 | 55.0 | 60.3 | 53.7 | 57.7 | 50.0 | 51.3 | 55.7 | 52.3 | 58.7 | 52.7 | 53.0 | 54.7 | 54.8 |
| 44 | IM8479 | 60.3 | 60.0 | 61.3 | 57.7 | 55.7 | 63.3 | 54.3 | 59.0 | 52.0 | 51.7 | 60.3 | 54.7 | 58.3 | 53.7 | 53.5 | 58.7 | 56.0 |
| 45 | IM8581 | 59.0 | 60.5 | 59.0 | 55.3 | 55.0 | 62.0 | 55.0 | 58.0 | 51.7 | 50.7 | 59.7 | 54.0 | 56.0 | 52.3 | 53.5 | 52.7 | 53.6 |
| 46 | IM 7519 | 58.7 | 61.0 | 59.3 | 55.3 | 53.0 | 62.3 | 52.3 | 57.4 | 50.0 | 51.3 | 55.7 | 52.3 | 57.0 | 53.7 | 55.5 | 57.0 | 55.8 |
| 47 | IM 7501 | 60.3 | 61.0 | 60.0 | 60.0 | 53.0 | 61.0 | 52.0 | 58.2 | 54.0 | 50.7 | 61.3 | 55.3 | 54.0 | 53.7 | 52.0 | 56.0 | 53.9 |
| 48 | BH 41015 | 58.7 | 59.5 | 59.3 | 58.7 | 55.7 | 63.3 | 52.7 | 58.3 | 51.7 | 51.0 | 55.3 | 52.7 | 55.3 | 53.3 | 52.5 | 55.7 | 54.2 |
| 49 | BH 41030 | 59.7 | 61.0 | 61.3 | 53.7 | 54.3 | 62.7 | 54.0 | 58.1 | 53.3 | 51.3 | 56.7 | 53.8 | 58.0 | 54.0 | 54.5 | 51.7 | 54.5 |
| 50 | BH 41145 | 61.0 | 62.0 | 55.7 | 58.3 | 57.7 | 59.3 | 53.3 | 58.2 | 51.0 | 50.7 | 57.3 | 53.0 | 56.7 | 53.7 | 56.0 | 54.3 | 55.2 |
| 51 | BH 41150 | 58.7 | 58.0 | 55.7 | 51.3 | 52.0 | 60.7 | 52.7 | 55.6 | 52.7 | 50.0 | 54.0 | 52.2 | 57.0 | 51.3 | 53.0 | 52.3 | 53.4 |
| 52 | BH 411736 | 59.7 | 58.5 | 61.3 | 52.7 | 54.7 | 60.7 | 52.7 | 57.2 | 53.0 | 51.3 | 56.7 | 53.7 | 57.0 | 53.0 | 53.0 | 55.7 | 54.7 |
| 53 | BH 411737 | 60.7 | 58.0 | 60.0 | 53.3 | 55.7 | 63.3 | 54.3 | 57.9 | 49.0 | 52.0 | 54.7 | 51.9 | 52.7 | 53.0 | 52.5 | 57.0 | 53.8 |
| 54 | BH 411520 | 52.7 | 55.5 | 55.0 | 52.3 | 46.0 | 53.3 | 51.0 | 52.3 | 53.0 | 44.0 | 50.3 | 49.1 | 54.0 | 49.0 | 51.0 | 53.0 | 51.8 |
| 55 | VEH 12-1 | 62.3 | 61.0 | 64.0 | 55.0 | 56.7 | 65.0 | 54.3 | 59.8 | 50.0 | 54.0 | 57.7 | 53.9 | 58.0 | 54.0 | 54.0 | 58.3 | 56.1 |
| 56 | X35D620 | 54.7 | 57.0 | 58.0 | 51.3 | 49.7 | 55.3 | 50.3 | 53.8 | 49.7 | 46.7 | 53.7 | 50.0 | 56.7 | 50.0 | 50.0 | 51.3 | 52.0 |
| 57 | X35D623 | 57.3 | 60.5 | 63.7 | 56.3 | 54.7 | 61.0 | 53.7 | 58.2 | 51.0 | 51.7 | 54.0 | 52.2 | 59.3 | 52.3 | 53.0 | 57.0 | 55.4 |
| 58 | X35D602 | 57.0 | 55.5 | 56.3 | 55.3 | 54.0 | 55.7 | 53.7 | 55.4 | 51.0 | 48.7 | 54.0 | 51.2 | 56.3 | 51.7 | 52.0 | 53.7 | 53.4 |
| 59 | X35D603 | 56.3 | 59.5 | 60.7 | 55.0 | 54.3 | 58.7 | 53.3 | 56.8 | 53.0 | 51.7 | 57.7 | 54.1 | 56.7 | 54.7 | 53.0 | 58.7 | 55.8 |
| 60 | Bio 451 | 59.7 | 58.5 | 60.7 | 55.0 | 54.3 | 63.3 | 53.3 | 57.8 | 51.3 | 52.3 | 57.0 | 53.6 | 57.3 | 52.3 | 53.0 | 57.7 | 55.1 |
| 61 | GWH-0711 | 52.0 | 54.0 | 53.0 | 52.3 | 46.7 | 53.7 | 51.7 | 51.9 | 47.7 | 45.3 | 52.0 | 48.3 | 54.3 | 47.7 | 49.0 | 47.3 | 49.6 |
| 62 | REH-2012-1 | 58.3 | 60.0 | 60.7 | 53.0 | 54.0 | 62.3 | 53.0 | 57.3 | 49.0 | 50.7 | 56.7 | 52.1 | 57.7 | 53.0 | 55.5 | 59.3 | 56.4 |
| 63 | REH-2012-2 | 56.0 | 58.0 | 58.7 | 52.7 | 50.0 | 56.3 | 52.0 | 54.8 | 49.0 | 47.0 | 53.7 | 49.9 | 54.0 | 53.0 | 51.5 | 56.3 | 53.7 |
| 64 | REH-2012-4 | 61.3 | 59.5 | 60.0 | 56.3 | 54.0 | 64.0 | 53.0 | 58.3 | 51.7 | 51.0 | 59.0 | 53.9 | 58.3 | 53.0 | 53.5 | 57.0 | 55.5 |
| 65 | JH 31595 | 56.7 | 58.0 | 60.0 | 55.3 | 52.3 | 57.7 | 52.0 | 56.0 | 50.7 | 47.3 | 58.0 | 52.0 | 55.3 | 51.7 | 51.5 | 57.7 | 54.0 |
| 66 | JH 31537 | 53.7 | 55.0 | 51.7 | 52.3 | 49.0 | 55.3 | 52.3 | 52.8 | 52.7 | 46.0 | 53.7 | 50.8 | 52.7 | 50.0 | 52.0 | 52.3 | 51.8 |
| 67 | JH 31604 | 55.3 | 58.0 | 56.3 | 52.3 | 51.3 | 60.0 | 51.7 | 55.0 | 55.3 | 49.3 | 53.3 | 52.7 | 56.0 | 49.7 | 51.0 | 52.3 | 52.3 |
| 68 | JH 31600(JH 31627) | 55.7 | 56.0 | 57.7 | 54.3 | 52.7 | 58.7 | 53.7 | 55.5 | 51.7 | 49.0 | 56.0 | 52.2 | 57.3 | 50.7 | 50.0 | 53.7 | 52.9 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|-------|------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | | ZN 3 | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 69 | JH 31244 | 55.0 | 57.5 | 57.7 | 54.3 | 49.7 | 56.7 | 51.7 | 54.6 | 51.0 | 49.7 | 53.3 | 51.3 | 54.7 | 52.0 | 50.5 | 53.3 | 52.6 |
| 70 | JH 31554 | 55.0 | 59.5 | 59.0 | 54.7 | 52.3 | 55.7 | 53.3 | 55.6 | 52.0 | 46.3 | 54.3 | 50.9 | 54.7 | 52.0 | 52.5 | 55.3 | 53.6 |
| 71 | AH-1226 | 53.3 | 56.0 | 50.0 | 54.3 | 49.0 | 54.7 | 53.3 | 53.0 | 53.7 | 46.7 | 50.7 | 50.3 | 54.7 | 48.0 | 50.5 | 50.7 | 51.0 |
| 72 | AH-1262 | 54.0 | 58.0 | 55.7 | 54.3 | 49.3 | 55.3 | 51.7 | 54.0 | 50.0 | 47.0 | 53.3 | 50.1 | 55.3 | 52.3 | 52.5 | 53.0 | 53.3 |
| 73 | MMH-2-12-13 | 58.0 | 61.0 | 60.7 | 52.0 | 54.0 | 60.0 | 53.7 | 57.0 | 53.0 | 50.3 | 55.3 | 52.9 | 56.7 | 52.7 | 53.5 | 53.7 | 54.1 |
| 74 | MMH-3-12-13 | 59.3 | 61.5 | 60.7 | 52.0 | 54.0 | 60.3 | 54.3 | 57.5 | 53.0 | 50.0 | 56.3 | 53.1 | 56.7 | 52.3 | 53.0 | 57.7 | 54.9 |
| 75 | MMH-4-12-13 | 56.3 | 58.0 | 57.3 | 53.7 | 51.7 | 57.7 | 52.3 | 55.3 | 51.0 | 49.7 | 54.3 | 51.7 | 56.7 | 51.3 | 52.0 | 54.7 | 53.7 |
| 76 | MMH-5-12-13 | 58.3 | 59.0 | 64.0 | 53.0 | 55.0 | 60.7 | 53.7 | 57.7 | 52.0 | 48.7 | 57.7 | 52.8 | 58.0 | 51.7 | 53.0 | 57.0 | 54.9 |
| 77 | HKH 338 | 56.7 | 60.0 | 61.3 | 53.0 | 52.3 | 60.0 | 53.3 | 56.7 | 49.0 | 47.0 | 55.7 | 50.6 | 59.3 | 52.3 | 52.5 | 53.3 | 54.4 |
| 78 | HKH 339 | 56.7 | 57.5 | 57.7 | 57.3 | 51.0 | 59.3 | 52.3 | 56.0 | 51.0 | 48.3 | 56.7 | 52.0 | 58.0 | 50.0 | 53.0 | 55.3 | 54.1 |
| 79 | HKH 340 | 58.3 | 60.5 | 60.0 | 55.3 | 52.3 | 61.0 | 53.0 | 57.2 | 50.0 | 49.3 | 54.0 | 51.1 | 58.3 | 50.7 | 53.0 | 57.0 | 54.8 |
| 80 | KNMH-4302 | 61.0 | 60.5 | 60.0 | 54.3 | 54.3 | 62.0 | 51.3 | 57.6 | 51.0 | 51.7 | 56.3 | 53.0 | 58.0 | 54.3 | 53.5 | 58.3 | 56.0 |
| 81 | KNMH-4303 | 60.7 | 61.0 | 59.7 | 53.3 | 55.0 | 57.3 | 53.7 | 57.2 | 51.0 | 52.0 | 53.3 | 52.1 | 57.3 | 54.3 | 56.0 | 60.0 | 56.9 |
| 82 | KNMH-4304 | 59.7 | 62.0 | 60.7 | 56.0 | 54.3 | 63.3 | 53.7 | 58.5 | 52.0 | 51.3 | 56.7 | 53.3 | 58.7 | 54.7 | 54.0 | 55.7 | 55.8 |
| 83 | KNMH-4305 | 59.0 | 60.0 | 60.0 | 55.7 | 52.0 | 63.7 | 53.3 | 57.7 | 54.3 | 51.7 | 57.0 | 54.3 | 58.7 | 53.0 | 54.0 | 57.0 | 55.7 |
| 84 | KNMH-4010131 | 60.0 | 63.0 | 60.0 | 55.0 | 56.0 | 61.3 | 53.0 | 58.3 | 51.0 | 52.7 | 56.0 | 53.2 | 58.7 | 53.7 | 54.0 | 58.0 | 56.1 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 53.0 | 56.0 | 57.0 | 52.3 | 48.3 | 54.3 | 50.3 | 53.0 | 50.0 | 46.3 | 50.7 | 49.0 | 52.7 | 48.7 | 50.5 | 52.0 | 51.0 |
| 86 | BIO9637 | 56.0 | 58.0 | 57.0 | 59.7 | 52.0 | 59.3 | 51.3 | 56.2 | 49.7 | 48.3 | 53.7 | 50.6 | 54.7 | 51.7 | 52.5 | 57.0 | 54.0 |
| 87 | HM12 | 59.7 | 61.0 | 60.7 | 57.0 | 57.3 | 62.7 | 54.3 | 59.0 | 51.0 | 49.3 | 58.0 | 52.8 | 56.7 | 51.5 | 56.0 | 57.3 | 55.4 |
| | Loc. Mean | 57.3 | 58.9 | 58.6 | 54.4 | 52.7 | 59.5 | 52.9 | 56.3 | 51.3 | 49.3 | 55.4 | 52.0 | 56.3 | 51.9 | 52.9 | 54.9 | 54.0 |
| | C.D. (5%) | 1.81 | 2.78 | 2.34 | 1.72 | 1.55 | 1.56 | 2.23 | 1.65 | 0.92 | 1.52 | 4.15 | 3.05 | 3.35 | 2.35 | 4.85 | 1.21 | 2.65 |
| | C.V. (%) | 1.96 | 2.38 | 2.48 | 1.96 | 1.83 | 1.62 | 2.62 | 2.79 | 1.11 | 1.91 | 4.64 | 3.64 | 3.70 | 2.80 | 4.61 | 1.37 | 3.52 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 1 | QMH-29134 | 61.0 | 54.3 | 60.0 | 52.7 | 64.3 | 55.3 | 58.0 | 55.7 | 72.7 | 59.3 | 56.0 | 65.7 | 57.7 | 59.8 | 57.5 | |
| 2 | QMH-2916 | 59.7 | 56.0 | 59.0 | 53.3 | 58.0 | 55.0 | 56.7 | 55.0 | 70.3 | 58.1 | 53.0 | 61.0 | 57.0 | 57.0 | 56.7 | |
| 3 | EHL-3412 | 63.3 | 56.0 | 61.3 | 54.0 | 64.7 | 56.3 | 59.7 | 54.0 | 74.3 | 60.4 | 56.0 | 66.0 | 58.0 | 60.0 | 58.6 | |
| 4 | EHL-1111 | 59.3 | 53.0 | 55.7 | 56.0 | 56.3 | 54.0 | 56.7 | 54.3 | 69.3 | 57.2 | 53.0 | 58.7 | 52.7 | 54.8 | 54.9 | |
| 5 | EHL-3512 | 60.0 | 53.3 | 60.0 | 53.0 | 60.3 | 54.7 | 54.7 | 52.3 | 71.0 | 57.7 | 54.0 | 63.3 | 54.3 | 57.2 | 55.4 | |
| 6 | S-6750 | 61.0 | 54.0 | 59.3 | 52.7 | 44.3 | 55.3 | 60.0 | 54.0 | 72.7 | 57.0 | 58.3 | 63.3 | 56.0 | 59.2 | 56.5 | |
| 7 | RMH-932 | 61.0 | 54.0 | 61.3 | 54.7 | 65.7 | 56.3 | 58.7 | 56.0 | 73.3 | 60.1 | 58.0 | 66.0 | 56.7 | 60.2 | 58.3 | |
| 8 | RMH-3591 | 60.7 | 52.0 | 61.3 | 52.7 | 64.0 | 55.7 | 57.3 | 52.7 | 74.0 | 58.9 | 54.3 | 62.7 | 55.3 | 57.4 | 57.2 | |
| 9 | PHM-34(W) | 57.3 | 53.3 | 55.0 | 52.0 | 56.0 | 52.7 | 53.0 | 49.7 | 68.7 | 55.3 | 51.0 | 58.3 | 51.7 | 53.7 | 52.9 | |
| 10 | PHM-12(Y) | 59.3 | 48.0 | 56.7 | 53.7 | 57.3 | 53.3 | 56.7 | 51.7 | 71.0 | 56.4 | 53.0 | 60.3 | 55.3 | 56.2 | 54.4 | |
| 11 | LG-3271 | 58.7 | 54.0 | 58.0 | 54.7 | 60.3 | 53.7 | 54.0 | 51.0 | 68.0 | 56.9 | 51.0 | 58.7 | 53.3 | 54.3 | 54.0 | |
| 12 | LG-3282 | 61.3 | 55.0 | 60.0 | 53.3 | 59.3 | 53.3 | 56.7 | 54.0 | 71.0 | 58.2 | 55.7 | 62.0 | 54.7 | 57.4 | 56.5 | |
| 13 | FCH-85 | 61.3 | 54.7 | 58.7 | 54.7 | 63.0 | 55.0 | 58.3 | 55.0 | 72.3 | 59.2 | 56.3 | 63.7 | 56.0 | 58.7 | 57.6 | |
| 14 | FCH-184 | 61.3 | 53.3 | 57.3 | 54.7 | 57.7 | 53.7 | 55.0 | 53.0 | 72.0 | 57.6 | 59.0 | 62.3 | 52.0 | 57.8 | 55.4 | |
| 15 | FCH-11231 | 62.3 | 52.3 | 59.3 | 52.0 | 65.3 | 58.7 | 58.7 | 57.0 | 74.0 | 60.0 | 58.7 | 62.7 | 58.7 | 60.0 | 58.3 | |
| 16 | KMH-6 | 58.0 | 48.0 | 55.0 | 54.7 | 55.7 | 52.3 | 53.3 | 50.0 | 71.3 | 55.4 | 50.0 | 59.0 | 53.0 | 54.0 | 52.5 | |
| 17 | KMH-84 | 59.3 | 54.7 | 57.7 | 52.7 | 59.0 | 53.7 | 57.0 | 52.3 | 67.7 | 57.1 | 55.0 | 62.3 | 55.0 | 57.4 | 55.1 | |
| 18 | KMH-6681 | 58.7 | 54.0 | 58.3 | 52.3 | 58.7 | 54.3 | 54.0 | 50.7 | 70.3 | 56.8 | 53.3 | 62.7 | 53.3 | 56.4 | 54.4 | |
| 19 | KMH-5951 | 60.0 | 56.0 | 57.3 | 53.3 | 61.0 | 53.3 | 57.0 | 52.7 | 70.7 | 57.9 | 52.0 | 61.7 | 54.0 | 55.9 | 55.0 | |
| 20 | JKMH-4545 | 58.0 | 52.3 | 54.7 | 55.0 | 52.3 | 53.0 | 54.0 | 52.3 | 66.3 | 55.3 | 53.3 | 59.0 | 51.3 | 54.6 | 53.5 | |
| 21 | SAFAL X-2 | 60.0 | 57.0 | 58.3 | 53.3 | 58.7 | 54.7 | 56.0 | 54.3 | 69.0 | 57.9 | 55.3 | 62.7 | 54.7 | 57.6 | 56.1 | |
| 22 | Kuber Shakthi | 61.0 | 54.0 | 58.0 | 53.3 | 63.0 | 53.7 | 58.0 | 55.3 | 72.3 | 58.7 | 57.3 | 64.3 | 56.3 | 59.3 | 57.0 | |
| 23 | DAS-MH-304 | 62.0 | 53.3 | 60.0 | 53.3 | 63.7 | 56.0 | 58.0 | 53.3 | 73.3 | 59.2 | 57.0 | 63.0 | 55.3 | 58.4 | 56.1 | |
| 24 | DAS-MH-305 | 60.7 | 55.7 | 59.3 | 53.7 | 64.7 | 56.3 | 58.0 | 55.3 | 72.3 | 59.6 | 53.0 | 61.7 | 55.3 | 56.7 | 56.8 | |
| 25 | KH-517 Gold | 59.3 | 54.0 | 56.7 | 52.7 | 58.3 | 53.7 | 56.3 | 52.0 | 69.7 | 57.0 | 54.0 | 62.3 | 53.7 | 56.7 | 54.6 | |
| 26 | KH-2248 | 59.3 | 57.0 | 58.3 | 52.0 | 60.0 | 54.0 | 58.0 | 55.7 | 68.0 | 58.0 | 57.0 | 62.3 | 57.3 | 58.9 | 56.4 | |
| 27 | TH-38 | 59.7 | 56.3 | 59.3 | 52.7 | 63.7 | 55.3 | 57.7 | 53.7 | 71.3 | 58.9 | 57.3 | 63.7 | 56.0 | 59.0 | 57.6 | |
| 28 | MAHABEEJ-1202(Nirdhar) | 60.3 | 52.0 | 60.0 | 54.7 | 63.0 | 54.3 | 59.0 | 55.3 | 72.3 | 59.0 | 55.0 | 63.0 | 53.7 | 57.2 | 56.4 | |
| 29 | KDMH-2705 | 60.3 | 57.3 | 60.7 | 53.3 | 63.7 | 55.7 | 57.7 | 53.3 | 71.7 | 59.3 | 56.0 | 63.7 | 55.3 | 58.3 | 57.5 | |
| 30 | EH-2205 | 60.0 | 52.0 | 57.3 | 52.7 | 59.7 | 53.3 | 56.0 | 53.0 | 70.3 | 57.1 | 56.7 | 63.7 | 51.7 | 57.3 | 55.3 | |
| 31 | EH-2208 | 59.7 | 55.0 | 58.0 | 53.7 | 63.7 | 54.0 | 57.3 | 52.3 | 72.3 | 58.4 | 56.3 | 61.3 | 51.7 | 56.4 | 55.8 | |
| 32 | EH-2240 | 56.7 | 52.3 | 59.0 | 51.3 | 59.0 | 52.7 | 56.0 | 53.0 | 70.3 | 56.7 | 55.0 | 64.3 | 52.0 | 57.1 | 55.4 | |
| 33 | VaMH-08015 | 60.7 | 52.0 | 59.3 | 53.0 | 60.3 | 54.7 | 56.7 | 52.7 | 71.7 | 57.9 | 57.0 | 61.3 | 55.3 | 57.9 | 56.9 | |
| 34 | PMH-209 | 60.0 | 57.0 | 57.7 | 52.3 | 60.3 | 54.3 | 55.3 | 52.0 | 71.0 | 57.8 | 56.7 | 61.7 | 53.3 | 57.2 | 55.7 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | | | | | | | | | ZN 4 | | | | ZN 5 | | OV'L |
|-------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | CHHI | UDAI | Mean | |
| 35 | PRMH-2177 | 59.7 | 52.0 | 57.0 | 55.0 | 58.0 | 54.0 | 56.3 | 53.0 | 69.7 | 57.2 | 53.0 | 60.3 | 53.3 | 55.6 | 55.1 |
| 36 | NMH-1289 | 59.3 | 48.7 | 56.3 | 53.0 | 59.7 | 55.7 | 56.7 | 55.0 | 67.0 | 56.8 | 56.0 | 61.0 | 54.3 | 57.1 | 55.1 |
| 37 | HTMH-5402 | 61.0 | 52.3 | 58.0 | 52.7 | 59.7 | 54.7 | 57.7 | 53.7 | 70.7 | 57.8 | 56.0 | 65.3 | 54.3 | 58.6 | 57.2 |
| 38 | CMH 10-488 | 61.3 | 55.0 | 58.7 | 53.3 | 63.0 | 57.0 | 58.7 | 53.7 | 70.7 | 59.0 | 57.0 | 62.7 | 56.7 | 58.8 | 57.7 |
| 39 | CMH 10-547 | 60.7 | 53.7 | 59.7 | 52.7 | 62.3 | 56.0 | 58.3 | 55.7 | 69.7 | 58.7 | 57.0 | 62.3 | 56.0 | 58.4 | 57.0 |
| 40 | CMH 11-582 | 61.0 | 57.7 | 62.0 | 52.7 | 65.3 | 56.0 | 58.7 | 55.3 | 73.3 | 60.2 | 56.0 | 63.7 | 57.0 | 58.9 | 57.5 |
| 41 | CMH 11-603 | 63.0 | 52.0 | 58.3 | 53.3 | 62.7 | 58.3 | 58.0 | 55.7 | 76.3 | 59.7 | 58.7 | 65.0 | 55.7 | 59.8 | 58.1 |
| 42 | CMH 11-617 | 62.0 | 57.0 | 59.7 | 53.3 | 64.7 | 56.0 | 58.7 | 53.7 | 73.3 | 59.8 | 58.0 | 63.3 | 56.7 | 59.3 | 57.4 |
| 43 | IM8478 | 61.3 | 56.7 | 59.3 | 52.0 | 61.3 | 55.7 | 58.3 | 54.7 | 71.7 | 59.0 | 56.0 | 64.7 | 56.0 | 58.9 | 57.2 |
| 44 | IM8479 | 62.0 | 55.7 | 60.3 | 53.3 | 63.7 | 57.0 | 59.0 | 54.0 | 73.0 | 59.8 | 55.0 | 63.0 | 56.3 | 58.1 | 58.2 |
| 45 | IM8581 | 60.0 | 58.7 | 58.3 | 52.7 | 63.7 | 56.3 | 57.7 | 53.3 | 70.7 | 59.0 | 56.3 | 63.3 | 55.3 | 58.3 | 57.3 |
| 46 | IM 7519 | 63.3 | 59.0 | 61.0 | 54.0 | 64.3 | 56.7 | 58.3 | 56.3 | 72.7 | 60.6 | 57.0 | 64.3 | 57.7 | 59.7 | 58.0 |
| 47 | IM 7501 | 64.0 | 57.7 | 61.3 | 54.0 | 64.7 | 58.3 | 59.7 | 56.7 | 74.0 | 61.1 | 58.0 | 64.7 | 58.3 | 60.3 | 58.5 |
| 48 | BH 41015 | 61.7 | 58.3 | 60.0 | 54.0 | 62.0 | 55.7 | 58.3 | 53.0 | 72.3 | 59.5 | 58.0 | 63.7 | 57.7 | 59.8 | 57.6 |
| 49 | BH 41030 | 61.7 | 53.0 | 59.3 | 53.3 | 64.0 | 57.3 | 58.0 | 54.0 | 72.3 | 59.2 | 58.0 | 64.3 | 57.3 | 59.9 | 57.6 |
| 50 | BH 41145 | 62.3 | 48.3 | 62.7 | 53.3 | 65.7 | 56.0 | 59.3 | 52.0 | 76.3 | 59.6 | 57.0 | 66.3 | 58.7 | 60.7 | 57.9 |
| 51 | BH 41150 | 60.3 | 56.3 | 59.3 | 54.0 | 63.7 | 55.3 | 57.3 | 51.0 | 71.0 | 58.7 | 54.3 | 61.3 | 57.7 | 57.8 | 56.2 |
| 52 | BH 411736 | 62.7 | 58.0 | 59.0 | 53.3 | 62.3 | 54.7 | 56.7 | 53.3 | 69.3 | 58.8 | 55.0 | 64.3 | 55.7 | 58.3 | 57.1 |
| 53 | BH 411737 | 60.0 | 51.7 | 59.0 | 53.3 | 60.0 | 54.7 | 56.3 | 52.0 | 69.7 | 57.4 | 55.0 | 63.3 | 53.7 | 57.3 | 56.3 |
| 54 | BH 411520 | 55.7 | 54.0 | 54.3 | 52.7 | 56.7 | 51.7 | 54.0 | 50.0 | 65.0 | 54.9 | 50.0 | 57.7 | 52.7 | 53.4 | 52.9 |
| 55 | VEH 12-1 | 61.7 | 56.0 | 61.7 | 53.3 | 64.0 | 56.7 | 58.0 | 57.0 | 74.7 | 60.3 | 58.3 | 66.7 | 58.3 | 61.1 | 58.9 |
| 56 | X35D620 | 59.0 | 54.3 | 55.3 | 52.3 | 56.3 | 53.0 | 54.0 | 51.3 | 71.3 | 56.3 | 53.0 | 61.3 | 53.3 | 55.9 | 54.2 |
| 57 | X35D623 | 61.3 | 51.0 | 60.7 | 52.7 | 62.0 | 56.0 | 57.7 | 53.0 | 75.3 | 58.9 | 57.0 | 63.7 | 56.7 | 59.1 | 57.4 |
| 58 | X35D602 | 61.0 | 52.0 | 59.3 | 54.7 | 60.7 | 53.7 | 58.7 | 52.0 | 73.0 | 58.3 | 56.0 | 62.0 | 55.3 | 57.8 | 55.9 |
| 59 | X35D603 | 60.7 | 52.3 | 59.7 | 54.7 | 61.7 | 54.7 | 57.3 | 54.7 | 72.3 | 58.7 | 57.0 | 62.7 | 54.3 | 58.0 | 57.1 |
| 60 | Bio 451 | 60.3 | 57.0 | 58.3 | 52.7 | 62.7 | 54.7 | 58.7 | 52.0 | 68.7 | 58.3 | 55.0 | 61.7 | 55.0 | 57.2 | 57.0 |
| 61 | GWH-0711 | 53.7 | 45.7 | 52.3 | 50.0 | 50.7 | 49.0 | 52.0 | 48.0 | 63.0 | 51.6 | 48.3 | 55.3 | 51.7 | 51.8 | 51.0 |
| 62 | REH-2012-1 | 61.7 | 57.7 | 59.7 | 53.3 | 62.7 | 55.0 | 59.0 | 55.0 | 76.7 | 60.1 | 58.0 | 66.0 | 56.7 | 60.2 | 57.9 |
| 63 | REH-2012-2 | 59.7 | 53.3 | 58.0 | 51.3 | 58.0 | 54.7 | 55.7 | 51.3 | 71.3 | 57.0 | 53.0 | 64.3 | 54.0 | 57.1 | 55.1 |
| 64 | REH-2012-4 | 61.3 | 51.7 | 59.7 | 54.7 | 62.7 | 56.0 | 57.7 | 55.3 | 70.7 | 58.9 | 57.0 | 65.0 | 57.0 | 59.7 | 57.7 |
| 65 | JH 31595 | 60.7 | 56.0 | 59.7 | 53.3 | 65.7 | 57.3 | 59.0 | 53.3 | 74.3 | 59.9 | 58.0 | 61.7 | 56.0 | 58.6 | 56.9 |
| 66 | JH 31537 | 58.7 | 55.7 | 56.7 | 55.7 | 55.7 | 53.7 | 55.3 | 52.7 | 67.0 | 56.8 | 53.0 | 58.3 | 51.3 | 54.2 | 53.9 |
| 67 | JH 31604 | 58.3 | 53.0 | 60.0 | 53.3 | 60.0 | 53.0 | 55.3 | 54.7 | 68.7 | 57.4 | 56.0 | 63.0 | 53.7 | 57.6 | 55.4 |
| 68 | JH 31600(JH 31627) | 59.7 | 53.7 | 59.0 | 54.0 | 59.0 | 54.0 | 56.0 | 53.3 | 71.3 | 57.8 | 53.0 | 61.7 | 55.0 | 56.6 | 55.6 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | | | |
|-------|------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | ZN 1 | | | ZN 2 | | | | | ZN 3 | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 61.0 | 62.0 | 70.7 | 58.0 | 56.7 | 64.3 | 59.0 | 61.7 | 52.0 | 52.7 | 58.7 | 54.4 | 57.3 | 55.3 | 56.5 | 61.7 | 57.7 |
| 2 | QMH-2916 | 58.7 | 59.0 | 66.7 | 55.3 | 57.0 | 63.7 | 58.0 | 59.8 | 52.0 | 47.0 | 58.3 | 52.4 | 58.0 | 53.7 | 52.0 | 58.7 | 55.6 |
| 3 | EHL-3412 | 61.3 | 63.5 | 67.3 | 59.3 | 58.0 | 64.3 | 57.3 | 61.6 | 54.0 | 52.7 | 60.7 | 55.8 | 62.7 | 55.7 | 59.0 | 67.0 | 61.1 |
| 4 | EHL-1111 | 55.7 | 57.0 | 65.7 | 54.7 | 52.7 | 58.0 | 57.0 | 57.2 | 54.0 | 49.7 | 58.0 | 53.9 | 58.0 | 54.3 | 56.0 | 62.3 | 57.7 |
| 5 | EHL-3512 | 59.7 | 59.5 | 65.7 | 58.0 | 54.7 | 61.0 | 56.7 | 59.3 | 55.0 | 49.0 | 54.3 | 52.8 | 58.7 | 53.7 | 56.0 | 56.0 | 56.1 |
| 6 | S-6750 | 62.7 | 60.5 | 68.0 | 59.0 | 55.7 | 66.3 | 57.3 | 61.4 | 52.0 | 50.3 | 59.0 | 53.8 | 62.7 | 53.0 | 56.5 | 56.0 | 57.0 |
| 7 | RMH-932 | 61.7 | 63.0 | 66.7 | 58.0 | 57.3 | 65.0 | 57.7 | 61.3 | 53.0 | 53.0 | 62.7 | 56.2 | 62.7 | 54.3 | 58.0 | 62.7 | 59.4 |
| 8 | RMH-3591 | 63.0 | 62.0 | 66.3 | 58.7 | 55.7 | 65.7 | 58.0 | 61.3 | 55.0 | 51.7 | 56.0 | 54.2 | 62.7 | 54.7 | 57.0 | 59.7 | 58.5 |
| 9 | PHM-34(W) | 54.7 | 57.0 | 62.3 | 54.7 | 50.0 | 58.7 | 55.3 | 56.1 | 55.0 | 46.3 | 56.0 | 52.4 | 49.7 | 51.0 | 56.0 | 54.7 | 52.8 |
| 10 | PHM-12(Y) | 57.7 | 58.0 | 63.7 | 57.3 | 52.3 | 58.7 | 58.0 | 58.0 | 52.0 | 48.0 | 58.7 | 52.9 | 53.0 | 52.0 | 55.5 | 57.3 | 54.5 |
| 11 | LG-3271 | 56.3 | 58.5 | 63.7 | 53.7 | 51.3 | 56.7 | 57.0 | 56.7 | 55.0 | 46.7 | 56.3 | 52.7 | 54.7 | 50.3 | 56.0 | 56.3 | 54.3 |
| 12 | LG-3282 | 59.3 | 60.0 | 65.7 | 62.3 | 55.0 | 62.3 | 57.3 | 60.3 | 53.0 | 51.3 | 55.7 | 53.3 | 62.7 | 54.3 | 57.0 | 59.3 | 58.3 |
| 13 | FCH-85 | 62.7 | 61.0 | 68.3 | 58.3 | 59.0 | 65.0 | 59.7 | 62.0 | 52.0 | 50.7 | 63.3 | 55.3 | 56.7 | 55.0 | 57.5 | 60.3 | 57.4 |
| 14 | FCH-184 | 57.0 | 58.0 | 66.3 | 54.0 | 54.3 | 62.7 | 57.0 | 58.5 | 56.3 | 47.3 | 56.7 | 53.4 | 58.7 | 52.0 | 54.5 | 57.0 | 55.5 |
| 15 | FCH-11231 | 62.3 | 64.5 | 68.3 | 60.3 | 59.0 | 68.0 | 58.0 | 62.9 | 52.0 | 52.3 | 60.7 | 55.0 | 62.7 | 52.7 | 56.5 | 62.0 | 58.5 |
| 16 | KMH-6 | 54.7 | 55.5 | 60.7 | 53.7 | 49.3 | 55.7 | 55.0 | 54.9 | 53.0 | 44.7 | 52.7 | 50.1 | 54.7 | 51.0 | 52.5 | 55.3 | 53.4 |
| 17 | KMH-84 | 58.0 | 58.0 | 66.3 | 53.3 | 53.3 | 60.0 | 57.7 | 58.1 | 56.0 | 47.0 | 57.3 | 53.4 | 56.7 | 51.0 | 56.5 | 55.7 | 55.0 |
| 18 | KMH-6681 | 55.3 | 57.5 | 67.7 | 55.0 | 53.3 | 58.0 | 56.7 | 57.6 | 52.0 | 46.0 | 60.0 | 52.7 | 53.3 | 52.3 | 55.5 | 59.0 | 55.0 |
| 19 | KMH-5951 | 57.7 | 58.0 | 63.3 | 56.3 | 54.3 | 59.7 | 57.3 | 58.1 | 54.0 | 47.7 | 58.0 | 53.2 | 56.7 | 51.3 | 56.0 | 55.7 | 54.9 |
| 20 | JKMH-4545 | 57.0 | 58.5 | 63.0 | 54.3 | 53.7 | 59.7 | 57.3 | 57.6 | 54.0 | 47.7 | 53.7 | 51.8 | 57.3 | 51.0 | 53.0 | 51.7 | 53.3 |
| 21 | SAFAL X-2 | 58.7 | 58.5 | 66.0 | 56.7 | 57.3 | 63.3 | 59.0 | 59.9 | 55.0 | 49.0 | 61.3 | 55.1 | 52.7 | 52.0 | 57.0 | 61.7 | 55.8 |
| 22 | Kuber Shakthi | 59.3 | 59.5 | 66.7 | 63.0 | 54.7 | 60.3 | 57.3 | 60.1 | 55.3 | 52.0 | 59.7 | 55.7 | 57.0 | 54.3 | 56.5 | 58.3 | 56.5 |
| 23 | DAS-MH-304 | 58.0 | 61.0 | 65.7 | 55.0 | 56.7 | 59.3 | 58.3 | 59.1 | 52.0 | 47.3 | 57.7 | 52.3 | 56.7 | 52.7 | 57.0 | 55.7 | 55.5 |
| 24 | DAS-MH-305 | 61.3 | 59.0 | 67.7 | 56.3 | 56.7 | 65.0 | 57.7 | 60.5 | 53.0 | 50.7 | 57.7 | 53.8 | 58.7 | 53.0 | 56.5 | 58.3 | 56.6 |
| 25 | KH-517 Gold | 58.0 | 58.0 | 65.3 | 54.3 | 53.3 | 63.0 | 57.7 | 58.5 | 53.0 | 49.7 | 53.7 | 52.1 | 52.7 | 53.3 | 56.0 | 54.7 | 54.2 |
| 26 | KH-2248 | 59.0 | 60.0 | 67.0 | 58.7 | 55.3 | 63.0 | 58.0 | 60.1 | 52.0 | 52.3 | 57.7 | 54.0 | 58.7 | 53.0 | 57.0 | 60.0 | 57.2 |
| 27 | TH-38 | 61.0 | 61.0 | 69.7 | 56.7 | 58.7 | 66.7 | 58.7 | 61.8 | 54.0 | 52.3 | 59.3 | 55.2 | 62.7 | 54.7 | 56.5 | 61.7 | 58.9 |
| 28 | MAHABEEJ-1202(Nirdhar) | 59.3 | 59.0 | 64.7 | 55.7 | 56.3 | 66.0 | 57.3 | 59.8 | 52.0 | 49.3 | 57.0 | 52.8 | 58.3 | 53.7 | 57.0 | 60.0 | 57.3 |
| 29 | KDMH-2705 | 61.3 | 61.0 | 67.0 | 56.3 | 57.7 | 64.0 | 58.7 | 60.9 | 53.0 | 52.0 | 60.7 | 55.2 | 62.7 | 53.0 | 56.0 | 62.7 | 58.6 |
| 30 | EH-2205 | 56.7 | 58.0 | 65.3 | 55.3 | 54.3 | 60.7 | 58.7 | 58.4 | 53.0 | 50.0 | 62.7 | 55.2 | 54.7 | 53.3 | 54.5 | 55.7 | 54.5 |
| 31 | EH-2208 | 59.0 | 59.5 | 65.3 | 54.3 | 55.3 | 60.0 | 58.0 | 58.8 | 55.0 | 50.3 | 59.7 | 55.0 | 55.3 | 51.7 | 57.0 | 57.0 | 55.3 |
| 32 | EH-2240 | 58.3 | 58.5 | 66.7 | 56.7 | 54.0 | 64.3 | 59.0 | 59.6 | 55.0 | 49.0 | 60.3 | 54.8 | 54.7 | 53.0 | 54.5 | 55.0 | 54.3 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | | | |
|-------|------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 33 | VaMH-08015 | 60.3 | 60.0 | 69.3 | 61.0 | 59.7 | 66.0 | 57.7 | 62.0 | 53.0 | 52.7 | 61.0 | 55.6 | 58.7 | 54.0 | 57.0 | 58.3 | 57.0 |
| 34 | PMH-209 | 58.3 | 59.0 | 66.0 | 58.3 | 53.0 | 62.3 | 57.7 | 59.2 | 54.7 | 48.7 | 57.3 | 53.6 | 59.7 | 52.7 | 56.5 | 58.3 | 56.8 |
| 35 | PRMH-2177 | 59.0 | 57.5 | 66.7 | 55.7 | 55.7 | 59.0 | 58.0 | 58.8 | 52.0 | 48.3 | 59.3 | 53.2 | 54.7 | 52.3 | 56.5 | 60.7 | 56.0 |
| 36 | NMH-1289 | 55.7 | 58.0 | 66.3 | 57.0 | 54.0 | 59.7 | 58.3 | 58.4 | 52.0 | 50.0 | 57.3 | 53.1 | 57.0 | 53.7 | 57.0 | 56.7 | 56.1 |
| 37 | HTMH-5402 | 63.7 | 61.5 | 68.7 | 59.0 | 60.0 | 67.7 | 59.0 | 62.8 | 53.7 | 52.0 | 57.7 | 54.4 | 58.3 | 52.7 | 57.5 | 60.0 | 57.1 |
| 38 | CMH 10-488 | 61.7 | 60.0 | 71.0 | 59.0 | 60.7 | 66.0 | 58.7 | 62.4 | 54.0 | 53.7 | 60.7 | 56.1 | 61.0 | 54.3 | 57.0 | 57.7 | 57.5 |
| 39 | CMH 10-547 | 60.0 | 62.0 | 68.3 | 55.3 | 61.0 | 67.0 | 58.0 | 61.7 | 52.0 | 52.7 | 57.3 | 54.0 | 59.0 | 54.3 | 57.5 | 54.7 | 56.4 |
| 40 | CMH 11-582 | 59.7 | 63.0 | 67.7 | 57.7 | 57.3 | 64.7 | 57.3 | 61.0 | 52.0 | 50.0 | 61.7 | 54.6 | 59.3 | 54.0 | 57.5 | 55.3 | 56.5 |
| 41 | CMH 11-603 | 61.7 | 64.5 | 66.0 | 60.3 | 59.3 | 68.0 | 58.3 | 62.6 | 55.0 | 51.7 | 59.0 | 55.2 | 61.7 | 55.0 | 58.0 | 59.0 | 58.4 |
| 42 | CMH 11-617 | 60.7 | 62.5 | 67.7 | 58.3 | 58.0 | 65.7 | 59.7 | 61.8 | 53.7 | 52.0 | 53.0 | 52.9 | 60.0 | 52.7 | 56.0 | 56.3 | 56.3 |
| 43 | IM8478 | 61.3 | 61.5 | 67.3 | 59.0 | 58.0 | 64.0 | 58.7 | 61.4 | 52.0 | 51.7 | 59.0 | 54.2 | 61.3 | 54.3 | 56.5 | 58.3 | 57.6 |
| 44 | IM8479 | 62.7 | 61.0 | 69.7 | 60.7 | 58.3 | 67.3 | 59.3 | 62.7 | 54.0 | 52.3 | 63.3 | 56.6 | 60.3 | 55.3 | 56.5 | 61.7 | 58.5 |
| 45 | IM8581 | 61.7 | 61.5 | 66.7 | 57.7 | 58.0 | 65.0 | 59.7 | 61.5 | 54.7 | 52.0 | 62.7 | 56.4 | 58.0 | 54.0 | 57.0 | 57.7 | 56.7 |
| 46 | IM 7519 | 60.7 | 62.0 | 67.0 | 60.0 | 56.3 | 66.3 | 57.0 | 61.3 | 53.0 | 52.3 | 58.3 | 54.6 | 59.0 | 55.7 | 59.0 | 61.0 | 58.7 |
| 47 | IM 7501 | 62.3 | 62.0 | 67.3 | 62.3 | 56.7 | 64.3 | 57.3 | 61.8 | 56.0 | 52.0 | 64.3 | 57.4 | 56.0 | 55.0 | 54.5 | 60.3 | 56.5 |
| 48 | BH 41015 | 60.7 | 60.5 | 67.7 | 61.3 | 59.3 | 66.7 | 57.7 | 62.0 | 53.7 | 52.0 | 58.3 | 54.7 | 57.3 | 54.7 | 56.5 | 58.7 | 56.8 |
| 49 | BH 41030 | 62.3 | 62.0 | 70.0 | 56.0 | 57.7 | 67.0 | 59.0 | 62.0 | 55.3 | 53.0 | 59.7 | 56.0 | 60.0 | 56.3 | 59.0 | 56.7 | 58.0 |
| 50 | BH 41145 | 63.0 | 63.0 | 64.7 | 61.0 | 60.7 | 63.3 | 58.3 | 62.0 | 53.0 | 51.7 | 61.0 | 55.2 | 58.7 | 55.0 | 59.0 | 59.3 | 58.0 |
| 51 | BH 41150 | 61.7 | 59.0 | 64.3 | 53.7 | 55.7 | 65.0 | 57.7 | 59.6 | 54.7 | 51.7 | 57.0 | 54.4 | 59.0 | 54.3 | 58.0 | 58.3 | 57.4 |
| 52 | BH 411736 | 62.0 | 59.5 | 69.7 | 55.7 | 57.7 | 65.3 | 58.0 | 61.1 | 55.0 | 52.3 | 60.0 | 55.8 | 59.0 | 54.7 | 57.0 | 59.3 | 57.5 |
| 53 | BH 411737 | 63.0 | 59.0 | 68.7 | 55.3 | 59.0 | 68.3 | 59.0 | 61.8 | 52.0 | 53.0 | 57.7 | 54.2 | 54.7 | 54.7 | 56.0 | 59.7 | 56.3 |
| 54 | BH 411520 | 55.3 | 56.5 | 64.0 | 55.3 | 50.3 | 57.3 | 56.0 | 56.4 | 55.0 | 45.0 | 53.3 | 51.1 | 56.0 | 50.7 | 54.0 | 56.3 | 54.3 |
| 55 | VEH 12-1 | 64.3 | 62.0 | 72.3 | 57.3 | 59.7 | 68.7 | 58.7 | 63.3 | 52.0 | 56.0 | 60.0 | 56.0 | 60.0 | 55.7 | 57.5 | 62.3 | 58.9 |
| 56 | X35D620 | 56.7 | 58.0 | 67.0 | 54.0 | 52.7 | 59.7 | 55.0 | 57.6 | 52.7 | 47.7 | 56.7 | 52.3 | 58.7 | 52.0 | 53.0 | 57.0 | 55.2 |
| 57 | X35D623 | 59.3 | 61.5 | 71.3 | 58.7 | 59.3 | 64.0 | 58.0 | 61.7 | 53.0 | 52.7 | 57.3 | 54.3 | 61.3 | 53.3 | 56.0 | 61.0 | 57.9 |
| 58 | X35D602 | 59.0 | 56.5 | 65.0 | 58.3 | 57.0 | 59.0 | 58.7 | 59.1 | 53.0 | 49.0 | 56.7 | 52.9 | 58.3 | 52.0 | 54.5 | 58.7 | 55.9 |
| 59 | X35D603 | 58.3 | 60.5 | 68.7 | 57.3 | 58.0 | 61.3 | 58.0 | 60.3 | 55.0 | 53.0 | 61.0 | 56.3 | 59.3 | 56.3 | 57.0 | 63.0 | 58.9 |
| 60 | Bio 451 | 62.0 | 59.5 | 68.0 | 57.7 | 58.7 | 66.7 | 58.0 | 61.5 | 54.3 | 54.0 | 60.0 | 56.1 | 59.3 | 53.7 | 57.0 | 61.7 | 57.9 |
| 61 | GWH-0711 | 55.0 | 55.0 | 61.0 | 55.3 | 50.0 | 57.7 | 56.0 | 55.7 | 50.7 | 46.3 | 58.3 | 51.8 | 56.3 | 49.0 | 52.5 | 51.3 | 52.3 |
| 62 | REH-2012-1 | 60.7 | 61.0 | 68.3 | 56.0 | 56.3 | 66.0 | 58.0 | 60.9 | 52.0 | 51.0 | 60.0 | 54.3 | 59.7 | 54.7 | 59.0 | 62.7 | 59.0 |
| 63 | REH-2012-2 | 58.3 | 59.0 | 66.7 | 56.0 | 54.0 | 59.7 | 56.7 | 58.6 | 51.0 | 48.0 | 56.3 | 51.8 | 56.0 | 54.3 | 55.5 | 59.3 | 56.3 |
| 64 | REH-2012-4 | 63.3 | 60.5 | 68.3 | 59.0 | 56.3 | 67.3 | 57.3 | 61.7 | 54.7 | 52.0 | 61.3 | 56.0 | 60.3 | 54.3 | 57.0 | 60.7 | 58.1 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | | | |
|-------|--------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | | | | | | | | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | | VARA |
| 65 | JH 31595 | 58.7 | 59.0 | 68.0 | 58.0 | 55.7 | 61.0 | 56.3 | 59.5 | 52.7 | 48.3 | 61.0 | 54.0 | 57.3 | 53.7 | 55.5 | 61.7 | 57.0 |
| 66 | JH 31537 | 56.0 | 56.0 | 61.0 | 55.7 | 52.0 | 59.0 | 57.7 | 56.8 | 54.7 | 47.0 | 56.3 | 52.7 | 54.7 | 51.7 | 56.0 | 56.3 | 54.7 |
| 67 | JH 31604 | 57.3 | 59.0 | 64.7 | 54.7 | 54.3 | 62.7 | 56.7 | 58.5 | 57.3 | 50.3 | 56.0 | 54.6 | 58.0 | 51.3 | 54.5 | 55.7 | 54.9 |
| 68 | JH 31600(JH 31627) | 58.0 | 57.0 | 66.7 | 57.3 | 54.3 | 62.0 | 58.3 | 59.1 | 53.7 | 50.0 | 59.0 | 54.2 | 59.3 | 52.0 | 53.0 | 58.0 | 55.6 |
| 69 | JH 31244 | 57.3 | 58.5 | 65.3 | 57.3 | 51.7 | 60.3 | 56.7 | 58.2 | 54.0 | 50.7 | 56.0 | 53.6 | 56.7 | 53.3 | 54.0 | 57.3 | 55.3 |
| 70 | JH 31554 | 58.3 | 60.5 | 67.7 | 57.7 | 55.3 | 59.0 | 58.7 | 59.6 | 55.0 | 47.3 | 57.3 | 53.2 | 56.7 | 52.7 | 56.0 | 59.0 | 56.1 |
| 71 | AH-1226 | 55.7 | 57.0 | 59.3 | 56.7 | 53.3 | 58.7 | 57.7 | 56.9 | 55.7 | 47.7 | 53.7 | 52.3 | 56.7 | 50.3 | 54.0 | 55.7 | 54.2 |
| 72 | AH-1262 | 56.7 | 59.0 | 64.3 | 57.7 | 53.0 | 59.3 | 56.3 | 58.0 | 52.0 | 48.0 | 56.0 | 52.0 | 57.3 | 54.0 | 56.5 | 57.7 | 56.4 |
| 73 | MMH-2-12-13 | 60.0 | 62.0 | 68.3 | 54.7 | 57.0 | 63.7 | 58.7 | 60.6 | 55.0 | 51.3 | 58.7 | 55.0 | 58.7 | 54.3 | 57.5 | 58.7 | 57.3 |
| 74 | MMH-3-12-13 | 61.7 | 62.5 | 68.3 | 55.0 | 57.0 | 64.0 | 59.3 | 61.1 | 55.0 | 51.0 | 58.7 | 54.9 | 58.7 | 54.3 | 56.5 | 62.0 | 57.9 |
| 75 | MMH-4-12-13 | 58.7 | 59.0 | 66.0 | 56.0 | 54.7 | 61.7 | 57.3 | 59.0 | 53.0 | 50.7 | 57.3 | 53.7 | 58.7 | 53.3 | 55.5 | 58.7 | 56.5 |
| 76 | MMH-5-12-13 | 60.3 | 60.0 | 71.0 | 56.0 | 58.3 | 64.0 | 58.3 | 61.1 | 54.0 | 49.0 | 60.7 | 54.6 | 60.0 | 53.7 | 57.5 | 60.0 | 57.8 |
| 77 | HKH 338 | 58.7 | 61.0 | 69.7 | 56.0 | 56.0 | 63.3 | 58.3 | 60.4 | 52.0 | 48.0 | 58.0 | 52.7 | 61.3 | 54.3 | 55.5 | 56.3 | 56.9 |
| 78 | HKH 339 | 58.7 | 58.5 | 66.0 | 60.3 | 54.0 | 63.0 | 57.3 | 59.7 | 53.0 | 49.3 | 60.0 | 54.1 | 60.0 | 51.7 | 56.0 | 58.7 | 56.6 |
| 79 | HKH 340 | 60.7 | 61.5 | 68.0 | 58.0 | 55.3 | 64.3 | 58.3 | 60.9 | 53.0 | 50.3 | 57.7 | 53.7 | 60.3 | 52.7 | 56.5 | 60.0 | 57.4 |
| 80 | KNMH-4302 | 63.7 | 61.5 | 68.0 | 57.7 | 57.3 | 66.3 | 56.0 | 61.5 | 54.0 | 53.7 | 58.7 | 55.4 | 60.0 | 56.7 | 57.5 | 62.3 | 59.1 |
| 81 | KNMH-4303 | 63.0 | 62.0 | 67.0 | 56.0 | 58.3 | 62.3 | 58.7 | 61.0 | 53.0 | 53.3 | 56.7 | 54.3 | 59.3 | 56.7 | 59.0 | 62.7 | 59.4 |
| 82 | KNMH-4304 | 62.0 | 63.0 | 68.7 | 58.7 | 57.3 | 67.3 | 58.3 | 62.2 | 54.0 | 54.0 | 60.3 | 56.1 | 60.7 | 57.0 | 58.0 | 60.7 | 59.1 |
| 83 | KNMH-4305 | 61.7 | 61.0 | 67.7 | 58.3 | 55.0 | 66.7 | 59.0 | 61.3 | 56.3 | 52.3 | 59.3 | 56.0 | 60.7 | 55.0 | 57.5 | 61.7 | 58.7 |
| 84 | KNMH-4010131 | 62.0 | 64.0 | 68.0 | 57.7 | 59.0 | 65.3 | 58.3 | 62.0 | 53.0 | 53.7 | 59.3 | 55.3 | 60.7 | 55.0 | 57.5 | 60.0 | 58.3 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 85 | PMH4 | 55.0 | 57.0 | 64.3 | 54.7 | 51.3 | 58.0 | 55.3 | 56.5 | 52.0 | 47.3 | 53.7 | 51.0 | 54.7 | 50.3 | 55.0 | 56.3 | 54.1 |
| 86 | BIO9637 | 58.0 | 59.0 | 65.7 | 62.0 | 55.0 | 62.7 | 56.0 | 59.8 | 52.7 | 49.0 | 57.3 | 53.0 | 56.7 | 53.0 | 56.5 | 60.7 | 56.7 |
| 87 | HM12 | 62.0 | 62.0 | 68.3 | 59.7 | 60.3 | 66.0 | 59.3 | 62.5 | 53.0 | 50.3 | 60.7 | 54.7 | 58.7 | 53.0 | 59.0 | 61.3 | 58.0 |
| | Loc. Mean | 59.6 | 59.9 | 66.7 | 57.2 | 55.9 | 63.1 | 57.8 | 60.0 | 53.6 | 50.3 | 58.4 | 54.1 | 58.2 | 53.5 | 56.3 | 58.8 | 56.7 |
| | C.D. (5%) | 1.74 | 2.78 | 2.52 | 1.82 | 1.59 | 1.66 | 2.32 | 1.63 | 0.92 | 1.53 | 4.03 | 3.08 | 3.38 | 2.32 | 2.05 | 1.21 | 2.28 |
| | C.V. (%) | 1.81 | 2.34 | 2.34 | 1.98 | 1.77 | 1.64 | 2.50 | 2.59 | 1.06 | 1.89 | 4.28 | 3.54 | 3.61 | 2.69 | 1.83 | 1.27 | 2.88 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 1 | QMH-29134 | 63.3 | 57.0 | 62.3 | 55.7 | 65.3 | 58.7 | 61.0 | 58.7 | 76.7 | 62.1 | 58.3 | 67.7 | 62.7 | 62.9 | 60.5 | |
| 2 | QMH-2916 | 62.3 | 58.7 | 60.7 | 56.3 | 59.0 | 57.0 | 58.7 | 57.0 | 73.3 | 60.3 | 55.7 | 63.0 | 59.3 | 59.3 | 58.4 | |
| 3 | EHL-3412 | 63.3 | 58.0 | 64.0 | 57.0 | 65.7 | 58.7 | 62.0 | 55.7 | 76.3 | 62.3 | 58.0 | 67.3 | 59.7 | 61.7 | 61.1 | |
| 4 | EHL-1111 | 60.7 | 55.0 | 59.0 | 58.3 | 57.3 | 56.0 | 59.7 | 56.3 | 72.7 | 59.4 | 55.7 | 60.7 | 56.7 | 57.7 | 57.7 | |
| 5 | EHL-3512 | 61.0 | 55.3 | 62.3 | 56.3 | 61.3 | 56.3 | 56.7 | 54.0 | 73.3 | 59.6 | 56.0 | 65.0 | 56.0 | 59.0 | 58.1 | |
| 6 | S-6750 | 61.7 | 56.0 | 61.3 | 55.7 | 65.3 | 57.3 | 62.0 | 56.3 | 74.3 | 61.1 | 60.3 | 65.3 | 57.7 | 61.1 | 59.7 | |
| 7 | RMH-932 | 62.3 | 56.0 | 63.0 | 57.7 | 66.7 | 59.0 | 60.7 | 57.0 | 76.0 | 62.0 | 61.0 | 68.0 | 58.3 | 62.4 | 60.8 | |
| 8 | RMH-3591 | 62.3 | 54.3 | 65.3 | 55.7 | 65.0 | 57.7 | 59.3 | 54.7 | 76.3 | 61.2 | 56.7 | 64.7 | 58.0 | 59.8 | 59.8 | |
| 9 | PHM-34(W) | 58.3 | 55.3 | 57.7 | 54.3 | 57.0 | 54.3 | 55.0 | 52.0 | 70.7 | 57.2 | 53.3 | 60.3 | 54.0 | 55.9 | 55.5 | |
| 10 | PHM-12(Y) | 63.7 | 50.0 | 60.7 | 57.3 | 58.3 | 56.3 | 59.3 | 54.0 | 73.0 | 59.2 | 55.3 | 62.3 | 57.3 | 58.3 | 57.3 | |
| 11 | LG-3271 | 58.3 | 56.0 | 60.0 | 57.3 | 61.3 | 55.7 | 56.0 | 53.7 | 72.3 | 59.0 | 54.0 | 60.7 | 55.3 | 56.7 | 56.7 | |
| 12 | LG-3282 | 60.7 | 57.0 | 61.0 | 57.0 | 60.3 | 55.7 | 58.7 | 57.0 | 73.0 | 60.0 | 57.7 | 63.7 | 56.0 | 59.1 | 59.0 | |
| 13 | FCH-85 | 63.3 | 57.0 | 61.0 | 57.7 | 64.0 | 58.3 | 60.3 | 60.0 | 74.7 | 61.8 | 58.3 | 65.3 | 59.0 | 60.9 | 60.3 | |
| 14 | FCH-184 | 59.7 | 55.3 | 59.7 | 57.7 | 58.7 | 55.7 | 57.0 | 54.3 | 74.0 | 59.1 | 61.3 | 64.3 | 54.3 | 60.0 | 57.8 | |
| 15 | FCH-11231 | 62.3 | 54.3 | 63.3 | 55.0 | 66.3 | 61.0 | 60.7 | 57.3 | 75.0 | 61.7 | 61.0 | 64.0 | 60.3 | 61.8 | 60.8 | |
| 16 | KMH-6 | 60.7 | 50.0 | 59.3 | 57.3 | 56.7 | 54.3 | 55.3 | 52.0 | 73.3 | 57.7 | 52.3 | 61.0 | 55.0 | 56.1 | 55.2 | |
| 17 | KMH-84 | 60.7 | 56.7 | 59.7 | 56.0 | 60.0 | 55.7 | 59.0 | 54.3 | 69.0 | 59.0 | 57.0 | 64.3 | 58.0 | 59.8 | 57.6 | |
| 18 | KMH-6681 | 60.7 | 57.0 | 61.0 | 55.3 | 59.7 | 56.3 | 56.0 | 52.7 | 73.0 | 59.1 | 55.7 | 64.7 | 56.3 | 58.9 | 57.3 | |
| 19 | KMH-5951 | 60.7 | 58.0 | 58.0 | 57.0 | 62.0 | 55.0 | 59.0 | 55.7 | 74.3 | 60.0 | 55.0 | 63.3 | 56.3 | 58.2 | 57.7 | |
| 20 | JKMH-4545 | 59.0 | 54.7 | 56.3 | 58.7 | 53.3 | 55.0 | 56.0 | 52.7 | 67.7 | 57.0 | 55.7 | 60.7 | 52.7 | 56.3 | 55.9 | |
| 21 | SAFAL X-2 | 62.0 | 59.0 | 61.3 | 56.3 | 59.7 | 56.7 | 58.0 | 55.7 | 71.3 | 60.0 | 57.7 | 64.3 | 56.7 | 59.6 | 58.7 | |
| 22 | Kuber Shakthi | 60.3 | 56.0 | 60.3 | 56.3 | 64.0 | 56.0 | 60.0 | 57.0 | 74.0 | 60.4 | 59.3 | 66.7 | 57.7 | 61.2 | 59.3 | |
| 23 | DAS-MH-304 | 62.7 | 55.3 | 61.7 | 56.3 | 64.7 | 57.7 | 60.0 | 55.7 | 74.7 | 61.0 | 59.7 | 65.0 | 57.3 | 60.7 | 58.6 | |
| 24 | DAS-MH-305 | 61.0 | 57.7 | 61.7 | 57.0 | 65.7 | 58.7 | 60.0 | 56.7 | 73.7 | 61.3 | 56.0 | 63.7 | 57.3 | 59.0 | 59.3 | |
| 25 | KH-517 Gold | 58.7 | 56.0 | 60.0 | 55.7 | 59.3 | 55.3 | 58.3 | 54.3 | 71.0 | 58.7 | 56.7 | 64.3 | 57.7 | 59.6 | 57.3 | |
| 26 | KH-2248 | 62.0 | 59.0 | 61.3 | 55.0 | 61.0 | 57.3 | 60.0 | 59.0 | 70.7 | 60.6 | 59.7 | 64.3 | 60.3 | 61.4 | 59.3 | |
| 27 | TH-38 | 63.3 | 58.3 | 62.7 | 55.7 | 64.7 | 58.7 | 59.7 | 55.0 | 74.7 | 61.4 | 59.7 | 65.7 | 58.3 | 61.2 | 60.4 | |
| 28 | MAHABEEJ-1202(Nirdhar) | 61.7 | 54.3 | 62.0 | 57.7 | 64.0 | 56.3 | 61.0 | 56.3 | 75.7 | 61.0 | 57.0 | 65.0 | 56.0 | 59.3 | 58.9 | |
| 29 | KDMH-2705 | 60.7 | 59.3 | 62.7 | 56.3 | 64.7 | 58.3 | 59.7 | 54.7 | 73.3 | 61.1 | 59.0 | 65.7 | 57.3 | 60.7 | 59.9 | |
| 30 | EH-2205 | 61.0 | 54.3 | 59.0 | 55.7 | 60.7 | 55.3 | 58.0 | 54.3 | 72.0 | 58.9 | 59.3 | 65.3 | 52.7 | 59.1 | 57.7 | |
| 31 | EH-2208 | 61.7 | 57.7 | 60.7 | 56.7 | 64.7 | 56.0 | 59.3 | 54.0 | 74.0 | 60.5 | 58.7 | 62.7 | 52.7 | 58.0 | 58.3 | |
| 32 | EH-2240 | 59.7 | 54.7 | 60.0 | 54.7 | 60.0 | 54.7 | 58.0 | 54.7 | 71.3 | 58.6 | 57.0 | 66.3 | 53.0 | 58.8 | 57.8 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | OV'L |
|-------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 33 | VaMH-08015 | 61.7 | 54.0 | 61.3 | 56.0 | 61.3 | 56.7 | 58.7 | 54.3 | 73.0 | 59.7 | 59.0 | 63.3 | 57.7 | 60.0 | 59.4 |
| 34 | PMH-209 | 61.3 | 59.3 | 59.7 | 56.0 | 61.3 | 56.7 | 57.3 | 53.7 | 74.3 | 60.0 | 59.7 | 63.3 | 57.0 | 60.0 | 58.5 |
| 35 | PRMH-2177 | 61.0 | 54.0 | 59.0 | 57.3 | 59.0 | 56.0 | 59.3 | 54.7 | 72.3 | 59.2 | 55.7 | 62.3 | 55.7 | 57.9 | 57.8 |
| 36 | NMH-1289 | 60.3 | 50.7 | 58.7 | 56.3 | 60.7 | 57.3 | 58.7 | 56.0 | 69.7 | 58.7 | 58.3 | 63.0 | 57.0 | 59.4 | 57.7 |
| 37 | HTMH-5402 | 60.7 | 54.3 | 62.0 | 55.7 | 60.7 | 56.7 | 59.7 | 54.7 | 72.0 | 59.6 | 58.3 | 66.3 | 56.3 | 60.3 | 59.6 |
| 38 | CMH 10-488 | 62.0 | 57.0 | 60.7 | 56.3 | 64.0 | 60.3 | 60.7 | 55.7 | 72.7 | 61.0 | 59.3 | 64.3 | 58.3 | 60.7 | 60.3 |
| 39 | CMH 10-547 | 60.0 | 55.7 | 62.0 | 55.7 | 63.3 | 57.3 | 60.3 | 56.7 | 71.3 | 60.3 | 59.3 | 64.0 | 57.7 | 60.3 | 59.3 |
| 40 | CMH 11-582 | 61.7 | 60.0 | 64.0 | 53.3 | 66.3 | 58.0 | 60.7 | 57.7 | 76.0 | 62.0 | 58.0 | 65.7 | 59.0 | 60.9 | 59.9 |
| 41 | CMH 11-603 | 63.3 | 54.3 | 61.0 | 56.3 | 65.7 | 60.3 | 60.0 | 59.3 | 77.7 | 62.0 | 61.7 | 66.3 | 57.7 | 61.9 | 60.8 |
| 42 | CMH 11-617 | 62.3 | 59.0 | 61.7 | 55.3 | 65.7 | 58.7 | 60.7 | 56.7 | 75.0 | 61.7 | 60.3 | 64.7 | 59.0 | 61.3 | 59.8 |
| 43 | IM8478 | 62.0 | 58.7 | 61.7 | 54.3 | 62.3 | 58.0 | 60.3 | 57.0 | 74.3 | 61.0 | 58.3 | 66.3 | 57.3 | 60.7 | 59.8 |
| 44 | IM8479 | 63.7 | 57.7 | 64.0 | 57.0 | 64.7 | 60.0 | 61.0 | 58.3 | 75.3 | 62.4 | 57.7 | 64.7 | 58.0 | 60.1 | 60.9 |
| 45 | IM8581 | 62.0 | 61.3 | 59.7 | 55.7 | 64.7 | 58.7 | 59.7 | 55.0 | 73.0 | 61.1 | 59.0 | 65.0 | 57.7 | 60.6 | 59.9 |
| 46 | IM 7519 | 64.7 | 61.3 | 63.3 | 57.0 | 67.0 | 59.0 | 60.3 | 59.0 | 75.0 | 63.0 | 59.7 | 66.7 | 61.7 | 62.7 | 60.9 |
| 47 | IM 7501 | 66.0 | 60.0 | 64.0 | 56.3 | 65.7 | 60.7 | 61.7 | 58.7 | 76.3 | 63.3 | 60.0 | 66.7 | 61.7 | 62.8 | 61.1 |
| 48 | BH 41015 | 62.3 | 61.3 | 62.3 | 57.0 | 63.0 | 57.7 | 60.3 | 56.3 | 74.7 | 61.7 | 60.7 | 65.3 | 59.0 | 61.7 | 60.2 |
| 49 | BH 41030 | 64.3 | 55.0 | 60.7 | 56.3 | 65.0 | 59.7 | 61.0 | 55.3 | 75.3 | 61.4 | 60.3 | 66.3 | 59.3 | 62.0 | 60.5 |
| 50 | BH 41145 | 65.0 | 50.3 | 64.3 | 56.7 | 66.7 | 58.3 | 61.3 | 54.0 | 78.3 | 61.7 | 59.3 | 68.3 | 63.3 | 63.7 | 60.7 |
| 51 | BH 41150 | 64.0 | 58.3 | 62.7 | 57.0 | 64.7 | 57.3 | 59.3 | 53.7 | 73.3 | 61.1 | 57.3 | 63.3 | 59.7 | 60.1 | 59.3 |
| 52 | BH 411736 | 64.0 | 60.7 | 60.3 | 56.7 | 63.3 | 57.0 | 58.7 | 55.0 | 71.0 | 60.7 | 57.3 | 66.3 | 59.3 | 61.0 | 59.8 |
| 53 | BH 411737 | 61.7 | 53.7 | 61.3 | 56.3 | 61.0 | 56.3 | 58.3 | 54.3 | 72.0 | 59.4 | 57.3 | 65.3 | 57.3 | 60.0 | 59.0 |
| 54 | BH 411520 | 60.7 | 57.0 | 56.0 | 55.3 | 57.7 | 53.7 | 56.0 | 51.3 | 67.3 | 57.2 | 52.3 | 59.3 | 55.0 | 55.6 | 55.6 |
| 55 | VEH 12-1 | 63.7 | 58.0 | 64.3 | 55.7 | 65.0 | 59.3 | 60.0 | 60.0 | 76.7 | 62.5 | 61.0 | 68.0 | 61.3 | 63.4 | 61.5 |
| 56 | X35D620 | 59.3 | 56.7 | 59.3 | 55.7 | 57.3 | 55.0 | 56.0 | 53.3 | 73.0 | 58.4 | 55.3 | 63.3 | 56.7 | 58.4 | 57.0 |
| 57 | X35D623 | 62.0 | 53.3 | 62.7 | 55.7 | 63.0 | 57.3 | 59.7 | 55.0 | 78.0 | 60.7 | 59.7 | 65.7 | 58.7 | 61.3 | 59.9 |
| 58 | X35D602 | 60.3 | 54.0 | 61.3 | 58.0 | 61.7 | 55.3 | 60.7 | 54.0 | 75.7 | 60.1 | 58.3 | 64.0 | 58.0 | 60.1 | 58.3 |
| 59 | X35D603 | 63.0 | 54.3 | 62.7 | 57.3 | 62.7 | 56.7 | 59.3 | 58.0 | 76.3 | 61.1 | 59.3 | 64.7 | 57.0 | 60.3 | 59.9 |
| 60 | Bio 451 | 60.0 | 59.0 | 60.0 | 55.7 | 63.7 | 56.7 | 60.7 | 54.3 | 70.3 | 60.0 | 57.3 | 63.3 | 57.7 | 59.4 | 59.6 |
| 61 | GWH-0711 | 54.7 | 47.7 | 54.3 | 53.0 | 51.7 | 51.0 | 54.0 | 49.3 | 64.0 | 53.3 | 50.7 | 57.3 | 53.7 | 53.9 | 53.7 |
| 62 | REH-2012-1 | 64.3 | 60.0 | 61.7 | 56.3 | 63.7 | 57.0 | 61.0 | 57.0 | 79.0 | 62.2 | 60.3 | 67.7 | 59.0 | 62.3 | 60.5 |
| 63 | REH-2012-2 | 61.7 | 55.7 | 59.3 | 54.7 | 59.0 | 57.0 | 57.7 | 53.3 | 73.7 | 59.1 | 56.0 | 66.7 | 56.0 | 59.6 | 57.8 |
| 64 | REH-2012-4 | 62.3 | 53.7 | 61.3 | 57.0 | 63.7 | 58.0 | 59.7 | 56.7 | 72.0 | 60.5 | 59.0 | 66.7 | 59.0 | 61.6 | 60.1 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | | |
|-------|------------------------|----------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|-------|------|------|
| | | ZN 1 | | | | | | | | | | ZN 2 | | | ZN 3 | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 97.3 | 110.0 | 98.0 | 85.0 | 91.7 | 102.7 | 93.7 | 96.9 | 85.3 | 86.7 | 86.0 | 88.0 | 83.7 | 97.0 | 93.0 | 90.4 |
| 2 | QMH-2916 | 93.0 | 108.0 | 88.0 | 87.0 | 92.0 | 102.3 | 92.7 | 94.7 | 83.0 | 84.7 | 83.8 | 86.0 | 81.7 | 100.0 | 90.0 | 89.4 |
| 3 | EHL-3412 | 98.0 | 110.0 | 93.3 | 88.7 | 93.0 | 102.3 | 92.7 | 96.9 | 84.3 | 90.0 | 87.2 | 88.7 | 85.0 | 95.5 | 95.7 | 91.2 |
| 4 | EHL-1111 | 92.0 | 107.0 | 92.3 | 85.0 | 87.7 | 97.7 | 91.7 | 93.3 | 84.3 | 84.0 | 84.2 | 86.7 | 82.0 | 95.0 | 90.3 | 88.5 |
| 5 | EHL-3512 | 95.7 | 108.0 | 92.3 | 87.3 | 89.7 | 98.7 | 93.3 | 95.0 | 87.3 | 80.3 | 83.8 | 84.7 | 81.7 | 96.5 | 85.7 | 87.1 |
| 6 | S-6750 | 99.7 | 110.0 | 95.3 | 86.3 | 90.7 | 103.3 | 94.0 | 97.0 | 84.3 | 89.7 | 87.0 | 84.7 | 83.0 | 97.5 | 89.0 | 88.5 |
| 7 | RMH-932 | 100.7 | 110.0 | 91.3 | 83.3 | 92.3 | 103.3 | 93.3 | 96.3 | 84.3 | 90.0 | 87.2 | 90.7 | 84.3 | 96.0 | 93.0 | 91.0 |
| 8 | RMH-3591 | 97.7 | 110.0 | 90.3 | 85.7 | 90.7 | 101.3 | 93.3 | 95.6 | 85.3 | 86.7 | 86.0 | 89.7 | 84.3 | 95.5 | 90.3 | 90.0 |
| 9 | PHM-34(W) | 92.3 | 108.0 | 94.0 | 87.3 | 85.0 | 95.7 | 93.0 | 93.6 | 86.3 | 83.7 | 85.0 | 79.3 | 80.0 | 95.5 | 83.3 | 84.5 |
| 10 | PHM-12(Y) | 94.3 | 107.5 | 91.3 | 86.0 | 87.3 | 98.3 | 91.0 | 93.7 | 83.3 | 86.0 | 84.7 | 81.3 | 80.3 | 96.0 | 86.7 | 86.1 |
| 11 | LG-3271 | 96.3 | 108.0 | 91.3 | 85.7 | 86.3 | 96.0 | 90.7 | 93.5 | 89.7 | 79.7 | 84.7 | 87.0 | 79.3 | 96.0 | 88.7 | 87.8 |
| 12 | LG-3282 | 94.3 | 109.0 | 92.3 | 81.3 | 90.0 | 102.7 | 92.3 | 94.6 | 85.3 | 83.0 | 84.2 | 87.7 | 83.0 | 98.0 | 90.0 | 89.7 |
| 13 | FCH-85 | 96.0 | 110.0 | 94.0 | 83.3 | 94.0 | 104.0 | 92.3 | 96.2 | 87.3 | 85.0 | 86.2 | 87.0 | 83.3 | 95.0 | 89.0 | 88.6 |
| 14 | FCH-184 | 98.0 | 108.5 | 93.0 | 84.0 | 89.3 | 101.0 | 94.3 | 95.5 | 86.7 | 84.7 | 85.7 | 81.7 | 82.0 | 95.0 | 91.0 | 87.4 |
| 15 | FCH-11231 | 100.3 | 110.0 | 93.3 | 85.7 | 94.0 | 106.0 | 92.7 | 97.4 | 84.3 | 86.3 | 85.3 | 88.7 | 82.3 | 96.5 | 90.7 | 89.5 |
| 16 | KMH-6 | 92.3 | 106.5 | 88.3 | 82.0 | 84.3 | 98.7 | 91.3 | 91.9 | 84.3 | 78.0 | 81.2 | 85.0 | 80.0 | 96.0 | 87.3 | 87.1 |
| 17 | KMH-84 | 96.0 | 108.0 | 91.7 | 80.0 | 88.3 | 97.7 | 94.0 | 93.7 | 87.3 | 85.0 | 86.2 | 84.3 | 80.3 | 96.0 | 87.3 | 87.0 |
| 18 | KMH-6681 | 98.7 | 107.5 | 93.3 | 80.0 | 88.3 | 99.0 | 92.3 | 94.2 | 85.3 | 86.7 | 86.0 | 87.7 | 82.3 | 97.5 | 89.3 | 89.2 |
| 19 | KMH-5951 | 98.7 | 107.5 | 90.0 | 83.3 | 89.3 | 97.7 | 92.0 | 94.1 | 86.3 | 85.0 | 85.7 | 82.3 | 81.3 | 96.5 | 88.3 | 87.1 |
| 20 | JKMH-4545 | 92.3 | 108.0 | 92.3 | 80.3 | 88.7 | 96.3 | 92.3 | 92.9 | 81.3 | 84.3 | 82.8 | 82.7 | 82.3 | 96.0 | 84.7 | 86.4 |
| 21 | SAFAL X-2 | 97.0 | 108.0 | 91.7 | 86.3 | 92.3 | 101.7 | 94.7 | 96.0 | 87.3 | 86.7 | 87.0 | 83.3 | 79.3 | 94.5 | 90.0 | 86.8 |
| 22 | Kuber Shakthi | 99.0 | 109.0 | 94.0 | 86.0 | 89.7 | 104.0 | 93.3 | 96.4 | 86.7 | 90.0 | 88.3 | 86.0 | 84.0 | 96.5 | 90.7 | 89.3 |
| 23 | DAS-MH-304 | 94.0 | 110.0 | 94.7 | 89.0 | 91.7 | 98.3 | 93.7 | 95.9 | 84.7 | 85.0 | 84.8 | 82.7 | 82.7 | 94.5 | 86.7 | 86.6 |
| 24 | DAS-MH-305 | 96.3 | 108.0 | 93.3 | 79.7 | 91.7 | 103.7 | 94.7 | 95.3 | 86.3 | 88.3 | 87.3 | 85.7 | 81.7 | 96.5 | 88.7 | 88.1 |
| 25 | KH-517 Gold | 96.7 | 107.5 | 94.0 | 84.0 | 88.3 | 100.0 | 94.3 | 95.0 | 84.3 | 90.3 | 87.3 | 85.3 | 82.7 | 95.5 | 88.0 | 87.9 |
| 26 | KH-2248 | 97.0 | 109.0 | 94.7 | 84.0 | 90.3 | 102.0 | 92.3 | 95.6 | 85.3 | 82.7 | 84.0 | 84.3 | 80.7 | 96.0 | 89.0 | 87.5 |
| 27 | TH-38 | 96.7 | 110.0 | 94.7 | 81.0 | 93.7 | 105.3 | 94.3 | 96.5 | 86.3 | 88.7 | 87.5 | 90.7 | 81.0 | 95.0 | 90.0 | 89.2 |
| 28 | MAHABEEJ-1202(Nirdhar) | 94.3 | 108.0 | 91.7 | 80.0 | 91.3 | 103.0 | 91.7 | 94.3 | 85.3 | 85.0 | 85.2 | 84.3 | 81.3 | 96.5 | 86.7 | 87.2 |
| 29 | KDMH-2705 | 100.0 | 110.0 | 91.7 | 78.7 | 92.7 | 103.7 | 94.3 | 95.9 | 87.3 | 88.7 | 88.0 | 88.3 | 82.0 | 97.0 | 91.3 | 89.7 |
| 30 | EH-2205 | 92.7 | 107.5 | 91.7 | 85.3 | 89.3 | 102.7 | 94.0 | 94.7 | 85.3 | 81.3 | 83.3 | 84.7 | 82.7 | 96.5 | 87.0 | 87.7 |
| 31 | EH-2208 | 93.7 | 109.0 | 91.7 | 79.3 | 90.3 | 100.3 | 94.7 | 94.1 | 86.3 | 81.7 | 84.0 | 83.3 | 80.3 | 96.5 | 87.0 | 86.8 |
| 32 | EH-2240 | 92.7 | 108.5 | 93.3 | 86.3 | 89.0 | 104.7 | 92.7 | 95.3 | 84.3 | 81.0 | 82.7 | 83.3 | 80.7 | 97.0 | 86.3 | 86.8 |
| 33 | VaMH-08015 | 100.7 | 109.0 | 94.7 | 84.0 | 94.7 | 106.3 | 94.0 | 97.6 | 85.3 | 89.3 | 87.3 | 85.3 | 82.3 | 98.0 | 90.7 | 89.1 |
| 34 | PMH-209 | 95.7 | 109.0 | 92.7 | 86.0 | 88.0 | 100.3 | 93.3 | 95.0 | 85.3 | 81.3 | 83.3 | 84.7 | 82.0 | 98.0 | 89.3 | 88.5 |

BR100

Table No. 2 (Continued)

| S.No. | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | | |
|-------|--------------------|----------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | | | | ZN 2 | | | ZN 3 | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 35 | PRMH-2177 | 95.3 | 107.5 | 93.0 | 85.7 | 90.7 | 100.0 | 93.0 | 95.0 | 82.3 | 79.7 | 81.0 | 85.0 | 80.7 | 97.0 | 89.7 | 88.1 |
| 36 | NMH-1289 | 92.0 | 108.0 | 93.0 | 86.0 | 89.0 | 97.3 | 93.7 | 94.1 | 84.3 | 80.3 | 82.3 | 89.7 | 82.3 | 95.0 | 87.0 | 88.5 |
| 37 | HTMH-5402 | 101.7 | 110.0 | 94.7 | 86.0 | 95.0 | 107.0 | 94.3 | 98.4 | 85.3 | 90.7 | 88.0 | 87.7 | 85.0 | 97.0 | 91.0 | 90.2 |
| 38 | CMH 10-488 | 97.7 | 109.0 | 95.7 | 87.0 | 95.7 | 105.7 | 95.0 | 98.0 | 86.3 | 89.0 | 87.7 | 86.7 | 83.3 | 95.5 | 91.7 | 89.3 |
| 39 | CMH 10-547 | 94.3 | 110.0 | 93.3 | 82.3 | 96.0 | 105.0 | 94.3 | 96.5 | 86.3 | 87.7 | 87.0 | 84.3 | 83.3 | 94.0 | 88.3 | 87.5 |
| 40 | CMH 11-582 | 96.3 | 110.0 | 93.3 | 88.7 | 92.3 | 102.3 | 93.3 | 96.6 | 84.3 | 85.7 | 85.0 | 84.0 | 81.7 | 96.5 | 87.7 | 87.5 |
| 41 | CMH 11-603 | 100.0 | 110.0 | 89.7 | 85.3 | 94.3 | 107.0 | 93.3 | 97.1 | 85.3 | 91.0 | 88.2 | 85.3 | 85.0 | 95.0 | 90.7 | 89.0 |
| 42 | CMH 11-617 | 93.7 | 110.0 | 97.7 | 88.7 | 93.0 | 104.0 | 95.7 | 97.5 | 85.3 | 84.3 | 84.8 | 87.3 | 81.3 | 97.0 | 89.7 | 88.8 |
| 43 | IM8478 | 98.3 | 110.0 | 94.0 | 87.0 | 93.0 | 104.0 | 95.3 | 97.4 | 83.3 | 88.0 | 85.7 | 89.0 | 84.3 | 94.5 | 90.7 | 89.6 |
| 44 | IM8479 | 74.0 | 110.0 | 95.3 | 84.7 | 93.3 | 105.7 | 93.3 | 93.8 | 84.7 | 88.0 | 86.3 | 87.3 | 84.7 | 98.0 | 91.3 | 90.3 |
| 45 | IM8581 | 100.3 | 110.0 | 93.0 | 84.3 | 93.0 | 106.7 | 95.7 | 97.6 | 83.3 | 87.3 | 85.3 | 84.7 | 84.3 | 95.5 | 89.7 | 88.5 |
| 46 | IM 7519 | 99.0 | 110.0 | 92.7 | 83.3 | 91.3 | 106.0 | 94.0 | 96.6 | 85.3 | 89.7 | 87.5 | 88.7 | 87.3 | 98.5 | 93.7 | 92.0 |
| 47 | IM 7501 | 98.7 | 110.0 | 92.7 | 88.3 | 91.7 | 102.3 | 94.0 | 96.8 | 88.3 | 89.7 | 89.0 | 84.7 | 85.0 | 96.0 | 91.7 | 89.3 |
| 48 | BH 41015 | 98.0 | 110.0 | 95.3 | 87.0 | 94.3 | 107.7 | 92.3 | 97.8 | 86.3 | 82.0 | 84.2 | 84.7 | 84.7 | 96.0 | 89.0 | 88.6 |
| 49 | BH 41030 | 98.0 | 110.0 | 97.3 | 88.3 | 92.7 | 103.7 | 95.3 | 97.9 | 87.7 | 86.0 | 86.8 | 86.3 | 85.3 | 96.5 | 90.0 | 89.5 |
| 50 | BH 41145 | 98.0 | 110.0 | 93.0 | 88.3 | 95.7 | 102.7 | 93.3 | 97.3 | 87.3 | 83.7 | 85.5 | 86.3 | 84.0 | 96.5 | 89.7 | 89.1 |
| 51 | BH 41150 | 97.3 | 109.0 | 90.7 | 82.0 | 90.7 | 102.0 | 94.7 | 95.2 | 88.3 | 89.0 | 88.7 | 88.3 | 84.7 | 96.0 | 89.3 | 89.6 |
| 52 | BH 411736 | 99.0 | 109.0 | 96.7 | 83.3 | 92.7 | 103.0 | 93.7 | 96.8 | 87.3 | 86.0 | 86.7 | 89.3 | 82.7 | 95.0 | 90.3 | 89.3 |
| 53 | BH 411737 | 98.0 | 108.5 | 94.7 | 84.3 | 94.0 | 106.3 | 94.0 | 97.1 | 83.3 | 88.0 | 85.7 | 84.7 | 83.0 | 94.5 | 90.7 | 88.2 |
| 54 | BH 411520 | 94.3 | 107.5 | 91.7 | 87.7 | 85.3 | 97.7 | 91.0 | 93.6 | 85.3 | 77.0 | 81.2 | 85.7 | 81.3 | 95.5 | 88.0 | 87.6 |
| 55 | VEH 12-1 | 100.0 | 110.0 | 99.3 | 79.7 | 94.7 | 106.0 | 95.3 | 97.9 | 85.3 | 87.0 | 86.2 | 88.7 | 83.7 | 96.0 | 95.0 | 90.8 |
| 56 | X35D620 | 93.7 | 108.0 | 94.7 | 80.0 | 87.7 | 99.7 | 91.7 | 93.6 | 83.3 | 86.0 | 84.7 | 86.7 | 81.0 | 95.5 | 90.0 | 88.3 |
| 57 | X35D623 | 100.3 | 110.0 | 96.7 | 86.0 | 94.3 | 103.0 | 93.7 | 97.7 | 87.3 | 94.7 | 91.0 | 88.0 | 84.3 | 95.0 | 91.7 | 89.8 |
| 58 | X35D602 | 97.3 | 107.5 | 91.7 | 83.0 | 92.0 | 101.7 | 95.3 | 95.5 | 84.3 | 85.7 | 85.0 | 86.7 | 82.0 | 96.5 | 89.3 | 88.6 |
| 59 | X35D603 | 99.3 | 109.0 | 94.7 | 83.7 | 93.0 | 100.3 | 94.7 | 96.4 | 86.3 | 86.7 | 86.5 | 86.3 | 89.0 | 95.5 | 92.7 | 90.9 |
| 60 | Bio 451 | 101.0 | 109.0 | 93.3 | 79.7 | 93.7 | 106.3 | 94.0 | 96.7 | 89.7 | 89.0 | 89.3 | 85.7 | 86.0 | 96.5 | 90.3 | 89.6 |
| 61 | GWH-0711 | 91.0 | 106.5 | 88.0 | 78.7 | 85.0 | 96.0 | 91.0 | 90.9 | 83.0 | 76.0 | 79.5 | 85.7 | 76.0 | 96.0 | 81.3 | 84.8 |
| 62 | REH-2012-1 | 98.3 | 110.0 | 94.7 | 80.7 | 91.3 | 105.0 | 94.3 | 96.3 | 84.3 | 88.7 | 86.5 | 87.3 | 84.0 | 97.5 | 92.7 | 90.4 |
| 63 | REH-2012-2 | 102.0 | 109.0 | 91.3 | 87.7 | 89.0 | 101.0 | 93.3 | 96.2 | 83.3 | 86.0 | 84.7 | 82.7 | 83.3 | 96.0 | 91.3 | 88.3 |
| 64 | REH-2012-4 | 99.7 | 110.0 | 95.0 | 88.7 | 91.3 | 107.7 | 95.0 | 98.2 | 86.3 | 91.3 | 88.8 | 84.0 | 84.0 | 96.5 | 90.7 | 88.8 |
| 65 | JH 31595 | 95.3 | 108.0 | 94.7 | 80.0 | 90.7 | 101.0 | 92.0 | 94.5 | 85.3 | 81.0 | 83.2 | 86.7 | 82.7 | 94.0 | 91.0 | 88.6 |
| 66 | JH 31537 | 93.0 | 107.0 | 89.3 | 84.7 | 87.0 | 102.7 | 94.0 | 94.0 | 85.3 | 85.0 | 85.2 | 82.0 | 81.7 | 97.0 | 88.0 | 87.2 |
| 67 | JH 31604 | 93.3 | 109.0 | 91.7 | 81.0 | 89.3 | 102.3 | 91.7 | 94.0 | 88.7 | 81.7 | 85.2 | 83.3 | 81.3 | 95.5 | 87.7 | 87.0 |
| 68 | JH 31600(JH 31627) | 92.3 | 107.5 | 92.3 | 82.0 | 89.3 | 101.0 | 93.7 | 94.0 | 88.3 | 84.0 | 86.2 | 84.3 | 81.7 | 96.0 | 90.3 | 88.1 |

Table No. 2 (Continued)

| S.No. PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | | |
|------------------|----------------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | ZN 1 | | ZN 2 | | | | ZN 3 | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 69 JH 31244 | 94.0 | 109.0 | 91.0 | 83.0 | 86.7 | 100.0 | 93.3 | 93.9 | 84.3 | 85.7 | 85.0 | 83.0 | 81.7 | 95.5 | 87.3 | 86.9 |
| 70 JH 31554 | 94.3 | 110.0 | 94.3 | 80.7 | 90.3 | 97.3 | 92.7 | 94.2 | 87.3 | 86.3 | 86.8 | 86.3 | 83.0 | 95.5 | 90.0 | 88.7 |
| 71 AH-1226 | 91.7 | 107.5 | 88.0 | 84.3 | 88.3 | 96.0 | 91.7 | 92.5 | 81.3 | 79.3 | 80.3 | 86.7 | 79.3 | 95.0 | 85.0 | 86.5 |
| 72 AH-1262 | 98.0 | 109.0 | 91.0 | 83.7 | 88.0 | 99.3 | 93.0 | 94.6 | 84.3 | 84.7 | 84.5 | 84.3 | 85.3 | 96.5 | 89.7 | 89.0 |
| 73 MMH-2-12-13 | 96.3 | 110.0 | 93.3 | 83.0 | 92.0 | 103.3 | 93.3 | 95.9 | 87.3 | 86.3 | 86.8 | 85.0 | 83.3 | 95.5 | 88.0 | 88.0 |
| 74 MMH-3-12-13 | 95.7 | 110.0 | 94.7 | 80.0 | 92.0 | 102.3 | 93.7 | 95.5 | 87.7 | 87.0 | 87.3 | 84.3 | 82.0 | 95.5 | 93.3 | 88.8 |
| 75 MMH-4-12-13 | 96.0 | 108.0 | 93.3 | 85.7 | 89.7 | 100.0 | 94.3 | 95.3 | 84.3 | 86.7 | 85.5 | 86.0 | 82.7 | 96.0 | 87.7 | 88.1 |
| 76 MMH-5-12-13 | 96.3 | 110.0 | 94.7 | 84.0 | 93.3 | 102.3 | 94.3 | 96.4 | 87.3 | 85.0 | 86.2 | 87.0 | 81.7 | 95.5 | 91.0 | 88.8 |
| 77 HKH 338 | 95.7 | 110.0 | 96.0 | 82.7 | 91.0 | 102.7 | 93.0 | 95.9 | 81.0 | 86.0 | 83.5 | 86.7 | 81.7 | 95.0 | 87.0 | 87.6 |
| 78 HKH 339 | 96.3 | 108.0 | 92.3 | 85.3 | 89.0 | 100.0 | 92.7 | 94.8 | 84.3 | 81.7 | 83.0 | 84.3 | 79.7 | 95.0 | 89.3 | 87.1 |
| 79 HKH 340 | 99.0 | 110.0 | 94.7 | 80.7 | 90.3 | 102.3 | 92.7 | 95.7 | 85.3 | 87.0 | 86.2 | 85.3 | 79.0 | 95.5 | 89.7 | 87.4 |
| 80 KNMH-4302 | 100.0 | 110.0 | 92.3 | 85.7 | 92.3 | 101.7 | 93.0 | 96.4 | 85.3 | 86.3 | 85.8 | 89.0 | 85.0 | 95.5 | 93.7 | 90.8 |
| 81 KNMH-4303 | 96.7 | 110.0 | 91.7 | 84.3 | 93.3 | 101.0 | 94.7 | 96.0 | 85.3 | 86.0 | 85.7 | 87.3 | 86.3 | 96.5 | 94.3 | 91.1 |
| 82 KNMH-4304 | 98.0 | 110.0 | 94.7 | 86.3 | 92.3 | 107.7 | 95.0 | 97.7 | 87.3 | 90.0 | 88.7 | 87.7 | 85.3 | 95.5 | 92.7 | 90.3 |
| 83 KNMH-4305 | 100.3 | 110.0 | 94.3 | 85.3 | 90.0 | 106.0 | 94.7 | 97.2 | 86.7 | 86.7 | 86.7 | 90.3 | 87.7 | 95.5 | 92.0 | 91.4 |
| 84 KNMH-4010131 | 96.0 | 110.0 | 93.3 | 86.0 | 94.0 | 104.3 | 93.7 | 96.8 | 87.3 | 90.3 | 88.8 | 88.3 | 82.7 | 95.5 | 90.0 | 89.1 |
| CHECKS | | | | | | | | | | | | | | | | |
| 85 PMH4 | 91.7 | 108.0 | 89.3 | 83.3 | 86.3 | 99.0 | 91.3 | 92.7 | 82.3 | 80.3 | 81.3 | 88.7 | 80.0 | 95.0 | 88.7 | 88.1 |
| 86 BIO9637 | 95.3 | 109.0 | 93.0 | 85.0 | 90.0 | 101.3 | 91.3 | 95.0 | 83.3 | 80.7 | 82.0 | 82.3 | 83.0 | 95.0 | 92.3 | 88.2 |
| 87 HM12 | 100.0 | 110.0 | 93.0 | 89.0 | 95.3 | 102.7 | 93.7 | 97.7 | 85.3 | 84.0 | 84.7 | 87.3 | 83.5 | 96.0 | 92.7 | 89.9 |
| Loc. Mean | 96.3 | 109.0 | 93.1 | 84.2 | 90.9 | 102.1 | 93.4 | 95.6 | 85.5 | 85.6 | 85.5 | 85.9 | 82.7 | 96.0 | 89.7 | 88.6 |
| C.D. (5%) | 8.56 | 1.60 | 3.15 | 2.77 | 1.59 | 3.56 | 3.31 | 2.25 | 1.83 | 1.91 | 5.06 | 3.06 | 3.34 | 2.23 | 3.32 | 2.34 |
| C.V. (%) | 5.51 | 0.74 | 2.10 | 2.04 | 1.09 | 2.16 | 2.20 | 2.24 | 1.33 | 1.38 | 2.98 | 2.21 | 2.51 | 1.17 | 2.30 | 1.90 |
| F (Prob) | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |

BR102

Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | ZN 5 | | OV'L |
|-------|------------------------|-------|-------|-------|------|-------|------|------|-------|-------|-------|-------|-------|------|------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 1 | QMH-29134 | 102.3 | 98.0 | 90.0 | 88.7 | 103.3 | 96.7 | 95.3 | 106.7 | 116.0 | 99.7 | 99.0 | 104.7 | 93.7 | 99.1 | 96.3 |
| 2 | QMH-2916 | 95.0 | 99.3 | 88.0 | 89.3 | 98.7 | 94.3 | 93.3 | 102.3 | 112.3 | 97.0 | 93.0 | 99.7 | 91.7 | 94.8 | 93.8 |
| 3 | EHL-3412 | 101.0 | 98.0 | 95.0 | 90.0 | 103.7 | 97.3 | 95.3 | 105.0 | 112.7 | 99.8 | 96.0 | 102.7 | 92.7 | 97.1 | 96.3 |
| 4 | EHL-1111 | 100.3 | 95.0 | 95.3 | 91.3 | 97.0 | 93.3 | 92.3 | 106.7 | 113.0 | 98.3 | 92.0 | 98.7 | 90.7 | 93.8 | 93.7 |
| 5 | EHL-3512 | 99.7 | 95.3 | 92.0 | 89.3 | 101.0 | 95.0 | 92.7 | 101.0 | 115.0 | 97.9 | 93.0 | 98.7 | 89.7 | 93.8 | 93.7 |
| 6 | S-6750 | 105.3 | 96.0 | 96.7 | 88.7 | 103.7 | 97.0 | 93.0 | 106.0 | 117.3 | 100.4 | 100.0 | 101.7 | 90.3 | 97.3 | 96.1 |
| 7 | RMH-932 | 103.7 | 96.0 | 95.3 | 90.7 | 104.3 | 97.3 | 98.3 | 102.0 | 118.3 | 100.7 | 100.3 | 102.3 | 90.0 | 97.6 | 96.5 |
| 8 | RMH-3591 | 101.7 | 95.0 | 94.0 | 88.7 | 103.3 | 97.0 | 95.7 | 107.0 | 118.7 | 100.1 | 98.0 | 100.7 | 92.7 | 97.1 | 95.7 |
| 9 | PHM-34(W) | 97.0 | 95.3 | 94.7 | 87.3 | 96.7 | 94.0 | 92.7 | 104.7 | 112.3 | 97.2 | 94.0 | 95.3 | 87.3 | 92.2 | 92.6 |
| 10 | PHM-12(Y) | 97.0 | 90.7 | 93.7 | 90.3 | 98.0 | 96.3 | 95.0 | 101.3 | 113.3 | 97.3 | 93.0 | 97.0 | 90.7 | 93.6 | 93.0 |
| 11 | LG-3271 | 100.3 | 96.0 | 95.7 | 90.3 | 99.7 | 96.3 | 93.0 | 100.0 | 112.3 | 98.2 | 97.0 | 90.3 | 85.7 | 91.0 | 93.3 |
| 12 | LG-3282 | 102.3 | 98.0 | 92.7 | 90.0 | 100.0 | 95.0 | 93.7 | 104.7 | 113.0 | 98.8 | 92.0 | 98.7 | 89.7 | 93.4 | 94.3 |
| 13 | FCH-85 | 96.3 | 98.0 | 93.0 | 90.7 | 102.0 | 97.0 | 93.3 | 102.3 | 114.3 | 98.6 | 94.0 | 99.3 | 92.7 | 95.3 | 94.9 |
| 14 | FCH-184 | 99.7 | 95.7 | 93.0 | 90.7 | 98.3 | 96.0 | 96.0 | 104.3 | 115.0 | 98.7 | 97.0 | 102.3 | 85.7 | 95.0 | 94.5 |
| 15 | FCH-11231 | 103.7 | 94.7 | 95.3 | 88.0 | 103.7 | 97.0 | 93.3 | 101.3 | 119.3 | 99.6 | 96.0 | 99.3 | 91.0 | 95.4 | 95.7 |
| 16 | KMH-6 | 96.3 | 92.7 | 101.0 | 90.3 | 96.0 | 62.7 | 91.7 | 98.7 | 113.3 | 93.6 | 94.0 | 93.7 | 84.3 | 90.7 | 90.8 |
| 17 | KMH-84 | 101.0 | 97.0 | 92.0 | 89.0 | 99.3 | 96.0 | 95.7 | 101.0 | 110.0 | 97.9 | 98.0 | 102.7 | 89.3 | 96.7 | 93.9 |
| 18 | KMH-6681 | 104.3 | 98.0 | 95.3 | 88.3 | 99.0 | 98.3 | 98.7 | 105.0 | 114.7 | 100.2 | 99.3 | 98.7 | 87.0 | 95.0 | 95.0 |
| 19 | KMH-5951 | 104.3 | 99.3 | 93.7 | 90.0 | 101.7 | 96.0 | 94.0 | 105.3 | 113.0 | 99.7 | 94.0 | 97.7 | 85.7 | 92.4 | 94.1 |
| 20 | JKMH-4545 | 96.3 | 95.0 | 92.3 | 91.7 | 92.3 | 95.0 | 92.7 | 101.3 | 107.0 | 96.0 | 94.0 | 94.0 | 83.7 | 90.6 | 91.9 |
| 21 | SAFAL X-2 | 102.3 | 100.0 | 93.3 | 89.3 | 99.0 | 97.7 | 94.3 | 101.7 | 112.3 | 98.9 | 95.0 | 102.3 | 86.3 | 94.6 | 94.7 |
| 22 | Kuber Shakthi | 105.0 | 96.0 | 98.7 | 89.3 | 103.0 | 99.7 | 98.7 | 101.0 | 121.0 | 101.4 | 100.3 | 105.3 | 90.3 | 98.7 | 96.7 |
| 23 | DAS-MH-304 | 95.7 | 96.3 | 92.7 | 89.3 | 102.7 | 95.3 | 93.7 | 105.7 | 112.0 | 98.1 | 97.0 | 99.3 | 89.7 | 95.3 | 94.3 |
| 24 | DAS-MH-305 | 98.7 | 98.7 | 90.7 | 90.0 | 103.0 | 96.3 | 95.7 | 99.0 | 113.7 | 98.4 | 95.0 | 99.0 | 88.3 | 94.1 | 94.5 |
| 25 | KH-517 Gold | 101.7 | 96.7 | 94.7 | 88.7 | 99.0 | 96.0 | 95.0 | 102.7 | 112.3 | 98.5 | 97.0 | 102.7 | 89.7 | 96.4 | 94.7 |
| 26 | KH-2248 | 99.7 | 100.0 | 95.0 | 88.0 | 100.3 | 95.3 | 94.7 | 103.3 | 108.7 | 98.3 | 99.0 | 94.0 | 90.7 | 94.6 | 94.2 |
| 27 | TH-38 | 92.3 | 98.0 | 92.7 | 88.7 | 103.0 | 94.3 | 93.3 | 107.0 | 108.3 | 97.5 | 90.0 | 92.3 | 90.7 | 91.0 | 94.3 |
| 28 | MAHABEEJ-1202(Nirdhar) | 99.0 | 94.7 | 96.0 | 90.7 | 102.7 | 95.0 | 94.7 | 101.7 | 115.0 | 98.8 | 93.0 | 101.7 | 86.7 | 93.8 | 94.0 |
| 29 | KDMH-2705 | 103.0 | 100.0 | 97.0 | 89.3 | 103.0 | 98.7 | 95.7 | 97.7 | 114.0 | 99.8 | 98.0 | 101.3 | 89.3 | 96.2 | 95.7 |
| 30 | EH-2205 | 98.3 | 95.3 | 92.7 | 88.7 | 100.7 | 93.3 | 92.7 | 105.7 | 114.3 | 98.0 | 93.0 | 99.3 | 83.3 | 91.9 | 93.5 |
| 31 | EH-2208 | 99.0 | 97.7 | 94.3 | 89.7 | 103.3 | 95.0 | 93.3 | 100.3 | 114.0 | 98.5 | 95.0 | 97.0 | 85.3 | 92.4 | 93.5 |
| 32 | EH-2240 | 98.3 | 94.7 | 94.3 | 87.7 | 99.3 | 94.0 | 92.0 | 102.0 | 110.7 | 97.0 | 95.0 | 95.7 | 83.7 | 91.4 | 93.1 |
| 33 | VaMH-08015 | 99.7 | 95.0 | 94.0 | 89.0 | 100.3 | 97.3 | 95.7 | 103.0 | 113.7 | 98.6 | 96.7 | 99.0 | 87.3 | 94.3 | 95.4 |
| 34 | PMH-209 | 100.3 | 100.0 | 92.7 | 89.0 | 100.7 | 95.0 | 95.7 | 104.0 | 112.7 | 98.9 | 97.3 | 95.7 | 89.7 | 94.2 | 94.3 |

Table No. 2 (Continued)

| S.No. PEDIGREE | ZN 4 | | | | | | | | | | | | | ZN 5 | | OV'L |
|-----------------------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 35 PRMH-2177 | 99.7 | 94.7 | 94.0 | 90.3 | 98.0 | 96.0 | 93.0 | 100.7 | 115.3 | 98.0 | 92.0 | 98.7 | 85.3 | 92.0 | 93.5 | |
| 36 NMH-1289 | 99.7 | 91.7 | 94.3 | 89.3 | 100.0 | 96.7 | 94.7 | 99.7 | 108.7 | 97.2 | 100.0 | 99.0 | 88.0 | 95.7 | 93.6 | |
| 37 HTMH-5402 | 103.0 | 95.0 | 95.7 | 88.7 | 99.7 | 98.7 | 96.0 | 106.7 | 117.3 | 100.1 | 96.0 | 106.0 | 86.7 | 96.2 | 96.6 | |
| 38 CMH 10-488 | 100.3 | 98.0 | 96.3 | 89.3 | 101.7 | 98.0 | 95.3 | 106.3 | 118.3 | 100.4 | 97.0 | 98.3 | 88.0 | 94.4 | 96.2 | |
| 39 CMH 10-547 | 100.3 | 96.0 | 94.3 | 88.7 | 102.3 | 95.0 | 94.3 | 104.0 | 114.0 | 98.8 | 95.3 | 97.7 | 88.7 | 93.9 | 94.8 | |
| 40 CMH 11-582 | 103.7 | 102.0 | 94.7 | 86.3 | 104.7 | 95.0 | 94.3 | 102.3 | 116.7 | 100.0 | 95.0 | 99.0 | 89.3 | 94.4 | 95.2 | |
| 41 CMH 11-603 | 102.3 | 95.0 | 93.3 | 89.3 | 103.3 | 98.3 | 94.3 | 105.7 | 120.0 | 100.2 | 96.0 | 102.3 | 89.3 | 95.9 | 96.1 | |
| 42 CMH 11-617 | 101.0 | 100.0 | 96.3 | 88.3 | 103.3 | 96.7 | 98.0 | 100.3 | 117.3 | 100.1 | 92.0 | 99.7 | 89.7 | 93.8 | 95.6 | |
| 43 IM8478 | 102.3 | 100.0 | 92.3 | 87.3 | 101.0 | 86.0 | 96.3 | 101.0 | 116.7 | 98.1 | 94.0 | 105.0 | 87.7 | 95.6 | 95.2 | |
| 44 IM8479 | 102.3 | 98.7 | 91.7 | 90.0 | 101.7 | 98.0 | 96.3 | 103.3 | 118.3 | 100.0 | 97.0 | 102.3 | 90.3 | 96.6 | 95.2 | |
| 45 IM8581 | 100.3 | 102.0 | 92.3 | 88.7 | 101.7 | 98.0 | 96.0 | 100.0 | 115.3 | 99.4 | 93.0 | 99.3 | 90.0 | 94.1 | 95.4 | |
| 46 IM 7519 | 107.0 | 103.3 | 94.7 | 90.0 | 104.7 | 97.0 | 94.7 | 105.3 | 120.7 | 101.9 | 102.3 | 105.0 | 91.7 | 99.7 | 97.4 | |
| 47 IM 7501 | 103.0 | 102.0 | 93.0 | 89.3 | 103.3 | 99.3 | 96.7 | 101.0 | 119.3 | 100.8 | 95.0 | 101.7 | 91.7 | 96.1 | 96.3 | |
| 48 BH 41015 | 101.7 | 102.0 | 83.3 | 90.0 | 101.7 | 98.7 | 96.7 | 100.3 | 116.0 | 98.9 | 103.3 | 99.7 | 91.0 | 98.0 | 95.7 | |
| 49 BH 41030 | 101.0 | 95.0 | 96.0 | 89.3 | 103.0 | 97.7 | 96.0 | 104.7 | 115.0 | 99.7 | 100.0 | 101.7 | 90.3 | 97.3 | 96.3 | |
| 50 BH 41145 | 98.7 | 90.7 | 96.0 | 89.7 | 104.0 | 95.7 | 94.0 | 105.0 | 118.7 | 99.1 | 95.0 | 104.7 | 91.7 | 97.1 | 95.7 | |
| 51 BH 41150 | 101.0 | 98.7 | 95.0 | 90.0 | 102.7 | 96.3 | 96.0 | 102.3 | 115.0 | 99.7 | 97.3 | 99.0 | 89.7 | 95.3 | 95.4 | |
| 52 BH 411736 | 103.7 | 102.0 | 92.7 | 89.7 | 102.3 | 97.0 | 94.3 | 102.0 | 116.3 | 100.0 | 93.0 | 101.3 | 89.7 | 94.7 | 95.7 | |
| 53 BH 411737 | 99.7 | 94.7 | 92.7 | 89.3 | 100.0 | 96.7 | 93.3 | 103.7 | 110.3 | 97.8 | 94.0 | 97.3 | 89.0 | 93.4 | 94.6 | |
| 54 BH 411520 | 95.7 | 97.7 | 88.0 | 88.3 | 97.3 | 96.3 | 93.3 | 97.3 | 106.0 | 95.6 | 94.0 | 97.0 | 85.3 | 92.1 | 92.2 | |
| 55 VEH 12-1 | 98.3 | 98.0 | 97.7 | 88.7 | 103.0 | 98.3 | 94.3 | 102.7 | 120.7 | 100.2 | 102.3 | 105.3 | 90.3 | 99.3 | 96.8 | |
| 56 X35D620 | 99.7 | 97.0 | 93.3 | 88.7 | 97.0 | 96.3 | 95.0 | 106.7 | 116.7 | 98.9 | 97.0 | 97.3 | 87.3 | 93.9 | 94.0 | |
| 57 X35D623 | 102.0 | 94.7 | 96.0 | 88.7 | 101.3 | 99.3 | 96.0 | 102.3 | 119.7 | 100.0 | 102.3 | 100.0 | 89.7 | 97.3 | 96.7 | |
| 58 X35D602 | 102.3 | 94.7 | 94.3 | 91.0 | 100.7 | 97.0 | 93.3 | 102.0 | 116.7 | 99.1 | 101.0 | 99.0 | 89.3 | 96.4 | 95.0 | |
| 59 X35D603 | 102.3 | 95.7 | 90.3 | 90.3 | 101.7 | 97.3 | 95.3 | 103.3 | 117.3 | 99.3 | 101.3 | 101.3 | 88.7 | 97.1 | 95.8 | |
| 60 Bio 451 | 104.3 | 100.0 | 96.3 | 88.7 | 102.3 | 98.7 | 97.0 | 101.3 | 114.0 | 100.3 | 101.3 | 103.7 | 89.7 | 98.2 | 96.5 | |
| 61 GWH-0711 | 91.7 | 88.0 | 90.3 | 86.0 | 90.7 | 93.3 | 90.7 | 101.3 | 99.7 | 92.4 | 88.3 | 89.7 | 86.0 | 88.0 | 89.2 | |
| 62 REH-2012-1 | 99.7 | 102.0 | 91.0 | 89.3 | 102.7 | 97.3 | 102.0 | 106.0 | 119.0 | 101.0 | 103.3 | 98.7 | 90.7 | 97.6 | 96.4 | |
| 63 REH-2012-2 | 98.3 | 96.0 | 93.7 | 87.7 | 99.0 | 95.3 | 94.3 | 104.3 | 113.0 | 98.0 | 98.0 | 101.3 | 87.7 | 95.7 | 94.6 | |
| 64 REH-2012-4 | 101.7 | 94.0 | 98.0 | 90.0 | 102.3 | 97.3 | 95.0 | 99.3 | 115.0 | 99.2 | 97.3 | 104.0 | 90.3 | 97.2 | 96.2 | |
| 65 JH 31595 | 101.7 | 99.7 | 94.3 | 89.3 | 104.3 | 96.3 | 96.7 | 101.0 | 119.3 | 100.3 | 98.3 | 100.0 | 88.3 | 95.6 | 94.9 | |
| 66 JH 31537 | 98.3 | 98.0 | 91.0 | 91.0 | 96.3 | 94.3 | 95.0 | 99.3 | 109.3 | 97.0 | 94.0 | 93.7 | 85.0 | 90.9 | 92.9 | |
| 67 JH 31604 | 100.3 | 95.0 | 93.3 | 89.3 | 100.3 | 94.3 | 92.0 | 101.3 | 114.3 | 97.8 | 95.0 | 101.3 | 88.3 | 94.9 | 93.7 | |
| 68 JH 31600(JH 31627) | 98.3 | 96.0 | 95.0 | 90.0 | 99.3 | 95.7 | 93.7 | 102.3 | 114.0 | 98.3 | 92.0 | 97.3 | 88.0 | 92.4 | 93.8 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | |
|-------|------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | ZN 1 | | | | | | | | | | | ZN 2 | | | | ZN 3 | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | QMH-29134 | 253.3 | 209.0 | 211.7 | 238.0 | 191.7 | 289.3 | 203.2 | 228.0 | 220.0 | 255.0 | 247.3 | 240.8 | 188.4 | 190.5 | 204.8 | 187.5 | 192.8 |
| 2 | QMH-2916 | 233.3 | 175.0 | 231.0 | 180.0 | 182.0 | 224.9 | 209.0 | 205.0 | 170.0 | 226.7 | 212.3 | 203.0 | 164.8 | 150.0 | 167.5 | 129.0 | 152.8 |
| 3 | EHL-3412 | 258.3 | 210.5 | 227.0 | 140.7 | 246.7 | 260.1 | 195.2 | 219.8 | 200.0 | 248.3 | 240.3 | 229.6 | 183.7 | 192.0 | 180.2 | 163.0 | 179.7 |
| 4 | EHL-1111 | 226.7 | 196.0 | 235.3 | 184.0 | 222.3 | 246.7 | 212.7 | 217.7 | 200.0 | 226.7 | 244.3 | 223.7 | 169.8 | 173.0 | 172.4 | 167.5 | 170.7 |
| 5 | EHL-3512 | 231.7 | 205.5 | 206.0 | 219.7 | 226.3 | 272.5 | 207.3 | 224.1 | 220.0 | 241.7 | 243.3 | 235.0 | 154.2 | 175.7 | 195.0 | 188.0 | 178.2 |
| 6 | S-6750 | 260.0 | 204.5 | 267.7 | 190.7 | 242.3 | 286.5 | 243.3 | 242.1 | 211.7 | 248.3 | 247.0 | 235.7 | 182.0 | 183.2 | 203.9 | 180.5 | 187.4 |
| 7 | RMH-932 | 211.7 | 188.5 | 255.7 | 212.7 | 214.3 | 254.7 | 212.9 | 221.5 | 210.0 | 230.0 | 244.7 | 228.2 | 193.2 | 186.7 | 178.2 | 146.5 | 176.1 |
| 8 | RMH-3591 | 220.0 | 204.0 | 224.0 | 231.7 | 237.7 | 271.8 | 206.0 | 227.9 | 210.0 | 240.0 | 249.3 | 233.1 | 167.4 | 175.2 | 186.0 | 173.0 | 175.4 |
| 9 | PHM-34(W) | 248.3 | 199.0 | 224.7 | 209.7 | 208.7 | 263.7 | 246.7 | 228.7 | 210.0 | 253.3 | 242.3 | 235.2 | 194.3 | 185.5 | 188.7 | 161.5 | 182.5 |
| 10 | PHM-12(Y) | 215.0 | 178.5 | 242.0 | 193.3 | 226.0 | 263.3 | 199.7 | 216.8 | 210.0 | 250.0 | 235.7 | 231.9 | 161.1 | 176.8 | 183.2 | 175.5 | 174.2 |
| 11 | LG-3271 | 216.7 | 202.0 | 214.7 | 235.7 | 230.3 | 281.3 | 217.0 | 228.2 | 210.0 | 241.7 | 232.7 | 228.1 | 164.4 | 202.8 | 188.9 | 175.0 | 182.8 |
| 12 | LG-3282 | 236.7 | 196.0 | 259.0 | 206.0 | 244.7 | 283.0 | 247.0 | 238.9 | 230.0 | 245.0 | 265.7 | 246.9 | 187.3 | 185.5 | 180.0 | 169.0 | 180.5 |
| 13 | FCH-85 | 273.3 | 213.0 | 226.0 | 179.3 | 266.7 | 283.7 | 225.9 | 238.3 | 248.3 | 275.0 | 267.3 | 263.6 | 199.9 | 184.8 | 210.6 | 188.0 | 195.8 |
| 14 | FCH-184 | 251.7 | 206.0 | 258.7 | 230.3 | 237.0 | 274.3 | 249.0 | 243.9 | 223.3 | 245.0 | 254.7 | 241.0 | 192.7 | 185.8 | 210.0 | 159.0 | 186.9 |
| 15 | FCH-11231 | 275.0 | 229.5 | 250.0 | 260.0 | 286.7 | 313.9 | 222.3 | 262.5 | 260.0 | 270.0 | 256.3 | 262.1 | 197.1 | 204.3 | 213.3 | 216.5 | 207.8 |
| 16 | KMH-6 | 208.3 | 181.0 | 240.0 | 213.0 | 230.0 | 268.5 | 200.5 | 220.2 | 190.0 | 228.3 | 246.0 | 221.4 | 168.3 | 130.3 | 199.1 | 158.0 | 163.9 |
| 17 | KMH-84 | 235.7 | 185.5 | 241.0 | 236.7 | 228.0 | 291.1 | 205.9 | 232.0 | 210.0 | 250.0 | 239.0 | 233.0 | 188.4 | 180.2 | 198.9 | 170.5 | 184.5 |
| 18 | KMH-6681 | 238.3 | 212.5 | 247.7 | 241.0 | 240.0 | 293.0 | 199.9 | 238.9 | 220.0 | 245.0 | 261.3 | 242.1 | 182.3 | 187.5 | 189.5 | 178.0 | 184.3 |
| 19 | KMH-5951 | 240.0 | 223.0 | 249.0 | 135.7 | 256.7 | 300.1 | 208.5 | 230.4 | 208.3 | 260.0 | 266.7 | 245.0 | 207.6 | 164.5 | 195.7 | 189.0 | 189.2 |
| 20 | JKMH-4545 | 240.0 | 204.5 | 256.3 | 238.7 | 243.3 | 285.5 | 204.3 | 238.9 | 210.0 | 246.7 | 255.7 | 237.4 | 193.5 | 185.8 | 203.6 | 171.5 | 188.6 |
| 21 | SAFAL X-2 | 258.3 | 203.0 | 219.0 | 222.0 | 220.3 | 257.5 | 223.5 | 229.1 | 190.0 | 230.0 | 251.7 | 223.9 | 176.1 | 181.3 | 188.6 | 176.0 | 180.5 |
| 22 | Kuber Shakthi | 241.7 | 204.0 | 268.7 | 203.3 | 238.3 | 260.3 | 220.0 | 233.8 | 213.3 | 246.7 | 255.0 | 238.3 | 197.4 | 184.8 | 195.0 | 173.0 | 187.6 |
| 23 | DAS-MH-304 | 258.3 | 215.5 | 268.3 | 215.7 | 220.7 | 277.0 | 246.0 | 243.1 | 220.0 | 243.3 | 261.3 | 241.6 | 200.1 | 181.0 | 221.8 | 172.5 | 193.8 |
| 24 | DAS-MH-305 | 250.7 | 209.5 | 238.0 | 230.7 | 243.0 | 271.5 | 187.0 | 232.9 | 200.0 | 235.0 | 249.0 | 228.0 | 179.0 | 176.7 | 190.2 | 178.0 | 181.0 |
| 25 | KH-517 Gold | 231.7 | 175.5 | 215.7 | 211.7 | 226.7 | 245.1 | 206.7 | 216.1 | 170.0 | 230.0 | 247.7 | 215.9 | 149.0 | 160.8 | 167.9 | 172.5 | 162.6 |
| 26 | KH-2248 | 241.0 | 185.0 | 224.7 | 182.3 | 247.3 | 270.7 | 198.2 | 221.3 | 211.7 | 243.3 | 253.7 | 236.2 | 176.0 | 179.3 | 196.1 | 167.5 | 179.7 |
| 27 | TH-38 | 246.7 | 187.0 | 248.7 | 215.3 | 229.3 | 265.1 | 217.7 | 230.0 | 205.0 | 231.7 | 226.0 | 220.9 | 187.1 | 185.5 | 207.2 | 188.0 | 192.0 |
| 28 | MAHABEEJ-1202(Nirdhar) | 250.0 | 194.0 | 211.0 | 210.7 | 235.7 | 260.0 | 208.3 | 224.2 | 190.0 | 243.3 | 250.0 | 227.8 | 188.2 | 185.0 | 175.9 | 177.5 | 181.6 |
| 29 | KDMH-2705 | 231.7 | 200.5 | 249.7 | 235.0 | 250.0 | 279.5 | 235.3 | 240.2 | 211.7 | 230.0 | 257.7 | 233.1 | 166.6 | 182.0 | 207.2 | 186.5 | 185.6 |
| 30 | EH-2205 | 261.7 | 196.0 | 275.0 | 235.3 | 249.3 | 271.6 | 223.0 | 244.6 | 250.0 | 263.3 | 236.7 | 250.0 | 193.0 | 187.5 | 235.6 | 199.0 | 203.8 |
| 31 | EH-2208 | 238.3 | 199.0 | 244.0 | 221.3 | 245.7 | 288.2 | 238.0 | 239.2 | 208.3 | 235.0 | 256.3 | 233.2 | 184.3 | 202.0 | 196.6 | 195.5 | 194.6 |
| 32 | EH-2240 | 258.3 | 213.5 | 253.0 | 231.7 | 267.7 | 290.7 | 224.7 | 248.5 | 240.0 | 275.0 | 268.3 | 261.1 | 199.0 | 192.3 | 186.4 | 211.5 | 197.3 |
| 33 | VaMH-08015 | 233.3 | 188.5 | 254.0 | 193.7 | 229.0 | 252.3 | 181.7 | 218.9 | 183.3 | 240.0 | 238.7 | 220.7 | 178.5 | 181.2 | 194.1 | 149.0 | 175.7 |
| 34 | PMH-209 | 245.0 | 208.0 | 223.3 | 219.0 | 240.3 | 277.4 | 222.7 | 233.7 | 218.3 | 261.7 | 261.0 | 247.0 | 187.4 | 199.3 | 186.9 | 179.0 | 188.2 |

BR106

Table No. 2 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | |
|-------|--------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 35 | PRMH-2177 | 260.0 | 200.0 | 252.0 | 198.7 | 244.0 | 272.1 | 199.3 | 232.3 | 238.3 | 261.7 | 259.3 | 253.1 | 190.2 | 178.8 | 198.4 | 175.0 | 185.6 |
| 36 | NMH-1289 | 241.7 | 198.0 | 261.0 | 100.0 | 219.3 | 239.8 | 217.0 | 211.0 | 210.0 | 241.7 | 247.0 | 232.9 | 189.0 | 180.7 | 221.3 | 168.0 | 189.7 |
| 37 | HTMH-5402 | 233.3 | 213.0 | 232.0 | 221.0 | 240.7 | 279.9 | 199.0 | 231.3 | 226.7 | 251.7 | 270.7 | 249.7 | 189.0 | 189.0 | 191.7 | 186.5 | 189.1 |
| 38 | CMH 10-488 | 245.0 | 199.5 | 280.7 | 211.3 | 210.3 | 290.8 | 216.9 | 236.4 | 230.0 | 260.0 | 250.3 | 246.8 | 119.5 | 192.5 | 207.7 | 181.5 | 175.3 |
| 39 | CMH 10-547 | 263.3 | 202.5 | 263.7 | 233.0 | 262.0 | 291.3 | 217.2 | 247.6 | 230.0 | 243.3 | 243.7 | 239.0 | 174.0 | 190.5 | 206.3 | 190.0 | 190.2 |
| 40 | CMH 11-582 | 265.0 | 215.0 | 276.0 | 252.3 | 231.0 | 293.8 | 221.7 | 250.7 | 220.0 | 275.0 | 263.0 | 252.7 | 188.4 | 192.3 | 184.2 | 201.5 | 191.6 |
| 41 | CMH 11-603 | 283.3 | 184.5 | 269.0 | 192.3 | 247.3 | 272.8 | 221.0 | 238.6 | 230.0 | 265.0 | 258.3 | 251.1 | 187.7 | 206.5 | 213.1 | 183.0 | 197.6 |
| 42 | CMH 11-617 | 263.3 | 199.0 | 249.0 | 228.7 | 238.7 | 282.5 | 231.3 | 241.8 | 216.7 | 243.3 | 262.0 | 240.7 | 183.0 | 189.8 | 203.7 | 208.0 | 196.1 |
| 43 | IM8478 | 256.7 | 199.5 | 250.7 | 234.3 | 234.0 | 268.5 | 203.5 | 235.3 | 210.0 | 263.3 | 258.0 | 243.8 | 198.0 | 196.0 | 193.0 | 191.5 | 194.6 |
| 44 | IM8479 | 271.7 | 217.5 | 230.0 | 191.7 | 247.0 | 293.7 | 238.0 | 241.4 | 228.3 | 275.0 | 256.3 | 253.2 | 208.8 | 187.7 | 220.3 | 172.5 | 197.3 |
| 45 | IM8581 | 266.7 | 199.0 | 252.0 | 220.7 | 243.7 | 273.2 | 225.5 | 240.1 | 240.0 | 261.7 | 244.3 | 248.7 | 202.1 | 186.2 | 222.7 | 191.5 | 200.6 |
| 46 | IM 7519 | 253.3 | 204.0 | 242.0 | 240.0 | 246.0 | 289.8 | 201.0 | 239.4 | 240.0 | 255.0 | 254.3 | 249.8 | 210.4 | 211.7 | 203.1 | 199.0 | 206.0 |
| 47 | IM 7501 | 276.7 | 214.5 | 286.0 | 173.0 | 296.7 | 299.9 | 258.3 | 257.9 | 253.3 | 280.0 | 293.7 | 275.7 | 211.3 | 226.3 | 193.7 | 204.0 | 208.8 |
| 48 | BH 41015 | 268.3 | 206.0 | 235.3 | 145.0 | 237.3 | 276.1 | 236.7 | 229.3 | 238.3 | 261.7 | 256.0 | 252.0 | 192.1 | 186.7 | 227.8 | 169.0 | 193.9 |
| 49 | BH 41030 | 243.3 | 202.0 | 206.0 | 229.3 | 235.3 | 282.7 | 250.7 | 235.6 | 203.3 | 241.7 | 246.3 | 230.4 | 192.3 | 172.0 | 200.1 | 172.5 | 184.2 |
| 50 | BH 41145 | 251.7 | 208.0 | 234.7 | 208.3 | 229.7 | 274.3 | 215.0 | 231.7 | 220.0 | 248.3 | 235.7 | 234.7 | 184.8 | 193.3 | 194.1 | 181.5 | 188.4 |
| 51 | BH 41150 | 231.7 | 184.0 | 243.3 | 225.0 | 231.3 | 268.0 | 226.3 | 230.0 | 208.3 | 233.3 | 236.3 | 226.0 | 176.8 | 178.7 | 208.1 | 159.0 | 180.7 |
| 52 | BH 411736 | 231.7 | 187.5 | 218.3 | 198.3 | 217.7 | 257.2 | 212.7 | 217.6 | 220.0 | 241.7 | 210.3 | 224.0 | 190.2 | 182.8 | 194.1 | 176.5 | 185.9 |
| 53 | BH 411737 | 241.7 | 183.0 | 238.0 | 212.3 | 240.0 | 250.1 | 170.3 | 219.3 | 215.0 | 250.0 | 231.0 | 232.0 | 191.2 | 176.7 | 177.3 | 165.0 | 177.5 |
| 54 | BH 411520 | 231.7 | 164.5 | 231.0 | 179.3 | 215.3 | 245.0 | 241.0 | 215.4 | 175.0 | 230.0 | 234.0 | 213.0 | 170.2 | 165.3 | 194.4 | 156.5 | 171.6 |
| 55 | VEH 12-1 | 238.3 | 192.5 | 227.7 | 205.0 | 246.3 | 258.5 | 198.2 | 223.8 | 180.0 | 225.0 | 218.0 | 207.7 | 178.3 | 179.7 | 184.2 | 151.5 | 173.4 |
| 56 | X35D620 | 235.0 | 206.0 | 252.7 | 229.3 | 237.3 | 251.5 | 246.3 | 236.9 | 206.7 | 240.0 | 256.3 | 234.3 | 195.8 | 194.5 | 187.2 | 157.5 | 183.7 |
| 57 | X35D623 | 263.3 | 191.0 | 262.0 | 183.0 | 234.7 | 280.3 | 189.3 | 229.1 | 238.3 | 275.0 | 269.7 | 261.0 | 173.8 | 202.5 | 213.8 | 194.0 | 196.0 |
| 58 | X35D602 | 256.7 | 241.5 | 220.7 | 212.7 | 244.0 | 283.1 | 213.0 | 238.8 | 230.0 | 270.0 | 245.7 | 248.6 | 183.9 | 199.7 | 207.6 | 174.0 | 191.3 |
| 59 | X35D603 | 245.0 | 181.0 | 254.3 | 211.7 | 242.0 | 278.0 | 207.5 | 231.4 | 230.0 | 258.3 | 289.3 | 259.2 | 183.4 | 195.3 | 149.0 | 191.5 | 179.8 |
| 60 | Bio 451 | 236.7 | 192.0 | 258.0 | 225.0 | 245.7 | 252.3 | 222.0 | 233.1 | 193.3 | 225.0 | 234.0 | 217.4 | 177.0 | 193.2 | 197.7 | 169.0 | 184.2 |
| 61 | GWH-0711 | 220.0 | 194.0 | 224.7 | 231.7 | 224.3 | 267.1 | 196.7 | 222.6 | 216.7 | 243.3 | 231.0 | 230.3 | 185.0 | 179.7 | 167.7 | 165.5 | 174.5 |
| 62 | REH-2012-1 | 210.0 | 199.5 | 245.7 | 218.3 | 226.0 | 259.7 | 197.5 | 222.4 | 190.0 | 241.7 | 235.3 | 222.3 | 193.4 | 189.8 | 190.1 | 189.0 | 190.6 |
| 63 | REH-2012-2 | 270.0 | 209.0 | 262.0 | 224.3 | 255.3 | 253.3 | 213.0 | 241.0 | 210.0 | 251.7 | 271.0 | 244.2 | 181.8 | 195.3 | 193.7 | 169.0 | 185.0 |
| 64 | REH-2012-4 | 251.7 | 188.5 | 231.0 | 245.3 | 227.3 | 245.3 | 176.3 | 223.6 | 208.3 | 230.0 | 206.7 | 215.0 | 173.7 | 187.3 | 206.6 | 172.5 | 185.0 |
| 65 | JH 31595 | 241.7 | 216.5 | 256.3 | 149.3 | 245.3 | 282.7 | 247.7 | 234.2 | 236.7 | 256.7 | 251.0 | 248.1 | 173.2 | 185.5 | 209.7 | 188.0 | 189.1 |
| 66 | JH 31537 | 223.3 | 191.0 | 250.0 | 226.3 | 224.7 | 253.0 | 233.0 | 228.8 | 218.3 | 225.0 | 235.7 | 226.3 | 173.4 | 176.5 | 201.4 | 159.0 | 177.6 |
| 67 | JH 31604 | 258.3 | 197.0 | 236.7 | 226.7 | 246.7 | 278.0 | 250.0 | 241.9 | 251.7 | 265.0 | 253.3 | 256.7 | 182.0 | 193.5 | 196.1 | 193.0 | 191.1 |
| 68 | JH 31600(JH 31627) | 251.7 | 206.0 | 250.7 | 219.0 | 246.3 | 289.3 | 203.7 | 238.1 | 236.7 | 251.7 | 255.7 | 248.0 | 191.5 | 180.5 | 213.6 | 168.0 | 188.4 |

Table No. 2 (Continued)

| S.No. PEDIGREE | PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | |
|------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 69 JH 31244 | 205.0 | 177.0 | 228.0 | 228.3 | 215.7 | 273.7 | 225.3 | 221.9 | 210.0 | 238.3 | 253.3 | 233.9 | 182.6 | 177.8 | 174.9 | 179.0 | 178.6 |
| 70 JH 31554 | 245.0 | 196.5 | 221.7 | 197.7 | 229.0 | 283.2 | 246.7 | 231.4 | 188.3 | 243.3 | 264.7 | 232.1 | 176.8 | 173.7 | 190.1 | 148.0 | 172.2 |
| 71 AH-1226 | 235.0 | 178.0 | 226.3 | 204.3 | 220.7 | 247.9 | 192.0 | 214.9 | 218.3 | 261.7 | 240.3 | 240.1 | 178.4 | 174.8 | 193.8 | 168.0 | 178.8 |
| 72 AH-1262 | 240.0 | 173.5 | 264.0 | 171.0 | 229.7 | 265.7 | 186.0 | 218.5 | 200.0 | 250.0 | 281.0 | 243.7 | 182.3 | 195.7 | 167.8 | 205.0 | 187.7 |
| 73 MMH-2-12-13 | 273.3 | 208.0 | 266.0 | 240.0 | 246.0 | 291.3 | 233.3 | 251.1 | 230.0 | 275.0 | 260.0 | 255.0 | 176.2 | 185.3 | 210.6 | 186.5 | 189.7 |
| 74 MMH-3-12-13 | 265.0 | 202.0 | 229.0 | 229.0 | 245.7 | 269.9 | 229.7 | 238.6 | 240.0 | 273.3 | 245.7 | 253.0 | 190.4 | 197.5 | 200.1 | 160.0 | 187.0 |
| 75 MMH-4-12-13 | 231.7 | 211.0 | 227.7 | 234.7 | 231.3 | 272.1 | 225.2 | 233.4 | 201.7 | 256.7 | 248.7 | 235.7 | 163.8 | 188.7 | 183.8 | 186.5 | 180.7 |
| 76 MMH-5-12-13 | 230.0 | 195.5 | 248.0 | 215.7 | 224.0 | 240.3 | 215.0 | 224.1 | 200.0 | 230.0 | 222.0 | 217.3 | 179.7 | 180.3 | 170.9 | 135.5 | 166.6 |
| 77 HKH 338 | 266.7 | 196.0 | 223.0 | 240.7 | 239.3 | 257.0 | 203.0 | 232.2 | 221.7 | 248.3 | 254.0 | 241.3 | 179.8 | 180.5 | 192.7 | 163.0 | 179.0 |
| 78 HKH 339 | 240.0 | 205.0 | 242.7 | 212.0 | 244.0 | 285.5 | 207.3 | 233.8 | 220.0 | 243.3 | 245.0 | 236.1 | 184.9 | 179.4 | 203.5 | 169.0 | 184.2 |
| 79 HKH 340 | 245.0 | 197.0 | 238.7 | 190.7 | 233.7 | 277.7 | 200.1 | 226.1 | 175.0 | 240.0 | 227.7 | 214.2 | 183.5 | 164.8 | 191.1 | 143.0 | 170.6 |
| 80 KNMH-4302 | 268.3 | 210.5 | 273.3 | 248.3 | 268.7 | 302.7 | 233.3 | 257.9 | 260.0 | 280.0 | 287.7 | 275.9 | 181.7 | 200.0 | 204.3 | 190.0 | 194.0 |
| 81 KNMH-4303 | 241.7 | 205.5 | 263.0 | 246.7 | 243.3 | 303.3 | 218.7 | 246.0 | 220.0 | 251.7 | 287.0 | 252.9 | 183.7 | 198.2 | 211.1 | 197.5 | 197.6 |
| 82 KNMH-4304 | 271.7 | 209.0 | 251.0 | 175.7 | 246.3 | 277.7 | 208.9 | 234.3 | 200.0 | 268.3 | 275.3 | 247.9 | 226.6 | 203.8 | 207.4 | 197.5 | 208.8 |
| 83 KNMH-4305 | 266.7 | 221.0 | 259.7 | 253.0 | 235.3 | 283.7 | 254.7 | 253.4 | 221.7 | 258.3 | 252.0 | 244.0 | 197.4 | 201.2 | 240.5 | 208.0 | 211.8 |
| 84 KNMH-4010131 | 266.7 | 224.0 | 243.0 | 218.0 | 252.3 | 300.7 | 239.0 | 249.1 | 258.3 | 270.0 | 291.3 | 273.2 | 191.9 | 235.2 | 237.2 | 206.5 | 217.7 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 85 PMH4 | 223.3 | 190.0 | 268.0 | 226.3 | 229.7 | 243.9 | 240.7 | 231.7 | 210.0 | 231.7 | 255.0 | 232.2 | 181.7 | 180.2 | 185.6 | 157.5 | 176.2 |
| 86 BIO9637 | 263.3 | 203.5 | 274.0 | 181.7 | 245.3 | 279.0 | 252.0 | 242.7 | 266.7 | 251.7 | 299.0 | 272.4 | 217.9 | 200.8 | 182.4 | 200.5 | 200.4 |
| 87 HM12 | 250.0 | 199.0 | 230.3 | 193.7 | 222.3 | 271.3 | 203.7 | 224.3 | 180.0 | 231.7 | 221.3 | 211.0 | 153.0 | 164.3 | 195.1 | 130.0 | 160.6 |
| Loc. Mean | 246.3 | 199.9 | 243.9 | 211.7 | 237.0 | 272.8 | 217.9 | 232.8 | 216.1 | 249.2 | 251.0 | 238.8 | 184.0 | 186.2 | 196.7 | 176.7 | 185.9 |
| C.D. (5%) | 27.99 | 27.89 | 10.09 | 18.94 | 7.18 | 16.03 | 38.44 | 17.83 | 10.03 | 18.17 | 23.63 | 18.88 | 28.93 | 27.69 | 26.54 | 16.33 | 17.93 |
| C.V. (%) | 7.05 | 7.02 | 2.57 | 5.55 | 1.88 | 3.65 | 10.94 | 7.29 | 2.88 | 4.52 | 5.84 | 4.90 | 9.75 | 9.23 | 6.79 | 5.73 | 6.93 |
| F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 1 | QMH-29134 | 194.0 | 205.1 | 182.0 | 198.3 | 183.3 | 247.0 | 194.0 | 134.7 | 138.0 | 186.3 | 249.5 | 146.7 | 200.0 | 198.7 | 206.2 | |
| 2 | QMH-2916 | 169.5 | 164.9 | 166.0 | 141.0 | 165.0 | 232.0 | 181.3 | 128.9 | 111.0 | 162.2 | 202.7 | 135.0 | 171.7 | 169.8 | 177.9 | |
| 3 | EHL-3412 | 188.5 | 193.0 | 164.3 | 201.0 | 196.7 | 234.0 | 191.3 | 124.7 | 120.0 | 179.3 | 235.4 | 135.0 | 175.0 | 181.8 | 196.3 | |
| 4 | EHL-1111 | 167.0 | 180.9 | 160.3 | 181.3 | 173.3 | 225.7 | 181.7 | 135.5 | 105.3 | 167.9 | 224.3 | 131.7 | 180.0 | 178.6 | 189.4 | |
| 5 | EHL-3512 | 204.5 | 201.0 | 194.3 | 195.7 | 205.0 | 240.7 | 193.0 | 147.4 | 109.0 | 187.8 | 233.1 | 125.0 | 208.7 | 188.9 | 201.7 | |
| 6 | S-6750 | 206.0 | 209.0 | 191.0 | 187.3 | 195.0 | 233.7 | 199.7 | 133.8 | 122.7 | 186.5 | 252.5 | 140.0 | 210.0 | 200.8 | 208.9 | |
| 7 | RMH-932 | 173.5 | 160.8 | 191.0 | 181.0 | 176.7 | 229.0 | 184.7 | 118.3 | 120.0 | 170.6 | 220.4 | 128.3 | 184.3 | 177.7 | 192.6 | |
| 8 | RMH-3591 | 194.5 | 191.8 | 177.3 | 190.3 | 196.7 | 239.3 | 189.7 | 142.8 | 104.3 | 180.8 | 230.7 | 133.3 | 200.0 | 188.0 | 199.5 | |
| 9 | PHM-34(W) | 188.5 | 175.3 | 190.0 | 184.0 | 183.3 | 234.3 | 185.7 | 133.0 | 123.7 | 177.5 | 229.7 | 148.3 | 203.3 | 193.8 | 200.6 | |
| 10 | PHM-12(Y) | 180.5 | 190.3 | 177.0 | 195.0 | 193.3 | 241.7 | 188.7 | 130.8 | 113.0 | 178.9 | 231.5 | 146.7 | 185.3 | 187.8 | 195.5 | |
| 11 | LG-3271 | 187.5 | 190.3 | 193.7 | 174.7 | 196.7 | 233.7 | 196.3 | 136.2 | 111.3 | 180.0 | 248.1 | 153.3 | 230.0 | 210.5 | 202.5 | |
| 12 | LG-3282 | 187.5 | 182.1 | 189.7 | 194.0 | 183.3 | 227.7 | 190.3 | 133.5 | 116.0 | 178.2 | 224.1 | 138.3 | 205.0 | 189.1 | 204.1 | |
| 13 | FCH-85 | 189.0 | 191.1 | 212.7 | 196.0 | 203.3 | 244.7 | 206.3 | 133.4 | 113.0 | 187.7 | 269.3 | 143.3 | 216.7 | 209.8 | 213.9 | |
| 14 | FCH-184 | 191.5 | 196.7 | 199.3 | 197.0 | 198.3 | 240.0 | 190.7 | 147.1 | 105.7 | 185.1 | 241.9 | 145.0 | 213.3 | 200.1 | 209.4 | |
| 15 | FCH-11231 | 214.5 | 233.2 | 222.7 | 222.3 | 208.3 | 258.0 | 209.7 | 147.2 | 123.3 | 204.4 | 265.3 | 170.0 | 225.0 | 220.1 | 229.0 | |
| 16 | KMH-6 | 179.5 | 175.1 | 178.0 | 185.7 | 183.3 | 242.7 | 183.7 | 156.1 | 109.7 | 177.1 | 225.2 | 126.7 | 181.7 | 177.8 | 191.9 | |
| 17 | KMH-84 | 202.0 | 172.5 | 184.0 | 188.7 | 180.0 | 245.7 | 196.0 | 146.1 | 128.3 | 182.6 | 232.7 | 135.0 | 205.0 | 190.9 | 203.0 | |
| 18 | KMH-6681 | 199.0 | 193.4 | 181.3 | 203.3 | 191.7 | 234.3 | 203.3 | 133.0 | 127.0 | 185.2 | 240.3 | 136.7 | 190.0 | 189.0 | 206.5 | |
| 19 | KMH-5951 | 197.5 | 195.8 | 209.0 | 206.3 | 198.3 | 250.0 | 207.3 | 145.3 | 104.7 | 190.5 | 265.0 | 151.7 | 220.0 | 212.2 | 209.8 | |
| 20 | JKMH-4545 | 185.0 | 175.7 | 196.3 | 202.7 | 173.3 | 231.3 | 194.0 | 144.0 | 119.7 | 180.2 | 247.3 | 140.0 | 206.7 | 198.0 | 206.0 | |
| 21 | SAFAL X-2 | 197.5 | 184.3 | 181.0 | 185.0 | 196.7 | 229.0 | 198.0 | 125.3 | 102.0 | 177.6 | 246.7 | 141.7 | 195.0 | 194.5 | 199.2 | |
| 22 | Kuber Shakthi | 181.0 | 169.6 | 204.0 | 214.0 | 180.0 | 242.3 | 193.0 | 121.3 | 93.0 | 177.6 | 214.2 | 135.0 | 196.7 | 182.0 | 201.8 | |
| 23 | DAS-MH-304 | 199.5 | 210.0 | 202.7 | 195.7 | 208.3 | 251.3 | 216.0 | 141.2 | 126.3 | 194.6 | 257.0 | 145.0 | 208.3 | 203.4 | 214.0 | |
| 24 | DAS-MH-305 | 187.5 | 182.3 | 186.3 | 189.3 | 185.0 | 225.3 | 187.0 | 119.5 | 110.3 | 174.7 | 240.2 | 135.0 | 195.0 | 190.1 | 199.3 | |
| 25 | KH-517 Gold | 160.0 | 162.9 | 180.7 | 168.3 | 178.3 | 225.3 | 193.7 | 130.3 | 98.7 | 166.5 | 218.4 | 130.0 | 181.7 | 176.7 | 186.1 | |
| 26 | KH-2248 | 180.0 | 182.8 | 178.0 | 199.7 | 195.0 | 251.3 | 184.0 | 141.4 | 107.3 | 179.9 | 226.5 | 141.7 | 200.0 | 189.4 | 198.6 | |
| 27 | TH-38 | 190.5 | 195.1 | 195.3 | 189.0 | 205.0 | 238.0 | 189.3 | 148.5 | 110.3 | 184.6 | 235.9 | 146.7 | 212.3 | 198.3 | 203.7 | |
| 28 | MAHABEEJ-1202(Nirdhar) | 191.5 | 178.7 | 186.3 | 212.7 | 206.7 | 234.3 | 186.0 | 131.9 | 115.3 | 182.6 | 223.1 | 133.3 | 195.0 | 183.8 | 199.0 | |
| 29 | KDMH-2705 | 180.0 | 181.9 | 182.7 | 182.7 | 211.7 | 233.0 | 196.3 | 132.1 | 123.7 | 180.4 | 231.8 | 145.0 | 205.0 | 193.9 | 205.0 | |
| 30 | EH-2205 | 198.0 | 201.8 | 207.0 | 208.3 | 191.7 | 229.3 | 193.3 | 140.0 | 138.7 | 189.8 | 226.1 | 146.7 | 218.3 | 197.0 | 214.5 | |
| 31 | EH-2208 | 189.5 | 204.1 | 198.7 | 200.7 | 203.3 | 249.3 | 197.7 | 149.3 | 121.3 | 190.4 | 220.3 | 146.7 | 206.7 | 191.2 | 209.2 | |
| 32 | EH-2240 | 202.0 | 191.8 | 202.0 | 216.0 | 196.7 | 236.0 | 196.3 | 143.2 | 120.0 | 189.3 | 244.9 | 138.3 | 235.0 | 206.1 | 216.7 | |
| 33 | VaMH-08015 | 182.0 | 199.7 | 183.0 | 191.0 | 180.0 | 241.3 | 186.0 | 131.1 | 107.0 | 177.9 | 228.5 | 125.0 | 186.7 | 180.1 | 193.8 | |
| 34 | PMH-209 | 197.5 | 211.7 | 201.7 | 197.7 | 208.3 | 244.3 | 199.0 | 145.4 | 117.0 | 191.4 | 247.5 | 148.3 | 208.3 | 201.4 | 209.9 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | OV'L |
|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | | | | | | | | | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 35 | PRMH-2177 | 213.5 | 197.9 | 188.7 | 198.3 | 200.0 | 244.7 | 204.3 | 155.0 | 111.3 | 190.4 | 246.5 | 146.7 | 228.3 | 207.2 | 210.1 | |
| 36 | NMH-1289 | 176.5 | 198.9 | 198.3 | 177.3 | 186.7 | 242.0 | 194.7 | 144.2 | 97.3 | 179.6 | 226.7 | 143.3 | 198.3 | 189.4 | 196.9 | |
| 37 | HTMH-5402 | 182.5 | 195.9 | 180.7 | 215.0 | 208.3 | 239.3 | 190.7 | 122.4 | 127.0 | 184.6 | 229.1 | 140.0 | 213.0 | 194.0 | 206.5 | |
| 38 | CMH 10-488 | 189.5 | 194.5 | 192.7 | 208.3 | 200.0 | 241.7 | 204.0 | 160.7 | 130.0 | 191.3 | 237.1 | 158.3 | 226.7 | 207.4 | 209.2 | |
| 39 | CMH 10-547 | 200.0 | 211.7 | 209.3 | 222.0 | 198.3 | 250.7 | 211.0 | 152.5 | 125.3 | 197.9 | 250.1 | 176.7 | 215.7 | 214.2 | 216.7 | |
| 40 | CMH 11-582 | 212.5 | 201.2 | 192.0 | 200.0 | 220.0 | 251.3 | 202.3 | 148.4 | 116.3 | 193.8 | 234.3 | 153.3 | 230.0 | 205.9 | 217.0 | |
| 41 | CMH 11-603 | 203.5 | 201.8 | 209.7 | 213.7 | 208.3 | 249.0 | 201.0 | 136.4 | 126.0 | 194.4 | 226.1 | 146.7 | 215.0 | 195.9 | 213.5 | |
| 42 | CMH 11-617 | 202.0 | 196.2 | 207.0 | 196.0 | 215.0 | 243.7 | 200.0 | 142.5 | 114.0 | 190.7 | 248.6 | 148.3 | 218.3 | 205.1 | 212.7 | |
| 43 | IM8478 | 191.0 | 191.3 | 198.7 | 204.0 | 208.3 | 240.3 | 195.7 | 126.6 | 137.7 | 188.2 | 237.7 | 151.7 | 208.3 | 199.2 | 209.5 | |
| 44 | IM8479 | 192.0 | 201.5 | 201.3 | 194.3 | 211.7 | 245.3 | 198.0 | 132.6 | 141.7 | 190.9 | 238.7 | 165.0 | 210.0 | 204.6 | 214.3 | |
| 45 | IM8581 | 187.0 | 183.5 | 193.7 | 184.0 | 195.0 | 247.0 | 193.0 | 130.6 | 111.3 | 180.6 | 239.9 | 145.0 | 205.0 | 196.6 | 209.4 | |
| 46 | IM 7519 | 210.0 | 221.2 | 224.3 | 214.3 | 218.3 | 248.7 | 207.7 | 139.2 | 136.7 | 202.3 | 248.0 | 141.7 | 225.0 | 204.9 | 218.6 | |
| 47 | IM 7501 | 217.0 | 203.2 | 226.3 | 215.0 | 241.7 | 254.7 | 211.7 | 147.3 | 129.3 | 205.1 | 274.5 | 166.7 | 241.7 | 227.6 | 230.6 | |
| 48 | BH 41015 | 179.5 | 183.0 | 202.3 | 180.7 | 181.7 | 251.7 | 191.0 | 128.9 | 105.3 | 178.2 | 234.9 | 153.3 | 208.3 | 198.9 | 205.3 | |
| 49 | BH 41030 | 187.5 | 195.7 | 206.3 | 189.7 | 200.0 | 239.3 | 202.7 | 148.5 | 117.3 | 187.5 | 239.9 | 138.3 | 205.0 | 194.4 | 205.7 | |
| 50 | BH 41145 | 183.5 | 199.8 | 198.3 | 200.7 | 216.7 | 254.3 | 208.3 | 142.0 | 120.3 | 191.6 | 241.4 | 143.3 | 191.7 | 192.1 | 206.9 | |
| 51 | BH 41150 | 174.5 | 188.6 | 183.3 | 176.7 | 185.0 | 227.7 | 197.3 | 137.1 | 117.7 | 176.4 | 230.9 | 136.7 | 211.7 | 193.1 | 199.1 | |
| 52 | BH 411736 | 172.5 | 204.3 | 187.7 | 183.7 | 198.3 | 234.7 | 184.0 | 141.4 | 123.7 | 181.1 | 222.7 | 141.7 | 195.0 | 186.4 | 197.3 | |
| 53 | BH 411737 | 186.5 | 177.6 | 163.3 | 171.7 | 186.7 | 227.0 | 188.0 | 132.1 | 92.0 | 169.4 | 212.4 | 133.3 | 196.7 | 180.8 | 192.6 | |
| 54 | BH 411520 | 165.5 | 173.0 | 177.3 | 165.7 | 186.7 | 236.3 | 190.0 | 123.1 | 95.7 | 168.1 | 220.1 | 141.7 | 195.0 | 185.6 | 188.6 | |
| 55 | VEH 12-1 | 172.0 | 181.1 | 192.3 | 178.0 | 201.7 | 227.3 | 178.0 | 138.2 | 100.7 | 174.4 | 214.4 | 133.3 | 212.7 | 186.8 | 192.8 | |
| 56 | X35D620 | 188.5 | 178.7 | 185.7 | 186.0 | 198.3 | 239.3 | 188.3 | 141.5 | 112.3 | 179.9 | 230.2 | 135.0 | 200.0 | 188.4 | 203.1 | |
| 57 | X35D623 | 201.5 | 207.9 | 207.0 | 217.0 | 203.3 | 251.3 | 202.0 | 144.5 | 126.7 | 195.7 | 249.5 | 156.7 | 226.7 | 211.0 | 214.0 | |
| 58 | X35D602 | 210.0 | 204.1 | 202.7 | 217.3 | 218.3 | 247.3 | 203.7 | 156.1 | 109.7 | 196.6 | 234.9 | 160.0 | 193.3 | 196.1 | 213.1 | |
| 59 | X35D603 | 186.5 | 190.1 | 175.3 | 211.0 | 186.7 | 242.3 | 196.7 | 146.9 | 103.3 | 182.1 | 237.7 | 140.0 | 212.7 | 196.8 | 205.6 | |
| 60 | Bio 451 | 184.0 | 182.1 | 183.7 | 179.3 | 168.3 | 232.3 | 190.3 | 126.0 | 113.3 | 173.3 | 225.3 | 141.7 | 188.3 | 185.1 | 197.5 | |
| 61 | GWH-0711 | 172.5 | 167.8 | 188.3 | 170.7 | 178.3 | 220.7 | 186.3 | 141.8 | 104.3 | 170.1 | 224.3 | 133.3 | 210.0 | 189.2 | 194.1 | |
| 62 | REH-2012-1 | 197.0 | 196.1 | 186.0 | 199.3 | 213.3 | 234.7 | 188.3 | 133.7 | 116.7 | 185.0 | 234.5 | 168.3 | 182.7 | 195.2 | 201.4 | |
| 63 | REH-2012-2 | 192.5 | 191.7 | 187.3 | 192.0 | 186.7 | 234.7 | 193.0 | 138.1 | 125.0 | 182.3 | 229.7 | 145.0 | 185.0 | 186.6 | 206.2 | |
| 64 | REH-2012-4 | 186.5 | 193.7 | 190.0 | 198.0 | 163.3 | 229.3 | 184.3 | 126.3 | 126.0 | 177.5 | 213.8 | 133.3 | 171.7 | 172.9 | 194.9 | |
| 65 | JH 31595 | 206.0 | 191.9 | 205.7 | 208.3 | 218.3 | 244.7 | 199.3 | 148.9 | 122.3 | 193.9 | 243.2 | 153.3 | 233.3 | 210.0 | 212.1 | |
| 66 | JH 31537 | 180.5 | 180.4 | 180.7 | 185.0 | 198.3 | 237.3 | 193.7 | 134.5 | 118.7 | 178.8 | 230.1 | 125.0 | 183.3 | 179.5 | 197.6 | |
| 67 | JH 31604 | 191.5 | 182.3 | 178.0 | 205.0 | 193.3 | 231.3 | 184.3 | 133.9 | 110.0 | 178.8 | 231.8 | 141.7 | 221.7 | 198.4 | 208.9 | |
| 68 | JH 31600(JH 31627) | 188.0 | 198.1 | 181.0 | 187.3 | 198.3 | 254.3 | 203.3 | 142.4 | 121.0 | 186.0 | 225.4 | 138.3 | 211.7 | 191.8 | 208.2 | |

Table No. 2 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | | | |
|-------|------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| | | ZN 1 | | | | | | | | | | ZN 2 | | | ZN 3 | | |
| | | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | RANC | VARA | Mean |
| 1 | QMH-29134 | 135.0 | 102.0 | 111.3 | 116.7 | 125.3 | 118.7 | 102.5 | 115.9 | 85.0 | 135.0 | 107.7 | 109.2 | 87.4 | 95.2 | 102.5 | 95.0 |
| 2 | QMH-2916 | 116.7 | 88.0 | 111.3 | 86.7 | 108.3 | 102.5 | 95.0 | 101.2 | 90.0 | 120.0 | 92.7 | 100.9 | 74.3 | 79.6 | 59.0 | 71.0 |
| 3 | EHL-3412 | 153.3 | 125.5 | 119.3 | 78.3 | 134.3 | 117.7 | 98.7 | 118.2 | 90.0 | 131.7 | 112.3 | 111.3 | 78.6 | 81.3 | 80.5 | 80.1 |
| 4 | EHL-1111 | 120.0 | 98.0 | 141.7 | 71.7 | 121.0 | 107.9 | 104.0 | 109.2 | 88.3 | 113.3 | 107.3 | 103.0 | 82.4 | 83.1 | 71.0 | 78.8 |
| 5 | EHL-3512 | 115.0 | 104.5 | 102.3 | 101.7 | 116.3 | 118.1 | 96.3 | 107.7 | 120.0 | 127.7 | 111.3 | 119.7 | 73.5 | 88.9 | 96.5 | 86.3 |
| 6 | S-6750 | 131.7 | 102.0 | 146.3 | 93.3 | 129.3 | 118.6 | 109.0 | 118.6 | 105.0 | 126.7 | 102.7 | 111.4 | 80.6 | 98.5 | 87.5 | 88.9 |
| 7 | RMH-932 | 101.7 | 81.0 | 134.0 | 96.7 | 99.3 | 98.0 | 101.0 | 101.7 | 80.0 | 98.3 | 99.7 | 92.7 | 82.6 | 83.9 | 50.0 | 72.2 |
| 8 | RMH-3591 | 100.0 | 99.5 | 115.3 | 103.3 | 127.0 | 107.5 | 102.7 | 107.9 | 90.0 | 113.3 | 112.0 | 105.1 | 73.1 | 82.1 | 87.5 | 80.9 |
| 9 | PHM-34(W) | 135.0 | 89.0 | 129.3 | 106.7 | 102.7 | 96.0 | 104.1 | 109.0 | 100.0 | 120.0 | 99.7 | 106.6 | 86.8 | 83.9 | 69.0 | 79.9 |
| 10 | PHM-12(Y) | 111.7 | 90.5 | 136.7 | 86.7 | 112.7 | 122.8 | 102.0 | 109.0 | 90.0 | 133.3 | 105.7 | 109.7 | 81.8 | 83.7 | 94.0 | 86.5 |
| 11 | LG-3271 | 98.3 | 81.0 | 118.7 | 116.7 | 95.7 | 97.3 | 99.2 | 101.0 | 85.0 | 96.7 | 94.7 | 92.1 | 72.6 | 76.6 | 70.5 | 73.2 |
| 12 | LG-3282 | 115.0 | 93.5 | 144.3 | 103.3 | 129.7 | 112.6 | 108.0 | 115.2 | 120.0 | 120.0 | 118.3 | 119.4 | 88.5 | 77.2 | 75.0 | 80.2 |
| 13 | FCH-85 | 148.3 | 119.5 | 122.7 | 91.7 | 140.3 | 115.1 | 98.2 | 119.4 | 138.3 | 133.3 | 125.3 | 132.3 | 93.1 | 111.7 | 96.5 | 100.4 |
| 14 | FCH-184 | 135.0 | 104.5 | 154.3 | 118.3 | 115.7 | 104.0 | 114.1 | 120.8 | 116.7 | 130.0 | 111.3 | 119.3 | 83.4 | 101.6 | 80.0 | 88.3 |
| 15 | FCH-11231 | 158.3 | 124.5 | 132.0 | 138.3 | 161.7 | 147.1 | 112.0 | 139.1 | 125.0 | 148.3 | 113.3 | 128.9 | 92.6 | 99.8 | 116.5 | 103.0 |
| 16 | KMH-6 | 126.7 | 95.0 | 124.7 | 111.0 | 125.3 | 107.4 | 99.7 | 112.8 | 110.0 | 111.7 | 114.0 | 111.9 | 73.9 | 154.9 | 85.0 | 104.6 |
| 17 | KMH-84 | 123.3 | 99.5 | 121.3 | 106.7 | 118.3 | 121.7 | 103.5 | 113.5 | 85.0 | 128.3 | 112.7 | 108.7 | 87.1 | 89.7 | 90.5 | 89.1 |
| 18 | KMH-6681 | 122.7 | 98.0 | 128.0 | 121.7 | 115.0 | 119.8 | 96.0 | 114.4 | 100.0 | 123.3 | 112.3 | 111.9 | 70.3 | 86.9 | 81.5 | 79.6 |
| 19 | KMH-5951 | 106.7 | 98.0 | 138.3 | 106.7 | 121.0 | 112.0 | 99.3 | 111.7 | 93.3 | 113.3 | 109.3 | 105.3 | 92.9 | 85.7 | 86.5 | 88.4 |
| 20 | JKMH-4545 | 121.7 | 95.0 | 127.7 | 110.3 | 124.7 | 114.3 | 103.3 | 113.9 | 95.0 | 135.0 | 103.7 | 111.2 | 83.4 | 96.8 | 67.5 | 82.6 |
| 21 | SAFAL X-2 | 146.7 | 109.5 | 131.7 | 113.3 | 120.7 | 104.7 | 104.0 | 118.6 | 90.0 | 122.0 | 107.7 | 106.6 | 81.7 | 89.9 | 94.0 | 88.5 |
| 22 | Kuber Shakthi | 125.0 | 110.5 | 138.0 | 96.7 | 126.0 | 113.5 | 98.4 | 115.4 | 101.7 | 133.3 | 124.3 | 119.8 | 95.0 | 82.0 | 86.5 | 87.8 |
| 23 | DAS-MH-304 | 110.0 | 97.5 | 139.3 | 101.7 | 109.0 | 96.7 | 108.3 | 108.9 | 80.0 | 105.0 | 110.7 | 98.6 | 87.5 | 96.3 | 61.5 | 81.8 |
| 24 | DAS-MH-305 | 135.0 | 107.0 | 128.7 | 120.0 | 108.0 | 103.8 | 90.1 | 113.2 | 90.0 | 113.3 | 110.3 | 104.6 | 84.6 | 90.8 | 74.0 | 83.1 |
| 25 | KH-517 Gold | 139.0 | 88.5 | 121.7 | 128.3 | 121.0 | 104.9 | 99.1 | 114.6 | 75.0 | 116.7 | 115.7 | 102.4 | 78.1 | 82.9 | 82.5 | 81.2 |
| 26 | KH-2248 | 135.0 | 80.5 | 111.0 | 95.0 | 126.3 | 103.7 | 98.9 | 107.2 | 100.0 | 116.7 | 104.7 | 107.1 | 76.6 | 89.2 | 66.5 | 77.4 |
| 27 | TH-38 | 138.3 | 89.0 | 118.7 | 103.3 | 121.0 | 116.5 | 105.7 | 113.2 | 110.0 | 133.3 | 94.7 | 112.7 | 85.2 | 102.3 | 95.0 | 94.2 |
| 28 | MAHABEEJ-1202(Nirdhar) | 140.0 | 102.0 | 140.0 | 98.3 | 122.7 | 108.3 | 96.9 | 115.4 | 90.0 | 133.3 | 116.0 | 113.1 | 86.2 | 84.9 | 90.0 | 87.0 |
| 29 | KDMH-2705 | 143.3 | 122.5 | 140.3 | 126.7 | 142.7 | 138.8 | 114.0 | 132.6 | 110.0 | 138.3 | 127.3 | 125.2 | 94.2 | 112.7 | 101.5 | 102.8 |
| 30 | EH-2205 | 151.7 | 94.0 | 143.7 | 111.0 | 132.0 | 121.3 | 106.9 | 122.9 | 135.0 | 141.7 | 107.0 | 127.9 | 85.1 | 115.2 | 103.0 | 101.1 |
| 31 | EH-2208 | 123.3 | 92.5 | 125.0 | 111.7 | 125.7 | 126.1 | 104.7 | 115.6 | 83.3 | 123.3 | 114.0 | 106.9 | 77.6 | 90.9 | 100.5 | 89.7 |
| 32 | EH-2240 | 140.0 | 111.5 | 126.3 | 97.3 | 143.0 | 125.4 | 104.2 | 121.1 | 120.0 | 136.7 | 115.3 | 124.0 | 85.9 | 87.4 | 106.5 | 93.3 |
| 33 | VaMH-08015 | 113.3 | 101.0 | 132.0 | 98.3 | 123.3 | 107.7 | 88.7 | 109.2 | 83.3 | 136.7 | 103.3 | 107.8 | 77.9 | 94.0 | 74.0 | 82.0 |
| 34 | PMH-209 | 111.7 | 100.5 | 99.7 | 103.3 | 120.7 | 124.1 | 104.7 | 109.2 | 113.3 | 143.3 | 106.7 | 121.1 | 71.4 | 87.9 | 87.5 | 82.3 |

BR112

Table No. 2 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | | | |
|-------|--------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| | | BAJA | BARA | BERT | DHAU | KANG | POON | ZN 1 | | | ZN 2 | | | ZN 3 | | | |
| | | | | | | | Mean | KARN | LUDH | PANT | Mean | BAHR | RANC | VARA | Mean | | |
| 35 | PRMH-2177 | 136.7 | 95.5 | 127.3 | 96.7 | 125.7 | 117.9 | 95.9 | 113.7 | 108.3 | 131.7 | 115.3 | 118.4 | 82.6 | 92.4 | 83.0 | 86.0 |
| 36 | NMH-1289 | 116.7 | 84.0 | 122.3 | 75.0 | 97.7 | 91.8 | 100.0 | 98.2 | 110.0 | 116.7 | 105.0 | 110.6 | 84.8 | 93.3 | 86.5 | 88.2 |
| 37 | HTMH-5402 | 136.7 | 113.0 | 119.0 | 118.3 | 123.3 | 122.2 | 97.3 | 118.6 | 83.3 | 133.3 | 123.3 | 113.3 | 90.9 | 93.7 | 89.0 | 91.2 |
| 38 | CMH 10-488 | 135.0 | 99.5 | 144.7 | 93.7 | 111.7 | 120.6 | 106.5 | 115.9 | 110.0 | 138.3 | 105.3 | 117.9 | 93.9 | 96.6 | 85.0 | 91.8 |
| 39 | CMH 10-547 | 146.7 | 97.0 | 148.3 | 96.0 | 151.3 | 132.3 | 106.0 | 125.4 | 110.0 | 136.7 | 100.3 | 115.7 | 78.5 | 100.0 | 88.0 | 88.8 |
| 40 | CMH 11-582 | 148.3 | 133.5 | 156.3 | 142.7 | 126.3 | 131.5 | 104.5 | 134.7 | 95.0 | 140.0 | 117.3 | 117.4 | 88.0 | 92.1 | 106.5 | 95.5 |
| 41 | CMH 11-603 | 156.7 | 81.5 | 150.3 | 89.0 | 128.3 | 118.5 | 104.4 | 118.4 | 120.0 | 140.0 | 122.3 | 127.4 | 84.6 | 104.0 | 91.5 | 93.3 |
| 42 | CMH 11-617 | 150.0 | 96.0 | 135.0 | 105.0 | 125.7 | 131.7 | 110.4 | 122.0 | 123.3 | 133.3 | 111.7 | 122.8 | 86.0 | 104.6 | 104.0 | 98.2 |
| 43 | IM8478 | 145.0 | 100.0 | 148.0 | 101.7 | 126.7 | 119.4 | 102.7 | 120.5 | 90.0 | 148.3 | 118.7 | 119.0 | 93.8 | 101.0 | 100.0 | 98.3 |
| 44 | IM8479 | 145.0 | 114.5 | 131.7 | 91.7 | 136.0 | 130.0 | 106.5 | 122.2 | 113.3 | 138.3 | 113.3 | 121.7 | 94.3 | 114.6 | 82.5 | 97.1 |
| 45 | IM8581 | 143.3 | 94.0 | 144.0 | 91.0 | 126.3 | 117.6 | 104.3 | 117.2 | 103.3 | 135.0 | 106.7 | 115.0 | 85.7 | 111.2 | 96.5 | 97.8 |
| 46 | IM 7519 | 123.3 | 100.0 | 123.3 | 95.0 | 103.3 | 128.2 | 98.0 | 110.2 | 110.0 | 111.7 | 102.7 | 108.1 | 90.0 | 92.8 | 93.0 | 91.9 |
| 47 | IM 7501 | 158.3 | 105.0 | 144.7 | 78.7 | 159.3 | 145.8 | 117.3 | 129.9 | 138.3 | 155.0 | 121.7 | 138.3 | 96.0 | 99.8 | 97.5 | 97.8 |
| 48 | BH 41015 | 155.0 | 102.0 | 127.3 | 87.7 | 118.0 | 110.6 | 102.9 | 114.8 | 123.3 | 116.7 | 113.0 | 117.7 | 87.9 | 111.9 | 83.0 | 94.3 |
| 49 | BH 41030 | 130.0 | 97.0 | 97.3 | 89.0 | 119.3 | 118.3 | 111.1 | 108.9 | 76.7 | 126.7 | 106.0 | 103.1 | 85.1 | 53.1 | 81.5 | 73.2 |
| 50 | BH 41145 | 146.7 | 115.0 | 137.0 | 105.0 | 133.0 | 128.8 | 106.1 | 124.5 | 120.0 | 135.0 | 116.3 | 123.8 | 92.7 | 94.3 | 104.0 | 97.0 |
| 51 | BH 41150 | 141.7 | 106.5 | 136.3 | 105.0 | 132.7 | 137.1 | 111.0 | 124.3 | 113.3 | 130.0 | 117.0 | 120.1 | 82.1 | 97.0 | 82.5 | 87.2 |
| 52 | BH 411736 | 126.7 | 86.5 | 111.7 | 81.3 | 115.7 | 116.7 | 96.7 | 105.0 | 110.0 | 120.0 | 88.3 | 106.1 | 75.7 | 93.8 | 90.0 | 86.5 |
| 53 | BH 411737 | 140.0 | 90.5 | 132.7 | 88.3 | 138.7 | 116.8 | 83.9 | 113.0 | 105.0 | 133.3 | 100.3 | 112.9 | 85.0 | 80.5 | 66.5 | 77.3 |
| 54 | BH 411520 | 130.0 | 73.0 | 133.7 | 78.3 | 116.3 | 96.3 | 111.6 | 105.6 | 80.0 | 128.3 | 105.7 | 104.7 | 73.7 | 96.4 | 86.5 | 85.5 |
| 55 | VEH 12-1 | 115.0 | 89.5 | 112.0 | 96.7 | 126.7 | 104.3 | 95.0 | 105.6 | 70.0 | 118.3 | 94.0 | 94.1 | 75.5 | 86.8 | 71.5 | 77.9 |
| 56 | X35D620 | 108.3 | 94.5 | 127.3 | 140.0 | 117.3 | 99.0 | 103.7 | 112.9 | 98.3 | 125.0 | 106.7 | 110.0 | 91.7 | 80.5 | 69.0 | 80.4 |
| 57 | X35D623 | 135.0 | 86.0 | 149.7 | 93.3 | 112.0 | 119.2 | 91.3 | 112.4 | 108.3 | 146.7 | 115.7 | 123.6 | 74.9 | 89.8 | 90.0 | 84.9 |
| 58 | X35D602 | 126.7 | 98.0 | 107.0 | 120.0 | 117.0 | 115.5 | 99.3 | 111.9 | 110.0 | 131.7 | 97.3 | 113.0 | 72.0 | 93.3 | 67.5 | 77.6 |
| 59 | X35D603 | 121.7 | 85.0 | 127.7 | 111.7 | 127.7 | 116.6 | 95.9 | 112.3 | 100.0 | 128.3 | 136.7 | 121.7 | 85.6 | 72.8 | 91.5 | 83.3 |
| 60 | Bio 451 | 141.7 | 110.5 | 133.7 | 122.7 | 142.7 | 117.7 | 114.7 | 126.2 | 96.7 | 113.3 | 113.3 | 107.8 | 83.7 | 101.0 | 94.0 | 92.9 |
| 61 | GWH-0711 | 118.3 | 88.5 | 117.3 | 130.0 | 119.3 | 108.2 | 95.2 | 111.0 | 103.3 | 120.0 | 97.3 | 106.9 | 77.5 | 81.7 | 76.5 | 78.6 |
| 62 | REH-2012-1 | 113.3 | 96.5 | 133.3 | 119.7 | 114.3 | 111.2 | 90.4 | 111.3 | 100.0 | 105.0 | 102.0 | 102.3 | 85.1 | 84.1 | 100.0 | 89.7 |
| 63 | REH-2012-2 | 151.7 | 102.0 | 145.3 | 115.0 | 138.7 | 104.3 | 98.7 | 122.2 | 95.0 | 141.7 | 118.3 | 118.3 | 90.0 | 90.9 | 86.5 | 89.1 |
| 64 | REH-2012-4 | 146.7 | 102.0 | 121.0 | 113.7 | 120.3 | 111.3 | 77.3 | 113.2 | 103.3 | 105.0 | 109.3 | 105.9 | 83.9 | 99.9 | 77.5 | 87.1 |
| 65 | JH 31595 | 125.0 | 110.5 | 138.0 | 85.0 | 134.3 | 125.2 | 121.7 | 120.0 | 108.3 | 118.3 | 112.3 | 113.0 | 79.8 | 104.3 | 99.0 | 94.4 |
| 66 | JH 31537 | 120.0 | 87.0 | 128.7 | 103.3 | 108.3 | 95.2 | 101.4 | 106.3 | 103.3 | 111.7 | 101.3 | 105.4 | 71.1 | 88.1 | 65.0 | 74.7 |
| 67 | JH 31604 | 145.0 | 95.5 | 100.7 | 116.0 | 132.0 | 118.9 | 107.1 | 116.5 | 130.0 | 141.7 | 114.3 | 128.7 | 78.4 | 107.2 | 96.5 | 94.0 |
| 68 | JH 31600(JH 31627) | 141.7 | 105.5 | 126.7 | 106.7 | 128.0 | 128.3 | 111.3 | 121.2 | 113.3 | 123.3 | 117.3 | 118.0 | 89.2 | 109.5 | 89.0 | 95.9 |

Table No. 2 (Continued)

| S.No. PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | | | |
|------------------|----------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | |
| | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | RANC | VARA | Mean |
| 69 JH 31244 | 130.0 | 81.5 | 125.0 | 123.3 | 104.7 | 109.8 | 100.8 | 110.7 | 95.0 | 120.0 | 110.7 | 108.6 | 79.8 | 76.3 | 80.5 | 78.9 |
| 70 JH 31554 | 130.0 | 93.0 | 109.7 | 98.3 | 115.3 | 115.8 | 116.0 | 111.2 | 88.3 | 115.0 | 118.3 | 107.2 | 82.6 | 85.2 | 64.0 | 77.3 |
| 71 AH-1226 | 130.0 | 80.0 | 116.3 | 95.0 | 119.0 | 111.3 | 96.0 | 106.8 | 113.3 | 138.3 | 117.0 | 122.9 | 86.0 | 98.6 | 84.0 | 89.5 |
| 72 AH-1262 | 130.0 | 85.5 | 145.0 | 88.3 | 124.3 | 121.0 | 90.0 | 112.0 | 110.0 | 153.3 | 130.3 | 131.2 | 74.5 | 81.9 | 111.5 | 89.3 |
| 73 MMH-2-12-13 | 141.7 | 125.0 | 156.3 | 126.7 | 136.3 | 134.7 | 115.1 | 133.7 | 85.0 | 135.0 | 113.3 | 111.1 | 66.0 | 102.9 | 86.5 | 85.1 |
| 74 MMH-3-12-13 | 141.7 | 99.0 | 140.3 | 118.3 | 137.7 | 125.9 | 103.2 | 123.7 | 120.0 | 138.3 | 106.3 | 121.6 | 90.0 | 100.9 | 75.0 | 88.6 |
| 75 MMH-4-12-13 | 135.0 | 118.5 | 116.0 | 126.7 | 129.7 | 119.5 | 110.2 | 122.2 | 95.0 | 150.0 | 129.0 | 124.7 | 81.1 | 86.1 | 98.0 | 88.4 |
| 76 MMH-5-12-13 | 125.0 | 108.0 | 133.7 | 110.3 | 122.7 | 107.5 | 98.3 | 115.1 | 108.3 | 123.3 | 101.0 | 110.9 | 90.6 | 84.0 | 54.0 | 76.2 |
| 77 HKH 338 | 159.3 | 105.5 | 128.3 | 120.7 | 126.7 | 119.3 | 101.9 | 123.1 | 96.7 | 128.3 | 116.0 | 113.7 | 80.2 | 97.7 | 86.5 | 88.1 |
| 78 HKH 339 | 138.3 | 112.0 | 132.0 | 99.0 | 128.3 | 128.5 | 101.2 | 119.9 | 110.0 | 133.3 | 109.7 | 117.7 | 84.1 | 95.6 | 89.0 | 89.6 |
| 79 HKH 340 | 135.0 | 99.5 | 141.7 | 98.3 | 121.3 | 116.7 | 102.3 | 116.4 | 90.0 | 135.0 | 103.3 | 109.4 | 70.2 | 92.2 | 64.0 | 75.5 |
| 80 KNMH-4302 | 163.3 | 109.0 | 133.3 | 118.3 | 142.3 | 134.0 | 107.0 | 129.6 | 120.0 | 150.0 | 134.3 | 134.8 | 79.2 | 102.9 | 90.5 | 90.9 |
| 81 KNMH-4303 | 120.0 | 101.5 | 134.3 | 133.3 | 124.0 | 127.3 | 110.5 | 121.6 | 110.0 | 123.3 | 137.7 | 123.7 | 79.5 | 97.7 | 91.5 | 89.6 |
| 82 KNMH-4304 | 158.3 | 109.5 | 136.7 | 103.3 | 135.3 | 130.3 | 102.4 | 125.1 | 110.0 | 138.3 | 133.3 | 127.2 | 81.2 | 107.7 | 112.5 | 100.5 |
| 83 KNMH-4305 | 138.3 | 120.0 | 137.3 | 136.7 | 122.7 | 121.8 | 118.7 | 127.9 | 105.0 | 125.0 | 113.7 | 114.6 | 94.5 | 105.2 | 93.0 | 97.6 |
| 84 KNMH-4010131 | 145.0 | 118.5 | 137.0 | 105.0 | 136.3 | 133.4 | 115.5 | 127.2 | 103.3 | 131.7 | 138.3 | 124.4 | 90.7 | 119.4 | 102.5 | 104.2 |
| CHECKS | | | | | | | | | | | | | | | | |
| 85 PMH4 | 118.3 | 87.5 | 130.0 | 117.0 | 105.3 | 110.0 | 106.9 | 110.7 | 110.0 | 120.0 | 117.7 | 115.9 | 83.7 | 92.7 | 84.0 | 86.8 |
| 86 BIO9637 | 130.0 | 97.0 | 167.3 | 93.3 | 131.0 | 124.5 | 110.7 | 122.0 | 133.3 | 121.7 | 134.7 | 129.9 | 95.7 | 91.6 | 98.0 | 95.1 |
| 87 HM12 | 143.3 | 114.5 | 133.3 | 96.0 | 128.7 | 121.5 | 89.0 | 118.0 | 80.0 | 113.3 | 97.3 | 96.9 | 83.0 | 94.4 | 65.5 | 81.0 |
| Loc. Mean | 132.9 | 99.9 | 130.4 | 105.3 | 124.3 | 116.9 | 102.9 | 116.1 | 102.9 | 127.9 | 111.9 | 114.2 | 83.3 | 93.9 | 85.9 | 87.7 |
| C.D. (5%) | 21.41 | 25.12 | 15.22 | 11.67 | 6.68 | 16.65 | 15.41 | 11.35 | 6.73 | 15.86 | 15.38 | 16.72 | 17.94 | 27.38 | 11.45 | 16.31 |
| C.V. (%) | 10.00 | 12.64 | 7.24 | 6.87 | 3.34 | 8.84 | 9.29 | 9.31 | 4.06 | 7.70 | 8.53 | 9.08 | 13.36 | 14.66 | 8.28 | 11.54 |
| 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 | 0.01 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KOLHAPUR 20.9%: VRDCD 23.5%

BR114

Table No. 2 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | | ZN 5 | | OV'L |
|-------|------------------------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|-------|-------|-------|
| | | ARBH | COIM | HYDE | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 1 | QMH-29134 | 85.5 | 110.3 | 62.0 | 48.3 | 131.3 | 102.0 | 61.3 | 64.0 | 92.1 | 86.3 | 66.7 | 90.0 | 81.0 | 100.9 |
| 2 | QMH-2916 | 91.0 | 84.3 | 56.3 | 51.7 | 122.7 | 94.3 | 58.7 | 47.7 | 84.6 | 70.4 | 53.3 | 91.7 | 71.8 | 88.5 |
| 3 | EHL-3412 | 97.5 | 101.2 | 65.0 | 63.3 | 122.7 | 111.7 | 56.8 | 63.3 | 92.5 | 96.9 | 56.7 | 95.0 | 82.8 | 100.2 |
| 4 | EHL-1111 | 90.0 | 94.5 | 59.3 | 53.3 | 109.7 | 98.0 | 60.5 | 42.3 | 85.3 | 79.2 | 48.3 | 91.7 | 73.1 | 92.8 |
| 5 | EHL-3512 | 87.5 | 98.9 | 72.7 | 61.7 | 134.0 | 104.3 | 66.9 | 47.0 | 94.1 | 81.2 | 50.0 | 118.3 | 83.2 | 99.4 |
| 6 | S-6750 | 95.0 | 100.9 | 75.7 | 60.0 | 129.3 | 108.3 | 59.7 | 53.3 | 94.8 | 95.9 | 53.3 | 105.0 | 84.7 | 102.5 |
| 7 | RMH-932 | 70.5 | 74.4 | 69.3 | 48.3 | 119.0 | 90.3 | 51.6 | 51.0 | 79.2 | 76.2 | 53.3 | 76.0 | 68.5 | 85.8 |
| 8 | RMH-3591 | 79.0 | 92.9 | 66.7 | 63.3 | 123.7 | 93.3 | 57.6 | 42.3 | 85.5 | 86.6 | 56.7 | 98.3 | 80.5 | 94.0 |
| 9 | PHM-34(W) | 94.0 | 81.7 | 72.7 | 51.7 | 122.3 | 98.7 | 53.6 | 59.0 | 87.2 | 80.2 | 63.3 | 105.0 | 82.8 | 95.2 |
| 10 | PHM-12(Y) | 96.5 | 100.5 | 69.0 | 65.0 | 126.3 | 105.3 | 61.8 | 47.3 | 93.2 | 92.0 | 65.0 | 94.7 | 83.9 | 98.3 |
| 11 | LG-3271 | 89.0 | 84.8 | 66.7 | 48.3 | 121.7 | 82.3 | 60.5 | 52.3 | 84.2 | 78.3 | 55.0 | 83.3 | 72.2 | 87.5 |
| 12 | LG-3282 | 100.5 | 88.7 | 71.0 | 53.3 | 111.0 | 100.3 | 54.2 | 40.7 | 87.6 | 78.2 | 55.0 | 97.3 | 76.8 | 98.3 |
| 13 | FCH-85 | 80.5 | 106.0 | 90.0 | 58.3 | 129.3 | 119.7 | 60.6 | 49.0 | 97.7 | 105.6 | 68.3 | 113.3 | 95.8 | 109.4 |
| 14 | FCH-184 | 90.0 | 105.2 | 80.7 | 65.0 | 127.0 | 104.0 | 61.7 | 50.3 | 94.8 | 89.1 | 66.7 | 104.0 | 86.6 | 104.4 |
| 15 | FCH-11231 | 89.0 | 119.5 | 96.3 | 63.3 | 146.7 | 131.3 | 72.1 | 54.7 | 109.1 | 114.5 | 73.3 | 121.7 | 103.2 | 119.7 |
| 16 | KMH-6 | 92.5 | 89.9 | 77.3 | 75.0 | 133.3 | 104.7 | 69.5 | 51.7 | 94.5 | 87.6 | 60.0 | 83.3 | 77.0 | 101.7 |
| 17 | KMH-84 | 85.5 | 89.2 | 72.0 | 45.0 | 130.7 | 109.3 | 58.9 | 62.3 | 90.9 | 93.2 | 58.3 | 110.0 | 87.2 | 99.8 |
| 18 | KMH-6681 | 96.5 | 87.3 | 65.7 | 68.3 | 119.3 | 105.7 | 59.0 | 44.7 | 88.9 | 76.7 | 51.7 | 80.0 | 69.4 | 96.2 |
| 19 | KMH-5951 | 83.5 | 109.5 | 80.3 | 46.7 | 122.7 | 101.7 | 59.5 | 33.0 | 92.9 | 84.6 | 60.0 | 95.3 | 80.0 | 98.2 |
| 20 | JKMH-4545 | 89.0 | 86.3 | 70.0 | 45.0 | 119.7 | 97.0 | 62.3 | 47.7 | 87.4 | 81.7 | 56.7 | 96.7 | 78.4 | 97.2 |
| 21 | SAFAL X-2 | 94.5 | 94.4 | 70.0 | 65.0 | 120.7 | 106.7 | 58.2 | 41.3 | 90.7 | 98.7 | 66.7 | 111.7 | 92.3 | 101.7 |
| 22 | Kuber Shakthi | 99.5 | 95.1 | 79.0 | 56.7 | 123.7 | 114.7 | 59.5 | 37.7 | 95.2 | 80.7 | 63.3 | 108.3 | 84.1 | 102.5 |
| 23 | DAS-MH-304 | 97.0 | 108.9 | 81.7 | 55.0 | 132.3 | 110.0 | 61.6 | 60.3 | 98.6 | 80.3 | 61.7 | 101.0 | 81.0 | 97.2 |
| 24 | DAS-MH-305 | 101.0 | 97.0 | 76.3 | 61.7 | 119.7 | 106.3 | 55.1 | 55.7 | 92.6 | 90.9 | 61.7 | 95.0 | 82.5 | 98.1 |
| 25 | KH-517 Gold | 83.0 | 94.1 | 76.3 | 61.7 | 115.3 | 106.0 | 55.0 | 42.3 | 88.3 | 87.3 | 63.3 | 84.3 | 78.3 | 96.3 |
| 26 | KH-2248 | 84.5 | 79.8 | 66.3 | 56.7 | 132.7 | 98.0 | 59.9 | 48.0 | 86.9 | 79.5 | 61.7 | 101.7 | 81.0 | 94.0 |
| 27 | TH-38 | 99.0 | 100.2 | 79.3 | 66.7 | 123.0 | 104.0 | 71.3 | 51.3 | 96.1 | 91.5 | 58.3 | 109.3 | 86.4 | 102.2 |
| 28 | MAHABEEJ-1202(Nirdhar) | 86.0 | 88.4 | 73.0 | 66.7 | 125.3 | 111.3 | 52.8 | 48.3 | 89.5 | 80.3 | 58.3 | 98.3 | 79.0 | 99.2 |
| 29 | KDMH-2705 | 99.5 | 102.3 | 83.0 | 81.7 | 124.7 | 122.0 | 60.7 | 59.0 | 98.7 | 109.3 | 76.7 | 110.0 | 98.7 | 113.7 |
| 30 | EH-2205 | 106.0 | 102.6 | 85.7 | 65.0 | 123.0 | 106.3 | 62.2 | 60.7 | 97.6 | 81.9 | 65.0 | 103.3 | 83.4 | 108.3 |
| 31 | EH-2208 | 97.0 | 101.7 | 85.7 | 66.7 | 134.0 | 112.0 | 68.1 | 54.0 | 99.7 | 91.9 | 65.0 | 111.7 | 89.5 | 103.0 |
| 32 | EH-2240 | 82.5 | 97.1 | 76.0 | 60.0 | 122.7 | 111.0 | 67.7 | 56.7 | 92.8 | 88.9 | 56.7 | 123.3 | 89.6 | 105.7 |
| 33 | VaMH-08015 | 84.5 | 110.4 | 70.0 | 60.0 | 129.7 | 106.0 | 58.9 | 45.3 | 93.3 | 94.1 | 60.0 | 93.3 | 82.5 | 97.3 |
| 34 | PMH-209 | 97.5 | 108.6 | 77.7 | 61.7 | 126.3 | 106.3 | 62.7 | 43.7 | 96.5 | 91.8 | 61.7 | 101.7 | 85.0 | 100.4 |

Table No. 2 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | | ZN 5 | OV'L | |
|-------|--------------------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|-------|-------|-------|
| | | ARBH | COIM | HYDE | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 35 | PRMH-2177 | 98.5 | 95.7 | 70.7 | 68.3 | 127.0 | 107.3 | 61.9 | 40.3 | 93.5 | 96.1 | 60.0 | 103.3 | 86.5 | 101.3 |
| 36 | NMH-1289 | 79.5 | 98.5 | 71.0 | 41.7 | 129.3 | 94.3 | 61.1 | 36.3 | 89.0 | 78.8 | 58.3 | 78.3 | 71.8 | 92.4 |
| 37 | HTMH-5402 | 95.0 | 97.9 | 75.7 | 71.7 | 125.0 | 108.0 | 60.2 | 54.3 | 93.6 | 92.9 | 63.3 | 108.3 | 88.2 | 103.2 |
| 38 | CMH 10-488 | 92.5 | 103.7 | 79.0 | 56.7 | 120.0 | 110.7 | 68.7 | 51.0 | 95.8 | 82.7 | 65.0 | 106.7 | 84.8 | 103.2 |
| 39 | CMH 10-547 | 95.0 | 112.3 | 87.7 | 50.0 | 139.3 | 120.0 | 64.6 | 58.3 | 103.2 | 93.3 | 68.3 | 108.3 | 90.0 | 108.2 |
| 40 | CMH 11-582 | 103.5 | 113.9 | 89.3 | 68.3 | 139.3 | 121.7 | 67.2 | 61.0 | 105.8 | 97.9 | 70.0 | 113.3 | 93.7 | 113.6 |
| 41 | CMH 11-603 | 92.0 | 99.7 | 82.3 | 61.7 | 136.7 | 120.3 | 64.7 | 50.3 | 99.3 | 94.7 | 73.3 | 103.3 | 90.5 | 107.2 |
| 42 | CMH 11-617 | 100.5 | 100.3 | 88.0 | 71.7 | 131.0 | 111.7 | 59.9 | 45.7 | 98.6 | 96.7 | 61.7 | 105.0 | 87.8 | 107.8 |
| 43 | IM8478 | 94.0 | 99.5 | 83.0 | 60.0 | 126.7 | 118.3 | 60.6 | 66.7 | 97.0 | 96.7 | 66.7 | 107.3 | 90.2 | 106.7 |
| 44 | IM8479 | 89.5 | 99.1 | 79.3 | 63.3 | 132.3 | 116.3 | 65.4 | 66.0 | 97.0 | 88.1 | 60.0 | 113.3 | 87.1 | 107.1 |
| 45 | IM8581 | 105.0 | 91.5 | 82.3 | 58.3 | 128.7 | 106.7 | 61.1 | 47.7 | 95.9 | 88.8 | 70.0 | 100.0 | 86.3 | 104.2 |
| 46 | IM 7519 | 98.5 | 96.5 | 79.3 | 60.0 | 127.0 | 113.0 | 60.0 | 53.0 | 95.7 | 80.4 | 46.7 | 107.7 | 78.2 | 99.1 |
| 47 | IM 7501 | 96.5 | 109.7 | 88.3 | 61.7 | 137.7 | 125.0 | 69.9 | 54.7 | 104.5 | 104.5 | 71.7 | 120.0 | 98.7 | 115.5 |
| 48 | BH 41015 | 95.0 | 92.4 | 83.7 | 48.3 | 139.3 | 107.0 | 58.3 | 48.3 | 96.0 | 81.5 | 68.3 | 106.7 | 85.5 | 103.3 |
| 49 | BH 41030 | 99.0 | 91.0 | 82.0 | 66.7 | 130.0 | 106.0 | 57.1 | 42.3 | 94.2 | 89.7 | 58.3 | 101.7 | 83.2 | 95.7 |
| 50 | BH 41145 | 98.5 | 106.3 | 92.7 | 83.3 | 135.0 | 123.0 | 77.6 | 53.7 | 105.5 | 113.0 | 73.3 | 115.0 | 100.4 | 112.2 |
| 51 | BH 41150 | 91.5 | 102.7 | 78.7 | 65.0 | 121.3 | 115.0 | 63.0 | 42.3 | 95.4 | 102.9 | 61.7 | 136.7 | 100.4 | 107.5 |
| 52 | BH 411736 | 86.0 | 102.3 | 71.3 | 53.3 | 124.7 | 99.7 | 62.1 | 54.0 | 91.0 | 74.9 | 56.7 | 91.7 | 74.4 | 94.6 |
| 53 | BH 411737 | 100.0 | 93.5 | 61.0 | 51.7 | 119.7 | 98.3 | 56.8 | 44.3 | 88.2 | 74.7 | 60.0 | 91.7 | 75.5 | 96.2 |
| 54 | BH 411520 | 76.0 | 94.6 | 68.7 | 61.7 | 127.7 | 105.7 | 58.1 | 39.3 | 88.4 | 80.7 | 65.0 | 100.0 | 81.9 | 94.8 |
| 55 | VEH 12-1 | 96.0 | 86.5 | 62.7 | 56.7 | 114.3 | 95.7 | 62.2 | 41.0 | 86.2 | 72.0 | 48.3 | 111.7 | 77.3 | 91.1 |
| 56 | X35D620 | 87.5 | 85.5 | 69.0 | 58.3 | 124.0 | 95.3 | 58.2 | 42.7 | 86.6 | 75.1 | 58.3 | 91.7 | 75.0 | 95.7 |
| 57 | X35D623 | 90.5 | 101.3 | 78.0 | 56.7 | 139.3 | 105.7 | 64.3 | 52.3 | 96.5 | 84.6 | 65.0 | 96.7 | 82.1 | 101.7 |
| 58 | X35D602 | 99.0 | 87.9 | 74.0 | 58.3 | 124.7 | 108.3 | 62.1 | 36.7 | 92.7 | 75.2 | 56.7 | 86.7 | 72.8 | 96.8 |
| 59 | X35D603 | 83.0 | 91.0 | 66.0 | 60.0 | 125.0 | 103.0 | 57.4 | 38.3 | 87.6 | 89.8 | 61.7 | 103.0 | 84.8 | 99.1 |
| 60 | Bio 451 | 94.0 | 95.7 | 78.3 | 58.3 | 124.0 | 112.0 | 55.3 | 53.3 | 93.2 | 97.9 | 66.7 | 108.3 | 91.0 | 105.4 |
| 61 | GWH-0711 | 86.0 | 82.1 | 71.7 | 56.7 | 116.0 | 91.7 | 62.4 | 44.0 | 85.0 | 88.3 | 50.0 | 101.7 | 80.0 | 94.7 |
| 62 | REH-2012-1 | 85.0 | 97.3 | 79.0 | 53.3 | 124.0 | 99.7 | 58.0 | 49.0 | 90.5 | 82.6 | 75.0 | 85.0 | 80.9 | 97.3 |
| 63 | REH-2012-2 | 94.5 | 93.9 | 76.3 | 53.3 | 125.3 | 105.7 | 61.0 | 60.7 | 92.8 | 83.8 | 56.7 | 90.0 | 76.8 | 103.0 |
| 64 | REH-2012-4 | 94.5 | 99.7 | 74.3 | 50.0 | 121.7 | 107.7 | 59.2 | 61.3 | 92.8 | 81.7 | 58.3 | 83.3 | 74.4 | 97.8 |
| 65 | JH 31595 | 89.5 | 105.4 | 80.7 | 73.3 | 127.7 | 114.0 | 59.9 | 53.0 | 96.2 | 84.9 | 65.0 | 106.7 | 85.5 | 104.3 |
| 66 | JH 31537 | 99.0 | 86.6 | 72.7 | 71.7 | 122.7 | 98.7 | 64.4 | 55.7 | 90.7 | 85.6 | 56.7 | 85.0 | 75.8 | 93.4 |
| 67 | JH 31604 | 82.5 | 92.2 | 68.7 | 56.7 | 118.3 | 105.0 | 60.7 | 46.7 | 87.9 | 81.6 | 61.7 | 121.7 | 88.3 | 103.4 |
| 68 | JH 31600(JH 31627) | 84.5 | 103.8 | 67.7 | 73.3 | 136.0 | 106.3 | 68.6 | 56.0 | 94.5 | 84.3 | 66.7 | 110.0 | 87.0 | 105.3 |

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Table No. 2 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | | ZN 5 | | OV'L |
|-------|------------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|
| | | ARBH | COIM | HYDE | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 69 | JH 31244 | 72.0 | 74.7 | 64.7 | 45.0 | 119.0 | 96.7 | 52.5 | 50.7 | 79.9 | 77.4 | 60.0 | 79.0 | 72.1 | 92.4 |
| 70 | JH 31554 | 85.0 | 83.3 | 68.7 | 63.3 | 127.0 | 115.3 | 53.2 | 47.7 | 88.7 | 77.6 | 65.0 | 83.7 | 75.4 | 95.0 |
| 71 | AH-1226 | 77.5 | 97.7 | 64.0 | 56.7 | 132.3 | 109.3 | 62.4 | 41.0 | 90.5 | 86.3 | 58.3 | 98.3 | 81.0 | 98.7 |
| 72 | AH-1262 | 86.0 | 101.5 | 80.3 | 55.0 | 122.0 | 104.7 | 60.0 | 54.3 | 92.4 | 86.8 | 58.3 | 111.7 | 85.6 | 102.6 |
| 73 | MMH-2-12-13 | 111.5 | 104.3 | 87.0 | 75.0 | 136.7 | 124.7 | 68.6 | 58.7 | 105.5 | 91.6 | 61.7 | 108.3 | 87.2 | 109.9 |
| 74 | MMH-3-12-13 | 92.5 | 115.4 | 84.0 | 65.0 | 137.3 | 108.7 | 58.8 | 51.0 | 99.5 | 110.5 | 60.0 | 96.7 | 89.0 | 107.3 |
| 75 | MMH-4-12-13 | 99.0 | 105.9 | 92.0 | 71.7 | 140.3 | 113.3 | 65.1 | 58.0 | 102.6 | 85.4 | 63.3 | 91.7 | 80.1 | 106.9 |
| 76 | MMH-5-12-13 | 84.0 | 91.5 | 83.3 | 56.7 | 122.7 | 110.3 | 58.5 | 57.0 | 91.7 | 97.8 | 65.0 | 115.0 | 92.6 | 99.8 |
| 77 | HKH 338 | 83.0 | 102.3 | 78.7 | 58.3 | 134.7 | 121.7 | 55.7 | 39.7 | 96.0 | 95.9 | 68.3 | 96.7 | 87.0 | 104.7 |
| 78 | HKH 339 | 91.0 | 98.6 | 67.0 | 53.3 | 125.7 | 118.7 | 59.6 | 41.7 | 93.4 | 77.6 | 61.7 | 96.7 | 78.6 | 102.6 |
| 79 | HKH 340 | 88.5 | 94.7 | 66.7 | 65.0 | 121.7 | 107.3 | 50.9 | 44.3 | 88.3 | 92.2 | 56.7 | 91.7 | 80.2 | 97.3 |
| 80 | KNMH-4302 | 96.0 | 108.2 | 78.7 | 63.3 | 124.0 | 109.3 | 56.9 | 49.0 | 95.5 | 89.3 | 65.0 | 116.7 | 90.3 | 110.4 |
| 81 | KNMH-4303 | 89.5 | 107.9 | 68.3 | 58.3 | 134.0 | 107.0 | 55.5 | 61.0 | 93.7 | 86.1 | 58.3 | 111.7 | 85.4 | 105.0 |
| 82 | KNMH-4304 | 93.5 | 110.7 | 87.3 | 66.7 | 135.0 | 125.0 | 65.1 | 60.0 | 102.8 | 105.0 | 70.0 | 121.7 | 98.9 | 112.4 |
| 83 | KNMH-4305 | 100.5 | 105.8 | 81.0 | 68.3 | 129.3 | 114.0 | 64.6 | 72.3 | 99.2 | 92.1 | 71.7 | 111.7 | 91.8 | 109.2 |
| 84 | KNMH-4010131 | 106.0 | 115.2 | 90.7 | 56.7 | 139.0 | 113.7 | 68.6 | 64.3 | 105.5 | 99.1 | 73.3 | 121.7 | 98.0 | 113.8 |
| | CHECKS | | | | | | | | | | | | | | |
| 85 | PMH4 | 88.0 | 86.1 | 69.7 | 63.3 | 120.7 | 98.0 | 57.7 | 40.7 | 86.7 | 80.2 | 61.7 | 83.3 | 75.1 | 96.7 |
| 86 | BIO9637 | 91.0 | 103.2 | 73.0 | 71.7 | 129.3 | 108.7 | 64.6 | 68.3 | 95.0 | 87.5 | 51.7 | 93.3 | 77.5 | 106.0 |
| 87 | HM12 | 86.0 | 86.9 | 70.7 | 58.3 | 127.7 | 110.7 | 51.0 | 38.3 | 88.8 | 90.5 | 60.0 | 95.0 | 81.8 | 97.2 |
| | Loc. Mean | 91.6 | 97.6 | 75.7 | 60.4 | 127.1 | 107.8 | 60.9 | 50.6 | 93.4 | 88.1 | 61.7 | 101.5 | 83.8 | 101.4 |
| | C.D. (5%) | 12.68 | 11.09 | 12.19 | 20.34 | 12.74 | 12.01 | 10.45 | 19.19 | 6.55 | 13.02 | 11.59 | 18.21 | 11.59 | 5.39 |
| | C.V. (%) | 8.59 | 7.05 | 9.99 | 20.91 | 6.22 | 6.91 | 10.64 | 23.51 | 6.18 | 9.16 | 11.66 | 11.14 | 8.58 | 8.99 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KOLHAPUR 20.9%: VRDCD 23.5%

TABLE No. 3: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, BERTIN, DHAULAKUAN, KANGRA, POONCH, UDHAMPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, DHARWAD UAS, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, SMFPATENCHERU, VAGARAI, VRDCD, AMBIKAPUR, BANSAWARA, CHHINDWARA, UDAIPUR IN IVT TRIAL No. TR63 (IVT-E) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-------------|-------------------------------------|----|-------|----|------|----|-------|----|------|----|------|----|------|----|-------|----|------|----|------|----|-------|------|------|----|------|----|------|----|-------|----|------|----|------|----|------|----|
| | | ZN 1 | | | | | | | | | | | | | | ZN 2 | | | | | | | ZN 3 | | | | | | | | | | | | | | |
| | | ALMO | R | BAJA | R | BARA | R | BERT | R | DHAU | R | KANG | R | POON | R | UDHA | R | MEAN | R | KARN | R | LUDH | R | PANT | R | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R |
| 1 | LG-3181 | 8433 | 3 | 11247 | 11 | 4855 | 15 | 11358 | 8 | 3173 | 23 | 5707 | 5 | 7092 | 12 | 8343 | 13 | 7526 | 9 | 5951 | 18 | 6800 | 14 | 7236 | 8 | 6663 | 11 | 4417 | 28 | 6271 | 19 | 6720 | 18 | 5815 | 6 | 5806 | 19 |
| 2 | DMH-63 | 8326 | 5 | 11071 | 14 | 5640 | 9 | 14173 | 1 | 6588 | 2 | 5586 | 6 | 6893 | 13 | 9818 | 3 | 8512 | 2 | 6948 | 6 | 8013 | 6 | 7189 | 9 | 7384 | 6 | 6400 | 10 | 7640 | 12 | 6301 | 20 | 6740 | 2 | 6770 | 10 |
| 3 | DH-264 | 5265 | 26 | 7011 | 29 | 2404 | 24 | 8264 | 23 | 4327 | 18 | 4156 | 17 | 3977 | 30 | 8881 | 8 | 5536 | 24 | 4702 | 28 | 4997 | 24 | 4994 | 27 | 4898 | 29 | 6542 | 6 | 4766 | 29 | 4885 | 27 | 4645 | 16 | 5209 | 25 |
| 4 | DH-265 | 5390 | 24 | 8303 | 22 | 3692 | 20 | 6686 | 26 | 2781 | 25 | 3854 | 23 | 4442 | 29 | 8108 | 17 | 5407 | 26 | 4776 | 27 | 6669 | 15 | 6538 | 12 | 5994 | 19 | 5202 | 25 | 6378 | 18 | 6127 | 21 | 4467 | 18 | 5544 | 23 |
| 5 | FH-3664 | 7076 | 14 | 11183 | 12 | 5583 | 11 | 11707 | 7 | 5405 | 7 | 4050 | 18 | 6303 | 17 | 5991 | 25 | 7162 | 14 | 6663 | 10 | 7319 | 10 | 5907 | 17 | 6630 | 12 | 6907 | 4 | 7539 | 13 | 8355 | 10 | 5846 | 5 | 7162 | 7 |
| 6 | FH-3669 | 7688 | 9 | 11579 | 8 | 5672 | 7 | 10250 | 13 | 6343 | 4 | 4470 | 15 | 6837 | 14 | 8889 | 7 | 7716 | 5 | 6557 | 13 | 6202 | 17 | 7107 | 10 | 6622 | 13 | 5343 | 23 | 6056 | 21 | 5792 | 24 | 5603 | 7 | 5699 | 21 |
| 7 | B-52 | 8382 | 4 | 11567 | 10 | 6482 | 3 | 8486 | 20 | 5107 | 13 | 5421 | 9 | 7202 | 11 | 8636 | 10 | 7660 | 6 | 7856 | 2 | 5182 | 23 | 7563 | 5 | 6867 | 7 | 5818 | 15 | 9919 | 3 | 8082 | 11 | 6217 | 4 | 7509 | 3 |
| 8 | EH-2211 | 6474 | 17 | 7035 | 28 | 2133 | 27 | 5923 | 30 | 2591 | 26 | 4344 | 16 | 7484 | 6 | 5562 | 27 | 5193 | 29 | 5106 | 25 | 5593 | 21 | 4824 | 28 | 5174 | 25 | 5906 | 14 | 5801 | 23 | 4474 | 29 | 4368 | 20 | 5138 | 27 |
| 9 | EH-2214 | 7756 | 8 | 7570 | 26 | 4574 | 16 | 8397 | 21 | 3604 | 21 | 3838 | 24 | 5630 | 23 | 7002 | 18 | 6046 | 19 | 6712 | 8 | 6070 | 19 | 6319 | 15 | 6367 | 16 | 5394 | 20 | 8833 | 8 | 9348 | 8 | 3519 | 27 | 6773 | 9 |
| 10 | EH-2233 | 6372 | 19 | 11078 | 13 | 5559 | 12 | 10865 | 10 | 4553 | 16 | 3562 | 27 | 7304 | 9 | 10143 | 2 | 7429 | 11 | 7022 | 5 | 7244 | 11 | 5240 | 25 | 6502 | 15 | 5352 | 22 | 6214 | 20 | 9761 | 3 | 5253 | 11 | 6645 | 13 |
| 11 | NMH-1258 | 9957 | 1 | 14142 | 1 | 8099 | 1 | 13183 | 2 | 5386 | 8 | 4685 | 13 | 8132 | 1 | 8643 | 9 | 9028 | 1 | 6332 | 14 | 7204 | 12 | 6471 | 13 | 6669 | 10 | 5527 | 17 | 5979 | 22 | 9770 | 2 | 4093 | 23 | 6342 | 15 |
| 12 | CMH 11-579 | 7668 | 10 | 11598 | 7 | 5408 | 13 | 11769 | 6 | 5459 | 6 | 6029 | 2 | 5349 | 26 | 6215 | 22 | 7437 | 10 | 7886 | 1 | 9691 | 2 | 7560 | 6 | 8379 | 2 | 6423 | 9 | 8833 | 7 | 9630 | 5 | 5146 | 12 | 7508 | 4 |
| 13 | CMH 11-595 | 8553 | 2 | 12533 | 3 | 6168 | 4 | 13017 | 3 | 5333 | 10 | 5380 | 10 | 7644 | 4 | 5903 | 26 | 8066 | 4 | 5625 | 21 | 11009 | 1 | 9013 | 1 | 8549 | 1 | 5673 | 16 | 10893 | 1 | 9631 | 4 | 4164 | 22 | 7590 | 2 |
| 14 | CMH 11-611 | 7388 | 12 | 11874 | 5 | 5219 | 14 | 10872 | 9 | 2578 | 27 | 4675 | 14 | 7290 | 10 | 9174 | 6 | 7384 | 12 | 7071 | 4 | 8743 | 5 | 7817 | 4 | 7877 | 5 | 6982 | 2 | 8838 | 6 | 9940 | 1 | 2894 | 30 | 7164 | 6 |
| 15 | CMH 11-626 | 7261 | 13 | 10918 | 15 | 6109 | 5 | 12149 | 5 | 4216 | 19 | 2613 | 29 | 7312 | 8 | 10579 | 1 | 7645 | 7 | 5880 | 19 | 9443 | 4 | 8402 | 3 | 7908 | 4 | 6482 | 8 | 8278 | 9 | 9424 | 7 | 4964 | 14 | 7287 | 5 |
| 16 | CMH 11-629 | 7599 | 11 | 11809 | 6 | 6622 | 2 | 12830 | 4 | 6422 | 3 | 3905 | 21 | 7586 | 5 | 9714 | 4 | 8311 | 3 | 6082 | 16 | 9690 | 3 | 8497 | 2 | 8090 | 3 | 6946 | 3 | 10137 | 2 | 9589 | 6 | 6753 | 1 | 8356 | 1 |
| 17 | BH 411305 | 6021 | 22 | 7184 | 27 | 2904 | 23 | 6377 | 27 | 5216 | 11 | 5532 | 7 | 5254 | 27 | 6136 | 23 | 5578 | 23 | 6745 | 7 | 4709 | 26 | 5694 | 19 | 5716 | 21 | 6088 | 12 | 4168 | 30 | 4739 | 28 | 5395 | 9 | 5098 | 28 |
| 18 | Bio 9720 | 7815 | 6 | 13661 | 2 | 5663 | 8 | 9851 | 14 | 4879 | 15 | 5818 | 4 | 6684 | 15 | 6739 | 20 | 7639 | 8 | 6711 | 9 | 5220 | 22 | 5502 | 21 | 5811 | 20 | 7505 | 1 | 8095 | 10 | 6111 | 22 | 5024 | 13 | 6684 | 11 |
| 19 | GWH-0712 | 6418 | 18 | 8700 | 20 | 3269 | 22 | 7904 | 24 | 4406 | 17 | 3637 | 26 | 5526 | 25 | 8265 | 14 | 6016 | 20 | 5277 | 24 | 4787 | 25 | 5330 | 24 | 5131 | 27 | 3680 | 30 | 5342 | 27 | 7247 | 14 | 4375 | 19 | 5161 | 26 |
| 20 | GWH-0902 | 4992 | 27 | 8397 | 21 | 2228 | 25 | 6145 | 29 | 2516 | 28 | 2326 | 30 | 5071 | 28 | 6082 | 24 | 4720 | 30 | 5345 | 23 | 4403 | 28 | 5127 | 26 | 4958 | 28 | 6139 | 11 | 5609 | 25 | 5550 | 26 | 3769 | 25 | 5267 | 24 |
| 21 | GYH-0653 | 6242 | 20 | 8273 | 23 | 4092 | 17 | 8987 | 17 | 3542 | 22 | 3911 | 20 | 5667 | 22 | 5497 | 28 | 5777 | 21 | 6565 | 11 | 3347 | 30 | 5926 | 16 | 5279 | 24 | 4180 | 29 | 5256 | 28 | 6698 | 19 | 3093 | 29 | 4807 | 29 |
| 22 | JH 31610 | 4242 | 28 | 12367 | 4 | 1277 | 29 | 10361 | 12 | 6597 | 1 | 6287 | 1 | 7380 | 7 | 8113 | 16 | 7078 | 15 | 6562 | 12 | 6360 | 16 | 7408 | 7 | 6777 | 8 | 6047 | 13 | 8024 | 11 | 7246 | 15 | 5348 | 10 | 6666 | 12 |
| 23 | JH 31613 | 3488 | 29 | 9471 | 18 | 1674 | 28 | 8571 | 19 | 5118 | 12 | 5971 | 3 | 6173 | 18 | 5176 | 30 | 5705 | 22 | 6061 | 17 | 7644 | 7 | 6364 | 14 | 6690 | 9 | 6736 | 5 | 8910 | 4 | 7756 | 12 | 4517 | 17 | 6980 | 8 |
| 24 | AH-1261 | 6711 | 16 | 9465 | 19 | 3721 | 19 | 9625 | 16 | 2507 | 29 | 2856 | 28 | 5909 | 19 | 8159 | 15 | 6119 | 18 | 5447 | 22 | 4571 | 27 | 5448 | 22 | 5155 | 26 | 5362 | 21 | 5669 | 24 | 7014 | 16 | 4288 | 21 | 5583 | 22 |
| 25 | AH-1219 | 5658 | 23 | 6089 | 30 | 3543 | 21 | 8315 | 22 | 2239 | 30 | 3997 | 19 | 5532 | 24 | 6885 | 19 | 5282 | 28 | 4689 | 29 | 3521 | 29 | 4527 | 29 | 4246 | 30 | 4789 | 26 | 5527 | 26 | 4206 | 30 | 3433 | 28 | 4489 | 30 |
| 26 | MEH-1-12-13 | 6215 | 21 | 9858 | 17 | 4070 | 18 | 9669 | 15 | 5362 | 9 | 5488 | 8 | 6493 | 16 | 9270 | 5 | 7053 | 16 | 7602 | 3 | 6103 | 18 | 5818 | 18 | 6508 | 14 | 4468 | 27 | 6414 | 17 | 8778 | 9 | 4956 | 15 | 6154 | 17 |

BR118

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|----------------------|-------------------------------------|----|--------------|----|--------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| | | ZN 1 | | | | | | | | | | ZN 2 | | | | | | | | | | ZN 3 | | | | | | | | | | | | | | | |
| | | ALMO | R | BAJA | R | BARA | R | BERT | R | DHAU | R | KANG | R | POON | R | UDHA | R | MEAN | R | KARN | R | LUDH | R | PANT | R | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R |
| 27 | HKH 341 | 6711 | 15 | 10073 | 16 | 5586 | 10 | 10374 | 11 | 3081 | 24 | 5227 | 11 | 8023 | 2 | 8476 | 11 | 7194 | 13 | 5669 | 20 | 5861 | 20 | 5608 | 20 | 5713 | 22 | 5503 | 18 | 6581 | 15 | 6845 | 17 | 4005 | 24 | 5734 | 20 |
| 28 | KNMH-4301 CHECKS | 7782 | 7 | 11576 | 9 | 5688 | 6 | 8739 | 18 | 3863 | 20 | 3719 | 25 | 7770 | 3 | 5240 | 29 | 6797 | 17 | 5067 | 26 | 7576 | 8 | 4249 | 30 | 5631 | 23 | 6499 | 7 | 7365 | 14 | 7271 | 13 | 3757 | 26 | 6223 | 16 |
| 29 | PMH 5 (C) | 3307 | 30 | 7747 | 24 | 1082 | 30 | 6744 | 25 | 5097 | 14 | 4909 | 12 | 5814 | 20 | 8369 | 12 | 5384 | 27 | 4688 | 30 | 7159 | 13 | 6913 | 11 | 6253 | 18 | 5287 | 24 | 8884 | 5 | 5840 | 23 | 6499 | 3 | 6627 | 14 |
| 30 | Prakash (C) | 5291 | 25 | 7624 | 25 | 2164 | 26 | 6270 | 28 | 6041 | 5 | 3868 | 22 | 5793 | 21 | 6437 | 21 | 5436 | 25 | 6170 | 15 | 7386 | 9 | 5373 | 23 | 6310 | 17 | 5395 | 19 | 6561 | 16 | 5759 | 25 | 5568 | 8 | 5821 | 18 |
| | Location Mean | 6683 | | 10033 | | 4373 | | 9595 | | 4478 | | 4527 | | 6452 | | 7682 | | 6728 | | 6126 | | 6617 | | 6332 | | 6358 | | 5766 | | 7159 | | 7296 | | 4817 | | 6260 | |
| | C.D. (5%) | 1309 | | 1342 | | 1785 | | 1269 | | 834 | | 271 | | 1281 | | 872 | | 1120 | | 586 | | 1355 | | 1549 | | 1163 | | 686 | | 2311 | | 1838 | | 802 | | 1409 | |
| | C.V. (%) | 11.98 | | 8.18 | | 24.96 | | 6.45 | | 11.39 | | 3.67 | | 12.14 | | 6.94 | | - | | 5.85 | | 12.53 | | 14.96 | | - | | 7.27 | | 19.74 | | 15.41 | | 10.18 | | - | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | Plot Size | 3.6 | | 3.6 | | 4.5 | | 2.4 | | 3.6 | | 2.4 | | 4.8 | | 4.8 | | - | | 6 | | 5.46 | | 6 | | - | | 4.8 | | 4 | | 5.6 | | 4.8 | | - | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 5-07 | | 17-06 | | 17-06 | | 22-06 | | 24-06 | | 22-06 | | 19-06 | | 1-07 | | - | | 29-06 | | 22-06 | | 4-08 | | - | | 1-07 | | 3-07 | | 5-07 | | 20-06 | | - | |
| | Harvest Date | 4-11 | | 9-10 | | 6-10 | | 9-10 | | 2-10 | | 23-09 | | 23-10 | | 4-10 | | - | | 10-10 | | 10-10 | | 21-11 | | - | | 8-09 | | 25-10 | | 24-10 | | 29-09 | | - | |
| | Irrigation Nos | - | | 3 | | - | | - | | - | | - | | - | | - | | - | | 6 | | 4 | | 1 | | - | | - | | 3 | | - | | - | | - | |
| | Fertilizer Applied N | 80 | | 120 | | 80 | | 120 | | 120 | | 120 | | 80 | | 120 | | - | | 150 | | 88 | | 120 | | - | | 120 | | 120 | | 120 | | 120 | | - | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | 60 | | 60 | | 60 | | 60 | | - | | 60 | | 30 | | 60 | | - | | 60 | | 60 | | 60 | | 60 | | - | |
| | Fertilizer Applied K | 40 | | 40 | | 40 | | 40 | | 40 | | 40 | | 40 | | 40 | | - | | 60 | | 20 | | 40 | | - | | 40 | | 40 | | 40 | | 40 | | - | |

TABLE No. 3: (Cont...)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | | | | | | | | ZN 5 | | | | OV/L | | | | | | | | | |
|----------|-------------|-------|----|-------|----|------|----|------|----|-------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|----|------|----|------|----|------|----|
| | | ARBH | R | COIM | R | DHAR | R | HYDE | R | KARI | R | KOLH | R | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | BANS | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 1 | LG-3181 | 10572 | 15 | 7640 | 20 | 6022 | 16 | 6714 | 25 | 6088 | 19 | 6340 | 8 | 6404 | 14 | 8689 | 17 | 5157 | 30 | 6707 | 9 | 7033 | 16 | 5934 | 13 | 3126 | 4 | 2014 | 26 | 6127 | 19 | 4300 | 19 | 6585 | 16 |
| 2 | DMH-63 | 12705 | 9 | 8519 | 14 | 7336 | 8 | 8413 | 4 | 6235 | 18 | 4932 | 22 | 6599 | 13 | 9655 | 10 | 8196 | 12 | 6140 | 11 | 7873 | 13 | 7034 | 6 | 2998 | 9 | 2862 | 21 | 6055 | 20 | 4737 | 16 | 7414 | 8 |
| 3 | DH-264 | 8087 | 22 | 6289 | 25 | 6122 | 15 | 7142 | 18 | 4462 | 26 | 4514 | 26 | 4745 | 29 | 5835 | 27 | 7458 | 20 | 2247 | 24 | 5690 | 24 | 3479 | 28 | 2741 | 23 | 3243 | 18 | 4315 | 29 | 3445 | 28 | 5190 | 27 |
| 4 | DH-265 | 9012 | 18 | 5557 | 29 | 4267 | 27 | 7128 | 19 | 4751 | 24 | 4673 | 25 | 6093 | 19 | 6992 | 22 | 6988 | 22 | 3270 | 19 | 5873 | 21 | 4414 | 23 | 2459 | 27 | 2334 | 22 | 6915 | 11 | 4030 | 22 | 5458 | 23 |
| 5 | FH-3664 | 11069 | 13 | 8323 | 15 | 5313 | 21 | 8725 | 2 | 6382 | 17 | 5998 | 11 | 6858 | 10 | 9001 | 14 | 8564 | 9 | 4504 | 18 | 7474 | 15 | 5745 | 15 | 2824 | 17 | 3887 | 13 | 7247 | 8 | 4926 | 14 | 6906 | 13 |
| 6 | FH-3669 | 13544 | 5 | 8933 | 12 | 6695 | 11 | 7918 | 8 | 9069 | 5 | 6265 | 9 | 7360 | 5 | 9086 | 13 | 7761 | 16 | 7030 | 8 | 8366 | 8 | 6992 | 7 | 2954 | 10 | 5413 | 4 | 7505 | 6 | 5716 | 4 | 7273 | 9 |
| 7 | B-52 | 12598 | 10 | 11069 | 7 | 8809 | 2 | 8407 | 5 | 8468 | 8 | 6836 | 6 | 6646 | 12 | 10863 | 6 | 8506 | 11 | 5547 | 14 | 8775 | 7 | 5124 | 21 | 2527 | 26 | 5301 | 5 | 7843 | 3 | 5199 | 10 | 7602 | 7 |
| 8 | EH-2211 | 7426 | 25 | 6352 | 24 | 4561 | 24 | 6887 | 21 | 6045 | 20 | 4206 | 27 | 5394 | 23 | 5798 | 28 | 6945 | 23 | 1627 | 25 | 5524 | 26 | 2680 | 30 | 3080 | 5 | 2055 | 25 | 4697 | 27 | 3128 | 29 | 5013 | 28 |
| 9 | EH-2214 | 10975 | 14 | 9809 | 10 | 7173 | 9 | 7278 | 14 | 6507 | 15 | 6724 | 7 | 7239 | 6 | 9421 | 11 | 7546 | 19 | 7138 | 7 | 7981 | 12 | 5436 | 18 | 2922 | 12 | 4962 | 7 | 6505 | 15 | 4956 | 13 | 6697 | 15 |
| 10 | EH-2233 | 9727 | 17 | 10437 | 9 | 8245 | 3 | 5146 | 29 | 6469 | 16 | 5245 | 18 | 6173 | 17 | 8912 | 16 | 7895 | 14 | 7854 | 3 | 7610 | 14 | 6366 | 12 | 2936 | 11 | 4806 | 8 | 6975 | 10 | 5271 | 8 | 6990 | 12 |
| 11 | NMH-1258 | 11460 | 12 | 12481 | 6 | 8226 | 4 | 7219 | 16 | 7544 | 10 | 7294 | 1 | 9763 | 1 | 11741 | 2 | 7449 | 21 | 5653 | 13 | 8883 | 6 | 6546 | 10 | 2005 | 29 | 3801 | 14 | 7664 | 4 | 5004 | 12 | 7809 | 5 |
| 12 | CMH 11-579 | 13842 | 4 | 13221 | 3 | 5948 | 18 | 7241 | 15 | 9964 | 2 | 6938 | 4 | 6799 | 11 | 10212 | 7 | 10316 | 3 | 8204 | 1 | 9269 | 3 | 7970 | 2 | 2542 | 25 | 7805 | 1 | 8420 | 2 | 6684 | 1 | 8072 | 3 |
| 13 | CMH 11-595 | 13040 | 6 | 13579 | 2 | 7460 | 7 | 7699 | 10 | 9934 | 3 | 6959 | 3 | 6371 | 15 | 10114 | 8 | 7974 | 13 | 7488 | 4 | 9062 | 5 | 7833 | 3 | 2847 | 15 | 5740 | 3 | 6784 | 12 | 5801 | 2 | 8081 | 2 |
| 14 | CMH 11-611 | 12988 | 7 | 13177 | 4 | 8918 | 1 | 7504 | 11 | 8667 | 6 | 5305 | 16 | 5674 | 21 | 11102 | 4 | 10420 | 2 | 7436 | 5 | 9119 | 4 | 7216 | 4 | 2779 | 19 | 4342 | 10 | 6768 | 13 | 5276 | 7 | 7712 | 6 |
| 15 | CMH 11-626 | 14535 | 2 | 12760 | 5 | 7497 | 6 | 7109 | 20 | 9930 | 4 | 6852 | 5 | 7623 | 3 | 10973 | 5 | 8933 | 8 | 7332 | 6 | 9354 | 2 | 6681 | 9 | 2755 | 21 | 4241 | 12 | 9385 | 1 | 5765 | 3 | 7953 | 4 |
| 16 | CMH 11-629 | 15152 | 1 | 14401 | 1 | 7967 | 5 | 8879 | 1 | 11602 | 1 | 7285 | 2 | 8281 | 2 | 11862 | 1 | 12645 | 1 | 7936 | 2 | 10601 | 1 | 8904 | 1 | 2377 | 28 | 5277 | 6 | 5754 | 23 | 5578 | 5 | 8707 | 1 |
| 17 | BH 411305 | 9008 | 19 | 7680 | 19 | 5969 | 17 | 6869 | 22 | 6664 | 13 | 5406 | 15 | 5544 | 22 | 7423 | 21 | 6800 | 24 | 2650 | 23 | 6401 | 19 | 4279 | 25 | 3056 | 6 | 3726 | 15 | 7446 | 7 | 4627 | 17 | 5679 | 21 |
| 18 | Bio 9720 | 14035 | 3 | 8681 | 13 | 6626 | 12 | 7207 | 17 | 6866 | 12 | 5983 | 12 | 6260 | 16 | 11400 | 3 | 10001 | 4 | 6341 | 10 | 8340 | 9 | 7079 | 5 | 1960 | 30 | 3263 | 17 | 7036 | 9 | 4835 | 15 | 7173 | 10 |
| 19 | GWH-0712 | 7671 | 24 | 6107 | 26 | 5661 | 20 | 6633 | 26 | 3719 | 30 | 4815 | 23 | 5704 | 20 | 6324 | 24 | 5227 | 29 | 2680 | 22 | 5454 | 28 | 4325 | 24 | 2845 | 16 | 1532 | 30 | 6249 | 18 | 3738 | 26 | 5298 | 26 |
| 20 | GWH-0902 | 6137 | 26 | 5276 | 30 | 4279 | 26 | 4741 | 30 | 4323 | 27 | 3437 | 30 | 4434 | 30 | 6200 | 25 | 6406 | 26 | 1566 | 26 | 4680 | 30 | 3613 | 27 | 3735 | 1 | 1906 | 27 | 4863 | 25 | 3529 | 27 | 4642 | 30 |
| 21 | GYH-0653 | 9001 | 20 | 5917 | 27 | 3551 | 30 | 6783 | 23 | 3862 | 28 | 5009 | 21 | 4765 | 28 | 8541 | 19 | 6301 | 27 | 2990 | 21 | 5672 | 25 | 4946 | 22 | 2814 | 18 | 3622 | 16 | 4815 | 26 | 4049 | 21 | 5317 | 25 |
| 22 | JH 31610 | 6015 | 27 | 8306 | 16 | 4100 | 29 | 7504 | 12 | 7185 | 11 | 5301 | 17 | 4817 | 27 | 8688 | 18 | 9023 | 7 | 985 | 28 | 6192 | 20 | 6456 | 11 | 3223 | 3 | 3027 | 20 | 4662 | 28 | 4342 | 18 | 6307 | 17 |
| 23 | JH 31613 | 4061 | 30 | 6603 | 23 | 4402 | 25 | 8453 | 3 | 5207 | 22 | 5689 | 14 | 5035 | 25 | 9337 | 12 | 7815 | 15 | 700 | 29 | 5730 | 23 | 5481 | 17 | 3500 | 2 | 4243 | 11 | 7581 | 5 | 5201 | 9 | 5922 | 19 |
| 24 | AH-1261 | 8511 | 21 | 8149 | 18 | 4592 | 23 | 8315 | 6 | 5136 | 23 | 4016 | 29 | 6884 | 9 | 7999 | 20 | 6430 | 25 | 5190 | 15 | 6522 | 18 | 3658 | 26 | 3029 | 7 | 3167 | 19 | 6554 | 14 | 4102 | 20 | 5806 | 20 |
| 25 | AH-1219 | 8074 | 23 | 5874 | 28 | 4249 | 28 | 7480 | 13 | 3754 | 29 | 4131 | 28 | 4978 | 26 | 6003 | 26 | 7573 | 18 | 3072 | 20 | 5519 | 27 | 3078 | 29 | 2865 | 14 | 1724 | 28 | 3931 | 30 | 2899 | 30 | 4818 | 29 |
| 26 | MEH-1-12-13 | 12541 | 11 | 9433 | 11 | 6999 | 10 | 8217 | 7 | 8077 | 9 | 6038 | 10 | 7413 | 4 | 8915 | 15 | 9355 | 6 | 4997 | 16 | 8199 | 10 | 6768 | 8 | 3028 | 8 | 4385 | 9 | 6301 | 17 | 5121 | 11 | 7001 | 11 |

BR120

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | | | | | | | | ZN 5 | | | OV'L | | | | | | | | | | | |
|----------|----------------------|--------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|------|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|--|
| | | ARBH | R | COIM | R | DHAR | R | HYDE | R | KARI | R | KOLH | R | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | BANS | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R | |
| 27 | HKH 341 | 10532 | 16 | 7610 | 21 | 5188 | 22 | 7860 | 9 | 4719 | 25 | 5065 | 20 | 7225 | 7 | 5138 | 29 | 9469 | 5 | 4720 | 17 | 6753 | 17 | 5257 | 20 | 2746 | 22 | 2075 | 24 | 5881 | 21 | 3990 | 24 | 6245 | 18 | |
| 28 | KNMH-4301 CHECKS | 12807 | 8 | 11054 | 8 | 6379 | 13 | 6459 | 27 | 8495 | 7 | 5770 | 13 | 6889 | 8 | 9813 | 9 | 7738 | 17 | 6007 | 12 | 8141 | 11 | 5704 | 16 | 2893 | 13 | 6148 | 2 | 6488 | 16 | 5308 | 6 | 6855 | 14 | |
| 29 | PMH 5 (C) | 4405 | 29 | 8286 | 17 | 5737 | 19 | 5398 | 28 | 5253 | 21 | 4749 | 24 | 5281 | 24 | 4980 | 30 | 8508 | 10 | 657 | 30 | 5325 | 29 | 5789 | 14 | 2772 | 20 | 1646 | 29 | 5182 | 24 | 3847 | 25 | 5413 | 24 | |
| 30 | Prakash (C) | 5744 | 28 | 7556 | 22 | 6346 | 14 | 6763 | 24 | 6578 | 14 | 5154 | 19 | 6118 | 18 | 6789 | 23 | 6184 | 28 | 1148 | 27 | 5838 | 22 | 5302 | 19 | 2683 | 24 | 2263 | 23 | 5803 | 22 | 4013 | 23 | 5522 | 22 | |
| | Location Mean | 10176 | | 8969 | | 6155 | | 7270 | | 6732 | | 5564 | | 6312 | | 8593 | | 7986 | | 4661 | | 7242 | | 5670 | | 2834 | | 3694 | | 6392 | | 4647 | | 6515 | | |
| | C.D. (5%) | 1669 | | 1176 | | 1999 | | 1961 | | 1150 | | 1369 | | 898 | | 1365 | | 2324 | | 1519 | | 1543 | | 957 | | 639 | | 1064 | | 1144 | | 951 | | 1287 | | |
| | C.V. (%) | 10.03 | | 8.02 | | 19.86 | | 16.5 | | 10.45 | | 15.05 | | 8.7 | | 9.72 | | 17.8 | | 19.94 | | - | | 10.33 | | 13.79 | | 17.63 | | 10.94 | | - | | - | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0.013 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0.001 | | 0 | | 0 | | - | | - | | |
| | Plot Size | 6 | | 4.8 | | 4.8 | | 6 | | 6 | | 6 | | 5.6 | | 6 | | 4.8 | | 4.8 | | - | | 6 | | 6 | | 6 | | 4.8 | | - | | - | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 9-07 | | 1-07 | | 24-06 | | 5-07 | | 29-06 | | 27-07 | | 26-06 | | 19-06 | | 15-07 | | - | | 5-07 | | 3-07 | | 10-07 | | 1-07 | | - | | - | | |
| | Harvest Date | 9-11 | | 30-10 | | 3-11 | | 19-10 | | 30-10 | | 16-11 | | 13-12 | | 29-10 | | 5-10 | | 23-11 | | - | | - | | 10-10 | | 16-11 | | 17-10 | | - | | - | | |
| | Irrigation Nos | 6 | | 10 | | - | | 2 | | - | | - | | 8 | | - | | 13 | | 2 | | - | | - | | - | | - | | 2 | | - | | - | | |
| | Fertilizer Applied N | 150 | | 150 | | 150 | | 200 | | 200 | | 120 | | 150 | | - | | 150 | | 150 | | - | | 120 | | 150 | | 120 | | 90 | | - | | - | | |
| | Fertilizer Applied P | 75 | | 75 | | 75 | | 60 | | 60 | | 60 | | 75 | | - | | 75 | | 75 | | - | | 60 | | 80 | | 60 | | 60 | | - | | - | | |
| | Fertilizer Applied K | 37.5 | | 75 | | 37.5 | | 50 | | 60 | | 40 | | 40 | | - | | 75 | | 37.5 | | - | | 40 | | - | | 40 | | - | | - | | - | | |

TABLE No. 3 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH 5 (C) | | | | | | | | | | | | | | | | | |
|----------|-------------|--|------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | | | | | | | | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | |
| 1 | LG-3181 | 155 | 45.2 | 348.8 | 68.4 | - | 16.3 | 22 | - | 39.8 | 27 | - | 4.7 | 6.5 | - | - | 15.1 | - | - |
| 2 | DMH-63 | 151.8 | 42.9 | 421.4 | 110.2 | 29.3 | 13.8 | 18.6 | 17.3 | 58.1 | 48.2 | 11.9 | 4 | 18.1 | 21.1 | - | 7.9 | 3.7 | 2.2 |
| 3 | DH-264 | 59.2 | - | 122.2 | 22.5 | - | - | - | 6.1 | 2.8 | 0.3 | - | - | - | 23.7 | - | - | - | - |
| 4 | DH-265 | 63 | 7.2 | 241.3 | - | - | - | - | - | 0.4 | 1.9 | - | - | - | - | - | 4.9 | - | - |
| 5 | FH-3664 | 114 | 44.4 | 416.1 | 73.6 | 6 | - | 8.4 | - | 33 | 42.1 | 2.2 | - | 6 | 30.6 | - | 43.1 | - | 8.1 |
| 6 | FH-3669 | 132.5 | 49.5 | 424.2 | 52 | 24.5 | - | 17.6 | 6.2 | 43.3 | 39.9 | - | 2.8 | 5.9 | 1.1 | - | - | - | - |
| 7 | B-52 | 153.5 | 49.3 | 499.2 | 25.8 | 0.2 | 10.4 | 23.9 | 3.2 | 42.3 | 67.6 | - | 9.4 | 9.8 | 10.1 | 11.6 | 38.4 | - | 13.3 |
| 8 | EH-2211 | 95.8 | - | 97.2 | - | - | - | 28.7 | - | - | 8.9 | - | - | - | 11.7 | - | - | - | - |
| 9 | EH-2214 | 134.5 | - | 322.8 | 24.5 | - | - | - | - | 12.3 | 43.2 | - | - | 1.8 | 2 | - | 60.1 | - | 2.2 |
| 10 | EH-2233 | 92.7 | 43 | 413.9 | 61.1 | - | - | 25.6 | 21.2 | 38 | 49.8 | 1.2 | - | 4 | 1.2 | - | 67.1 | - | 0.3 |
| 11 | NMH-1258 | 201.1 | 82.5 | 648.6 | 95.5 | 5.7 | - | 39.9 | 3.3 | 67.7 | 35.1 | 0.6 | - | 6.6 | 4.5 | - | 67.3 | - | - |
| 12 | CMH 11-579 | 131.9 | 49.7 | 399.8 | 74.5 | 7.1 | 22.8 | - | - | 38.1 | 68.2 | 35.4 | 9.4 | 34 | 21.5 | - | 64.9 | - | 13.3 |
| 13 | CMH 11-595 | 158.7 | 61.8 | 470.1 | 93 | 4.6 | 9.6 | 31.5 | - | 49.8 | 20 | 53.8 | 30.4 | 36.7 | 7.3 | 22.6 | 64.9 | - | 14.5 |
| 14 | CMH 11-611 | 123.4 | 53.3 | 382.4 | 61.2 | - | - | 25.4 | 9.6 | 37.2 | 50.8 | 22.1 | 13.1 | 26 | 32.1 | - | 70.2 | - | 8.1 |
| 15 | CMH 11-626 | 119.6 | 40.9 | 464.7 | 80.1 | - | - | 25.8 | 26.4 | 42 | 25.4 | 31.9 | 21.5 | 26.5 | 22.6 | - | 61.4 | - | 10 |
| 16 | CMH 11-629 | 129.8 | 52.4 | 512.1 | 90.2 | 26 | - | 30.5 | 16.1 | 54.4 | 29.7 | 35.4 | 22.9 | 29.4 | 31.4 | 14.1 | 64.2 | 3.9 | 26.1 |
| 17 | BH 411305 | 82.1 | - | 168.5 | - | 2.3 | 12.7 | - | - | 3.6 | 43.9 | - | - | - | 15.2 | - | - | - | - |
| 18 | Bio 9720 | 136.3 | 76.3 | 423.4 | 46.1 | - | 18.5 | 15 | - | 41.9 | 43.2 | - | - | - | 42 | - | 4.6 | - | 0.8 |
| 19 | GWH-0712 | 94.1 | 12.3 | 202.2 | 17.2 | - | - | - | - | 11.7 | 12.6 | - | - | - | - | - | 24.1 | - | - |
| 20 | GWH-0902 | 51 | 8.4 | 106 | - | - | - | - | - | - | 14 | - | - | - | 16.1 | - | - | - | - |
| 21 | GYH-0653 | 88.8 | 6.8 | 278.2 | 33.3 | - | - | - | - | 7.3 | 40 | - | - | - | - | - | 14.7 | - | - |
| 22 | JH 31610 | 28.3 | 59.6 | 18.1 | 53.6 | 29.4 | 28.1 | 26.9 | - | 31.5 | 40 | - | 7.2 | 8.4 | 14.4 | - | 24.1 | - | 0.6 |
| 23 | JH 31613 | 5.5 | 22.3 | 54.7 | 27.1 | 0.4 | 21.6 | 6.2 | - | 6 | 29.3 | 6.8 | - | 7 | 27.4 | 0.3 | 32.8 | - | 5.3 |
| 24 | AH-1261 | 103 | 22.2 | 243.9 | 42.7 | - | - | 1.6 | - | 13.7 | 16.2 | - | - | - | 1.4 | - | 20.1 | - | - |
| 25 | AH-1219 | 71.1 | - | 227.5 | 23.3 | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - |
| 26 | MEH-1-12-13 | 88 | 27.3 | 276.2 | 43.4 | 5.2 | 11.8 | 11.7 | 10.8 | 31 | 62.2 | - | - | 4.1 | - | - | 50.3 | - | - |
| 27 | HKH 341 | 103 | 30 | 416.3 | 53.8 | - | 6.5 | 38 | 1.3 | 33.6 | 20.9 | - | - | - | 4.1 | - | 17.2 | - | - |
| 28 | KNMH-4301 | 135.3 | 49.4 | 425.7 | 29.6 | - | - | 33.6 | - | 26.3 | 8.1 | 5.8 | - | - | 22.9 | - | 24.5 | - | - |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | Prakash (C) | 60 | - | 100 | - | 18.5 | - | - | - | 1 | 31.6 | 3.2 | - | 0.9 | 2 | - | - | - | - |

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TABLE No. 3 (Cont..)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | | ZN 5 | | OV'L |
|----------|-------------|-------|------|------|------|-------|------|------|-------|------|--------|------|------|------|-------|------|------|------|
| | | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | CHHI | UDAI | MEAN | MEAN |
| 1 | LG-3181 | 140 | - | 5 | 24.4 | 15.9 | 33.5 | 21.3 | 74.5 | - | 921.2 | 32.1 | 2.5 | 12.8 | 22.4 | 18.2 | 11.8 | 21.6 |
| 2 | DMH-63 | 188.5 | 2.8 | 27.9 | 55.8 | 18.7 | 3.8 | 25 | 93.9 | - | 834.8 | 47.8 | 21.5 | 8.2 | 73.9 | 16.8 | 23.1 | 37 |
| 3 | DH-264 | 83.6 | - | 6.7 | 32.3 | - | - | - | 17.2 | - | 242.1 | 6.9 | - | - | 97.1 | - | - | - |
| 4 | DH-265 | 104.6 | - | - | 32 | - | - | 15.4 | 40.4 | - | 397.8 | 10.3 | - | - | 41.8 | 33.4 | 4.8 | 0.8 |
| 5 | FH-3664 | 151.3 | 0.4 | - | 61.6 | 21.5 | 26.3 | 29.9 | 80.8 | 0.7 | 585.7 | 40.3 | - | 1.9 | 136.2 | 39.8 | 28 | 27.6 |
| 6 | FH-3669 | 207.5 | 7.8 | 16.7 | 46.7 | 72.7 | 31.9 | 39.4 | 82.5 | - | 970.3 | 57.1 | 20.8 | 6.5 | 228.9 | 44.8 | 48.6 | 34.4 |
| 7 | B-52 | 186 | 33.6 | 53.6 | 55.7 | 61.2 | 43.9 | 25.9 | 118.2 | - | 744.5 | 64.8 | - | - | 222.1 | 51.4 | 35.1 | 40.4 |
| 8 | EH-2211 | 68.6 | - | - | 27.6 | 15.1 | - | 2.1 | 16.4 | - | 147.7 | 3.7 | - | 11.1 | 24.9 | - | - | - |
| 9 | EH-2214 | 149.2 | 18.4 | 25 | 34.8 | 23.9 | 41.6 | 37.1 | 89.2 | - | 986.8 | 49.9 | - | 5.4 | 201.5 | 25.5 | 28.8 | 23.7 |
| 10 | EH-2233 | 120.8 | 26 | 43.7 | - | 23.2 | 10.4 | 16.9 | 79 | - | 1095.7 | 42.9 | 10 | 5.9 | 192 | 34.6 | 37 | 29.1 |
| 11 | NMH-1258 | 160.2 | 50.6 | 43.4 | 33.7 | 43.6 | 53.6 | 84.9 | 135.8 | - | 760.6 | 66.8 | 13.1 | - | 131 | 47.9 | 30.1 | 44.3 |
| 12 | CMH 11-579 | 214.3 | 59.6 | 3.7 | 34.1 | 89.7 | 46.1 | 28.8 | 105.1 | 21.2 | 1149 | 74 | 37.7 | - | 374.3 | 62.5 | 73.7 | 49.1 |
| 13 | CMH 11-595 | 196.1 | 63.9 | 30 | 42.6 | 89.1 | 46.5 | 20.7 | 103.1 | - | 1040.1 | 70.2 | 35.3 | 2.7 | 248.8 | 30.9 | 50.8 | 49.3 |
| 14 | CMH 11-611 | 194.9 | 59 | 55.5 | 39 | 65 | 11.7 | 7.5 | 123 | 22.5 | 1032.2 | 71.2 | 24.7 | 0.2 | 163.8 | 30.6 | 37.1 | 42.5 |
| 15 | CMH 11-626 | 230 | 54 | 30.7 | 31.7 | 89 | 44.3 | 44.4 | 120.4 | 5 | 1016.3 | 75.7 | 15.4 | - | 157.7 | 81.1 | 49.9 | 46.9 |
| 16 | CMH 11-629 | 244 | 73.8 | 38.9 | 64.5 | 120.9 | 53.4 | 56.8 | 138.2 | 48.6 | 1108.3 | 99.1 | 53.8 | - | 220.6 | 11 | 45 | 60.8 |
| 17 | BH 411305 | 104.5 | - | 4 | 27.2 | 26.9 | 13.8 | 5 | 49.1 | - | 303.4 | 20.2 | - | 10.2 | 126.4 | 43.7 | 20.3 | 4.9 |
| 18 | Bio 9720 | 218.6 | 4.8 | 15.5 | 33.5 | 30.7 | 26 | 18.5 | 128.9 | 17.5 | 865.3 | 56.6 | 22.3 | - | 98.3 | 35.8 | 25.7 | 32.5 |
| 19 | GWH-0712 | 74.2 | - | - | 22.9 | - | 1.4 | 8 | 27 | - | 308.1 | 2.4 | - | 2.6 | - | 20.6 | - | - |
| 20 | GWH-0902 | 39.3 | - | - | - | - | - | - | 24.5 | - | 138.5 | - | - | 34.7 | 15.8 | - | - | - |
| 21 | GYH-0653 | 104.4 | - | - | 25.6 | - | 5.5 | - | 71.5 | - | 355.3 | 6.5 | - | 1.5 | 120.1 | - | 5.3 | - |
| 22 | JH 31610 | 36.6 | 0.2 | - | 39 | 36.8 | 11.6 | - | 74.5 | 6 | 50 | 16.3 | 11.5 | 16.3 | 83.9 | - | 12.9 | 16.5 |
| 23 | JH 31613 | - | - | - | 56.6 | - | 19.8 | - | 87.5 | - | 6.6 | 7.6 | - | 26.2 | 157.8 | 46.3 | 35.2 | 9.4 |
| 24 | AH-1261 | 93.2 | - | - | 54 | - | - | 30.4 | 60.6 | - | 690.2 | 22.5 | - | 9.3 | 92.5 | 26.5 | 6.6 | 7.3 |
| 25 | AH-1219 | 83.3 | - | - | 38.6 | - | - | - | 20.6 | - | 367.6 | 3.6 | - | 3.3 | 4.7 | - | - | - |
| 26 | MEH-1-12-13 | 184.7 | 13.8 | 22 | 52.2 | 53.8 | 27.1 | 40.4 | 79 | 9.9 | 660.9 | 54 | 16.9 | 9.2 | 166.5 | 21.6 | 33.1 | 29.3 |
| 27 | HKH 341 | 139.1 | - | - | 45.6 | - | 6.6 | 36.8 | 3.2 | 11.3 | 618.6 | 26.8 | - | - | 26.1 | 13.5 | 3.7 | 15.4 |
| 28 | KNMH-4301 | 190.8 | 33.4 | 11.2 | 19.6 | 61.7 | 21.5 | 30.5 | 97.1 | - | 814.6 | 52.9 | - | 4.4 | 273.6 | 25.2 | 38 | 26.6 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | Prakash (C) | 30.4 | - | 10.6 | 25.3 | 25.2 | 8.5 | 15.8 | 36.3 | - | 74.8 | 9.6 | - | - | 37.5 | 12 | 4.3 | 2 |

TABLE No. 3 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Prakash (C) | | | | | | | | | | | | | | | | | |
|----------|-------------|--|------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | | | | | | | | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | |
| 1 | LG-3181 | 59.4 | 47.5 | 124.4 | 81.1 | - | 47.5 | 22.4 | 29.6 | 38.4 | - | - | 34.7 | 5.6 | - | - | 16.7 | 4.4 | - |
| 2 | DMH-63 | 57.4 | 45.2 | 160.7 | 126 | 9.1 | 44.4 | 19 | 52.5 | 56.6 | 12.6 | 8.5 | 33.8 | 17 | 18.6 | 16.4 | 9.4 | 21.1 | 16.3 |
| 3 | DH-264 | - | - | 11.1 | 31.8 | - | 7.4 | - | 38 | 1.8 | - | - | - | - | 21.3 | - | - | - | - |
| 4 | DH-265 | 1.9 | 8.9 | 70.6 | 6.6 | - | - | - | 26 | - | - | - | 21.7 | - | - | - | 6.4 | - | - |
| 5 | FH-3664 | 33.7 | 46.7 | 158 | 86.7 | - | 4.7 | 8.8 | - | 31.8 | 8 | - | 9.9 | 5.1 | 28 | 14.9 | 45.1 | 5 | 23 |
| 6 | FH-3669 | 45.3 | 51.9 | 162.1 | 63.5 | 5 | 15.5 | 18 | 38.1 | 41.9 | 6.3 | - | 32.3 | 5 | - | - | 0.6 | 0.6 | - |
| 7 | B-52 | 58.4 | 51.7 | 199.6 | 35.3 | - | 40.1 | 24.3 | 34.2 | 40.9 | 27.3 | - | 40.7 | 8.8 | 7.9 | 51.2 | 40.3 | 11.7 | 29 |
| 8 | EH-2211 | 22.4 | - | - | - | - | 12.3 | 29.2 | - | - | - | - | - | - | 9.5 | - | - | - | - |
| 9 | EH-2214 | 46.6 | - | 111.4 | 33.9 | - | - | - | 8.8 | 11.2 | 8.8 | - | 17.6 | 0.9 | - | 34.6 | 62.3 | - | 16.4 |
| 10 | EH-2233 | 20.4 | 45.3 | 156.9 | 73.3 | - | - | 26.1 | 57.6 | 36.7 | 13.8 | - | - | 3 | - | - | 69.5 | - | 14.2 |
| 11 | NMH-1258 | 88.2 | 85.5 | 274.3 | 110.2 | - | 21.1 | 40.4 | 34.3 | 66.1 | 2.6 | - | 20.4 | 5.7 | 2.5 | - | 69.7 | - | 9 |
| 12 | CMH 11-579 | 44.9 | 52.1 | 149.9 | 87.7 | - | 55.9 | - | - | 36.8 | 27.8 | 31.2 | 40.7 | 32.8 | 19.1 | 34.6 | 67.2 | - | 29 |
| 13 | CMH 11-595 | 61.7 | 64.4 | 185 | 107.6 | - | 39.1 | 31.9 | - | 48.4 | - | 49.1 | 67.7 | 35.5 | 5.2 | 66 | 67.2 | - | 30.4 |
| 14 | CMH 11-611 | 39.6 | 55.8 | 141.2 | 73.4 | - | 20.8 | 25.8 | 42.5 | 35.8 | 14.6 | 18.4 | 45.5 | 24.8 | 29.4 | 34.7 | 72.6 | - | 23.1 |
| 15 | CMH 11-626 | 37.2 | 43.2 | 182.3 | 93.7 | - | - | 26.2 | 64.3 | 40.6 | - | 27.9 | 56.4 | 25.3 | 20.2 | 26.2 | 63.7 | - | 25.2 |
| 16 | CMH 11-629 | 43.6 | 54.9 | 206 | 104.6 | 6.3 | 0.9 | 30.9 | 50.9 | 52.9 | - | 31.2 | 58.1 | 28.2 | 28.8 | 54.5 | 66.5 | 21.3 | 43.6 |
| 17 | BH 411305 | 13.8 | - | 34.2 | 1.7 | - | 43 | - | - | 2.6 | 9.3 | - | 6 | - | 12.9 | - | - | - | - |
| 18 | Bio 9720 | 47.7 | 79.2 | 161.7 | 57.1 | - | 50.4 | 15.4 | 4.7 | 40.5 | 8.8 | - | 2.4 | - | 39.1 | 23.4 | 6.1 | - | 14.8 |
| 19 | GWH-0712 | 21.3 | 14.1 | 51.1 | 26.1 | - | - | - | 28.4 | 10.7 | - | - | - | - | - | - | 25.8 | - | - |
| 20 | GWH-0902 | - | 10.2 | 3 | - | - | - | - | - | - | - | - | - | - | 13.8 | - | - | - | - |
| 21 | GYH-0653 | 18 | 8.5 | 89.1 | 43.3 | - | 1.1 | - | - | 6.3 | 6.4 | - | 10.3 | - | - | - | 16.3 | - | - |
| 22 | JH 31610 | - | 62.2 | - | 65.2 | 9.2 | 62.5 | 27.4 | 26 | 30.2 | 6.4 | - | 37.9 | 7.4 | 12.1 | 22.3 | 25.8 | - | 14.5 |
| 23 | JH 31613 | - | 24.2 | - | 36.7 | - | 54.4 | 6.6 | - | 5 | - | 3.5 | 18.4 | 6 | 24.9 | 35.8 | 34.7 | - | 19.9 |
| 24 | AH-1261 | 26.8 | 24.2 | 72 | 53.5 | - | - | 2 | 26.8 | 12.6 | - | - | 1.4 | - | - | - | 21.8 | - | - |
| 25 | AH-1219 | 6.9 | - | 63.7 | 32.6 | - | 3.3 | - | 7 | - | - | - | - | - | - | - | - | - | - |
| 26 | MEH-1-12-13 | 17.5 | 29.3 | 88.1 | 54.2 | - | 41.9 | 12.1 | 44 | 29.8 | 23.2 | - | 8.3 | 3.1 | - | - | 52.4 | - | 5.7 |
| 27 | HKH 341 | 26.8 | 32.1 | 158.1 | 65.4 | - | 35.1 | 38.5 | 31.7 | 32.3 | - | - | 4.4 | - | 2 | 0.3 | 18.9 | - | - |
| 28 | KNMH-4301 | 47.1 | 51.8 | 162.8 | 39.4 | - | - | 34.1 | - | 25 | - | 2.6 | - | - | 20.5 | 12.2 | 26.3 | - | 6.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | - | 1.6 | - | 7.6 | - | 26.9 | 0.4 | 30 | - | - | - | 28.7 | - | - | 35.4 | 1.4 | 16.7 | 13.9 |
| 30 | Prakash (C) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table No. 3 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | | | |
|--------|------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 1 | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | ALMO | BAJA | BARA | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 87.7 | 88.2 | 78.3 | 86.0 | 77.2 | 86.0 | 79.5 | 83.3 | 65.0 | 85.3 | 90.4 | 80.2 | 81.4 | 77.5 | 82.5 | 81.5 | 80.7 |
| 2 | DMH-63 | 86.6 | 88.2 | 78.9 | 84.9 | 72.2 | 85.4 | 77.4 | 81.9 | 62.9 | 87.9 | 89.1 | 80.0 | 80.1 | 78.5 | 87.6 | 81.0 | 81.8 |
| 3 | DH-264 | 87.3 | 82.1 | 81.1 | 83.4 | 80.1 | 78.4 | 80.0 | 81.8 | 64.1 | 86.2 | 87.4 | 79.2 | 79.6 | 76.4 | 86.3 | 79.0 | 80.3 |
| 4 | DH-265 | 83.7 | 84.3 | 72.2 | 83.3 | 72.7 | 74.8 | 80.8 | 78.8 | 65.3 | 86.1 | 85.1 | 78.8 | 79.9 | 80.5 | 85.2 | 75.0 | 80.1 |
| 5 | FH-3664 | 86.4 | 82.2 | 75.4 | 87.6 | 76.3 | 86.8 | 75.5 | 81.5 | 66.4 | 82.9 | 87.9 | 79.0 | 81.2 | 77.5 | 86.1 | 77.0 | 80.4 |
| 6 | FH-3669 | 82.4 | 82.0 | 78.4 | 85.9 | 70.4 | 84.7 | 73.1 | 79.5 | 63.3 | 75.4 | 84.9 | 74.5 | 76.9 | 79.8 | 84.2 | 78.5 | 79.8 |
| 7 | B-52 | 83.7 | 83.2 | 81.2 | 88.2 | 71.7 | 84.0 | 81.5 | 81.9 | 68.1 | 80.4 | 83.0 | 77.1 | 71.4 | 83.1 | 88.2 | 74.5 | 79.3 |
| 8 | EH-2211 | 88.4 | 86.8 | 75.3 | 81.3 | 75.6 | 85.4 | 78.1 | 81.6 | 64.0 | 85.7 | 88.6 | 79.4 | 77.1 | 81.7 | 84.6 | 80.0 | 80.8 |
| 9 | EH-2214 | 82.4 | 80.7 | 81.3 | 83.1 | 72.5 | 82.2 | 76.3 | 79.8 | 64.9 | 80.4 | 85.5 | 76.9 | 75.6 | 78.4 | 83.7 | 71.5 | 77.3 |
| 10 | EH-2233 | 80.6 | 81.5 | 82.0 | 83.8 | 70.6 | 83.0 | 85.5 | 81.0 | 65.6 | 81.0 | 85.3 | 77.3 | 71.9 | 73.9 | 84.2 | 74.5 | 76.1 |
| 11 | NMH-1258 | 88.0 | 89.7 | 80.1 | 84.6 | 78.1 | 86.3 | 83.5 | 84.3 | 65.4 | 86.3 | 86.6 | 79.4 | 80.3 | 83.2 | 87.8 | 82.0 | 83.3 |
| 12 | CMH 11-579 | 82.9 | 84.1 | 74.1 | 83.9 | 70.9 | 85.2 | 73.5 | 79.2 | 67.8 | 80.8 | 85.8 | 78.1 | 77.9 | 82.6 | 78.8 | 77.5 | 79.2 |
| 13 | CMH 11-595 | 81.9 | 82.9 | 83.8 | 85.5 | 70.8 | 81.9 | 71.0 | 79.7 | 66.2 | 85.8 | 81.0 | 77.7 | 77.7 | 83.8 | 86.4 | 71.5 | 79.8 |
| 14 | CMH 11-611 | 82.2 | 83.7 | 78.4 | 84.5 | 75.5 | 84.6 | 83.8 | 81.8 | 67.9 | 80.0 | 88.5 | 78.8 | 77.4 | 85.0 | 84.9 | 76.5 | 80.9 |
| 15 | CMH 11-626 | 83.2 | 85.2 | 83.8 | 65.9 | 70.8 | 80.0 | 85.5 | 79.2 | 63.9 | 85.2 | 86.7 | 78.6 | 76.6 | 78.7 | 88.2 | 79.8 | 80.8 |
| 16 | CMH 11-629 | 84.4 | 86.7 | 82.3 | 86.9 | 71.1 | 81.9 | 84.5 | 82.5 | 67.0 | 83.2 | 88.2 | 79.5 | 78.5 | 78.5 | 87.0 | 71.0 | 78.7 |
| 17 | BH 411305 | 85.5 | 80.6 | 80.9 | 85.0 | 73.4 | 80.8 | 80.0 | 80.9 | 66.4 | 84.9 | 90.0 | 80.4 | 77.1 | 77.5 | 88.6 | 81.5 | 81.2 |
| 18 | Bio 9720 | 85.6 | 86.9 | 78.8 | 84.6 | 74.1 | 83.3 | 74.0 | 81.0 | 68.1 | 80.7 | 86.9 | 78.5 | 79.2 | 84.0 | 85.5 | 77.0 | 81.4 |
| 19 | GWH-0712 | 84.2 | 83.4 | 81.6 | 84.8 | 71.7 | 84.8 | 79.3 | 81.4 | 65.3 | 80.3 | 85.0 | 76.8 | 76.1 | 76.4 | 86.4 | 79.0 | 79.5 |
| 20 | GWH-0902 | 85.2 | 83.0 | 83.0 | 82.5 | 71.2 | 82.2 | 76.0 | 80.4 | 68.3 | 84.4 | 80.2 | 77.6 | 81.6 | 82.2 | 85.0 | 79.3 | 82.0 |
| 21 | GYH-0653 | 84.1 | 82.1 | 78.4 | 86.0 | 70.4 | 81.3 | 79.0 | 80.2 | 66.1 | 80.5 | 85.1 | 77.3 | 74.2 | 73.6 | 83.8 | 74.3 | 76.4 |
| 22 | JH 31610 | 85.3 | 85.8 | 81.5 | 86.4 | 71.0 | 85.3 | 81.7 | 82.4 | 64.2 | 85.3 | 88.5 | 79.3 | 76.9 | 75.6 | 83.5 | 82.8 | 79.7 |
| 23 | JH 31613 | 80.9 | 81.5 | 77.4 | 84.7 | 71.8 | 81.2 | 73.8 | 78.7 | 66.6 | 84.2 | 81.2 | 77.3 | 72.0 | 78.3 | 82.7 | 73.3 | 76.6 |
| 24 | AH-1261 | 83.1 | 82.1 | 79.2 | 82.8 | 70.6 | 80.6 | 76.5 | 79.3 | 64.2 | 76.8 | 89.6 | 76.8 | 74.0 | 77.5 | 84.2 | 81.8 | 79.4 |
| 25 | AH-1219 | 87.3 | 83.3 | 82.1 | 84.5 | 73.1 | 84.3 | 73.0 | 81.1 | 63.6 | 82.2 | 83.8 | 76.5 | 77.3 | 80.0 | 86.7 | 81.8 | 81.4 |
| 26 | MEH-1-12-13 | 85.7 | 87.2 | 81.9 | 85.3 | 73.6 | 83.2 | 77.5 | 82.1 | 65.5 | 84.0 | 85.3 | 78.2 | 80.6 | 83.0 | 86.2 | 70.5 | 80.1 |
| 27 | HKH 341 | 81.8 | 83.6 | 82.1 | 85.8 | 71.1 | 84.5 | 84.5 | 81.9 | 66.1 | 84.5 | 84.4 | 78.3 | 73.6 | 70.0 | 84.4 | 79.3 | 76.8 |
| 28 | KNMH-4301 | 81.2 | 78.9 | 78.5 | 81.6 | 72.0 | 87.7 | 74.5 | 79.2 | 66.3 | 76.0 | 83.3 | 75.2 | 71.8 | 71.7 | 81.8 | 70.8 | 74.0 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 85.7 | 84.3 | 79.6 | 85.1 | 72.8 | 86.9 | 87.0 | 83.0 | 64.7 | 79.4 | 86.6 | 76.9 | 76.8 | 82.3 | 83.5 | 81.3 | 80.9 |
| 30 | Prakash (C) | 87.2 | 85.2 | 79.8 | 85.2 | 70.7 | 84.1 | 77.1 | 81.3 | 65.2 | 86.3 | 87.5 | 79.7 | 79.4 | 75.7 | 85.6 | 79.8 | 80.1 |
| | Loc. Mean | 84.5 | 84.0 | 79.7 | 84.1 | 72.8 | 83.4 | 78.8 | 81.0 | 65.6 | 82.7 | 86.0 | 78.1 | 77.1 | 78.9 | 85.1 | 77.4 | 79.6 |
| | C.D. (5%) | 1.71 | - | 1.59 | 10.37 | 1.32 | 3.05 | 5.69 | 3.13 | 0.77 | 2.15 | 2.27 | 4.31 | 1.98 | 5.07 | 4.27 | 1.41 | 4.17 |
| | C.V. (%) | 1.24 | - | 1.22 | 7.54 | 1.11 | 2.24 | 4.42 | 3.66 | 0.72 | 1.59 | 1.61 | 3.38 | 1.57 | 3.93 | 3.07 | 1.12 | 3.72 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 |

BR126

Table No. 3 (Cont)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | | | |
|--------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | | BANS | CHHI | UDAI | Mean |
| 1 | LG-3181 | 89.5 | 80.1 | 73.0 | 81.5 | 86.6 | 88.1 | 82.3 | 83.0 | 85.2 | 79.3 | 82.9 | 72.7 | 70.8 | 88.2 | 84.0 | 78.9 | 81.8 |
| 2 | DMH-63 | 88.9 | 82.1 | 75.7 | 82.5 | 83.7 | 87.2 | 81.0 | 83.7 | 83.5 | 80.2 | 82.8 | 72.8 | 65.3 | 90.0 | 83.0 | 77.8 | 81.4 |
| 3 | DH-264 | 86.6 | 82.0 | 67.4 | 80.6 | 86.7 | 87.6 | 80.6 | 80.4 | 88.1 | 70.4 | 81.0 | 73.4 | 65.7 | 89.0 | 84.0 | 78.0 | 80.5 |
| 4 | DH-265 | 84.2 | 76.5 | 52.9 | 79.6 | 80.6 | 88.2 | 82.9 | 81.4 | 82.5 | 69.4 | 77.8 | 72.2 | 69.4 | 86.5 | 83.0 | 77.8 | 78.5 |
| 5 | FH-3664 | 86.2 | 80.2 | 55.6 | 78.7 | 83.8 | 87.7 | 82.6 | 78.0 | 82.1 | 72.9 | 78.8 | 73.2 | 69.3 | 89.7 | 84.0 | 79.1 | 79.8 |
| 6 | FH-3669 | 82.3 | 78.4 | 84.0 | 77.7 | 79.8 | 86.1 | 79.0 | 76.6 | 77.6 | 73.7 | 79.5 | 75.7 | 69.4 | 90.4 | 80.6 | 79.0 | 79.0 |
| 7 | B-52 | 85.5 | 80.4 | 80.3 | 75.5 | 81.7 | 86.2 | 84.1 | 78.1 | 82.5 | 76.8 | 81.1 | 73.7 | 67.9 | 89.6 | 85.2 | 79.1 | 80.3 |
| 8 | EH-2211 | 87.8 | 83.5 | 55.2 | 83.1 | 85.3 | 88.2 | 82.6 | 77.0 | 81.1 | 65.8 | 79.0 | 72.9 | 70.4 | 89.2 | 84.9 | 79.3 | 80.0 |
| 9 | EH-2214 | 85.1 | 82.2 | 70.7 | 77.7 | 79.2 | 81.9 | 81.0 | 78.6 | 78.6 | 79.5 | 79.4 | 72.2 | 69.3 | 89.3 | 84.2 | 78.7 | 78.8 |
| 10 | EH-2233 | 82.9 | 79.9 | 65.5 | 75.8 | 75.9 | 83.0 | 79.7 | 76.5 | 78.7 | 77.7 | 77.5 | 72.5 | 72.5 | 90.1 | 84.7 | 79.9 | 78.5 |
| 11 | NMH-1258 | 76.0 | 82.1 | 73.6 | 82.2 | 86.4 | 89.0 | 83.2 | 86.4 | 88.8 | 76.5 | 82.4 | 71.2 | 69.6 | 89.8 | 83.0 | 78.4 | 82.1 |
| 12 | CMH 11-579 | 84.8 | 81.7 | 70.4 | 77.7 | 80.3 | 87.1 | 82.1 | 81.4 | 79.5 | 82.2 | 80.7 | 73.4 | 69.2 | 92.4 | 83.0 | 79.5 | 79.7 |
| 13 | CMH 11-595 | 83.6 | 78.4 | 70.1 | 77.6 | 75.2 | 85.0 | 79.0 | 76.9 | 80.8 | 80.7 | 78.7 | 75.5 | 69.5 | 82.9 | 84.4 | 78.1 | 78.9 |
| 14 | CMH 11-611 | 85.1 | 82.3 | 76.1 | 76.5 | 79.6 | 82.1 | 79.9 | 83.8 | 82.8 | 79.5 | 80.8 | 72.1 | 67.6 | 90.5 | 83.9 | 78.5 | 80.5 |
| 15 | CMH 11-626 | 85.6 | 81.1 | 75.2 | 79.1 | 80.8 | 85.1 | 82.3 | 81.2 | 81.7 | 77.6 | 81.0 | 73.3 | 70.0 | 79.7 | 84.6 | 76.9 | 79.7 |
| 16 | CMH 11-629 | 85.8 | 83.1 | 83.3 | 77.1 | 83.7 | 87.2 | 82.6 | 80.6 | 85.2 | 80.8 | 82.9 | 74.2 | 68.9 | 81.7 | 83.9 | 77.2 | 81.0 |
| 17 | BH 411305 | 86.6 | 79.9 | 72.5 | 79.3 | 80.1 | 87.7 | 81.7 | 77.1 | 83.5 | 61.1 | 78.9 | 72.4 | 68.9 | 90.4 | 83.1 | 78.7 | 79.9 |
| 18 | Bio 9720 | 87.1 | 81.2 | 73.9 | 80.5 | 82.6 | 87.8 | 82.5 | 84.9 | 87.6 | 79.8 | 82.8 | 74.0 | 67.4 | 80.5 | 83.0 | 76.2 | 80.8 |
| 19 | GWH-0712 | 81.0 | 80.3 | 71.7 | 82.6 | 82.9 | 86.0 | 82.9 | 77.3 | 78.4 | 71.0 | 79.4 | 72.6 | 71.3 | 80.5 | 83.0 | 76.8 | 79.3 |
| 20 | GWH-0902 | 81.4 | 79.7 | 53.0 | 78.8 | 84.3 | 86.9 | 82.6 | 83.3 | 80.8 | 61.6 | 77.2 | 73.1 | 70.6 | 80.4 | 84.1 | 77.1 | 78.7 |
| 21 | GYH-0653 | 83.4 | 80.5 | 46.1 | 73.9 | 80.8 | 86.0 | 80.4 | 76.8 | 77.4 | 70.3 | 75.5 | 74.7 | 70.3 | 88.7 | 81.0 | 78.7 | 77.5 |
| 22 | JH 31610 | 86.7 | 83.5 | 42.3 | 79.2 | 82.7 | 87.8 | 80.6 | 79.4 | 85.0 | 46.3 | 75.4 | 73.4 | 70.9 | 88.1 | 84.8 | 79.3 | 78.7 |
| 23 | JH 31613 | 80.6 | 74.5 | 64.8 | 77.6 | 75.3 | 83.0 | 82.4 | 84.1 | 83.3 | 43.0 | 74.9 | 71.8 | 67.1 | 91.5 | 84.0 | 78.6 | 76.9 |
| 24 | AH-1261 | 82.9 | 80.7 | 65.3 | 78.5 | 81.4 | 87.0 | 82.1 | 80.8 | 82.5 | 75.6 | 79.7 | 73.2 | 70.8 | 89.7 | 83.9 | 79.4 | 79.2 |
| 25 | AH-1219 | 89.6 | 83.5 | 79.6 | 82.9 | 87.9 | 87.0 | 79.8 | 81.5 | 85.2 | 75.4 | 83.2 | 73.5 | 69.4 | 80.0 | 82.9 | 76.5 | 80.8 |
| 26 | MEH-1-12-13 | 87.7 | 82.3 | 65.6 | 80.8 | 85.9 | 89.1 | 81.5 | 78.7 | 86.5 | 77.2 | 81.5 | 73.7 | 69.1 | 91.3 | 84.1 | 79.5 | 80.8 |
| 27 | HKH 341 | 85.9 | 76.5 | 51.3 | 79.9 | 83.7 | 87.8 | 83.0 | 75.7 | 85.1 | 73.5 | 78.2 | 73.3 | 69.8 | 90.1 | 84.7 | 79.5 | 79.1 |
| 28 | KNMH-4301 | 81.8 | 75.6 | 64.2 | 67.1 | 76.9 | 83.0 | 80.1 | 72.1 | 74.3 | 74.2 | 74.9 | 74.6 | 70.5 | 86.5 | 82.0 | 78.4 | 76.4 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 81.4 | 80.8 | 66.2 | 76.5 | 81.9 | 85.2 | 83.7 | 61.4 | 81.8 | 44.8 | 74.4 | 75.3 | 70.6 | 88.1 | 84.0 | 79.5 | 78.5 |
| 30 | Prakash (C) | 86.2 | 83.2 | 73.5 | 79.2 | 84.8 | 90.0 | 82.8 | 81.9 | 82.7 | 63.5 | 80.8 | 72.3 | 70.1 | 80.0 | 83.9 | 76.6 | 80.1 |
| | Loc. Mean | 84.7 | 80.5 | 67.3 | 78.6 | 82.0 | 86.5 | 81.7 | 79.3 | 82.4 | 71.3 | 79.4 | 73.3 | 69.4 | 87.2 | 83.6 | 78.4 | 79.6 |
| | C.D. (5%) | 5.08 | 0.89 | 3.47 | 2.12 | 3.62 | 0.49 | 1.19 | 11.23 | 3.59 | 11.73 | 4.51 | 3.57 | 2.19 | 1.48 | 0.74 | 3.42 | 2.04 |
| | C.V. (%) | 3.67 | 0.68 | 3.15 | 1.65 | 2.70 | 0.35 | 0.89 | 8.67 | 2.66 | 10.06 | 6.45 | 2.98 | 1.93 | 1.04 | 0.54 | 3.10 | 4.88 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.79 | 0.00 |

Table No. 3 (Continued)

| MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | | | | |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 23.2 | 19.8 | 20.7 | 22.1 | 22.1 | 26.7 | 22.5 | 25.0 | 22.7 | 20.5 | 20.8 | 26.2 | 22.5 | 21.0 | 25.6 | 22.2 | 23.1 | 22.9 |
| 2 | DMH-63 | 23.2 | 21.0 | 25.0 | 18.8 | 21.8 | 27.7 | 21.2 | 25.0 | 22.9 | 22.1 | 23.1 | 27.2 | 24.1 | 20.6 | 25.8 | 24.2 | 24.6 | 23.8 |
| 3 | DH-264 | 20.9 | 20.6 | 26.7 | 17.9 | 21.7 | 27.7 | 23.3 | 24.5 | 22.9 | 21.5 | 21.1 | 26.8 | 23.1 | 20.1 | 25.0 | 23.2 | 23.4 | 22.9 |
| 4 | DH-265 | 21.2 | 20.0 | 24.7 | 20.0 | 20.6 | 27.1 | 22.3 | 24.0 | 22.5 | 22.1 | 21.5 | 26.2 | 23.2 | 21.1 | 25.1 | 24.2 | 25.5 | 24.0 |
| 5 | FH-3664 | 23.2 | 19.7 | 24.7 | 19.3 | 22.1 | 29.2 | 22.7 | 24.0 | 23.1 | 24.3 | 21.3 | 28.8 | 24.8 | 21.1 | 25.3 | 25.2 | 25.1 | 24.2 |
| 6 | FH-3669 | 23.6 | 23.0 | 25.7 | 18.8 | 22.9 | 28.5 | 22.5 | 25.5 | 23.8 | 22.8 | 23.3 | 28.6 | 24.9 | 21.8 | 26.4 | 24.8 | 26.0 | 24.7 |
| 7 | B-52 | 25.2 | 20.2 | 22.0 | 18.7 | 22.1 | 29.5 | 24.0 | 24.0 | 23.2 | 23.1 | 21.5 | 28.3 | 24.3 | 20.7 | 27.2 | 25.3 | 27.1 | 25.1 |
| 8 | EH-2211 | 20.9 | 19.2 | 27.3 | 19.4 | 22.3 | 28.3 | 21.8 | 25.0 | 23.0 | 24.1 | 22.4 | 27.2 | 24.6 | 19.1 | 25.2 | 24.6 | 25.2 | 23.5 |
| 9 | EH-2214 | 25.5 | 20.6 | 25.0 | 18.6 | 18.8 | 27.5 | 23.1 | 25.0 | 23.0 | 22.2 | 24.6 | 29.1 | 25.3 | 22.0 | 29.5 | 22.3 | 30.0 | 25.9 |
| 10 | EH-2233 | 25.4 | 24.0 | 30.0 | 18.3 | 20.2 | 29.5 | 22.4 | 25.5 | 24.4 | 24.1 | 25.1 | 27.2 | 25.5 | 22.0 | 29.5 | 23.3 | 33.1 | 26.9 |
| 11 | NMH-1258 | 24.2 | 26.3 | 27.3 | 16.4 | 22.0 | 28.9 | 21.4 | 24.0 | 23.8 | 22.8 | 23.7 | 28.4 | 25.0 | 21.9 | 29.3 | 24.5 | 34.3 | 27.5 |
| 12 | CMH 11-579 | 23.6 | 21.0 | 24.3 | 17.0 | 21.8 | 27.2 | 22.1 | 25.5 | 22.8 | 22.2 | 26.8 | 28.8 | 25.9 | 21.6 | 28.9 | 24.2 | 31.6 | 26.6 |
| 13 | CMH 11-595 | 23.9 | 21.3 | 22.7 | 17.4 | 20.0 | 29.7 | 22.3 | 24.0 | 22.7 | 23.5 | 27.1 | 28.8 | 26.5 | 22.1 | 30.6 | 22.4 | 28.8 | 25.9 |
| 14 | CMH 11-611 | 26.4 | 20.7 | 23.0 | 19.0 | 22.4 | 26.1 | 21.3 | 25.0 | 23.0 | 25.5 | 26.6 | 26.8 | 26.3 | 21.1 | 29.5 | 22.3 | 34.9 | 26.9 |
| 15 | CMH 11-626 | 23.7 | 24.1 | 24.3 | 20.6 | 21.0 | 27.4 | 22.4 | 25.0 | 23.6 | 24.1 | 26.0 | 27.6 | 25.9 | 22.1 | 29.5 | 23.8 | 34.3 | 27.4 |
| 16 | CMH 11-629 | 21.4 | 22.0 | 24.0 | 21.0 | 20.6 | 27.2 | 23.6 | 23.5 | 22.9 | 22.1 | 26.3 | 27.9 | 25.4 | 21.5 | 28.3 | 23.4 | 28.2 | 25.3 |
| 17 | BH 411305 | 23.9 | 19.7 | 24.7 | 17.6 | 22.3 | 27.2 | 21.2 | 23.0 | 22.4 | 23.3 | 23.0 | 28.0 | 24.7 | 21.3 | 26.5 | 23.8 | 26.3 | 24.5 |
| 18 | Bio 9720 | 23.9 | 19.6 | 22.3 | 17.6 | 21.1 | 26.9 | 21.7 | 25.0 | 22.3 | 24.1 | 22.0 | 27.9 | 24.6 | 20.6 | 29.4 | 24.3 | 28.9 | 25.8 |
| 19 | GWH-0712 | 21.4 | 20.5 | 21.7 | 19.4 | 22.8 | 28.4 | 21.6 | 24.0 | 22.5 | 23.1 | 20.4 | 25.8 | 23.1 | 21.9 | 25.5 | 25.2 | 28.1 | 25.2 |
| 20 | GWH-0902 | 22.2 | 17.7 | 26.7 | 18.3 | 21.4 | 27.8 | 21.7 | 23.5 | 22.4 | 22.1 | 20.4 | 27.2 | 23.2 | 21.4 | 24.5 | 25.4 | 26.2 | 24.3 |
| 21 | GYH-0653 | 24.2 | 20.8 | 23.0 | 18.9 | 22.9 | 26.4 | 21.2 | 25.0 | 22.8 | 22.0 | 22.0 | 28.8 | 24.2 | 20.7 | 29.6 | 24.3 | 28.3 | 25.7 |
| 22 | JH 31610 | 22.9 | 20.1 | 23.7 | 19.0 | 21.8 | 27.1 | 24.2 | 23.5 | 22.8 | 21.4 | 22.7 | 28.7 | 24.2 | 21.0 | 28.8 | 22.6 | 27.3 | 24.9 |
| 23 | JH 31613 | 24.4 | 20.6 | 24.0 | 18.7 | 23.0 | 26.5 | 24.3 | 24.0 | 23.2 | 25.2 | 21.1 | 29.2 | 25.2 | 21.5 | 27.5 | 25.9 | 32.5 | 26.8 |
| 24 | AH-1261 | 23.6 | 20.7 | 27.0 | 18.8 | 21.8 | 26.9 | 20.6 | 24.5 | 23.0 | 21.5 | 21.2 | 27.9 | 23.5 | 21.2 | 29.6 | 23.4 | 31.0 | 26.3 |
| 25 | AH-1219 | 21.7 | 19.2 | 24.0 | 20.3 | 22.5 | 26.4 | 21.4 | 24.0 | 22.4 | 21.2 | 19.8 | 24.1 | 21.7 | 20.1 | 26.4 | 23.1 | 26.6 | 24.1 |
| 26 | MEH-1-12-13 | 23.5 | 20.9 | 27.7 | 20.5 | 21.4 | 29.7 | 24.6 | 24.5 | 24.1 | 23.0 | 24.0 | 27.8 | 24.9 | 21.0 | 28.4 | 25.5 | 25.2 | 25.0 |
| 27 | HKH 341 | 24.0 | 20.8 | 24.7 | 23.8 | 20.7 | 26.3 | 21.8 | 24.5 | 23.3 | 24.3 | 23.0 | 27.0 | 24.7 | 21.7 | 26.6 | 23.0 | 29.1 | 25.1 |
| 28 | KNMH-4301 | 25.5 | 21.5 | 22.3 | 18.5 | 23.1 | 29.4 | 23.3 | 26.0 | 23.7 | 24.9 | 25.8 | 28.6 | 26.4 | 21.9 | 28.5 | 23.4 | 37.6 | 27.8 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 23.3 | 19.6 | 23.3 | 18.0 | 21.4 | 26.1 | 21.0 | 24.5 | 22.2 | 21.3 | 20.8 | 27.9 | 23.3 | 21.3 | 28.1 | 26.1 | 24.2 | 24.9 |
| 30 | Prakash (C) | 22.6 | 19.7 | 24.0 | 16.4 | 23.4 | 26.4 | 21.9 | 22.5 | 22.1 | 23.0 | 21.3 | 27.4 | 23.9 | 21.3 | 25.7 | 23.3 | 29.4 | 24.9 |
| Loc. Mean | | 23.4 | 20.8 | 24.5 | 18.9 | 21.7 | 27.6 | 22.3 | 24.4 | 23.0 | 22.9 | 22.9 | 27.6 | 24.5 | 21.2 | 27.5 | 23.9 | 28.5 | 25.3 |
| C.D. (5%) | | 1.55 | 1.03 | 3.94 | 0.00 | 2.95 | 1.64 | 3.19 | 1.33 | 1.36 | 0.95 | 1.04 | 1.62 | 2.16 | 1.36 | 1.98 | 0.89 | 3.21 | 2.80 |
| C.V. (%) | | 4.05 | 3.04 | 9.82 | 0.00 | 8.31 | 3.63 | 8.74 | 3.33 | 5.99 | 2.55 | 2.78 | 3.59 | 5.39 | 3.92 | 4.40 | 2.28 | 6.88 | 7.88 |
| F (Prob) | | 0.00 | 0.00 | 0.01 | 0.00 | 0.50 | 0.00 | 0.60 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 22.4%

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Table No. 3 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | | |
|------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | BANS | | CHHI | UDAI | Mean |
| 1 | LG-3181 | 22.1 | 16.8 | 19.0 | 25.1 | 9.4 | 10.0 | 13.0 | 24.9 | 11.7 | 10.5 | 17.0 | 16.2 | 17.3 | 24.1 | 19.2 | 20.4 |
| 2 | DMH-63 | 21.5 | 18.6 | 19.1 | 22.0 | 14.7 | 11.7 | 13.8 | 25.3 | 12.5 | 10.7 | 17.2 | 16.2 | 19.8 | 22.1 | 19.4 | 20.9 |
| 3 | DH-264 | 20.1 | 15.2 | 23.2 | 24.2 | 12.1 | 9.9 | 12.4 | 23.8 | 11.2 | 10.8 | 16.7 | 15.6 | 15.1 | 23.1 | 17.9 | 20.3 |
| 4 | DH-265 | 20.8 | 16.3 | 18.6 | 23.4 | 10.4 | 10.6 | 12.5 | 25.9 | 11.6 | 10.1 | 16.6 | 16.3 | 16.9 | 21.4 | 18.2 | 20.3 |
| 5 | FH-3664 | 19.1 | 16.3 | 21.5 | 23.5 | 8.1 | 9.5 | 14.1 | 26.4 | 11.6 | 9.7 | 16.8 | 15.6 | 19.3 | 22.9 | 19.2 | 20.9 |
| 6 | FH-3669 | 23.4 | 16.7 | 23.1 | 23.0 | 7.0 | 10.7 | 13.1 | 26.0 | 11.1 | 10.9 | 17.5 | 16.4 | 20.4 | 20.2 | 19.0 | 21.4 |
| 7 | B-52 | 23.0 | 17.4 | 21.4 | 28.4 | 11.2 | 11.3 | 13.7 | 27.5 | 11.3 | 10.7 | 18.3 | 16.1 | 22.1 | 24.2 | 20.8 | 21.7 |
| 8 | EH-2211 | 20.2 | 15.7 | 24.4 | 24.9 | 9.8 | 9.7 | 12.9 | 24.4 | 11.7 | 10.8 | 17.2 | 16.1 | 15.3 | 21.0 | 17.5 | 20.7 |
| 9 | EH-2214 | 24.3 | 17.7 | 22.4 | 28.8 | 12.9 | 11.3 | 15.5 | 28.5 | 11.8 | 10.5 | 19.0 | 16.0 | 21.5 | 21.0 | 19.5 | 21.9 |
| 10 | EH-2233 | 26.0 | 18.9 | 21.4 | 30.8 | 13.2 | 12.2 | 15.6 | 28.9 | 11.4 | 10.2 | 19.5 | 16.1 | 22.4 | 22.3 | 20.2 | 22.8 |
| 11 | NMH-1258 | 20.9 | 17.4 | 22.5 | 29.2 | 8.8 | 9.7 | 13.1 | 26.5 | 11.5 | 11.1 | 18.0 | 15.8 | 20.7 | 24.0 | 20.1 | 22.1 |
| 12 | CMH 11-579 | 25.0 | 18.7 | 23.2 | 22.1 | 16.9 | 11.2 | 16.8 | 29.7 | 12.4 | 10.6 | 18.8 | 15.9 | 22.1 | 24.1 | 20.7 | 22.1 |
| 13 | CMH 11-595 | 27.0 | 20.1 | 21.5 | 29.4 | 14.4 | 12.4 | 12.8 | 28.7 | 12.1 | 11.1 | 19.4 | 16.3 | 21.2 | 23.9 | 20.5 | 22.2 |
| 14 | CMH 11-611 | 25.3 | 22.0 | 22.5 | 28.9 | 15.2 | 11.7 | 13.3 | 28.9 | 12.0 | 10.4 | 19.4 | 15.9 | 25.6 | 23.9 | 21.8 | 22.6 |
| 15 | CMH 11-626 | 26.3 | 20.0 | 23.1 | 22.6 | 15.2 | 12.2 | 15.8 | 25.8 | 11.6 | 10.5 | 18.6 | 16.2 | 23.4 | 24.0 | 21.2 | 22.5 |
| 16 | CMH 11-629 | 27.1 | 20.4 | 23.5 | 30.6 | 9.8 | 10.7 | 14.9 | 27.8 | 13.5 | 10.8 | 19.9 | 16.0 | 25.3 | 23.9 | 21.7 | 22.4 |
| 17 | BH 411305 | 22.2 | 19.4 | 24.4 | 28.3 | 13.1 | 10.8 | 15.0 | 27.6 | 12.5 | 10.1 | 18.9 | 16.0 | 21.4 | 24.3 | 20.5 | 21.6 |
| 18 | Bio 9720 | 22.6 | 18.9 | 21.2 | 26.7 | 13.3 | 10.1 | 13.2 | 27.8 | 12.3 | 10.7 | 18.2 | 15.9 | 17.7 | 21.9 | 18.5 | 21.3 |
| 19 | GWH-0712 | 19.8 | 15.7 | 19.6 | 24.3 | 12.8 | 10.0 | 12.3 | 22.9 | 11.9 | 10.1 | 16.3 | 16.3 | 14.7 | 23.0 | 18.0 | 20.4 |
| 20 | GWH-0902 | 18.0 | 15.3 | 20.5 | 20.6 | 14.2 | 9.8 | 12.8 | 24.1 | 11.6 | 10.3 | 15.9 | 15.8 | 13.9 | 18.4 | 16.0 | 19.9 |
| 21 | GYH-0653 | 20.9 | 18.5 | 21.4 | 26.0 | 10.4 | 10.9 | 13.6 | 26.7 | 12.5 | 10.6 | 17.9 | 17.1 | 17.9 | 23.2 | 19.4 | 21.4 |
| 22 | JH 31610 | 21.1 | 18.2 | 23.5 | 26.3 | 13.4 | 12.5 | 16.3 | 27.3 | 12.0 | 10.8 | 18.6 | 16.3 | 21.2 | 23.3 | 20.3 | 21.6 |
| 23 | JH 31613 | 22.0 | 19.0 | 23.8 | 27.2 | 9.7 | 9.9 | 12.7 | 27.4 | 12.2 | 10.6 | 18.3 | 15.8 | 19.5 | 22.6 | 19.3 | 21.9 |
| 24 | AH-1261 | 21.4 | 17.3 | 22.5 | 22.4 | 7.6 | 11.0 | 14.5 | 26.7 | 11.5 | 10.3 | 17.5 | 15.6 | 17.7 | 22.2 | 18.5 | 21.2 |
| 25 | AH-1219 | 18.2 | 16.9 | 22.8 | 23.7 | 8.9 | 9.5 | 13.5 | 23.1 | 12.2 | 10.6 | 16.7 | 15.7 | 15.7 | 22.4 | 17.9 | 20.2 |
| 26 | MEH-11-12-13 | 20.9 | 17.3 | 24.1 | 22.5 | 10.8 | 10.8 | 15.1 | 26.5 | 11.8 | 10.1 | 17.7 | 16.0 | 21.0 | 24.0 | 20.3 | 21.8 |
| 27 | HKH 341 | 22.1 | 18.8 | 22.5 | 25.8 | 12.6 | 10.9 | 14.2 | 24.6 | 11.7 | 10.0 | 17.8 | 16.2 | 22.0 | 23.9 | 20.7 | 21.6 |
| 28 | KNMH-4301 | 22.9 | 20.8 | 20.5 | 25.2 | 12.6 | 10.1 | 15.3 | 27.6 | 12.5 | 10.6 | 18.4 | 16.1 | 25.1 | 24.2 | 21.8 | 22.6 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 19.6 | 16.4 | 19.8 | 27.4 | 7.9 | 9.8 | 12.5 | 25.8 | 12.1 | 10.1 | 17.0 | 15.9 | 17.3 | 22.8 | 18.6 | 20.6 |
| 30 | Prakash (C) | 18.7 | 16.1 | 20.1 | 22.6 | 9.9 | 9.5 | 12.8 | 25.2 | 12.1 | 10.1 | 16.3 | 16.2 | 17.1 | 21.0 | 18.1 | 20.3 |
| Loc. Mean | | 22.1 | 17.9 | 21.9 | 25.5 | 11.5 | 10.7 | 13.9 | 26.4 | 11.9 | 10.5 | 17.8 | 16.0 | 19.7 | 22.8 | 19.5 | 21.4 |
| C.D. (5%) | | 1.54 | 1.02 | 2.14 | 1.42 | 4.22 | 1.07 | 0.96 | 2.09 | 0.58 | 0.51 | 1.32 | 0.44 | 1.11 | 0.78 | 2.95 | 0.83 |
| C.V. (%) | | 4.26 | 3.48 | 5.96 | 3.40 | 22.36 | 6.16 | 4.24 | 4.84 | 2.96 | 2.99 | 7.96 | 1.69 | 3.44 | 2.09 | 9.26 | 7.23 |
| 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 | 0.03 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 22.4%

Table No. 3 (Continued)

| S.No. | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | | | |
|--------|------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 1 | | | | | | | | | | | | ZN 2 | | | ZN 3 | | |
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 62.0 | 79.6 | 30.4 | 79.2 | 72.2 | 70.8 | 45.1 | 75.7 | 64.4 | 58.3 | 71.4 | 60.0 | 63.3 | 65.6 | 88.3 | 64.3 | 63.9 | 70.5 |
| 2 | DMH-63 | 61.1 | 74.1 | 45.9 | 83.3 | 72.2 | 70.8 | 47.9 | 79.2 | 66.8 | 61.7 | 64.7 | 59.4 | 61.9 | 61.5 | 84.2 | 60.1 | 66.0 | 67.9 |
| 3 | DH-264 | 57.4 | 75.9 | 37.0 | 70.8 | 73.1 | 72.2 | 46.5 | 75.7 | 63.6 | 60.0 | 69.6 | 56.7 | 62.1 | 66.7 | 85.0 | 66.1 | 66.7 | 71.1 |
| 4 | DH-265 | 58.3 | 75.0 | 44.4 | 70.8 | 63.0 | 70.8 | 47.2 | 79.2 | 63.6 | 60.0 | 70.2 | 58.9 | 63.0 | 61.5 | 89.2 | 65.5 | 66.7 | 70.7 |
| 5 | FH-3664 | 65.7 | 78.7 | 49.6 | 83.3 | 56.5 | 70.8 | 43.8 | 76.4 | 65.6 | 58.3 | 72.0 | 63.3 | 64.6 | 64.6 | 95.0 | 61.9 | 66.7 | 72.0 |
| 6 | FH-3669 | 59.3 | 72.2 | 45.9 | 68.8 | 64.8 | 73.6 | 47.9 | 76.4 | 63.6 | 61.7 | 69.0 | 56.7 | 62.4 | 64.6 | 73.3 | 63.1 | 65.3 | 66.6 |
| 7 | B-52 | 60.2 | 72.2 | 45.2 | 75.0 | 71.3 | 75.0 | 45.8 | 79.2 | 65.5 | 63.3 | 65.3 | 52.2 | 60.3 | 64.6 | 87.5 | 67.3 | 64.6 | 71.0 |
| 8 | EH-2211 | 54.6 | 63.0 | 30.4 | 68.8 | 62.0 | 73.6 | 45.8 | 72.9 | 58.9 | 63.3 | 65.9 | 48.9 | 59.4 | 63.5 | 80.8 | 61.3 | 64.6 | 67.6 |
| 9 | EH-2214 | 64.8 | 61.1 | 42.2 | 70.8 | 51.9 | 73.6 | 46.5 | 71.5 | 60.3 | 60.0 | 37.9 | 50.6 | 49.5 | 61.5 | 78.3 | 60.7 | 66.0 | 66.6 |
| 10 | EH-2233 | 56.5 | 74.1 | 37.8 | 75.0 | 58.3 | 72.2 | 41.7 | 78.5 | 61.8 | 56.7 | 41.5 | 51.7 | 49.9 | 60.4 | 83.3 | 61.3 | 63.9 | 67.2 |
| 11 | NMH-1258 | 63.0 | 79.6 | 51.1 | 79.2 | 68.5 | 70.8 | 47.9 | 75.0 | 66.9 | 61.7 | 71.4 | 62.2 | 65.1 | 66.7 | 85.8 | 58.9 | 65.3 | 69.2 |
| 12 | CMH 11-579 | 63.9 | 77.8 | 42.2 | 77.1 | 65.7 | 73.6 | 42.4 | 75.0 | 64.7 | 56.7 | 72.6 | 55.6 | 61.6 | 63.5 | 92.5 | 67.3 | 65.3 | 72.1 |
| 13 | CMH 11-595 | 63.0 | 82.4 | 51.1 | 75.0 | 54.6 | 70.8 | 45.1 | 74.3 | 64.5 | 63.3 | 68.4 | 59.4 | 63.7 | 62.5 | 80.8 | 63.1 | 66.0 | 68.1 |
| 14 | CMH 11-611 | 66.7 | 76.9 | 49.6 | 66.7 | 50.9 | 70.8 | 46.5 | 76.4 | 63.1 | 65.0 | 59.2 | 53.9 | 59.4 | 64.6 | 84.2 | 64.9 | 65.3 | 69.7 |
| 15 | CMH 11-626 | 65.7 | 82.4 | 42.2 | 68.8 | 67.6 | 70.8 | 47.2 | 77.1 | 65.2 | 60.0 | 70.2 | 62.2 | 64.1 | 65.6 | 86.7 | 69.0 | 64.6 | 71.5 |
| 16 | CMH 11-629 | 63.0 | 77.8 | 48.9 | 70.8 | 76.9 | 72.2 | 43.8 | 79.9 | 66.6 | 61.7 | 65.9 | 57.8 | 61.8 | 65.6 | 91.7 | 65.5 | 66.0 | 72.2 |
| 17 | BH 411305 | 63.0 | 69.4 | 34.8 | 68.8 | 70.4 | 72.2 | 42.4 | 75.7 | 62.1 | 65.0 | 62.9 | 51.7 | 59.8 | 63.5 | 80.8 | 61.3 | 65.3 | 67.7 |
| 18 | Bio 9720 | 61.1 | 79.6 | 48.1 | 72.9 | 57.4 | 72.2 | 42.4 | 75.0 | 63.6 | 60.0 | 68.4 | 57.8 | 62.1 | 64.6 | 84.2 | 64.3 | 66.7 | 69.9 |
| 19 | GWH-0712 | 63.0 | 75.9 | 40.0 | 81.3 | 61.1 | 72.2 | 50.0 | 77.1 | 65.1 | 60.0 | 61.1 | 47.2 | 56.1 | 61.5 | 85.0 | 63.1 | 66.7 | 69.1 |
| 20 | GWH-0902 | 56.5 | 72.2 | 34.1 | 72.9 | 53.7 | 69.4 | 46.5 | 77.1 | 60.3 | 61.7 | 67.8 | 56.7 | 62.0 | 59.4 | 87.5 | 62.5 | 65.3 | 68.7 |
| 21 | GYH-0653 | 61.1 | 66.7 | 48.1 | 68.8 | 71.3 | 72.2 | 43.1 | 77.1 | 63.5 | 60.0 | 60.4 | 43.9 | 54.8 | 64.6 | 78.3 | 56.5 | 65.3 | 66.2 |
| 22 | JH 31610 | 59.3 | 81.5 | 29.6 | 66.7 | 73.1 | 75.0 | 49.3 | 72.9 | 63.4 | 63.3 | 67.2 | 60.0 | 63.5 | 63.5 | 90.8 | 61.3 | 63.9 | 69.9 |
| 23 | JH 31613 | 66.7 | 77.8 | 40.0 | 68.8 | 63.9 | 75.0 | 48.6 | 72.9 | 64.2 | 63.3 | 75.1 | 58.3 | 65.6 | 65.6 | 97.5 | 67.9 | 68.1 | 74.8 |
| 24 | AH-1261 | 63.9 | 74.1 | 42.2 | 75.0 | 66.7 | 69.4 | 45.8 | 73.6 | 63.8 | 58.3 | 59.2 | 59.4 | 59.0 | 60.4 | 82.5 | 63.7 | 65.3 | 68.0 |
| 25 | AH-1219 | 62.0 | 78.7 | 41.5 | 75.0 | 56.5 | 69.4 | 45.8 | 72.9 | 62.7 | 61.7 | 69.6 | 58.9 | 63.4 | 63.5 | 87.5 | 64.9 | 66.7 | 70.6 |
| 26 | MEH-1-12-13 | 62.0 | 73.1 | 38.5 | 75.0 | 77.8 | 72.2 | 44.4 | 77.1 | 65.0 | 58.3 | 70.8 | 57.2 | 62.1 | 64.6 | 88.3 | 65.5 | 64.6 | 70.7 |
| 27 | HKH 341 | 63.9 | 72.2 | 45.9 | 70.8 | 67.6 | 69.4 | 49.3 | 77.8 | 64.6 | 63.3 | 66.5 | 57.2 | 62.4 | 64.6 | 94.2 | 62.5 | 66.0 | 71.8 |
| 28 | KNMH-4301 | 64.8 | 72.2 | 51.9 | 70.8 | 54.6 | 72.2 | 47.9 | 78.5 | 64.1 | 61.7 | 70.8 | 58.3 | 63.6 | 62.5 | 89.2 | 66.1 | 66.7 | 71.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 63.0 | 79.6 | 31.9 | 68.8 | 73.1 | 70.8 | 43.1 | 75.7 | 63.2 | 60.0 | 72.6 | 61.7 | 64.8 | 64.6 | 90.0 | 64.9 | 63.2 | 70.7 |
| 30 | Prakash (C) | 63.9 | 74.1 | 30.4 | 70.8 | 76.9 | 69.4 | 48.6 | 77.8 | 64.0 | 61.7 | 68.4 | 55.0 | 61.7 | 63.5 | 88.3 | 57.1 | 66.7 | 68.9 |
| | Loc. Mean | 62.0 | 75.0 | 41.7 | 73.0 | 65.1 | 71.8 | 45.9 | 76.1 | 63.8 | 61.0 | 65.9 | 56.4 | 61.1 | 63.6 | 86.4 | 63.4 | 65.6 | 69.7 |
| | C.D. (5%) | 6.70 | 8.35 | 11.96 | 7.93 | 7.12 | 7.54 | 5.54 | 4.84 | 4.67 | 0.00 | 6.94 | 7.79 | 7.95 | 3.39 | 12.71 | 5.99 | 3.84 | 4.13 |
| | C.V. (%) | 6.62 | 6.81 | 17.55 | 5.31 | 6.69 | 6.43 | 7.37 | 3.89 | 7.42 | 0.00 | 6.45 | 8.45 | 7.97 | 3.26 | 9.01 | 5.78 | 3.58 | 4.21 |
| | F (Prob) | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.12 | 0.05 | 0.22 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.13 | 0.01 | 0.89 | 0.01 |

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Table No. 3 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | CHHI | UDAI | Mean | Mean |
| 1 | LG-3181 | 60.6 | 65.3 | 51.4 | 65.0 | 48.3 | 66.7 | 59.5 | 65.6 | 43.1 | 52.1 | 57.7 | 62.8 | 44.4 | 52.8 | 63.9 | 56.0 | 61.7 |
| 2 | DMH-63 | 57.2 | 66.0 | 55.6 | 63.9 | 62.8 | 64.4 | 56.5 | 67.2 | 48.6 | 52.1 | 59.4 | 65.0 | 38.9 | 53.9 | 59.0 | 54.2 | 62.2 |
| 3 | DH-264 | 60.0 | 66.0 | 54.9 | 62.2 | 58.3 | 65.6 | 62.5 | 65.0 | 43.1 | 38.2 | 57.6 | 47.2 | 41.1 | 56.1 | 63.9 | 52.1 | 60.8 |
| 4 | DH-265 | 58.3 | 66.7 | 42.4 | 58.9 | 61.7 | 66.7 | 58.3 | 65.6 | 47.9 | 43.1 | 56.9 | 55.6 | 43.3 | 59.4 | 64.6 | 55.7 | 61.1 |
| 5 | FH-3664 | 64.4 | 66.7 | 52.8 | 62.8 | 52.8 | 65.6 | 62.5 | 66.1 | 42.4 | 58.3 | 59.4 | 62.2 | 47.2 | 50.0 | 62.5 | 55.5 | 62.9 |
| 6 | FH-3669 | 60.6 | 65.3 | 55.6 | 59.4 | 53.3 | 66.7 | 62.5 | 66.1 | 47.9 | 54.2 | 59.2 | 65.6 | 42.2 | 57.2 | 63.9 | 57.2 | 61.5 |
| 7 | B-52 | 55.0 | 66.7 | 50.0 | 58.9 | 45.6 | 62.2 | 62.5 | 65.0 | 38.9 | 41.7 | 54.6 | 51.7 | 49.4 | 57.2 | 63.9 | 55.6 | 60.6 |
| 8 | EH-2211 | 50.0 | 65.3 | 47.9 | 62.8 | 47.8 | 66.7 | 63.7 | 57.8 | 40.3 | 31.3 | 53.3 | 35.6 | 45.6 | 49.4 | 63.2 | 48.4 | 56.8 |
| 9 | EH-2214 | 41.7 | 66.0 | 43.8 | 58.9 | 46.7 | 60.0 | 61.3 | 60.0 | 32.6 | 50.0 | 52.1 | 51.7 | 38.9 | 41.1 | 63.9 | 48.9 | 55.6 |
| 10 | EH-2233 | 35.6 | 65.3 | 50.7 | 56.1 | 45.6 | 58.9 | 57.1 | 62.2 | 30.6 | 52.1 | 51.4 | 57.8 | 44.4 | 52.8 | 61.8 | 54.2 | 56.7 |
| 11 | NMH-1258 | 58.3 | 66.7 | 47.9 | 62.2 | 48.3 | 63.9 | 66.1 | 67.2 | 36.8 | 49.3 | 56.7 | 61.7 | 38.3 | 57.2 | 63.9 | 55.3 | 61.9 |
| 12 | CMH 11-579 | 55.0 | 66.7 | 54.2 | 58.9 | 58.9 | 65.6 | 62.5 | 62.8 | 46.5 | 55.6 | 58.7 | 65.0 | 32.8 | 57.8 | 61.8 | 54.3 | 61.9 |
| 13 | CMH 11-595 | 48.9 | 66.7 | 46.5 | 63.9 | 51.1 | 64.4 | 65.5 | 66.1 | 45.1 | 52.8 | 57.1 | 65.6 | 43.3 | 53.9 | 63.2 | 56.5 | 61.3 |
| 14 | CMH 11-611 | 53.9 | 66.7 | 54.2 | 60.6 | 44.4 | 62.8 | 63.1 | 62.2 | 37.5 | 38.9 | 54.4 | 62.2 | 38.9 | 47.2 | 59.0 | 51.8 | 59.1 |
| 15 | CMH 11-626 | 63.3 | 66.7 | 47.2 | 63.3 | 55.0 | 66.7 | 63.7 | 68.9 | 51.4 | 51.4 | 59.8 | 61.1 | 40.0 | 52.2 | 61.1 | 53.6 | 62.5 |
| 16 | CMH 11-629 | 56.7 | 66.7 | 57.6 | 64.4 | 52.2 | 66.7 | 63.7 | 67.8 | 56.3 | 51.4 | 60.3 | 70.6 | 40.0 | 51.7 | 60.4 | 55.7 | 63.2 |
| 17 | BH 411305 | 60.0 | 68.1 | 54.2 | 61.1 | 50.6 | 63.3 | 62.5 | 61.7 | 43.1 | 39.6 | 56.4 | 50.0 | 44.4 | 58.9 | 61.8 | 53.8 | 59.5 |
| 18 | Bio 9720 | 60.6 | 66.7 | 54.2 | 60.0 | 50.6 | 66.7 | 61.3 | 63.9 | 51.4 | 47.2 | 58.2 | 62.8 | 41.7 | 52.8 | 61.8 | 54.8 | 61.2 |
| 19 | GWH-0712 | 53.9 | 65.3 | 55.6 | 63.9 | 48.3 | 66.1 | 53.6 | 66.1 | 38.9 | 36.8 | 54.8 | 56.7 | 36.1 | 51.7 | 61.1 | 51.4 | 59.3 |
| 20 | GWH-0902 | 50.6 | 66.0 | 47.2 | 61.1 | 38.9 | 63.9 | 60.1 | 60.6 | 44.4 | 34.0 | 52.7 | 46.7 | 47.8 | 57.2 | 61.8 | 53.4 | 58.1 |
| 21 | GYH-0653 | 54.4 | 66.7 | 54.2 | 66.7 | 43.3 | 64.4 | 65.5 | 66.1 | 41.7 | 37.5 | 56.0 | 55.0 | 37.8 | 56.1 | 63.2 | 53.0 | 59.0 |
| 22 | JH 31610 | 59.4 | 65.3 | 54.2 | 60.6 | 55.0 | 66.7 | 62.5 | 58.3 | 50.7 | 35.4 | 56.8 | 64.4 | 47.2 | 55.0 | 62.5 | 57.3 | 61.2 |
| 23 | JH 31613 | 51.1 | 65.3 | 45.1 | 63.3 | 41.7 | 66.7 | 58.9 | 61.1 | 47.2 | 31.3 | 53.2 | 60.6 | 42.2 | 58.9 | 63.2 | 56.2 | 60.9 |
| 24 | AH-1261 | 58.3 | 66.7 | 52.8 | 62.2 | 42.8 | 63.3 | 65.5 | 67.8 | 38.9 | 54.9 | 57.3 | 47.8 | 40.6 | 58.3 | 63.2 | 52.5 | 60.1 |
| 25 | AH-1219 | 61.1 | 66.0 | 43.8 | 63.9 | 49.4 | 66.7 | 72.6 | 63.9 | 52.1 | 45.8 | 58.5 | 39.4 | 43.9 | 62.2 | 63.9 | 52.4 | 61.0 |
| 26 | MEH-1-12-13 | 61.1 | 66.7 | 50.0 | 61.7 | 55.6 | 66.7 | 66.1 | 68.9 | 47.2 | 56.3 | 60.0 | 64.4 | 45.0 | 51.1 | 63.2 | 55.9 | 62.5 |
| 27 | HKH 341 | 61.1 | 66.0 | 44.4 | 61.1 | 60.0 | 66.7 | 58.3 | 58.3 | 49.3 | 46.5 | 57.2 | 56.7 | 42.8 | 37.2 | 63.9 | 50.1 | 60.8 |
| 28 | KNMH-4301 | 62.8 | 66.7 | 54.2 | 62.8 | 55.6 | 66.7 | 63.7 | 70.0 | 51.4 | 45.1 | 59.9 | 57.2 | 40.0 | 56.1 | 59.7 | 53.3 | 62.1 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 52.2 | 66.7 | 47.9 | 64.4 | 46.1 | 64.4 | 64.9 | 66.1 | 49.3 | 22.9 | 54.5 | 60.6 | 39.4 | 50.6 | 61.1 | 52.9 | 60.0 |
| 30 | Prakash (C) | 51.1 | 66.0 | 39.6 | 62.2 | 51.1 | 66.7 | 62.5 | 62.2 | 40.3 | 30.6 | 53.2 | 55.6 | 43.9 | 48.3 | 63.2 | 52.7 | 59.2 |
| Loc. Mean | | 55.9 | 66.2 | 50.3 | 61.9 | 50.7 | 65.1 | 62.3 | 64.4 | 44.5 | 44.5 | 56.6 | 57.3 | 42.1 | 53.5 | 62.5 | 53.8 | 60.5 |
| C.D. (5%) | | 9.14 | 1.49 | 13.05 | 7.41 | 5.74 | 4.81 | 9.90 | 6.40 | 13.42 | 11.60 | 4.04 | 8.29 | 11.54 | 10.51 | 2.87 | 7.71 | 2.36 |
| C.V. (%) | | 10.00 | 1.37 | 15.87 | 7.33 | 6.92 | 4.52 | 9.72 | 6.09 | 18.46 | 15.94 | 8.10 | 8.85 | 16.79 | 12.03 | 2.82 | 10.19 | 7.56 |
| F (Prob) | | 0.00 | 0.06 | 0.42 | 0.78 | 0.00 | 0.10 | 0.42 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.71 | 0.01 | 0.00 | 0.88 | 0.00 |

Table No. 3 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | | |
|--------|------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | ZN 1 | | | ZN 2 | | | | ZN 3 | | |
| | | | | | | | | | | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 52.7 | 52.3 | 53.0 | 48.0 | 48.3 | 50.0 | 53.0 | 51.0 | 51.0 | 47.0 | 46.0 | 49.3 | 47.4 | 44.0 | 50.0 | 48.7 | 50.3 | 48.3 |
| 2 | DMH-63 | 54.7 | 53.7 | 55.7 | 49.0 | 48.7 | 51.0 | 53.7 | 50.7 | 52.1 | 51.7 | 46.3 | 49.0 | 49.0 | 44.0 | 48.0 | 49.0 | 53.3 | 48.6 |
| 3 | DH-264 | 50.7 | 50.7 | 49.7 | 48.5 | 49.3 | 50.0 | 53.3 | 48.3 | 50.1 | 51.0 | 43.3 | 45.0 | 46.4 | 39.0 | 43.7 | 46.7 | 51.3 | 45.2 |
| 4 | DH-265 | 52.0 | 50.0 | 50.7 | 49.0 | 49.7 | 50.3 | 52.3 | 49.7 | 50.5 | 46.7 | 43.0 | 46.7 | 45.4 | 41.0 | 46.0 | 45.3 | 48.0 | 45.1 |
| 5 | FH-3664 | 54.3 | 50.7 | 54.3 | 48.0 | 51.3 | 51.0 | 53.0 | 51.7 | 51.8 | 47.0 | 45.3 | 47.3 | 46.6 | 45.3 | 45.0 | 46.0 | 48.7 | 46.3 |
| 6 | FH-3669 | 53.3 | 53.3 | 55.0 | 48.5 | 50.3 | 52.3 | 54.7 | 53.7 | 52.6 | 51.0 | 48.3 | 49.7 | 49.7 | 43.3 | 47.0 | 48.7 | 53.0 | 48.0 |
| 7 | B-52 | 56.3 | 55.3 | 56.0 | 52.0 | 57.0 | 53.3 | 57.3 | 53.0 | 55.0 | 51.0 | 51.3 | 52.0 | 51.4 | 48.7 | 50.0 | 52.3 | 56.3 | 51.8 |
| 8 | EH-2211 | 51.0 | 50.7 | 50.7 | 47.0 | 50.0 | 51.7 | 55.0 | 50.7 | 50.8 | 48.0 | 45.7 | 47.7 | 47.1 | 39.7 | 45.7 | 45.3 | 52.0 | 45.7 |
| 9 | EH-2214 | 57.7 | 58.0 | 58.7 | 58.0 | 55.7 | 57.7 | 56.3 | 52.3 | 56.8 | 52.3 | 50.3 | 51.0 | 51.2 | 43.7 | 52.0 | 52.3 | 61.3 | 52.3 |
| 10 | EH-2233 | 58.0 | 56.3 | 57.0 | 53.5 | 57.0 | 57.7 | 56.0 | 53.0 | 56.1 | 51.3 | 49.0 | 52.0 | 50.8 | 44.7 | 51.0 | 51.0 | 64.3 | 52.8 |
| 11 | NMH-1258 | 54.0 | 54.0 | 55.0 | 47.5 | 55.3 | 53.3 | 55.7 | 51.0 | 53.2 | 47.7 | 47.3 | 48.3 | 47.8 | 41.3 | 47.0 | 48.3 | 50.3 | 46.8 |
| 12 | CMH 11-579 | 61.3 | 59.3 | 60.3 | 58.0 | 56.7 | 59.0 | 58.0 | 53.7 | 58.3 | 47.3 | 55.7 | 50.7 | 51.2 | 50.3 | 51.0 | 51.0 | 65.0 | 54.3 |
| 13 | CMH 11-595 | 58.7 | 58.0 | 57.0 | 58.5 | 56.7 | 59.0 | 59.3 | 54.7 | 57.7 | 48.7 | 52.7 | 50.3 | 50.6 | 51.3 | 52.3 | 53.7 | 66.3 | 55.9 |
| 14 | CMH 11-611 | 58.7 | 57.7 | 58.3 | 58.5 | 58.0 | 56.7 | 58.7 | 54.0 | 57.6 | 51.3 | 52.3 | 52.0 | 51.9 | 51.7 | 52.3 | 53.0 | 72.3 | 57.3 |
| 15 | CMH 11-626 | 58.3 | 57.7 | 58.7 | 58.0 | 55.3 | 57.7 | 57.3 | 53.3 | 57.0 | 52.0 | 51.3 | 51.3 | 51.6 | 45.3 | 52.3 | 53.7 | 63.0 | 53.6 |
| 16 | CMH 11-629 | 59.0 | 57.3 | 59.0 | 58.0 | 55.3 | 58.3 | 56.7 | 53.7 | 57.2 | 46.7 | 52.3 | 51.7 | 50.2 | 53.0 | 52.3 | 52.7 | 58.3 | 54.1 |
| 17 | BH 411305 | 53.0 | 52.3 | 52.3 | 50.0 | 49.0 | 49.3 | 52.7 | 50.7 | 51.2 | 51.3 | 45.7 | 49.0 | 48.7 | 47.7 | 46.7 | 48.7 | 48.3 | 47.8 |
| 18 | Bio 9720 | 55.7 | 54.7 | 56.0 | 53.0 | 50.0 | 51.3 | 54.7 | 51.7 | 53.4 | 50.0 | 49.3 | 50.3 | 49.9 | 50.0 | 50.7 | 52.0 | 53.0 | 51.4 |
| 19 | GWH-0712 | 50.7 | 51.3 | 49.7 | 48.0 | 49.3 | 50.3 | 53.0 | 53.0 | 50.7 | 51.0 | 45.0 | 47.7 | 47.9 | 41.3 | 46.0 | 45.0 | 47.3 | 44.9 |
| 20 | GWH-0902 | 51.7 | 51.7 | 50.3 | 50.5 | 50.0 | 52.3 | 56.3 | 50.7 | 51.7 | 47.7 | 46.0 | 47.0 | 46.9 | 45.3 | 48.7 | 45.7 | 52.3 | 48.0 |
| 21 | GYH-0653 | 53.0 | 51.3 | 51.0 | 50.5 | 51.3 | 51.0 | 53.3 | 50.3 | 51.5 | 50.0 | 48.7 | 50.0 | 49.6 | 49.3 | 49.3 | 49.0 | 55.3 | 50.8 |
| 22 | JH 31610 | 53.0 | 52.7 | 54.0 | 48.5 | 50.3 | 51.0 | 54.3 | 51.3 | 51.9 | 47.0 | 46.0 | 48.7 | 47.2 | 40.3 | 46.3 | 49.0 | 50.3 | 46.5 |
| 23 | JH 31613 | 55.7 | 54.3 | 53.3 | 52.5 | 50.7 | 52.0 | 54.7 | 51.3 | 53.1 | 47.7 | 47.0 | 48.3 | 47.7 | 46.7 | 47.0 | 49.0 | 56.3 | 49.8 |
| 24 | AH-1261 | 51.7 | 50.7 | 51.0 | 47.5 | 49.7 | 51.7 | 52.7 | 50.7 | 50.7 | 46.7 | 45.0 | 46.3 | 46.0 | 43.7 | 48.3 | 48.0 | 57.7 | 49.4 |
| 25 | AH-1219 | 50.7 | 51.0 | 49.7 | 47.0 | 50.0 | 51.0 | 53.3 | 50.7 | 50.4 | 47.7 | 45.0 | 45.7 | 46.1 | 42.7 | 44.0 | 45.7 | 47.3 | 44.9 |
| 26 | MEH-1-12-13 | 57.3 | 57.0 | 56.3 | 53.5 | 54.3 | 55.7 | 55.3 | 53.0 | 55.3 | 51.0 | 50.3 | 49.3 | 50.2 | 41.0 | 50.3 | 49.0 | 55.7 | 49.0 |
| 27 | HKH 341 | 54.3 | 54.3 | 55.3 | 50.5 | 55.7 | 54.0 | 54.7 | 51.0 | 53.7 | 50.0 | 47.3 | 48.7 | 48.7 | 50.3 | 46.3 | 47.7 | 55.7 | 50.0 |
| 28 | KNMH-4301 | 59.0 | 57.0 | 60.0 | 58.0 | 57.0 | 58.0 | 57.7 | 54.0 | 57.6 | 51.0 | 52.3 | 51.3 | 51.6 | 48.3 | 52.3 | 53.3 | 65.3 | 54.8 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 52.7 | 51.3 | 52.3 | 48.5 | 50.3 | 49.7 | 52.7 | 50.3 | 51.0 | 47.7 | 45.0 | 47.0 | 46.6 | 44.3 | 48.0 | 46.0 | 48.3 | 46.7 |
| 30 | Prakash (C) | 52.7 | 52.3 | 53.3 | 48.0 | 48.3 | 50.7 | 53.0 | 51.0 | 51.2 | 51.0 | 47.0 | 46.7 | 48.2 | 45.3 | 47.0 | 46.0 | 52.0 | 47.6 |
| | Loc. Mean | 54.7 | 53.9 | 54.5 | 51.5 | 52.4 | 53.2 | 55.0 | 51.8 | 53.4 | 49.3 | 48.0 | 49.0 | 48.8 | 45.4 | 48.6 | 49.1 | 55.3 | 49.6 |
| | C.D. (5%) | 1.37 | 1.75 | 2.15 | 4.41 | 1.93 | 2.60 | 2.04 | 2.20 | 1.36 | 1.26 | 1.81 | 1.71 | 2.89 | 8.92 | 3.36 | 1.66 | 1.15 | 3.92 |
| | C.V. (%) | 1.53 | 1.98 | 2.42 | 4.19 | 2.25 | 2.99 | 2.28 | 2.60 | 2.59 | 1.56 | 2.30 | 2.14 | 3.63 | 12.02 | 4.23 | 2.07 | 1.28 | 5.63 |
| | 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 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 3 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | | | | | | | | | | | | |
|------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 54.0 | 54.3 | 54.0 | 52.0 | 51.0 | 53.0 | 57.0 | 56.0 | 53.9 | 49.7 | 47.7 | 52.0 | 49.8 | 45.3 | 51.0 | 52.3 | 55.7 | 51.1 |
| 2 | DMH-63 | 55.3 | 56.0 | 56.7 | 53.0 | 51.3 | 53.7 | 57.0 | 55.7 | 54.8 | 53.7 | 47.7 | 51.7 | 51.0 | 45.3 | 49.3 | 52.7 | 57.7 | 51.3 |
| 3 | DH-264 | 51.7 | 52.7 | 50.7 | 52.0 | 51.7 | 53.0 | 57.0 | 53.7 | 52.8 | 53.0 | 44.3 | 48.0 | 48.4 | 40.3 | 46.0 | 50.7 | 57.3 | 48.6 |
| 4 | DH-265 | 53.3 | 52.0 | 51.7 | 53.0 | 52.0 | 53.0 | 56.3 | 55.7 | 53.4 | 49.0 | 44.0 | 49.3 | 47.4 | 42.0 | 47.7 | 49.3 | 54.7 | 48.4 |
| 5 | FH-3664 | 54.7 | 53.0 | 55.3 | 52.0 | 54.0 | 54.0 | 56.7 | 57.3 | 54.6 | 49.0 | 46.3 | 50.0 | 48.4 | 47.0 | 46.7 | 50.0 | 54.0 | 49.4 |
| 6 | FH-3669 | 54.3 | 55.3 | 56.0 | 52.5 | 53.3 | 55.7 | 58.7 | 59.7 | 55.7 | 53.0 | 49.7 | 52.3 | 51.7 | 44.7 | 48.7 | 52.7 | 58.0 | 51.0 |
| 7 | B-52 | 57.7 | 57.7 | 57.0 | 56.0 | 59.3 | 57.0 | 60.7 | 58.0 | 57.9 | 53.0 | 53.0 | 55.0 | 53.7 | 50.7 | 51.0 | 55.0 | 63.0 | 54.9 |
| 8 | EH-2211 | 52.0 | 52.7 | 51.7 | 51.0 | 53.0 | 55.0 | 58.3 | 56.0 | 53.7 | 50.0 | 47.3 | 50.3 | 49.2 | 41.0 | 47.0 | 49.3 | 57.7 | 48.8 |
| 9 | EH-2214 | 58.7 | 60.3 | 59.7 | 62.0 | 59.0 | 61.0 | 60.3 | 58.3 | 59.9 | 54.3 | 51.3 | 54.0 | 53.2 | 45.0 | 53.0 | 55.3 | 65.7 | 54.8 |
| 10 | EH-2233 | 58.7 | 58.3 | 58.0 | 57.5 | 59.7 | 61.0 | 59.0 | 58.7 | 58.9 | 53.3 | 50.0 | 55.0 | 52.8 | 46.3 | 52.0 | 54.3 | 68.7 | 55.3 |
| 11 | NMH-1258 | 55.0 | 56.0 | 56.0 | 51.5 | 57.3 | 56.3 | 59.7 | 57.0 | 56.1 | 50.0 | 48.3 | 51.0 | 49.8 | 42.7 | 48.3 | 52.0 | 55.7 | 49.7 |
| 12 | CMH 11-579 | 60.3 | 61.3 | 61.3 | 61.5 | 59.3 | 62.0 | 62.0 | 59.3 | 60.9 | 49.3 | 56.7 | 53.3 | 53.1 | 52.3 | 51.3 | 55.3 | 70.0 | 57.3 |
| 13 | CMH 11-595 | 59.7 | 60.0 | 58.0 | 62.5 | 59.3 | 62.0 | 63.3 | 60.3 | 60.6 | 51.0 | 53.7 | 53.3 | 52.7 | 53.0 | 53.3 | 56.3 | 71.3 | 58.5 |
| 14 | CMH 11-611 | 59.3 | 59.7 | 59.3 | 61.5 | 60.7 | 59.7 | 61.3 | 59.7 | 60.1 | 53.7 | 53.0 | 54.7 | 53.8 | 53.7 | 53.3 | 56.0 | 77.3 | 60.1 |
| 15 | CMH 11-626 | 59.0 | 59.7 | 59.7 | 62.0 | 57.7 | 60.3 | 61.0 | 58.7 | 59.8 | 54.0 | 52.3 | 54.3 | 53.6 | 46.7 | 53.7 | 56.3 | 68.3 | 56.3 |
| 16 | CMH 11-629 | 59.0 | 59.7 | 60.0 | 61.5 | 58.0 | 61.3 | 60.7 | 59.7 | 60.0 | 49.0 | 53.0 | 54.3 | 52.1 | 54.3 | 53.7 | 55.0 | 62.7 | 56.4 |
| 17 | BH 411305 | 54.3 | 54.3 | 53.3 | 54.0 | 52.3 | 52.3 | 57.0 | 56.0 | 54.2 | 53.3 | 47.0 | 51.3 | 50.6 | 49.7 | 48.3 | 52.7 | 54.0 | 51.2 |
| 18 | Bio 9720 | 57.3 | 57.0 | 57.0 | 56.5 | 52.7 | 55.0 | 59.0 | 57.3 | 56.5 | 52.0 | 50.7 | 53.3 | 52.0 | 52.0 | 52.3 | 55.0 | 59.3 | 54.7 |
| 19 | GWH-0712 | 51.7 | 53.3 | 50.7 | 52.0 | 53.0 | 54.0 | 56.3 | 58.0 | 53.6 | 53.0 | 46.7 | 50.7 | 50.1 | 42.7 | 47.7 | 49.0 | 53.3 | 48.2 |
| 20 | GWH-0902 | 52.3 | 53.7 | 51.3 | 54.0 | 53.3 | 55.3 | 60.0 | 56.0 | 54.5 | 49.7 | 47.0 | 50.0 | 48.9 | 47.7 | 50.3 | 49.7 | 58.7 | 51.6 |
| 21 | GYH-0653 | 54.3 | 53.7 | 52.0 | 54.5 | 54.3 | 54.3 | 58.0 | 55.3 | 54.6 | 52.3 | 50.7 | 53.0 | 52.0 | 51.3 | 51.3 | 53.0 | 58.0 | 53.4 |
| 22 | JH 31610 | 53.7 | 54.7 | 55.0 | 52.5 | 53.7 | 54.3 | 58.7 | 57.0 | 54.9 | 49.3 | 47.3 | 51.0 | 49.2 | 41.7 | 48.0 | 53.0 | 55.3 | 49.5 |
| 23 | JH 31613 | 58.0 | 56.3 | 54.3 | 56.0 | 53.3 | 55.7 | 58.7 | 57.3 | 56.2 | 49.7 | 49.0 | 51.3 | 50.0 | 48.7 | 48.7 | 52.7 | 61.3 | 52.8 |
| 24 | AH-1261 | 53.0 | 52.7 | 52.0 | 51.5 | 52.3 | 54.7 | 56.0 | 56.3 | 53.6 | 49.0 | 46.0 | 49.0 | 48.0 | 45.0 | 50.0 | 51.3 | 64.0 | 52.6 |
| 25 | AH-1219 | 51.3 | 53.0 | 50.7 | 51.0 | 53.0 | 53.7 | 57.0 | 55.7 | 53.2 | 50.0 | 45.3 | 48.7 | 48.0 | 43.7 | 46.3 | 49.7 | 53.7 | 48.3 |
| 26 | MEH-1-12-13 | 58.3 | 59.0 | 57.3 | 57.5 | 57.7 | 58.3 | 59.0 | 58.3 | 58.2 | 53.0 | 51.7 | 52.3 | 52.3 | 42.3 | 52.7 | 53.0 | 61.7 | 52.4 |
| 27 | HKH 341 | 56.0 | 56.7 | 56.3 | 54.5 | 58.3 | 57.0 | 58.0 | 56.7 | 56.7 | 52.0 | 48.7 | 51.7 | 50.8 | 52.3 | 48.7 | 51.3 | 60.7 | 53.3 |
| 28 | KNMH-4301 | 59.7 | 59.0 | 61.0 | 61.5 | 59.3 | 61.3 | 61.0 | 59.3 | 60.3 | 53.0 | 53.3 | 54.3 | 53.6 | 50.3 | 54.0 | 56.7 | 70.3 | 57.8 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 54.7 | 53.3 | 53.3 | 52.5 | 53.3 | 52.7 | 56.7 | 55.7 | 54.0 | 49.7 | 46.0 | 49.7 | 48.4 | 46.3 | 50.0 | 50.0 | 54.0 | 50.1 |
| 30 | Prakash (C) | 53.0 | 54.3 | 54.3 | 52.0 | 52.0 | 53.3 | 57.3 | 57.0 | 54.2 | 53.3 | 46.0 | 49.7 | 49.7 | 47.3 | 48.3 | 50.0 | 59.0 | 51.2 |
| Loc. Mean | | 55.7 | 56.0 | 55.5 | 55.4 | 55.2 | 56.3 | 58.7 | 57.3 | 56.3 | 51.5 | 49.1 | 51.8 | 50.8 | 47.0 | 50.1 | 52.7 | 60.7 | 52.6 |
| C.D. (5%) | | 1.52 | 1.73 | 2.15 | 4.41 | 1.91 | 2.55 | 2.20 | 2.16 | 1.33 | 1.20 | 1.86 | 1.98 | 2.82 | 9.75 | 3.37 | 1.56 | 1.28 | 3.96 |
| C.V. (%) | | 1.67 | 1.90 | 2.38 | 3.90 | 2.12 | 2.77 | 2.29 | 2.30 | 2.39 | 1.43 | 2.31 | 2.34 | 3.40 | 12.68 | 4.12 | 1.81 | 1.29 | 5.35 |
| 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 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 3 (Continued)

| S.No. | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | | | |
|--------|------------------|----------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | ZN 1 | | | ZN 2 | | | | ZN 3 | | |
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 98.7 | 95.0 | 110.3 | 87.0 | 77.0 | 88.0 | 98.7 | 93.0 | 93.5 | 80.0 | 78.3 | 79.2 | 69.0 | 79.0 | 96.0 | 86.3 | 82.6 |
| 2 | DMH-63 | 100.7 | 95.7 | 113.0 | 87.5 | 79.0 | 88.7 | 100.0 | 92.3 | 94.6 | 82.7 | 78.3 | 80.5 | 69.0 | 77.7 | 97.3 | 88.7 | 83.2 |
| 3 | DH-264 | 96.3 | 92.3 | 110.7 | 87.0 | 78.0 | 88.0 | 96.3 | 90.7 | 92.4 | 81.0 | 74.7 | 77.8 | 64.3 | 73.3 | 97.0 | 90.0 | 81.2 |
| 4 | DH-265 | 95.7 | 94.0 | 113.0 | 88.0 | 76.0 | 88.0 | 94.3 | 93.3 | 92.8 | 80.3 | 75.0 | 77.7 | 74.7 | 76.0 | 96.3 | 87.0 | 83.5 |
| 5 | FH-3664 | 101.7 | 93.3 | 113.0 | 88.0 | 80.7 | 89.0 | 95.7 | 95.3 | 94.6 | 81.7 | 79.3 | 80.5 | 78.3 | 76.7 | 97.3 | 89.7 | 85.5 |
| 6 | FH-3669 | 96.7 | 94.3 | 112.7 | 87.0 | 76.7 | 90.7 | 97.3 | 92.7 | 93.5 | 82.0 | 79.0 | 80.5 | 69.3 | 80.7 | 97.7 | 90.7 | 84.6 |
| 7 | B-52 | 101.7 | 95.0 | 113.3 | 93.0 | 82.7 | 92.0 | 100.7 | 92.7 | 96.4 | 82.7 | 81.7 | 82.2 | 80.7 | 79.3 | 97.3 | 92.7 | 87.5 |
| 8 | EH-2211 | 94.3 | 93.0 | 111.3 | 86.0 | 76.7 | 90.0 | 94.0 | 89.3 | 91.8 | 79.0 | 77.0 | 78.0 | 65.7 | 76.7 | 96.7 | 90.7 | 82.4 |
| 9 | EH-2214 | 103.7 | 96.0 | 114.0 | 97.0 | 76.7 | 96.0 | 104.3 | 92.7 | 97.5 | 82.3 | 81.0 | 81.7 | 71.0 | 80.0 | 97.7 | 92.0 | 85.2 |
| 10 | EH-2233 | 101.7 | 95.7 | 112.7 | 93.0 | 78.3 | 96.0 | 98.3 | 95.0 | 96.3 | 82.0 | 79.7 | 80.8 | 71.3 | 80.7 | 97.0 | 100.3 | 87.3 |
| 11 | NMH-1258 | 103.7 | 99.3 | 112.7 | 90.5 | 78.0 | 91.3 | 100.7 | 94.0 | 96.3 | 79.7 | 81.0 | 80.3 | 71.0 | 79.7 | 97.3 | 91.3 | 84.8 |
| 12 | CMH 11-579 | 103.3 | 96.0 | 113.0 | 96.5 | 81.3 | 97.0 | 108.7 | 94.7 | 98.8 | 79.0 | 85.7 | 82.3 | 80.3 | 80.3 | 97.7 | 99.3 | 89.4 |
| 13 | CMH 11-595 | 102.0 | 97.3 | 114.3 | 97.0 | 79.7 | 97.0 | 105.0 | 95.0 | 98.4 | 82.0 | 83.7 | 82.8 | 85.7 | 82.3 | 97.7 | 100.3 | 91.5 |
| 14 | CMH 11-611 | 101.3 | 98.7 | 113.0 | 96.5 | 82.0 | 94.7 | 105.0 | 94.3 | 98.2 | 81.0 | 83.3 | 82.2 | 82.7 | 82.0 | 97.7 | 106.3 | 92.2 |
| 15 | CMH 11-626 | 102.7 | 101.7 | 113.7 | 97.0 | 79.3 | 95.3 | 106.0 | 94.7 | 98.8 | 82.7 | 83.3 | 83.0 | 73.3 | 82.7 | 97.7 | 100.7 | 88.6 |
| 16 | CMH 11-629 | 98.3 | 98.3 | 113.0 | 95.5 | 78.7 | 96.3 | 101.7 | 94.7 | 97.1 | 79.0 | 83.7 | 81.3 | 83.3 | 82.3 | 98.7 | 93.0 | 89.3 |
| 17 | BH 411305 | 98.7 | 95.0 | 112.7 | 88.5 | 82.7 | 87.3 | 100.0 | 94.3 | 94.9 | 83.3 | 77.3 | 80.3 | 79.3 | 78.0 | 96.0 | 90.3 | 85.9 |
| 18 | Bio 9720 | 102.0 | 97.3 | 112.7 | 92.0 | 80.3 | 90.0 | 95.3 | 94.0 | 95.5 | 82.3 | 81.3 | 81.8 | 80.3 | 81.0 | 97.0 | 91.0 | 87.3 |
| 19 | GWH-0712 | 93.7 | 93.7 | 111.0 | 86.5 | 77.3 | 89.0 | 94.3 | 91.3 | 92.1 | 82.7 | 76.0 | 79.3 | 65.7 | 75.3 | 96.0 | 87.7 | 81.2 |
| 20 | GWH-0902 | 94.0 | 92.3 | 114.7 | 90.0 | 82.7 | 90.3 | 96.7 | 91.0 | 94.0 | 83.0 | 77.0 | 80.0 | 73.7 | 77.3 | 97.7 | 91.7 | 85.1 |
| 21 | GYH-0653 | 99.0 | 91.0 | 112.7 | 90.0 | 82.3 | 89.3 | 99.3 | 92.3 | 94.5 | 80.7 | 85.0 | 82.8 | 81.3 | 80.7 | 97.0 | 92.3 | 87.8 |
| 22 | JH 31610 | 95.7 | 94.3 | 110.7 | 87.5 | 77.7 | 89.3 | 95.7 | 92.0 | 92.9 | 79.7 | 78.0 | 78.8 | 68.3 | 77.7 | 97.7 | 85.7 | 82.3 |
| 23 | JH 31613 | 101.3 | 99.0 | 112.7 | 91.0 | 79.3 | 90.7 | 94.7 | 92.7 | 95.2 | 80.7 | 79.0 | 79.8 | 77.7 | 77.3 | 96.7 | 93.7 | 86.3 |
| 24 | AH-1261 | 97.3 | 93.7 | 112.7 | 86.5 | 79.3 | 89.7 | 97.3 | 93.0 | 93.7 | 79.3 | 76.0 | 77.7 | 69.0 | 80.0 | 97.3 | 97.7 | 86.0 |
| 25 | AH-1219 | 94.3 | 92.7 | 110.3 | 86.0 | 76.7 | 88.7 | 94.3 | 91.7 | 91.8 | 79.3 | 75.0 | 77.2 | 63.3 | 76.7 | 96.3 | 88.7 | 81.3 |
| 26 | MEH-1-12-13 | 99.3 | 96.3 | 111.7 | 89.0 | 78.7 | 93.3 | 101.7 | 94.0 | 95.5 | 82.0 | 82.3 | 82.2 | 66.7 | 81.3 | 96.7 | 89.3 | 83.5 |
| 27 | HKH 341 | 100.3 | 100.0 | 113.0 | 91.0 | 82.0 | 92.0 | 97.7 | 94.7 | 96.3 | 81.3 | 79.3 | 80.3 | 80.7 | 78.3 | 97.0 | 93.0 | 87.3 |
| 28 | KNMH-4301 | 104.3 | 97.7 | 115.3 | 96.5 | 82.0 | 96.3 | 103.3 | 96.0 | 98.9 | 82.3 | 87.7 | 85.0 | 84.3 | 85.3 | 98.7 | 101.3 | 92.4 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 95.0 | 93.7 | 111.0 | 87.5 | 78.0 | 87.7 | 94.7 | 92.3 | 92.5 | 79.0 | 77.0 | 78.0 | 75.7 | 77.7 | 96.0 | 89.3 | 84.7 |
| 30 | Prakash (C) | 94.7 | 95.7 | 112.7 | 87.5 | 78.0 | 88.3 | 96.0 | 92.7 | 93.2 | 81.3 | 77.7 | 79.5 | 74.3 | 79.7 | 96.3 | 91.7 | 85.5 |
| | Loc. Mean | 99.1 | 95.6 | 112.6 | 90.5 | 79.3 | 91.3 | 98.9 | 93.2 | 95.1 | 81.1 | 79.8 | 80.5 | 74.3 | 79.2 | 97.1 | 92.7 | 85.8 |
| | C.D. (5%) | 2.34 | 2.78 | 2.62 | 3.30 | 2.57 | 2.55 | 2.17 | 2.39 | 1.97 | 1.74 | 2.64 | 5.10 | 14.13 | 3.08 | 1.40 | 3.59 | 4.91 |
| | C.V. (%) | 1.45 | 1.78 | 1.43 | 1.78 | 1.98 | 1.71 | 1.34 | 1.57 | 2.10 | 1.31 | 2.03 | 3.10 | 11.63 | 2.38 | 0.89 | 2.37 | 4.07 |
| | F (Prob) | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 |

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Table No. 3 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | | | |
|--------|------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | | BANS | CHHI | UDAI | Mean |
| 1 | LG-3181 | 101.3 | 97.7 | 95.0 | 86.0 | 93.3 | 92.7 | 90.0 | 91.7 | 92.7 | 109.7 | 95.0 | 72.3 | 76.0 | 98.0 | 86.0 | 83.1 | 90.0 |
| 2 | DMH-63 | 103.0 | 96.7 | 100.0 | 89.3 | 93.3 | 93.0 | 86.7 | 93.0 | 88.3 | 106.0 | 94.9 | 79.0 | 76.7 | 97.3 | 85.0 | 84.5 | 90.6 |
| 3 | DH-264 | 97.7 | 96.3 | 98.7 | 88.0 | 91.0 | 84.7 | 84.3 | 90.7 | 88.7 | 98.0 | 91.8 | 71.0 | 76.0 | 90.7 | 85.3 | 80.8 | 87.9 |
| 4 | DH-265 | 96.7 | 94.0 | 96.7 | 87.7 | 92.3 | 98.0 | 86.7 | 92.0 | 89.0 | 99.3 | 93.2 | 74.0 | 76.3 | 96.0 | 85.3 | 82.9 | 89.1 |
| 5 | FH-3664 | 102.0 | 94.7 | 99.0 | 90.3 | 94.3 | 92.0 | 89.3 | 98.0 | 89.7 | 108.7 | 95.8 | 70.3 | 77.7 | 101.0 | 85.7 | 83.7 | 91.2 |
| 6 | FH-3669 | 101.7 | 94.7 | 96.3 | 93.0 | 93.3 | 90.3 | 90.0 | 93.7 | 99.7 | 106.7 | 95.9 | 79.3 | 77.7 | 103.7 | 85.7 | 86.6 | 91.2 |
| 7 | B-52 | 100.7 | 93.0 | 100.7 | 90.7 | 93.3 | 95.0 | 91.7 | 92.3 | 103.3 | 104.7 | 96.5 | 78.0 | 76.7 | 102.7 | 85.7 | 85.8 | 92.6 |
| 8 | EH-2211 | 97.7 | 97.3 | 101.3 | 87.0 | 91.7 | 88.3 | 86.3 | 90.7 | 90.3 | 104.7 | 93.5 | 70.0 | 77.0 | 94.7 | 85.7 | 81.8 | 88.7 |
| 9 | EH-2214 | 101.7 | 96.3 | 104.0 | 86.0 | 93.7 | 83.0 | 89.3 | 94.7 | 95.0 | 113.0 | 95.7 | 78.0 | 76.7 | 102.3 | 86.3 | 85.8 | 92.3 |
| 10 | EH-2233 | 101.7 | 97.0 | 100.3 | 90.7 | 91.7 | 86.7 | 89.3 | 92.0 | 94.7 | 111.7 | 95.6 | 75.0 | 77.0 | 98.3 | 87.7 | 84.5 | 92.0 |
| 11 | NMH-1258 | 103.0 | 96.0 | 99.7 | 87.3 | 94.0 | 93.0 | 95.0 | 94.7 | 89.7 | 110.7 | 96.3 | 70.0 | 75.7 | 101.7 | 84.7 | 83.0 | 91.6 |
| 12 | CMH 11-579 | 101.7 | 95.0 | 102.7 | 88.0 | 92.0 | 96.7 | 87.7 | 99.0 | 95.7 | 112.3 | 97.1 | 76.3 | 75.7 | 98.7 | 85.7 | 84.1 | 93.6 |
| 13 | CMH 11-595 | 106.7 | 93.3 | 95.0 | 89.7 | 94.0 | 96.3 | 89.3 | 98.0 | 102.3 | 115.7 | 98.0 | 77.0 | 77.0 | 100.7 | 85.3 | 85.0 | 94.3 |
| 14 | CMH 11-611 | 108.0 | 90.0 | 96.0 | 92.7 | 93.7 | 103.7 | 89.0 | 99.0 | 102.0 | 119.0 | 99.3 | 74.0 | 76.7 | 103.3 | 84.7 | 84.7 | 94.6 |
| 15 | CMH 11-626 | 108.0 | 96.0 | 96.0 | 90.0 | 93.7 | 87.3 | 90.7 | 98.3 | 98.0 | 118.7 | 97.7 | 72.3 | 76.7 | 104.3 | 86.7 | 85.0 | 93.8 |
| 16 | CMH 11-629 | 105.0 | 93.7 | 93.0 | 87.0 | 93.3 | 103.7 | 90.7 | 100.3 | 114.3 | 118.7 | 100.0 | 79.3 | 76.7 | 104.7 | 86.3 | 86.8 | 94.4 |
| 17 | BH 411305 | 100.3 | 93.3 | 96.0 | 85.0 | 93.7 | 91.3 | 89.0 | 92.7 | 109.3 | 108.3 | 95.9 | 77.0 | 77.7 | 96.3 | 84.7 | 83.9 | 91.4 |
| 18 | Bio 9720 | 101.0 | 95.0 | 98.0 | 88.7 | 93.7 | 96.3 | 92.7 | 98.0 | 94.7 | 111.7 | 97.0 | 72.0 | 76.3 | 98.3 | 85.0 | 82.9 | 92.1 |
| 19 | GWH-0712 | 97.3 | 96.3 | 101.3 | 87.7 | 91.3 | 84.7 | 85.3 | 90.7 | 89.7 | 96.0 | 92.0 | 69.0 | 76.0 | 91.0 | 84.3 | 80.1 | 87.9 |
| 20 | GWH-0902 | 101.0 | 90.0 | 93.3 | 84.3 | 90.7 | 87.3 | 83.0 | 91.3 | 88.7 | 96.0 | 90.6 | 69.0 | 77.0 | 89.7 | 85.7 | 80.3 | 88.5 |
| 21 | GYH-0653 | 100.0 | 97.3 | 100.3 | 87.0 | 94.0 | 89.7 | 86.3 | 97.0 | 97.0 | 108.7 | 95.7 | 75.0 | 75.0 | 98.3 | 84.7 | 83.3 | 91.5 |
| 22 | JH 31610 | 92.0 | 98.0 | 104.0 | 87.3 | 95.3 | 92.7 | 87.7 | 93.0 | 110.7 | 103.3 | 96.4 | 72.0 | 76.7 | 99.0 | 84.7 | 83.1 | 90.2 |
| 23 | JH 31613 | 95.0 | 91.3 | 104.0 | 86.3 | 94.3 | 92.0 | 89.7 | 93.0 | 94.3 | 108.7 | 94.9 | 70.0 | 76.7 | 97.3 | 86.7 | 82.7 | 90.9 |
| 24 | AH-1261 | 98.0 | 96.7 | 101.7 | 87.7 | 93.3 | 92.3 | 87.3 | 92.3 | 90.7 | 101.7 | 94.2 | 74.0 | 77.0 | 96.3 | 84.7 | 83.0 | 90.1 |
| 25 | AH-1219 | 97.0 | 98.0 | 104.3 | 85.7 | 91.3 | 89.3 | 84.7 | 91.3 | 90.0 | 98.3 | 93.0 | 69.3 | 75.7 | 92.7 | 84.0 | 80.4 | 88.1 |
| 26 | MEH-1-12-13 | 105.3 | 96.0 | 100.7 | 86.3 | 93.3 | 74.7 | 88.3 | 95.0 | 94.3 | 109.0 | 94.3 | 76.0 | 75.7 | 104.7 | 85.3 | 85.4 | 91.0 |
| 27 | HKH 341 | 102.7 | 96.3 | 96.7 | 88.3 | 92.7 | 94.7 | 91.0 | 97.3 | 90.3 | 108.3 | 95.8 | 79.0 | 74.7 | 104.3 | 85.7 | 85.9 | 92.2 |
| 28 | KNMH-4301 | 105.3 | 95.0 | 94.7 | 85.7 | 94.0 | 105.3 | 94.7 | 99.0 | 90.7 | 115.0 | 97.9 | 77.0 | 76.0 | 104.7 | 84.3 | 85.5 | 94.7 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 94.3 | 98.0 | 93.3 | 86.0 | 93.3 | 88.3 | 86.3 | 91.0 | 104.7 | 98.0 | 93.3 | 73.0 | 75.0 | 97.0 | 85.3 | 82.6 | 89.2 |
| 30 | Prakash (C) | 92.7 | 95.0 | 95.0 | 87.0 | 94.3 | 90.0 | 91.0 | 92.0 | 91.0 | 97.3 | 92.5 | 75.3 | 75.7 | 101.7 | 86.7 | 84.8 | 89.7 |
| | Loc. Mean | 100.6 | 95.3 | 98.6 | 87.9 | 93.1 | 91.8 | 88.8 | 94.4 | 95.6 | 107.3 | 95.3 | 74.1 | 76.4 | 99.0 | 85.4 | 83.7 | 91.2 |
| | C.D. (5%) | 6.28 | 1.02 | 3.98 | 2.78 | 1.76 | 11.16 | 3.50 | 1.52 | 1.86 | 5.02 | 3.58 | 1.21 | 2.06 | 1.39 | 1.31 | 3.49 | 1.66 |
| | C.V. (%) | 3.82 | 0.66 | 2.47 | 1.94 | 1.15 | 7.44 | 2.41 | 0.99 | 1.19 | 2.87 | 4.26 | 1.00 | 1.65 | 0.86 | 0.94 | 2.97 | 3.46 |
| | 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 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 3 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | | |
|------------------|-------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | ZN 1 | | | | | | | | | ZN 2 | | | | ZN 3 | | | | |
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 263.3 | 216.7 | 203.3 | 210.5 | 222.7 | 199.0 | 279.3 | 209.2 | 225.5 | 201.7 | 238.3 | 274.7 | 238.2 | 204.2 | 177.7 | 199.5 | 215.5 | 199.2 |
| 2 | DMH-63 | 233.3 | 218.3 | 184.7 | 201.0 | 167.3 | 180.3 | 242.7 | 207.2 | 204.4 | 180.0 | 200.0 | 235.3 | 205.1 | 157.7 | 155.7 | 189.5 | 203.0 | 176.5 |
| 3 | DH-264 | 226.7 | 191.7 | 196.9 | 224.0 | 187.3 | 181.7 | 241.3 | 236.5 | 210.8 | 220.0 | 203.3 | 258.7 | 227.3 | 147.8 | 152.0 | 175.5 | 200.5 | 169.0 |
| 4 | DH-265 | 235.0 | 216.7 | 184.1 | 223.0 | 208.7 | 187.3 | 260.7 | 217.5 | 216.6 | 211.7 | 206.7 | 244.0 | 220.8 | 167.2 | 174.3 | 184.4 | 206.0 | 183.0 |
| 5 | FH-3664 | 223.3 | 193.3 | 199.0 | 219.0 | 169.0 | 172.3 | 261.5 | 220.7 | 207.3 | 195.0 | 250.0 | 233.0 | 226.0 | 160.1 | 168.3 | 183.6 | 184.0 | 174.0 |
| 6 | FH-3669 | 245.0 | 191.7 | 188.1 | 214.0 | 210.7 | 196.7 | 260.0 | 250.3 | 219.6 | 193.3 | 210.0 | 232.3 | 211.9 | 174.1 | 159.0 | 194.2 | 194.0 | 180.3 |
| 7 | B-52 | 240.0 | 180.0 | 205.5 | 219.0 | 189.0 | 183.7 | 267.3 | 218.3 | 212.9 | 200.0 | 263.3 | 266.7 | 243.3 | 173.5 | 174.0 | 200.2 | 216.5 | 191.1 |
| 8 | EH-2211 | 231.7 | 195.0 | 183.3 | 229.5 | 168.3 | 200.3 | 273.3 | 213.7 | 211.9 | 210.0 | 195.0 | 241.3 | 215.4 | 167.1 | 175.0 | 183.9 | 188.0 | 178.5 |
| 9 | EH-2214 | 280.0 | 256.7 | 216.3 | 272.0 | 233.3 | 223.0 | 299.3 | 221.0 | 250.2 | 228.3 | 240.0 | 266.0 | 244.8 | 192.3 | 207.3 | 219.6 | 235.5 | 213.7 |
| 10 | EH-2233 | 265.0 | 235.0 | 208.9 | 238.0 | 207.0 | 181.7 | 295.3 | 235.9 | 233.4 | 218.3 | 241.7 | 274.3 | 244.8 | 182.4 | 186.0 | 228.2 | 210.5 | 201.8 |
| 11 | NMH-1258 | 276.7 | 255.0 | 239.3 | 248.0 | 207.0 | 209.0 | 305.7 | 229.3 | 246.2 | 238.3 | 253.3 | 281.7 | 257.8 | 195.6 | 194.7 | 226.1 | 199.0 | 203.8 |
| 12 | CMH 11-579 | 265.0 | 251.7 | 207.7 | 290.0 | 206.7 | 252.0 | 307.7 | 224.0 | 250.6 | 255.0 | 246.7 | 299.3 | 267.0 | 199.2 | 190.0 | 221.9 | 239.0 | 212.5 |
| 13 | CMH 11-595 | 276.7 | 175.0 | 214.0 | 283.5 | 224.0 | 216.3 | 299.7 | 236.2 | 240.7 | 165.0 | 246.7 | 273.7 | 228.4 | 186.7 | 202.3 | 214.5 | 230.0 | 208.4 |
| 14 | CMH 11-611 | 266.7 | 240.0 | 222.9 | 219.5 | 190.0 | 198.0 | 292.7 | 209.3 | 229.9 | 233.3 | 248.3 | 272.7 | 251.4 | 176.6 | 195.7 | 216.1 | 227.5 | 204.0 |
| 15 | CMH 11-626 | 273.3 | 235.0 | 217.0 | 254.0 | 203.3 | 189.3 | 289.7 | 248.0 | 238.7 | 231.7 | 246.7 | 275.0 | 251.1 | 185.1 | 192.7 | 215.4 | 218.0 | 202.8 |
| 16 | CMH 11-629 | 275.0 | 233.3 | 214.5 | 225.5 | 217.3 | 205.7 | 301.7 | 217.3 | 236.3 | 233.3 | 203.3 | 263.0 | 233.2 | 175.7 | 200.7 | 214.4 | 230.5 | 205.3 |
| 17 | BH 411305 | 201.7 | 178.3 | 176.3 | 208.0 | 180.0 | 182.3 | 235.3 | 201.0 | 195.4 | 250.0 | 168.3 | 248.0 | 222.1 | 154.1 | 152.3 | 166.9 | 184.0 | 164.3 |
| 18 | Bio 9720 | 260.0 | 230.0 | 212.7 | 245.0 | 178.3 | 207.7 | 282.0 | 213.1 | 228.6 | 223.3 | 223.3 | 262.0 | 236.2 | 184.5 | 185.7 | 202.9 | 204.0 | 194.3 |
| 19 | GWH-0712 | 250.0 | 210.0 | 178.3 | 213.0 | 188.3 | 215.7 | 272.3 | 235.0 | 220.3 | 218.3 | 223.3 | 244.7 | 228.8 | 198.9 | 179.0 | 188.8 | 199.0 | 191.4 |
| 20 | GWH-0902 | 243.3 | 206.7 | 192.3 | 227.0 | 161.7 | 208.0 | 294.3 | 214.3 | 218.5 | 218.3 | 198.3 | 256.3 | 224.3 | 185.8 | 185.7 | 194.5 | 213.0 | 194.8 |
| 21 | GYH-0653 | 243.3 | 203.3 | 206.9 | 239.5 | 188.3 | 192.3 | 275.0 | 243.0 | 224.0 | 240.0 | 246.7 | 275.0 | 253.9 | 203.1 | 192.7 | 203.5 | 225.5 | 206.2 |
| 22 | JH 31610 | 243.3 | 221.7 | 199.6 | 230.5 | 191.7 | 198.0 | 277.7 | 202.9 | 220.7 | 206.7 | 206.7 | 256.0 | 223.1 | 173.9 | 177.3 | 190.1 | 193.0 | 183.6 |
| 23 | JH 31613 | 228.3 | 198.3 | 196.2 | 218.5 | 185.0 | 210.7 | 267.7 | 197.3 | 212.8 | 210.0 | 196.7 | 233.7 | 213.4 | 162.7 | 170.7 | 189.8 | 214.0 | 184.3 |
| 24 | AH-1261 | 231.7 | 198.3 | 179.3 | 216.5 | 190.3 | 182.3 | 243.7 | 247.0 | 211.1 | 190.0 | 240.0 | 251.7 | 227.2 | 156.7 | 145.7 | 185.1 | 194.0 | 170.4 |
| 25 | AH-1219 | 216.7 | 165.0 | 169.7 | 196.5 | 190.3 | 182.0 | 226.3 | 230.7 | 197.1 | 171.7 | 198.3 | 213.7 | 194.6 | 148.5 | 154.0 | 175.1 | 178.0 | 163.9 |
| 26 | MEH-1-12-13 | 241.7 | 210.0 | 192.0 | 232.5 | 203.3 | 228.0 | 263.0 | 248.7 | 227.4 | 201.7 | 200.0 | 252.3 | 218.0 | 165.5 | 162.7 | 207.2 | 205.5 | 185.2 |
| 27 | HKH 341 | 245.0 | 218.3 | 198.3 | 230.0 | 188.3 | 199.3 | 258.3 | 229.3 | 220.9 | 210.0 | 196.7 | 243.7 | 216.8 | 158.2 | 171.3 | 189.9 | 193.0 | 178.1 |
| 28 | KNMH-4301 | 268.3 | 230.0 | 235.6 | 234.0 | 176.3 | 215.3 | 294.0 | 235.3 | 236.1 | 231.7 | 235.0 | 281.7 | 249.4 | 198.9 | 197.7 | 208.8 | 224.0 | 207.3 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 238.3 | 196.7 | 198.7 | 188.5 | 180.0 | 197.3 | 280.3 | 235.5 | 214.4 | 198.3 | 210.0 | 244.0 | 217.4 | 153.5 | 171.7 | 190.1 | 217.5 | 183.2 |
| 30 | Prakash (C) | 246.7 | 188.3 | 207.2 | 212.5 | 188.3 | 202.7 | 259.7 | 213.0 | 214.8 | 220.0 | 210.0 | 254.7 | 228.2 | 173.5 | 164.0 | 183.5 | 206.0 | 181.8 |
| Loc. Mean | | 247.8 | 211.3 | 201.0 | 228.8 | 193.4 | 199.9 | 273.6 | 224.7 | 222.6 | 213.5 | 221.6 | 257.0 | 230.7 | 175.4 | 177.2 | 198.1 | 208.3 | 189.7 |
| C.D. (5%) | | 16.44 | 41.84 | 16.88 | 12.96 | 9.82 | 6.77 | 13.11 | 51.28 | 14.30 | 9.36 | 12.25 | 17.38 | 27.12 | 22.34 | 27.40 | 17.91 | 10.14 | 12.43 |
| C.V. (%) | | 4.06 | 12.11 | 5.14 | 2.77 | 3.11 | 2.07 | 2.93 | 13.96 | 6.52 | 2.68 | 3.38 | 4.14 | 7.19 | 7.79 | 9.46 | 5.53 | 2.98 | 4.66 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Table No. 3 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | | | | | ZN 5 | | OV'L |
|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | ARBH | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | CHHI | UDAI | Mean | Mean |
| 1 | LG-3181 | 201.5 | 195.1 | 167.5 | 212.3 | 195.0 | 195.0 | 209.3 | 186.7 | 141.4 | 150.3 | 185.4 | 283.5 | 127.1 | 146.7 | 190.0 | 186.8 | 204.0 |
| 2 | DMH-63 | 172.5 | 166.8 | 168.8 | 181.3 | 165.0 | 151.7 | 216.0 | 173.0 | 109.4 | 136.7 | 164.1 | 230.9 | 140.5 | 118.3 | 178.3 | 167.0 | 181.6 |
| 3 | DH-264 | 161.5 | 187.5 | 142.4 | 180.7 | 150.7 | 143.3 | 208.3 | 167.7 | 133.4 | 116.3 | 159.2 | 239.2 | 147.1 | 113.3 | 160.0 | 164.9 | 182.6 |
| 4 | DH-265 | 144.0 | 160.1 | 137.2 | 172.7 | 145.7 | 140.0 | 212.7 | 182.3 | 121.8 | 140.7 | 155.7 | 257.5 | 125.4 | 145.0 | 191.7 | 179.9 | 186.3 |
| 5 | FH-3664 | 172.5 | 196.1 | 178.7 | 201.0 | 169.0 | 155.0 | 206.3 | 175.3 | 126.8 | 139.3 | 172.0 | 235.3 | 133.7 | 121.7 | 186.7 | 169.4 | 187.2 |
| 6 | FH-3669 | 189.0 | 182.7 | 162.8 | 182.3 | 177.7 | 160.0 | 215.0 | 177.7 | 126.1 | 138.0 | 171.1 | 264.3 | 118.7 | 126.7 | 190.0 | 174.9 | 190.5 |
| 7 | B-52 | 168.0 | 187.7 | 187.1 | 190.3 | 178.0 | 170.0 | 212.7 | 191.3 | 142.4 | 150.3 | 177.8 | 256.5 | 122.2 | 136.7 | 198.3 | 178.4 | 196.2 |
| 8 | EH-2211 | 164.0 | 167.1 | 165.5 | 180.7 | 174.7 | 138.3 | 201.0 | 178.3 | 132.7 | 104.7 | 160.7 | 257.7 | 123.8 | 130.0 | 190.0 | 175.4 | 185.0 |
| 9 | EH-2214 | 208.0 | 208.5 | 205.4 | 211.3 | 197.7 | 176.7 | 233.3 | 206.7 | 134.3 | 175.7 | 195.8 | 300.5 | 138.7 | 148.3 | 240.0 | 206.9 | 219.9 |
| 10 | EH-2233 | 100.5 | 201.5 | 182.3 | 198.7 | 191.7 | 170.0 | 219.3 | 199.0 | 150.8 | 159.3 | 177.3 | 276.7 | 125.4 | 141.7 | 211.7 | 188.9 | 204.7 |
| 11 | NMH-1258 | 208.0 | 202.1 | 207.3 | 230.3 | 199.7 | 161.7 | 233.7 | 199.0 | 138.6 | 138.0 | 191.8 | 294.9 | 110.3 | 143.3 | 210.0 | 189.6 | 215.0 |
| 12 | CMH 11-579 | 223.0 | 225.6 | 213.8 | 214.0 | 220.0 | 191.7 | 227.3 | 193.0 | 164.5 | 171.3 | 204.4 | 280.0 | 128.8 | 161.7 | 223.3 | 198.5 | 223.9 |
| 13 | CMH 11-595 | 224.0 | 200.3 | 180.1 | 221.0 | 224.0 | 195.0 | 218.7 | 208.7 | 128.7 | 158.0 | 195.8 | 288.7 | 160.3 | 146.7 | 223.3 | 204.8 | 214.5 |
| 14 | CMH 11-611 | 194.5 | 224.3 | 220.4 | 212.3 | 201.3 | 188.3 | 216.0 | 200.7 | 162.5 | 153.3 | 197.4 | 272.2 | 128.8 | 145.0 | 221.7 | 191.9 | 212.1 |
| 15 | CMH 11-626 | 209.0 | 217.9 | 157.0 | 212.0 | 203.3 | 166.7 | 221.3 | 198.0 | 130.7 | 145.3 | 186.1 | 270.3 | 130.5 | 151.7 | 206.7 | 189.8 | 210.2 |
| 16 | CMH 11-629 | 222.0 | 217.9 | 195.5 | 212.3 | 206.7 | 181.7 | 215.3 | 208.0 | 144.2 | 165.0 | 196.9 | 299.1 | 143.7 | 143.3 | 196.7 | 195.7 | 212.5 |
| 17 | BH 411305 | 158.0 | 151.1 | 142.3 | 185.3 | 157.0 | 148.3 | 187.7 | 175.0 | 104.1 | 129.7 | 153.8 | 223.0 | 140.3 | 121.7 | 180.0 | 166.3 | 175.5 |
| 18 | Bio 9720 | 197.5 | 195.7 | 169.2 | 216.0 | 198.0 | 168.3 | 227.3 | 196.0 | 153.6 | 160.3 | 188.2 | 286.7 | 127.2 | 155.0 | 208.3 | 194.3 | 206.0 |
| 19 | GWH-0712 | 175.0 | 172.3 | 168.9 | 185.7 | 150.7 | 156.7 | 202.7 | 179.7 | 116.3 | 128.0 | 163.6 | 250.7 | 125.4 | 116.7 | 148.3 | 160.3 | 189.4 |
| 20 | GWH-0902 | 155.0 | 171.6 | 165.4 | 191.3 | 188.0 | 138.3 | 207.7 | 188.3 | 125.9 | 144.3 | 167.6 | 257.4 | 155.3 | 150.0 | 210.0 | 193.2 | 194.8 |
| 21 | GYH-0653 | 157.5 | 185.9 | 199.4 | 201.7 | 186.0 | 181.7 | 214.0 | 195.3 | 147.0 | 144.3 | 181.3 | 263.6 | 133.7 | 141.7 | 208.3 | 186.8 | 204.8 |
| 22 | JH 31610 | 190.0 | 186.7 | 180.7 | 197.3 | 181.7 | 176.7 | 221.3 | 200.0 | 139.3 | 132.7 | 180.6 | 250.3 | 138.8 | 133.3 | 196.7 | 179.8 | 196.4 |
| 23 | JH 31613 | 154.0 | 165.2 | 173.9 | 192.7 | 164.0 | 141.7 | 210.7 | 189.7 | 139.4 | 135.3 | 166.7 | 232.7 | 140.2 | 123.0 | 198.3 | 173.6 | 187.6 |
| 24 | AH-1261 | 153.5 | 194.7 | 171.4 | 193.0 | 164.7 | 156.7 | 205.3 | 173.7 | 113.9 | 133.3 | 166.0 | 231.4 | 157.1 | 128.3 | 188.3 | 176.3 | 186.8 |
| 25 | AH-1219 | 152.0 | 157.7 | 129.0 | 167.0 | 140.0 | 131.7 | 198.3 | 165.0 | 123.5 | 99.3 | 146.3 | 224.4 | 137.2 | 118.3 | 155.0 | 158.7 | 169.5 |
| 26 | MEH-1-12-13 | 191.0 | 187.9 | 167.1 | 193.3 | 170.7 | 173.3 | 202.7 | 183.7 | 130.3 | 148.7 | 174.9 | 253.4 | 125.6 | 123.3 | 191.7 | 173.5 | 195.1 |
| 27 | HKH 341 | 161.0 | 181.4 | 162.8 | 185.7 | 160.3 | 165.0 | 218.7 | 182.0 | 133.7 | 146.7 | 169.7 | 257.5 | 123.8 | 126.7 | 196.7 | 176.2 | 190.7 |
| 28 | KNMH-4301 | 212.0 | 227.2 | 190.5 | 222.3 | 214.3 | 205.0 | 220.7 | 203.7 | 162.5 | 164.3 | 202.3 | 283.3 | 143.7 | 151.7 | 213.3 | 198.0 | 216.6 |
| CHECKS | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 169.0 | 172.9 | 145.7 | 173.7 | 156.7 | 161.7 | 210.7 | 178.7 | 135.4 | 126.3 | 163.1 | 243.7 | 142.1 | 135.0 | 191.7 | 178.1 | 187.7 |
| 30 | Prakash (C) | 157.5 | 170.4 | 137.3 | 173.0 | 169.3 | 153.3 | 210.7 | 183.0 | 129.5 | 116.0 | 160.0 | 260.8 | 132.2 | 120.0 | 176.7 | 172.4 | 186.9 |
| Loc. Mean | | 178.2 | 188.7 | 172.5 | 196.4 | 180.0 | 164.8 | 213.5 | 188.0 | 134.8 | 141.7 | 175.9 | 260.9 | 134.3 | 135.5 | 196.1 | 181.7 | 197.1 |
| C.D. (5%) | | 33.85 | 25.06 | 35.81 | 16.75 | 11.70 | 24.79 | 13.32 | 14.43 | 22.56 | 24.51 | 10.59 | 18.11 | 25.04 | 17.78 | 17.08 | 19.28 | 6.84 |
| C.V. (%) | | 11.63 | 8.12 | 12.70 | 5.22 | 3.98 | 9.21 | 3.82 | 4.70 | 10.24 | 10.58 | 6.84 | 4.25 | 11.41 | 8.03 | 5.33 | 7.55 | 6.73 |
| 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 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 3 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | |
|--------|------------------|----------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|
| | | ALMO | BAJA | BARA | BERT | DHAU | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean |
| 1 | LG-3181 | 121.7 | 100.0 | 77.7 | 99.0 | 105.0 | 87.7 | 93.0 | 99.1 | 97.9 | 91.7 | 100.0 | 109.0 | 100.2 | 78.8 | 71.7 | 89.0 | 86.5 | 81.5 |
| 2 | DMH-63 | 110.0 | 113.3 | 87.5 | 108.5 | 88.3 | 93.3 | 88.7 | 97.3 | 98.4 | 86.7 | 100.0 | 101.7 | 96.1 | 77.3 | 85.3 | 87.5 | 102.5 | 88.2 |
| 3 | DH-264 | 110.0 | 103.3 | 91.5 | 115.0 | 87.7 | 91.7 | 85.2 | 112.2 | 99.6 | 101.7 | 95.0 | 105.0 | 100.6 | 54.4 | 70.0 | 75.2 | 100.0 | 74.9 |
| 4 | DH-265 | 115.0 | 118.3 | 90.7 | 103.5 | 88.3 | 88.3 | 98.7 | 100.7 | 100.4 | 118.3 | 105.0 | 104.3 | 109.2 | 75.1 | 84.0 | 85.7 | 100.5 | 86.3 |
| 5 | FH-3664 | 106.7 | 93.3 | 97.6 | 120.5 | 68.3 | 86.7 | 99.0 | 99.1 | 96.4 | 100.0 | 123.3 | 97.0 | 106.8 | 70.1 | 94.0 | 82.3 | 85.5 | 83.0 |
| 6 | FH-3669 | 108.3 | 93.3 | 86.2 | 95.5 | 87.3 | 99.0 | 97.7 | 108.0 | 96.9 | 98.3 | 93.3 | 98.3 | 96.7 | 71.2 | 72.3 | 85.1 | 90.0 | 79.7 |
| 7 | B-52 | 126.7 | 91.7 | 105.0 | 107.0 | 83.3 | 103.0 | 114.0 | 100.7 | 103.9 | 101.7 | 108.3 | 115.3 | 108.4 | 83.8 | 91.7 | 88.0 | 112.0 | 93.9 |
| 8 | EH-2211 | 113.3 | 103.3 | 75.7 | 124.0 | 71.7 | 108.7 | 119.7 | 96.8 | 101.6 | 103.3 | 93.3 | 94.7 | 97.1 | 76.0 | 92.7 | 74.0 | 86.5 | 82.3 |
| 9 | EH-2214 | 150.0 | 125.0 | 111.5 | 146.0 | 100.0 | 113.0 | 137.0 | 99.9 | 122.8 | 130.0 | 116.7 | 116.0 | 120.9 | 82.1 | 113.0 | 101.5 | 129.0 | 106.4 |
| 10 | EH-2233 | 141.7 | 121.7 | 100.5 | 124.0 | 98.3 | 87.0 | 134.3 | 103.9 | 113.9 | 113.3 | 118.3 | 117.0 | 116.2 | 79.2 | 101.7 | 109.7 | 114.0 | 101.1 |
| 11 | NMH-1258 | 130.0 | 106.7 | 109.8 | 87.0 | 83.3 | 98.7 | 107.7 | 104.4 | 103.4 | 103.3 | 101.7 | 125.7 | 110.2 | 60.1 | 77.0 | 88.3 | 81.5 | 76.7 |
| 12 | CMH 11-579 | 148.3 | 133.3 | 107.0 | 167.5 | 92.7 | 137.7 | 157.5 | 110.7 | 131.8 | 148.3 | 113.3 | 148.3 | 136.7 | 85.7 | 100.0 | 105.9 | 130.0 | 105.4 |
| 13 | CMH 11-595 | 153.3 | 130.0 | 113.3 | 150.5 | 101.7 | 115.3 | 134.5 | 109.1 | 126.0 | 86.7 | 118.3 | 137.7 | 114.2 | 91.2 | 106.7 | 103.5 | 120.0 | 105.3 |
| 14 | CMH 11-611 | 143.3 | 128.3 | 116.4 | 133.0 | 80.7 | 98.0 | 131.0 | 102.2 | 116.6 | 125.0 | 126.7 | 124.7 | 125.4 | 84.0 | 106.7 | 100.3 | 124.0 | 103.8 |
| 15 | CMH 11-626 | 138.3 | 115.0 | 103.7 | 131.5 | 85.0 | 90.0 | 127.3 | 111.3 | 112.8 | 115.0 | 131.7 | 121.7 | 122.8 | 85.0 | 102.7 | 95.9 | 108.0 | 97.9 |
| 16 | CMH 11-629 | 145.0 | 118.3 | 108.7 | 125.0 | 93.7 | 105.3 | 138.7 | 104.1 | 117.3 | 128.3 | 106.7 | 123.7 | 119.6 | 79.6 | 106.7 | 87.0 | 119.0 | 98.1 |
| 17 | BH 411305 | 101.7 | 93.3 | 92.9 | 106.5 | 75.0 | 88.7 | 102.3 | 92.4 | 94.1 | 135.0 | 91.7 | 110.3 | 112.3 | 74.7 | 83.0 | 79.6 | 104.0 | 85.3 |
| 18 | Bio 9720 | 120.0 | 108.3 | 98.1 | 129.5 | 78.3 | 103.0 | 110.7 | 98.7 | 105.8 | 108.3 | 101.7 | 117.0 | 109.0 | 74.5 | 95.0 | 92.3 | 105.0 | 91.7 |
| 19 | GWH-0712 | 125.0 | 110.0 | 91.1 | 101.0 | 81.7 | 113.0 | 104.3 | 103.9 | 103.8 | 110.0 | 111.7 | 106.3 | 109.3 | 83.5 | 99.7 | 79.7 | 96.5 | 89.9 |
| 20 | GWH-0902 | 123.3 | 120.0 | 98.3 | 129.5 | 68.3 | 113.0 | 130.5 | 104.7 | 111.0 | 116.7 | 90.0 | 118.0 | 108.2 | 99.4 | 111.3 | 95.3 | 100.0 | 101.5 |
| 21 | GYH-0653 | 116.7 | 101.7 | 107.4 | 112.5 | 78.3 | 93.7 | 110.0 | 113.8 | 104.3 | 126.7 | 135.0 | 117.7 | 126.4 | 87.1 | 106.3 | 91.2 | 111.5 | 99.0 |
| 22 | JH 31610 | 110.0 | 118.3 | 97.0 | 115.5 | 72.7 | 91.0 | 107.0 | 96.7 | 101.0 | 101.7 | 93.3 | 107.7 | 100.9 | 74.7 | 90.0 | 90.9 | 89.0 | 86.1 |
| 23 | JH 31613 | 115.0 | 100.0 | 98.0 | 116.0 | 85.0 | 102.7 | 115.7 | 91.4 | 103.0 | 110.0 | 101.7 | 101.7 | 104.4 | 73.0 | 87.3 | 89.9 | 101.5 | 87.9 |
| 24 | AH-1261 | 106.7 | 98.3 | 79.7 | 114.5 | 73.3 | 86.0 | 103.2 | 112.4 | 96.8 | 91.7 | 145.0 | 107.3 | 114.7 | 66.6 | 67.0 | 88.4 | 96.5 | 79.6 |
| 25 | AH-1219 | 100.0 | 80.0 | 89.6 | 103.0 | 76.7 | 91.0 | 92.0 | 103.2 | 91.9 | 88.3 | 95.0 | 94.7 | 92.7 | 71.0 | 81.7 | 79.9 | 89.0 | 80.4 |
| 26 | MEH-1-12-13 | 140.0 | 125.0 | 111.6 | 137.5 | 105.0 | 130.7 | 123.7 | 112.5 | 123.2 | 108.3 | 103.3 | 118.0 | 109.9 | 88.5 | 95.0 | 99.5 | 111.5 | 98.6 |
| 27 | HKH 341 | 130.0 | 116.7 | 102.8 | 124.5 | 90.0 | 100.7 | 114.3 | 102.7 | 110.2 | 118.3 | 90.0 | 109.7 | 106.0 | 76.4 | 99.3 | 93.6 | 104.0 | 93.3 |
| 28 | KNMH-4301 | 140.0 | 116.7 | 124.5 | 145.0 | 75.0 | 113.7 | 126.6 | 107.7 | 118.7 | 128.3 | 110.0 | 122.3 | 120.2 | 93.0 | 98.0 | 92.0 | 147.5 | 107.6 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 116.7 | 101.7 | 93.9 | 94.0 | 85.0 | 102.3 | 115.7 | 106.3 | 101.9 | 100.0 | 105.0 | 105.3 | 103.4 | 67.0 | 95.0 | 89.5 | 110.5 | 90.5 |
| 30 | Prakash (C) | 125.0 | 100.0 | 106.3 | 115.0 | 86.7 | 97.3 | 119.3 | 93.0 | 105.3 | 113.3 | 115.0 | 111.7 | 113.3 | 80.5 | 100.0 | 87.9 | 102.5 | 92.7 |
| | Loc. Mean | 124.4 | 109.5 | 99.1 | 119.4 | 84.9 | 101.0 | 114.6 | 103.3 | 107.0 | 110.3 | 108.0 | 112.9 | 110.4 | 78.1 | 92.8 | 90.3 | 105.3 | 91.6 |
| | C.D. (5%) | 12.90 | 20.82 | 17.16 | 10.68 | 10.21 | 5.19 | 15.93 | 19.73 | 9.49 | 5.61 | 12.46 | 16.10 | 19.03 | 15.87 | 21.87 | 11.17 | 14.34 | 10.97 |
| | C.V. (%) | 6.34 | 11.63 | 10.59 | 4.37 | 7.36 | 3.15 | 8.50 | 11.69 | 8.99 | 3.11 | 7.06 | 8.72 | 10.55 | 12.43 | 14.42 | 7.57 | 8.34 | 8.52 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : DHARWAD UAS 20.3%: BANSAWARA 20.6%

BR140

Table No. 3 (Continu

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | DHAR | HYDE | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | CHHI | UDAI | Mean | Mean |
| 1 | LG-3181 | 87.5 | 87.0 | 63.6 | 71.0 | 38.3 | 108.3 | 72.3 | 60.8 | 62.7 | 73.5 | 91.6 | 58.7 | 48.3 | 86.7 | 75.5 | 85.6 |
| 2 | DMH-63 | 87.0 | 91.4 | 76.0 | 68.0 | 40.0 | 111.3 | 92.3 | 56.0 | 63.7 | 76.2 | 83.9 | 67.1 | 55.0 | 90.0 | 76.3 | 87.2 |
| 3 | DH-264 | 75.0 | 95.2 | 75.5 | 65.3 | 40.0 | 104.3 | 81.0 | 63.9 | 48.3 | 71.6 | 79.5 | 77.1 | 46.7 | 91.7 | 72.6 | 84.2 |
| 4 | DH-265 | 66.0 | 85.2 | 57.0 | 64.0 | 36.7 | 106.3 | 81.0 | 59.5 | 62.0 | 70.1 | 94.6 | 55.4 | 41.7 | 100.0 | 78.8 | 87.4 |
| 5 | FH-3664 | 86.0 | 95.9 | 86.2 | 75.3 | 38.3 | 102.7 | 81.3 | 61.1 | 64.7 | 75.7 | 90.1 | 67.1 | 43.3 | 81.7 | 71.7 | 86.3 |
| 6 | FH-3669 | 92.0 | 89.1 | 56.2 | 69.3 | 40.0 | 105.3 | 78.7 | 67.5 | 48.7 | 73.8 | 98.2 | 57.1 | 48.3 | 85.0 | 77.2 | 84.8 |
| 7 | B-52 | 76.5 | 94.4 | 93.7 | 81.0 | 51.7 | 109.7 | 101.3 | 65.9 | 70.7 | 81.4 | 98.9 | 83.8 | 58.3 | 106.7 | 88.0 | 94.1 |
| 8 | EH-2211 | 76.0 | 86.1 | 74.9 | 63.0 | 38.3 | 100.0 | 86.3 | 66.1 | 43.0 | 69.9 | 83.6 | 52.2 | 50.0 | 83.3 | 72.3 | 85.0 |
| 9 | EH-2214 | 101.0 | 113.5 | 93.9 | 96.0 | 48.3 | 120.0 | 109.0 | 67.7 | 91.0 | 93.3 | 125.4 | 72.1 | 65.0 | 120.0 | 103.5 | 108.8 |
| 10 | EH-2233 | 96.5 | 109.5 | 86.3 | 80.7 | 45.0 | 109.0 | 103.7 | 69.8 | 82.0 | 87.0 | 109.9 | 52.1 | 66.7 | 108.3 | 95.0 | 101.8 |
| 11 | NMH-1258 | 83.5 | 102.7 | 76.4 | 77.3 | 36.7 | 117.0 | 89.7 | 64.3 | 55.3 | 78.3 | 104.4 | 45.4 | 58.3 | 75.0 | 79.2 | 89.6 |
| 12 | CMH 11-579 | 113.0 | 118.7 | 108.8 | 97.3 | 65.0 | 114.0 | 118.0 | 84.1 | 89.7 | 100.0 | 133.5 | 53.9 | 68.3 | 118.3 | 106.7 | 115.6 |
| 13 | CMH 11-595 | 105.5 | 108.5 | 86.1 | 89.0 | 61.7 | 115.3 | 107.7 | 67.8 | 80.3 | 92.0 | 120.7 | 80.3 | 58.3 | 115.0 | 98.0 | 107.8 |
| 14 | CMH 11-611 | 93.0 | 113.9 | 95.9 | 83.3 | 55.0 | 114.0 | 108.3 | 78.7 | 74.0 | 90.0 | 113.9 | 63.8 | 63.3 | 118.3 | 98.5 | 105.4 |
| 15 | CMH 11-626 | 92.5 | 116.3 | 87.2 | 80.3 | 50.0 | 116.7 | 106.0 | 70.9 | 65.3 | 87.3 | 110.3 | 60.5 | 68.3 | 101.7 | 93.4 | 101.6 |
| 16 | CMH 11-629 | 112.5 | 111.3 | 85.5 | 81.0 | 55.0 | 106.3 | 117.7 | 76.9 | 84.0 | 93.1 | 130.3 | 62.0 | 51.7 | 96.7 | 92.9 | 104.3 |
| 17 | BH 411305 | 86.5 | 92.2 | 67.0 | 74.7 | 41.7 | 97.0 | 92.0 | 59.1 | 59.3 | 75.3 | 93.7 | 67.3 | 60.0 | 86.7 | 80.1 | 87.5 |
| 18 | Bio 9720 | 90.0 | 97.9 | 71.6 | 81.3 | 45.0 | 115.7 | 102.0 | 77.3 | 86.3 | 86.9 | 106.9 | 55.3 | 70.0 | 91.7 | 89.5 | 96.3 |
| 19 | GWH-0712 | 84.5 | 91.1 | 65.6 | 74.3 | 53.3 | 103.0 | 87.7 | 61.3 | 69.0 | 78.0 | 97.5 | 53.6 | 50.0 | 61.7 | 69.7 | 90.4 |
| 20 | GWH-0902 | 70.5 | 94.1 | 79.3 | 73.7 | 41.7 | 107.3 | 95.0 | 68.4 | 63.0 | 76.7 | 104.7 | 77.0 | 63.3 | 123.3 | 97.1 | 97.1 |
| 21 | GYH-0653 | 93.0 | 98.3 | 108.8 | 81.0 | 51.7 | 111.0 | 95.3 | 74.0 | 73.7 | 84.7 | 102.1 | 73.7 | 50.0 | 111.7 | 87.9 | 98.1 |
| 22 | JH 31610 | 96.5 | 96.7 | 84.0 | 79.3 | 53.3 | 111.0 | 95.0 | 70.7 | 62.3 | 83.1 | 92.3 | 58.9 | 58.3 | 88.3 | 79.6 | 90.7 |
| 23 | JH 31613 | 78.5 | 88.3 | 88.4 | 79.0 | 41.7 | 103.3 | 98.3 | 69.9 | 66.0 | 78.1 | 86.5 | 67.1 | 50.0 | 98.3 | 78.3 | 90.3 |
| 24 | AH-1261 | 67.5 | 95.4 | 78.8 | 73.7 | 45.0 | 104.3 | 80.7 | 56.9 | 57.0 | 72.6 | 85.3 | 70.5 | 61.7 | 98.3 | 81.8 | 87.0 |
| 25 | AH-1219 | 74.0 | 78.5 | 64.6 | 61.7 | 38.3 | 106.7 | 77.0 | 62.8 | 50.0 | 68.6 | 89.6 | 62.0 | 53.3 | 68.3 | 70.4 | 80.6 |
| 26 | MEH-1-12-13 | 102.5 | 106.8 | 97.0 | 88.3 | 61.7 | 106.0 | 106.0 | 73.5 | 71.7 | 89.6 | 112.2 | 50.3 | 60.0 | 110.0 | 94.1 | 104.2 |
| 27 | HKH 341 | 82.5 | 99.1 | 89.5 | 78.7 | 50.0 | 112.0 | 96.3 | 65.9 | 71.3 | 82.0 | 107.2 | 62.1 | 56.7 | 103.3 | 89.1 | 96.0 |
| 28 | KNMH-4301 | 94.0 | 111.8 | 86.1 | 79.7 | 60.0 | 112.3 | 99.0 | 76.1 | 76.0 | 88.6 | 110.8 | 80.2 | 60.0 | 118.3 | 96.4 | 105.3 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 29 | PMH 5 (C) | 79.5 | 86.1 | 73.8 | 64.3 | 48.3 | 107.3 | 90.0 | 68.9 | 52.0 | 74.6 | 87.3 | 48.9 | 56.7 | 91.7 | 78.5 | 89.2 |
| 30 | Prakash (C) | 73.5 | 95.9 | 65.5 | 67.0 | 43.3 | 109.3 | 94.0 | 70.7 | 56.0 | 76.2 | 111.2 | 67.0 | 40.0 | 86.7 | 79.3 | 92.3 |
| Loc. Mean | | 87.2 | 98.4 | 80.8 | 76.6 | 47.2 | 108.9 | 94.8 | 67.9 | 66.6 | 80.9 | 101.9 | 63.4 | 56.1 | 97.2 | 85.0 | 94.5 |
| C.D. (5%) | | 10.23 | 14.25 | 26.84 | 11.19 | 13.02 | 9.98 | 11.32 | 11.65 | 17.59 | 5.89 | 11.36 | 21.36 | 10.42 | 15.84 | 15.66 | 4.69 |
| C.V. (%) | | 7.18 | 8.86 | 20.33 | 8.93 | 16.88 | 5.61 | 7.31 | 10.50 | 16.15 | 7.38 | 6.83 | 20.61 | 11.37 | 9.97 | 11.27 | 9.11 |
| F (Prob) | | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : DHARWAD UAS 20.3%: BANSAWARA 20.6%

TABLE No. 4: PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, BERTIN, KANGRA, POONCH, UDHAMPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, DHARWAD UAS, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, SMFPATENCHERU, VRDCD DHARWAD, VAGARAI, AMBIKAPUR, BANSAWARA, CHHINDWARA, JHABUA, UDAIPUR IN IVT TRIAL No. TR64(IVT-EX) DURING RABI/KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------------|-------------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|--|--|--|
| | | ZN 1 | | | | | | | | | | | | | | ZN 2 | | | | | | | ZN 3 | | | | | | | | | | | | | | | | | |
| | | ALMO | R | BAJA | R | BARA | R | BERT | R | KANG | R | POON | R | UDHA | R | MEAN | R | KARN | R | LUDH | R | PANT | R | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R | ARBH | R | | | |
| 1 | DH-266 | 6175 | 13 | 8910 | 9 | 3605 | 6 | 6570 | 11 | 3309 | 5 | 4416 | 3 | 5677 | 7 | 5523 | 11 | 4256 | 11 | 8314 | 1 | 6992 | 8 | 6521 | 5 | 4132 | 7 | 3956 | 13 | 5543 | 13 | 4208 | 6 | 4460 | 12 | 8383 | 9 | | | |
| 2 | DH-267 | 6965 | 11 | 8299 | 11 | 4059 | 3 | 6433 | 12 | 3943 | 2 | 2727 | 11 | 5023 | 11 | 5350 | 12 | 3536 | 13 | 5062 | 11 | 6742 | 10 | 5113 | 13 | 4037 | 8 | 4228 | 11 | 6821 | 5 | 4444 | 5 | 4883 | 8 | 8640 | 8 | | | |
| 3 | DH-268 | 7027 | 10 | 9341 | 6 | 2989 | 10 | 7635 | 9 | 3785 | 3 | 3507 | 6 | 4929 | 12 | 5602 | 9 | 4937 | 7 | 6002 | 7 | 6910 | 9 | 5949 | 8 | 4133 | 6 | 4696 | 10 | 5881 | 8 | 2413 | 13 | 4281 | 13 | 8204 | 10 | | | |
| 4 | FH-3641 | 10140 | 1 | 12112 | 2 | 4223 | 2 | 9395 | 3 | 2653 | 13 | 4651 | 2 | 5990 | 5 | 7023 | 1 | 5104 | 5 | 6602 | 5 | 7966 | 6 | 6557 | 4 | 6949 | 1 | 5758 | 1 | 9253 | 1 | 5060 | 4 | 6755 | 1 | 10540 | 2 | | | |
| 5 | KH-7502 | 9640 | 2 | 12150 | 1 | 3819 | 5 | 9143 | 4 | 4302 | 1 | 3413 | 8 | 6251 | 3 | 6960 | 2 | 6149 | 1 | 7082 | 4 | 9332 | 1 | 7521 | 1 | 4006 | 10 | 5010 | 6 | 8556 | 2 | 5085 | 3 | 5664 | 3 | 10361 | 3 | | | |
| 6 | DH-269 | 6524 | 12 | 8291 | 12 | 3006 | 9 | 8584 | 7 | 3147 | 6 | 3937 | 5 | 5272 | 9 | 5537 | 10 | 5215 | 2 | 4162 | 13 | 6166 | 12 | 5181 | 12 | 3860 | 13 | 4874 | 8 | 6506 | 7 | 3084 | 12 | 4581 | 11 | 6904 | 13 | | | |
| 7 | DH-270 | 8506 | 8 | 7850 | 13 | 2751 | 12 | 8300 | 8 | 2809 | 11 | 3949 | 4 | 6018 | 4 | 5740 | 7 | 4615 | 9 | 5074 | 10 | 5918 | 13 | 5202 | 11 | 3925 | 12 | 4699 | 9 | 5844 | 9 | 4059 | 8 | 4632 | 10 | 7859 | 11 | | | |
| 8 | DH-271 | 7807 | 9 | 8838 | 10 | 3436 | 7 | - | 2995 | 9 | 2350 | 13 | 5684 | 6 | 5185 | 13 | 5079 | 6 | 4883 | 12 | 7196 | 7 | 5719 | 10 | 5180 | 3 | 4031 | 12 | 5666 | 11 | 3864 | 9 | 4685 | 9 | 7651 | 12 | | | | |
| 9 | AH-1212 | 8932 | 7 | 9378 | 5 | 3290 | 8 | 9094 | 5 | 3441 | 4 | 3470 | 7 | 4610 | 13 | 6031 | 6 | 4184 | 12 | 5551 | 9 | 8351 | 4 | 6029 | 7 | 6726 | 2 | 5550 | 3 | 5658 | 12 | 5893 | 1 | 5957 | 2 | 9307 | 6 | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 9176 | 5 | 9712 | 3 | 2754 | 11 | 8602 | 6 | 2991 | 10 | 3386 | 9 | 6614 | 1 | 6177 | 5 | 4527 | 10 | 6578 | 6 | 6430 | 11 | 5845 | 9 | 4728 | 4 | 5388 | 4 | 7290 | 4 | 4131 | 7 | 5384 | 4 | 9582 | 5 | | | |
| 11 | Vivek Hybrid 9 | 8948 | 6 | 9457 | 4 | 4018 | 4 | 10170 | 2 | 2776 | 12 | 5267 | 1 | 5075 | 10 | 6530 | 4 | 5162 | 3 | 5784 | 8 | 8491 | 3 | 6479 | 6 | 4022 | 9 | 4956 | 7 | 8196 | 3 | 3292 | 11 | 5117 | 6 | 11327 | 1 | | | |
| 12 | Vivek Hybrid 21 | 9504 | 3 | 9176 | 8 | 2558 | 13 | 7559 | 10 | 3107 | 7 | 2587 | 12 | 5481 | 8 | 5710 | 8 | 5139 | 4 | 7477 | 2 | 8198 | 5 | 6938 | 2 | 4308 | 5 | 5597 | 2 | 6649 | 6 | 3435 | 10 | 4997 | 7 | 9262 | 7 | | | |
| 13 | Vivek Hybrid 43 | 9297 | 4 | 9282 | 7 | 4697 | 1 | 10438 | 1 | 3059 | 8 | 3124 | 10 | 6316 | 2 | 6602 | 3 | 4669 | 8 | 7189 | 3 | 8565 | 2 | 6808 | 3 | 3986 | 11 | 5343 | 5 | 5814 | 10 | 5618 | 2 | 5190 | 5 | 9607 | 4 | | | |
| Location Mean | | 8357 | 9446 | 3477 | 8494 | 3255 | 3599 | 5611 | 6034 | 4813 | 6135 | 7481 | 6143 | 4615 | 4930 | 6744 | 4199 | 5122 | 9048 | | | | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 1035 | 1221 | 1599 | 1395 | 265 | 810 | 401 | 961 | 874 | 1281 | 2091 | 1415 | 938 | 1278 | 3197 | 711 | 1531 | 1060 | | | | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 7.33 | 7.66 | 27.22 | 7.37 | 4.81 | 13.33 | 4.23 | - | 10.75 | 12.37 | 16.54 | - | 12.04 | 15.35 | 21.54 | 10.02 | - | 6.94 | | | | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | 0 | 0.185 | 0.001 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0.177 | 0.186 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 3.6 | 3.6 | 4.5 | 2.4 | 2.4 | 4.8 | 4.8 | - | 6 | 5.46 | 6 | - | 4.8 | 4 | 5.6 | 4.8 | - | 6 | | | | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 3-07 | 27-06 | 17-06 | 22-06 | 23-06 | 19-06 | 24-06 | - | 29-06 | 22-06 | 4-08 | - | 1-07 | 3-07 | 1-07 | 25-06 | - | 2-07 | | | | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 4-11 | 14-10 | 4-10 | 25-10 | 23-09 | 2-10 | 23-09 | - | 10-10 | 10-10 | 20-11 | - | 27-09 | 25-10 | 8-10 | 22-09 | - | 9-11 | | | | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | - | 3 | - | - | - | - | - | - | 6 | 4 | 1 | - | - | 3 | - | - | - | 6 | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 80 | 120 | 80 | 120 | 120 | 80 | 120 | - | 150 | 88 | 120 | - | 120 | 120 | 120 | 120 | - | 150 | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | - | 60 | 30 | 60 | - | 60 | 60 | 60 | 60 | - | 60 | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | 40 | 40 | 40 | 40 | 40 | 40 | - | 60 | 20 | 40 | - | 40 | 40 | 40 | 40 | - | 60 | | | | | | | | | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

BR142

TABLE No. 4: (Cont...)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | | | | | | | | ZN 5 | | OVL | | | | | | | | | | | | | |
|----------------------|-----------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|--|--|
| | | COIM | R | DHAR | R | HYDE | R | KARI | R | KOLH | R | MAND | R | SMFP | R | VAGA | R | VRDC | R | MEAN | R | AMBI | R | BANS | R | CHHI | R | JHAB | R | UDAI | R | MEAN | R | MEAN | R | | |
| 1 | DH-266 | 5987 | 9 | 6124 | 6 | 6261 | 11 | 4425 | 8 | 4971 | 13 | 5731 | 13 | 5925 | 13 | 3723 | 5 | 1838 | 11 | 5516 | 11 | 4432 | 6 | 2869 | 4 | 1563 | 10 | 5558 | 5 | 4510 | 5 | 3786 | 4 | 5166 | 9 | | |
| 2 | DH-267 | 6872 | 5 | 5097 | 8 | 6992 | 9 | 5563 | 5 | 5029 | 12 | 6654 | 7 | 6495 | 11 | 3232 | 8 | 2147 | 5 | 5943 | 9 | 4012 | 11 | 1978 | 11 | 2214 | 5 | 5358 | 8 | 4331 | 6 | 3579 | 8 | 5132 | 10 | | |
| 3 | DH-268 | 5720 | 11 | 4157 | 13 | 6136 | 12 | 3262 | 12 | 5442 | 10 | 6463 | 8 | 6521 | 10 | 2967 | 10 | 2211 | 4 | 5346 | 13 | 4961 | 4 | 2782 | 5 | 1401 | 13 | 4697 | 13 | 4143 | 7 | 3597 | 7 | 5010 | 11 | | |
| 4 | FH-3641 | 5714 | 12 | 6131 | 5 | 8145 | 4 | 5645 | 4 | 7577 | 4 | 9096 | 2 | 8225 | 5 | 3222 | 9 | 2083 | 6 | 7017 | 2 | 7075 | 1 | 3291 | 1 | 3039 | 1 | 5516 | 6 | 5619 | 3 | 4908 | 1 | 6555 | 2 | | |
| 5 | KH-7502 | 9216 | 1 | 7276 | 2 | 8478 | 3 | 5690 | 3 | 8033 | 3 | 8916 | 3 | 9648 | 1 | 2713 | 13 | 1851 | 10 | 7719 | 1 | 5701 | 3 | 3020 | 3 | 2204 | 6 | 5735 | 4 | 6588 | 1 | 4650 | 2 | 6666 | 1 | | |
| 6 | DH-269 | 5816 | 10 | 6740 | 3 | 7038 | 8 | 2995 | 13 | 5429 | 11 | 6114 | 10 | 6950 | 9 | 3364 | 7 | 1983 | 8 | 5552 | 10 | 4328 | 8 | 2353 | 6 | 1427 | 12 | 5389 | 7 | 3396 | 10 | 3379 | 11 | 4982 | 12 | | |
| 7 | DH-270 | 6256 | 8 | 4615 | 12 | 6079 | 13 | 3716 | 9 | 5807 | 9 | 5763 | 12 | 7029 | 8 | 3948 | 3 | 1646 | 13 | 5419 | 12 | 4116 | 10 | 1950 | 12 | 2047 | 8 | 5202 | 12 | 3026 | 11 | 3268 | 12 | 4979 | 13 | | |
| 8 | DH-271 | 6629 | 6 | 4788 | 10 | 7868 | 6 | 4907 | 6 | 8565 | 1 | 6350 | 9 | 7679 | 7 | 3651 | 6 | 3095 | 1 | 6392 | 7 | 3430 | 12 | 2211 | 7 | 2163 | 7 | 5237 | 11 | 2338 | 13 | 3076 | 13 | 5182 | 8 | | |
| 9 | AH-1212 | 6965 | 3 | 5645 | 7 | 8991 | 1 | 6518 | 2 | 8311 | 2 | 5963 | 11 | 6468 | 12 | 4133 | 1 | 1651 | 12 | 6647 | 5 | 5910 | 2 | 2181 | 8 | 2665 | 2 | 6225 | 2 | 4722 | 4 | 4340 | 3 | 5916 | 5 | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 6607 | 7 | 6254 | 4 | 6559 | 10 | 3356 | 11 | 7283 | 5 | 7382 | 5 | 8707 | 3 | 3811 | 4 | 2073 | 7 | 6422 | 6 | 4751 | 5 | 3202 | 2 | 1908 | 9 | 5259 | 10 | 2504 | 12 | 3525 | 10 | 5633 | 6 | | |
| 11 | Vivek Hybrid 9 | 6961 | 4 | 7573 | 1 | 7336 | 7 | 6645 | 1 | 6496 | 7 | 6764 | 6 | 8043 | 6 | 4052 | 2 | 1970 | 9 | 7013 | 3 | 4330 | 7 | 2080 | 10 | 1475 | 11 | 6254 | 1 | 3926 | 8 | 3613 | 6 | 5957 | 4 | | |
| 12 | Vivek Hybrid 21 | 5633 | 13 | 4794 | 9 | 7901 | 5 | 3469 | 10 | 5822 | 8 | 9118 | 1 | 8989 | 2 | 2732 | 12 | 2305 | 3 | 6366 | 8 | 4116 | 9 | 2095 | 9 | 2476 | 4 | 6199 | 3 | 3493 | 9 | 3676 | 5 | 5587 | 7 | | |
| 13 | Vivek Hybrid 43 | 7023 | 2 | 4763 | 11 | 8887 | 2 | 4832 | 7 | 6926 | 6 | 8660 | 4 | 8668 | 4 | 2788 | 11 | 2469 | 2 | 6871 | 4 | 2375 | 13 | 1502 | 13 | 2595 | 3 | 5283 | 9 | 5872 | 2 | 3525 | 9 | 5959 | 3 | | |
| Location Mean | | 6569 | 5689 | 7436 | 4694 | 6591 | 7152 | 7642 | 3410 | 2102 | 6325 | 4580 | 2424 | 2090 | 5532 | 4190 | 3763 | 5603 | | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 897 | 2081 | 1648 | 431 | 1915 | 902 | 1357 | 2069 | 775 | 1230 | 1272 | 601 | 582 | 201 | 996 | 730 | 1136 | | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 8.09 | 21.66 | 13.12 | 5.44 | 17.2 | 7.47 | 10.52 | 35.91 | 21.83 | - | 16.45 | 14.69 | 16.47 | 2.15 | 14.07 | - | - | | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | 0.024 | 0.006 | 0 | 0.002 | 0 | 0 | 0.828 | 0.232 | | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 4.8 | 4.8 | 6 | 6 | 6 | 5.6 | 6 | 4.8 | 4.8 | - | 6 | 6 | 6 | 4.5 | 4.8 | - | - | | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 9-07 | 3-07 | 24-06 | 5-07 | 28-06 | 27-07 | 26-06 | 8-07 | 15-07 | - | 4-07 | 3-07 | 10-07 | 24-06 | 1-07 | - | - | | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 30-10 | 20-11 | 19-10 | 30-10 | 14-11 | 14-12 | 29-10 | 10-10 | 15-11 | - | - | 10-10 | 16-11 | 6-10 | 17-10 | - | - | | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | 10 | - | 2 | - | - | 8 | - | 9 | 2 | - | - | - | - | - | 2 | - | - | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 150 | 150 | 200 | 200 | 120 | 150 | - | 150 | 150 | - | 120 | 150 | 120 | 100 | 90 | - | - | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 75 | 75 | 60 | 60 | 60 | 75 | - | 75 | 75 | - | 60 | 80 | 60 | 60 | 60 | - | - | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 75 | 37.5 | 50 | 60 | 40 | 40 | - | 75 | 37.5 | - | 40 | - | 40 | 40 | - | - | | | | | | | | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

TABLE No. 4 (Cont.)

| SI No PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9 | | | | | | | | | | | | | | | | | | |
|--------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | | | |
| | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | |
| 1 DH-266 | - | - | 30.9 | - | 10.6 | 30.4 | - | - | - | 26.4 | 8.7 | 11.6 | - | - | - | 1.9 | - | - | |
| 2 DH-267 | - | - | 47.4 | - | 31.8 | - | - | - | - | - | 4.9 | - | - | - | - | 7.6 | - | - | |
| 3 DH-268 | - | - | 8.6 | - | 26.5 | 3.6 | - | - | 9.1 | - | 7.5 | 1.8 | - | - | - | - | - | - | |
| 4 FH-3641 | 10.5 | 24.7 | 53.3 | 9.2 | - | 37.4 | - | 13.7 | 12.7 | 0.4 | 23.9 | 12.2 | 47 | 6.9 | 26.9 | 22.5 | 25.5 | 10 | |
| 5 KH-7502 | 5.1 | 25.1 | 38.7 | 6.3 | 43.8 | 0.8 | - | 12.7 | 35.8 | 7.7 | 45.1 | 28.7 | - | - | 17.4 | 23.1 | 5.2 | 8.1 | |
| 6 DH-269 | - | - | 9.2 | - | 5.2 | 16.3 | - | - | 15.2 | - | - | - | - | - | - | - | - | - | |
| 7 DH-270 | - | - | - | - | - | 16.6 | - | - | 1.9 | - | - | - | - | - | - | - | - | - | |
| 8 DH-271 | - | - | 24.8 | - | 0.1 | - | - | - | 12.2 | - | 11.9 | - | 9.6 | - | - | - | - | - | |
| 9 AH-1212 | - | - | 19.5 | 5.7 | 15 | 2.5 | - | - | - | - | 29.9 | 3.1 | 42.3 | 3 | - | 42.7 | 10.6 | - | |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 Vivek QPM 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11 Vivek Hybrid 9 | - | - | 45.9 | 18.2 | - | 55.6 | - | 5.7 | 14 | - | 32.1 | 10.9 | - | - | 12.4 | - | - | 18.2 | |
| 12 Vivek Hybrid 21 | 3.6 | - | - | - | 3.9 | - | - | - | 13.5 | 13.7 | 27.5 | 18.7 | - | 3.9 | - | - | - | - | |
| 13 Vivek Hybrid 43 | 1.3 | - | 70.6 | 21.3 | 2.3 | - | - | 6.9 | 3.1 | 9.3 | 33.2 | 16.5 | - | - | - | 36 | - | 0.3 | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

BR144

TABLE No. 4 (Cont..)

| Sl No | PEDIGREE | ZN 4 | | | | | | | | | | | | | | ZN 5 | OV'L | |
|----------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| | | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | CHHI | JHAB | UDAI | MEAN | MEAN |
| 1 | DH-266 | - | - | - | 31.9 | - | - | - | - | - | - | - | - | - | 5.7 | 80.1 | 7.4 | - |
| 2 | DH-267 | 4 | - | 6.6 | 65.8 | - | - | - | - | 3.6 | - | - | - | 16 | 1.9 | 73 | 1.5 | - |
| 3 | DH-268 | - | - | - | - | - | - | - | - | 6.7 | - | 4.4 | - | - | - | 65.5 | 2 | - |
| 4 | FH-3641 | - | - | 24.2 | 68.2 | 4 | 23.2 | - | - | 0.5 | 9.3 | 48.9 | 2.8 | 59.3 | 4.9 | 124.4 | 39.3 | 16.4 |
| 5 | KH-7502 | 39.5 | 16.3 | 29.3 | 69.6 | 10.3 | 20.8 | 10.8 | - | - | 20.2 | 20 | - | 15.5 | 9.1 | 163.1 | 31.9 | 18.3 |
| 6 | DH-269 | - | 7.8 | 7.3 | - | - | - | - | - | - | - | - | - | - | 2.5 | 35.6 | - | - |
| 7 | DH-270 | - | - | - | 10.7 | - | - | - | 3.6 | - | - | - | - | 7.3 | - | 20.9 | - | - |
| 8 | DH-271 | 0.3 | - | 20 | 46.2 | 17.6 | - | - | - | 49.3 | - | - | - | 13.3 | - | - | - | - |
| 9 | AH-1212 | 5.4 | - | 37.1 | 94.2 | 14.1 | - | - | 8.4 | - | 3.5 | 24.4 | - | 39.7 | 18.4 | 88.6 | 23.1 | 5 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | Vivek Hybrid 9 | 5.4 | 21.1 | 11.9 | 98 | - | - | - | 6.3 | - | 9.2 | - | - | - | 18.9 | 56.8 | 2.5 | 5.7 |
| 12 | Vivek Hybrid 21 | - | - | 20.5 | 3.4 | - | 23.5 | 3.2 | - | 11.2 | - | - | - | 29.8 | 17.9 | 39.5 | 4.3 | - |
| 13 | Vivek Hybrid 43 | 6.3 | - | 35.5 | 44 | - | 17.3 | - | - | 19.1 | 7 | - | - | 36 | 0.5 | 134.5 | 0 | 5.8 |

TABLE No. 4 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9 | | | | | | | | | | | | | | | | | | |
|----------|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | |
| | | | | | | | | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM | |
| 1 | DH-266 | - | - | - | - | 19.2 | - | 11.8 | - | - | 43.7 | - | 0.6 | 2.7 | - | - | 27.8 | - | - | - |
| 2 | DH-267 | - | - | 1 | - | 42 | - | - | - | - | - | - | - | 0.4 | - | - | 35 | - | - | - |
| 3 | DH-268 | - | - | - | - | 36.3 | - | - | - | - | 3.8 | - | - | 2.8 | - | - | - | - | - | - |
| 4 | FH-3641 | 13.3 | 28.1 | 5.1 | - | - | - | 18 | 7.6 | - | 14.1 | - | 1.2 | 72.8 | 16.2 | 12.9 | 53.7 | 32 | - | - |
| 5 | KH-7502 | 7.7 | 28.5 | - | - | 54.9 | - | 23.2 | 6.6 | 19.1 | 22.4 | 9.9 | 16.1 | - | 1.1 | 4.4 | 54.4 | 10.7 | - | 32.4 |
| 6 | DH-269 | - | - | - | - | 13.3 | - | 3.9 | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 7 | DH-270 | - | - | - | - | 1.2 | - | 18.6 | - | - | - | - | - | - | - | - | 23.3 | - | - | - |
| 8 | DH-271 | - | - | - | - | 7.9 | - | 12 | - | - | - | - | - | 28.8 | - | - | 17.4 | - | - | - |
| 9 | AH-1212 | - | - | - | - | 23.9 | - | - | - | - | - | - | - | 67.2 | 12 | - | 79 | 16.4 | - | 0.1 |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 2.5 | 2.7 | - | - | 7.7 | - | 30.3 | - | - | 13.7 | - | - | 17.5 | 8.7 | - | 25.5 | 5.2 | - | - |
| 11 | Vivek Hybrid 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Vivek Hybrid 21 | 6.2 | - | - | - | 11.9 | - | 8 | - | - | 29.3 | - | 7.1 | 7.1 | 12.9 | - | 4.3 | - | - | - |
| 13 | Vivek Hybrid 43 | 3.9 | - | 16.9 | 2.6 | 10.2 | - | 24.4 | 1.1 | - | 24.3 | 0.9 | 5.1 | - | 7.8 | - | 70.6 | 1.4 | - | 0.9 |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

BR146

TABLE No. 4 (Cont..)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | ZN 5 | OV'L | |
|----------|-----------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| | | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | CHHI | JHAB | UDAI | MEAN | MEAN |
| 1 | DH-266 | - | - | - | - | - | - | - | - | - | 2.4 | 37.9 | 5.9 | - | 14.9 | 4.8 | - |
| 2 | DH-267 | - | - | - | - | - | - | - | 9 | - | - | - | 50.1 | - | 10.3 | - | - |
| 3 | DH-268 | - | - | - | - | - | - | - | 12.3 | - | 14.6 | 33.7 | - | - | 5.5 | - | - |
| 4 | FH-3641 | - | 11 | - | 16.6 | 34.5 | 2.3 | - | 5.8 | 0.1 | 63.4 | 58.2 | 105.9 | - | 43.1 | 35.8 | 10 |
| 5 | KH-7502 | - | 15.6 | - | 23.7 | 31.8 | 20 | - | - | 10.1 | 31.7 | 45.2 | 49.4 | - | 67.8 | 28.7 | 11.9 |
| 6 | DH-269 | - | - | - | - | - | - | - | 0.7 | - | - | 13.1 | - | - | - | - | - |
| 7 | DH-270 | - | - | - | - | - | - | - | - | - | - | - | 38.7 | - | - | - | - |
| 8 | DH-271 | - | 7.2 | - | 31.9 | - | - | - | 57.1 | - | - | 6.3 | 46.6 | - | - | - | - |
| 9 | AH-1212 | - | 22.6 | - | 28 | - | - | 2 | - | - | 36.5 | 4.8 | 80.6 | - | 20.3 | 20.1 | - |
| | CHECKS | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | - | - | - | 12.1 | 9.1 | 8.3 | - | 5.2 | - | 9.7 | 53.9 | 29.3 | - | - | - | - |
| 11 | Vivek Hybrid 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Vivek Hybrid 21 | - | 7.7 | - | - | 34.8 | 11.8 | - | 17 | - | - | 0.7 | 67.8 | - | - | 1.7 | - |
| 13 | Vivek Hybrid 43 | - | 21.1 | - | 6.6 | 28 | 7.8 | - | 25.3 | - | - | - | 75.8 | - | 49.6 | - | 0 |

TABLE No. 4 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 21 | | | | | | | | | | | | | | | | | | |
|-------|-----------------|--|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM |
| 1 | DH-266 | - | - | 40.9 | - | 6.5 | 70.7 | 3.6 | - | - | 11.2 | - | - | - | - | - | 22.5 | - | - | 6.3 |
| 2 | DH-267 | - | - | 58.7 | - | 26.9 | 5.4 | - | - | - | - | - | - | - | - | 2.6 | 29.4 | - | - | 22 |
| 3 | DH-268 | - | 1.8 | 16.8 | 1 | 21.8 | 35.6 | - | - | - | - | - | - | - | - | - | - | - | - | 1.6 |
| 4 | FH-3641 | 6.7 | 32 | 65.1 | 24.3 | - | 79.8 | 9.3 | 23 | - | - | - | - | 61.3 | 2.9 | 39.2 | 47.3 | 35.2 | 13.8 | 1.4 |
| 5 | KH-7502 | 1.4 | 32.4 | 49.3 | 21 | 38.5 | 31.9 | 14 | 21.9 | 19.7 | - | 13.8 | 8.4 | - | - | 28.7 | 48 | 13.3 | 11.9 | 63.6 |
| 6 | DH-269 | - | - | 17.5 | 13.6 | 1.3 | 52.2 | - | - | 1.5 | - | - | - | - | - | - | - | - | - | 3.3 |
| 7 | DH-270 | - | - | 7.5 | 9.8 | - | 52.6 | 9.8 | 0.5 | - | - | - | - | - | - | - | 18.1 | - | - | 11.1 |
| 8 | DH-271 | - | - | 34.3 | - | - | - | 3.7 | - | - | - | - | - | 20.2 | - | - | 12.5 | - | - | 17.7 |
| 9 | AH-1212 | - | 2.2 | 28.6 | 20.3 | 10.7 | 34.1 | - | 5.6 | - | - | 1.9 | - | 56.1 | - | - | 71.5 | 19.2 | 0.5 | 23.7 |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | - | 5.8 | 7.6 | 13.8 | - | 30.9 | 20.7 | 8.2 | - | - | - | - | 9.7 | - | 9.6 | 20.2 | 7.7 | 3.4 | 17.3 |
| 11 | Vivek Hybrid 9 | - | 3.1 | 57 | 34.5 | - | 103.6 | - | 14.4 | 0.5 | - | 3.6 | - | - | - | 23.3 | - | 2.4 | 22.3 | 23.6 |
| 12 | Vivek Hybrid 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | Vivek Hybrid 43 | - | 1.2 | 83.6 | 38.1 | - | 20.7 | 15.2 | 15.6 | - | - | 4.5 | - | - | - | - | 63.5 | 3.9 | 3.7 | 24.7 |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

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TABLE No. 4 (Cont..)

| SI No | PEDIGREE | ZN 4 | | | | | | | | | | | | | ZN 5 | OV'L | |
|----------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | MEAN | AMBI | BANS | CHHI | JHAB | UDAI | MEAN | MEAN |
| 1 | DH-266 | 27.7 | - | 27.6 | - | - | - | 36.3 | - | - | 7.7 | 36.9 | - | - | 29.1 | 3 | - |
| 2 | DH-267 | 6.3 | - | 60.4 | - | - | - | 18.3 | - | - | - | - | - | - | 24 | - | - |
| 3 | DH-268 | - | - | - | - | - | - | 8.6 | - | - | 20.5 | 32.8 | - | - | 18.6 | - | - |
| 4 | FH-3641 | 27.9 | 3.1 | 62.7 | 30.1 | - | - | 17.9 | - | 10.2 | 71.9 | 57.1 | 22.7 | - | 60.9 | 33.5 | 17.3 |
| 5 | KH-7502 | 51.8 | 7.3 | 64 | 38 | - | 7.3 | - | - | 21.3 | 38.5 | 44.1 | - | - | 88.6 | 26.5 | 19.3 |
| 6 | DH-269 | 40.6 | - | - | - | - | - | 23.1 | - | - | 5.2 | 12.3 | - | - | - | - | - |
| 7 | DH-270 | - | - | 7.1 | - | - | - | 44.5 | - | - | - | - | - | - | - | - | - |
| 8 | DH-271 | - | - | 41.5 | 47.1 | - | - | 33.6 | 34.3 | 0.4 | - | 5.5 | - | - | - | - | - |
| 9 | AH-1212 | 17.7 | 13.8 | 87.9 | 42.7 | - | - | 51.3 | - | 4.4 | 43.6 | 4.1 | 7.6 | 0.4 | 35.2 | 18.1 | 5.9 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 30.5 | - | - | 25.1 | - | - | 39.5 | - | 0.9 | 15.4 | 52.8 | - | - | - | - | 0.8 |
| 11 | Vivek Hybrid 9 | 58 | - | 91.6 | 11.6 | - | - | 48.3 | - | 10.2 | 5.2 | - | - | 0.9 | 12.4 | - | 6.6 |
| 12 | Vivek Hybrid 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | Vivek Hybrid 43 | - | 12.5 | 39.3 | 18.9 | - | - | 2.1 | 7.1 | 7.9 | - | - | 4.8 | - | 68.1 | - | 6.7 |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

TABLE No. 4 (Cont..)

| Sl No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 43 | | | | | | | | | | | | | | | | | | |
|-------|-----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | | | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM |
| 1 | DH-266 | - | - | - | - | 8.2 | 41.4 | - | - | - | 15.6 | - | - | 3.7 | - | - | - | - | - | - |
| 2 | DH-267 | - | - | - | - | 28.9 | - | - | - | - | - | - | - | 1.3 | - | 17.3 | - | - | - | - |
| 3 | DH-268 | - | 0.6 | - | - | 23.7 | 12.3 | - | - | 5.7 | - | - | - | 3.7 | - | 1.2 | - | - | - | - |
| 4 | FH-3641 | 9.1 | 30.5 | - | - | - | 48.9 | - | 6.4 | 9.3 | - | - | - | 74.3 | 7.8 | 59.2 | - | 30.2 | 9.7 | - |
| 5 | KH-7502 | 3.7 | 30.9 | - | - | 40.6 | 9.3 | - | 5.4 | 31.7 | - | 9 | 10.5 | 0.5 | - | 47.2 | - | 9.1 | 7.8 | 31.2 |
| 6 | DH-269 | - | - | - | - | 2.9 | 26 | - | - | 11.7 | - | - | - | - | - | 11.9 | - | - | - | - |
| 7 | DH-270 | - | - | - | - | - | 26.4 | - | - | - | - | - | - | - | - | 0.5 | - | - | - | - |
| 8 | DH-271 | - | - | - | - | - | - | - | - | 8.8 | - | - | - | 30 | - | - | - | - | - | - |
| 9 | AH-1212 | - | 1 | - | - | 12.5 | 11.1 | - | - | - | - | - | - | 68.7 | 3.9 | - | 4.9 | 14.8 | - | - |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | - | 4.6 | - | - | - | 8.4 | 4.7 | - | - | - | - | - | 18.6 | 0.8 | 25.4 | - | 3.7 | - | - |
| 11 | Vivek Hybrid 9 | - | 1.9 | - | - | - | 68.6 | - | - | 10.6 | - | - | - | 0.9 | - | 41 | - | - | 17.9 | - |
| 12 | Vivek Hybrid 21 | 2.2 | - | - | - | 1.6 | - | - | - | 10.1 | 4 | - | 1.9 | 8.1 | 4.7 | 14.4 | - | - | - | - |
| 13 | Vivek Hybrid 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : VAGA 35.9 %

Table No. 4 (Continued)

| GRAIN SHELLING % | | | | | | | | | | | | | | | | | | | |
|------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH |
| 1 | DH-266 | 85.0 | 86.2 | 69.4 | 85.4 | 77.4 | 83.2 | 76.9 | 80.5 | 64.6 | 87.7 | 86.1 | 79.5 | 77.5 | 71.0 | 87.0 | 79.0 | 78.6 | 83.6 |
| 2 | DH-267 | 84.5 | 83.6 | 76.4 | 83.3 | 73.5 | 77.3 | 79.2 | 79.7 | 66.3 | 85.7 | 85.8 | 79.2 | 79.2 | 78.9 | 85.9 | 79.3 | 80.8 | 85.9 |
| 3 | DH-268 | 86.5 | 87.3 | 71.9 | 85.3 | 72.2 | 84.6 | 77.0 | 80.7 | 67.4 | 86.3 | 89.2 | 81.0 | 79.0 | 77.5 | 88.3 | 81.5 | 81.6 | 85.1 |
| 4 | FH-3641 | 80.0 | 80.7 | 69.5 | 80.1 | 71.2 | 85.2 | 72.3 | 77.0 | 65.8 | 82.3 | 82.8 | 77.0 | 80.4 | 78.9 | 81.7 | 78.3 | 79.8 | 77.2 |
| 5 | KH-7502 | 86.6 | 86.8 | 71.2 | 86.0 | 73.0 | 80.6 | 75.9 | 80.0 | 67.1 | 83.7 | 89.1 | 79.9 | 77.6 | 80.0 | 86.7 | 84.0 | 82.1 | 85.1 |
| 6 | DH-269 | 86.4 | 84.8 | 69.8 | 84.8 | 74.8 | 84.6 | 76.4 | 80.2 | 64.6 | 83.7 | 86.6 | 78.3 | 78.3 | 82.5 | 86.7 | 77.8 | 81.3 | 81.6 |
| 7 | DH-270 | 84.2 | 87.1 | 73.3 | 83.7 | 70.4 | 82.0 | 74.2 | 79.3 | 63.9 | 84.9 | 86.5 | 78.4 | 80.1 | 80.5 | 83.4 | 74.0 | 79.5 | 85.8 |
| 8 | DH-271 | 86.8 | 85.4 | 70.7 | - | 74.7 | 77.6 | 75.0 | 78.4 | 66.1 | 87.0 | 87.0 | 80.0 | 80.8 | 70.0 | 86.2 | 75.8 | 78.2 | 85.4 |
| 9 | AH-1212 | 86.0 | 88.4 | 71.3 | 86.9 | 76.7 | 82.9 | 72.7 | 80.7 | 63.1 | 84.9 | 88.8 | 78.9 | 81.7 | 77.5 | 84.0 | 80.0 | 80.8 | 85.0 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 86.6 | 85.5 | 68.9 | 86.0 | 70.9 | 81.9 | 76.1 | 79.4 | 64.8 | 86.0 | 86.1 | 78.9 | 81.2 | 72.5 | 83.2 | 76.0 | 78.2 | 83.6 |
| 11 | Vivek Hybrid 9 | 86.9 | 85.9 | 73.7 | 84.9 | 72.4 | 86.2 | 74.3 | 80.6 | 62.8 | 84.1 | 88.3 | 78.4 | 80.4 | 70.0 | 86.6 | 77.5 | 78.6 | 81.9 |
| 12 | Vivek Hybrid 21 | 86.1 | 86.3 | 76.6 | 86.1 | 77.9 | 75.4 | 76.0 | 80.6 | 66.7 | 87.8 | 88.6 | 81.0 | 80.5 | 81.7 | 84.5 | 77.8 | 81.1 | 82.5 |
| 13 | Vivek Hybrid 43 | 84.7 | 85.8 | 69.5 | 84.0 | 75.6 | 82.0 | 75.3 | 79.5 | 66.4 | 85.5 | 87.3 | 79.7 | 79.1 | 76.0 | 84.7 | 83.0 | 80.7 | 83.4 |
| Loc. Mean | | 85.4 | 85.7 | 71.7 | 84.7 | 73.9 | 81.8 | 75.5 | 79.7 | 65.3 | 85.3 | 87.1 | 79.2 | 79.7 | 76.7 | 85.3 | 78.8 | 80.1 | 83.5 |
| C.D. (5%) | | 0.99 | 0.00 | 2.17 | 2.91 | 2.44 | 4.38 | 2.21 | 2.47 | 0.75 | 1.73 | 2.25 | 2.47 | 1.51 | 3.90 | 5.01 | 1.52 | 4.20 | 3.18 |
| C.V. (%) | | 0.69 | 0.00 | 1.80 | 1.50 | 1.96 | 3.18 | 1.74 | 2.91 | 0.68 | 1.20 | 1.53 | 1.85 | 1.12 | 3.02 | 2.69 | 1.14 | 3.65 | 2.26 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.32 | 0.00 | 0.60 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | | | | | | | | OV'L | |
|-------|------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | ZN 5 | | | | |
| | | | | | | | | | | Mean | AMBI | BANS | CHHI | JHAB | UDAI | Mean | Mean | |
| 1 | DH-266 | 84.0 | 84.5 | 80.0 | 83.9 | 88.1 | 79.8 | 83.5 | 86.7 | 72.8 | 82.7 | 74.6 | 70.9 | 81.3 | 80.3 | 84.9 | 78.4 | 80.5 |
| 2 | DH-267 | 82.4 | 83.0 | 81.6 | 86.4 | 86.8 | 82.8 | 82.4 | 82.9 | 74.3 | 82.8 | 72.8 | 67.3 | 80.7 | 80.4 | 83.1 | 76.9 | 80.4 |
| 3 | DH-268 | 81.5 | 83.0 | 79.6 | 81.5 | 87.1 | 81.7 | 82.7 | 81.3 | 69.7 | 81.3 | 73.9 | 68.8 | 82.2 | 78.6 | 80.5 | 76.8 | 80.4 |
| 4 | FH-3641 | 80.8 | 84.0 | 74.8 | 86.0 | 83.8 | 80.5 | 73.6 | 74.6 | 66.4 | 78.2 | 74.1 | 70.0 | 82.9 | 78.5 | 80.5 | 77.2 | 77.8 |
| 5 | KH-7502 | 82.4 | 84.6 | 80.7 | 87.7 | 87.2 | 79.6 | 81.9 | 84.8 | 68.4 | 82.2 | 74.2 | 69.4 | 88.6 | 81.3 | 85.7 | 79.9 | 81.0 |
| 6 | DH-269 | 82.9 | 77.2 | 79.5 | 86.8 | 86.1 | 82.3 | 81.3 | 81.6 | 70.7 | 81.0 | 73.7 | 70.0 | 80.5 | 80.1 | 81.2 | 77.1 | 79.9 |
| 7 | DH-270 | 82.4 | 77.6 | 78.0 | 88.0 | 89.2 | 83.5 | 79.6 | 85.5 | 61.6 | 81.1 | 73.4 | 69.5 | 89.8 | 79.9 | 81.3 | 78.8 | 79.8 |
| 8 | DH-271 | 82.8 | 82.7 | 80.3 | 88.2 | 87.9 | 90.5 | 86.1 | 86.0 | 69.8 | 84.0 | 72.3 | 68.8 | 81.3 | 79.1 | 85.3 | 77.4 | 80.3 |
| 9 | AH-1212 | 83.7 | 79.6 | 80.5 | 87.2 | 89.1 | 80.3 | 83.1 | 85.3 | 64.8 | 81.9 | 76.1 | 70.3 | 84.0 | 80.4 | 81.5 | 78.4 | 80.5 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 83.1 | 79.3 | 79.0 | 86.0 | 88.0 | 80.9 | 80.9 | 80.1 | 68.9 | 81.0 | 73.1 | 70.5 | 79.1 | 79.8 | 81.3 | 76.8 | 79.3 |
| 11 | Vivek Hybrid 9 | 83.2 | 82.6 | 78.8 | 87.0 | 88.2 | 80.5 | 80.4 | 80.1 | 63.8 | 80.6 | 72.2 | 69.9 | 82.9 | 81.8 | 80.3 | 77.4 | 79.6 |
| 12 | Vivek Hybrid 21 | 83.2 | 84.8 | 80.6 | 86.5 | 86.3 | 82.9 | 84.0 | 87.5 | 76.7 | 83.5 | 74.2 | 68.9 | 90.0 | 81.6 | 79.9 | 78.9 | 81.4 |
| 13 | Vivek Hybrid 43 | 83.7 | 73.5 | 80.9 | 85.0 | 87.9 | 82.6 | 83.1 | 69.2 | 71.7 | 80.1 | 75.0 | 67.7 | 89.5 | 79.6 | 86.1 | 79.6 | 79.9 |
| | Loc. Mean | 82.7 | 81.3 | 79.5 | 86.2 | 87.4 | 82.1 | 81.7 | 82.0 | 69.2 | 81.6 | 73.8 | 69.4 | 84.1 | 80.1 | 82.4 | 77.9 | 80.1 |
| | C.D. (5%) | 1.43 | 5.57 | 1.51 | 2.22 | 0.46 | 1.68 | 8.00 | 7.25 | 12.72 | 2.40 | 1.78 | 1.78 | 1.75 | 2.21 | 0.60 | 2.73 | 1.28 |
| | C.V. (%) | 1.03 | 4.07 | 1.13 | 1.53 | 0.31 | 1.22 | 5.81 | 5.25 | 10.91 | 3.32 | 1.43 | 1.52 | 1.23 | 1.63 | 0.43 | 2.75 | 3.08 |
| | F (Prob) | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.51 | 0.00 | 0.01 | 0.01 | 0.00 | 0.09 | 0.00 | 0.26 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | | | |
|-------|------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | ZN 1 | | | ZN 2 | | | | ZN 3 | | | |
| | | | | | | | | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | |
| 1 | DH-266 | 62.0 | 78.7 | 27.4 | 70.8 | 34.7 | 54.2 | 78.5 | 58.0 | 58.3 | 73.9 | 50.6 | 60.9 | 65.3 | 90.8 | 67.9 | 57.6 | 70.4 | 62.2 |
| 2 | DH-267 | 64.8 | 80.6 | 28.1 | 70.8 | 34.7 | 45.1 | 73.6 | 56.8 | 61.7 | 70.2 | 53.3 | 61.7 | 65.3 | 82.5 | 68.8 | 53.5 | 67.5 | 60.0 |
| 3 | DH-268 | 60.2 | 80.6 | 25.9 | 70.8 | 36.8 | 48.6 | 75.7 | 56.9 | 60.0 | 74.5 | 55.0 | 63.2 | 65.3 | 84.2 | 64.3 | 61.1 | 68.7 | 56.1 |
| 4 | FH-3641 | 66.7 | 87.0 | 37.0 | 70.8 | 34.7 | 44.4 | 77.1 | 59.7 | 60.0 | 70.8 | 50.6 | 60.5 | 65.3 | 97.5 | 64.3 | 50.7 | 69.4 | 61.7 |
| 5 | KH-7502 | 65.7 | 79.6 | 31.1 | 70.8 | 35.4 | 46.5 | 75.0 | 57.8 | 63.3 | 72.6 | 52.8 | 62.9 | 62.5 | 86.7 | 65.2 | 51.4 | 66.4 | 63.9 |
| 6 | DH-269 | 59.3 | 75.0 | 38.5 | 72.9 | 29.9 | 46.5 | 75.0 | 56.7 | 60.0 | 56.8 | 47.2 | 54.7 | 63.9 | 85.8 | 65.2 | 52.1 | 66.7 | 47.2 |
| 7 | DH-270 | 64.8 | 65.7 | 19.3 | 72.9 | 36.8 | 47.2 | 72.9 | 54.2 | 56.7 | 57.4 | 49.4 | 54.5 | 60.4 | 82.5 | 68.8 | 52.8 | 66.1 | 52.2 |
| 8 | DH-271 | 61.1 | 80.6 | 29.6 | - | 36.8 | 47.2 | 73.6 | 54.8 | 56.7 | 56.2 | 48.3 | 53.7 | 61.1 | 85.8 | 61.6 | 50.7 | 64.8 | 49.4 |
| 9 | AH-1212 | 65.7 | 75.0 | 30.4 | 70.8 | 36.8 | 51.4 | 71.5 | 57.4 | 60.0 | 69.0 | 50.6 | 59.8 | 65.3 | 90.8 | 56.3 | 55.6 | 67.0 | 60.0 |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 64.8 | 72.2 | 24.4 | 70.8 | 37.5 | 45.1 | 78.5 | 56.2 | 55.0 | 67.2 | 52.2 | 58.1 | 61.8 | 99.2 | 61.6 | 50.7 | 68.3 | 61.7 |
| 11 | Vivek Hybrid 9 | 63.0 | 82.4 | 30.4 | 75.0 | 38.2 | 47.2 | 77.1 | 59.0 | 61.7 | 70.8 | 55.0 | 62.5 | 63.2 | 92.5 | 65.2 | 54.2 | 68.8 | 62.8 |
| 12 | Vivek Hybrid 21 | 62.0 | 68.5 | 26.7 | 68.8 | 34.7 | 45.8 | 75.7 | 54.6 | 60.0 | 58.0 | 54.4 | 57.5 | 63.2 | 80.8 | 65.2 | 50.7 | 65.0 | 50.0 |
| 13 | Vivek Hybrid 43 | 64.8 | 67.6 | 28.1 | 77.1 | 35.4 | 45.8 | 75.0 | 56.3 | 58.3 | 62.3 | 48.9 | 56.5 | 65.3 | 85.0 | 56.3 | 50.7 | 64.3 | 48.9 |
| | Loc. Mean | 63.5 | 76.4 | 29.0 | 71.9 | 35.6 | 47.3 | 75.3 | 56.8 | 59.4 | 66.1 | 51.4 | 59.0 | 63.7 | 88.0 | 63.9 | 53.2 | 67.2 | 56.6 |
| | C.D. (5%) | 4.74 | 11.53 | 12.60 | 9.90 | 4.69 | 7.26 | 3.72 | 4.26 | - | 3.46 | 7.77 | 6.21 | 5.86 | 13.57 | 10.91 | 6.64 | 5.80 | 8.30 |
| | C.V. (%) | 4.43 | 8.95 | 25.77 | 6.01 | 7.82 | 9.11 | 2.93 | 7.03 | - | 3.11 | 8.97 | 6.25 | 5.46 | 9.15 | 7.84 | 7.40 | 6.02 | 8.70 |
| | F (Prob) | 0.06 | 0.02 | 0.26 | 0.83 | 0.13 | 0.34 | 0.02 | 0.32 | - | 0.00 | 0.52 | 0.03 | 0.66 | 0.18 | 0.32 | 0.07 | 0.59 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | | OV'L | | | |
|-------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | CHHI | | JHAB | UDAI | Mean |
| 1 | DH-266 | 65.3 | 46.5 | 63.3 | 47.8 | 64.4 | 65.5 | 62.2 | 47.9 | 37.5 | 56.3 | 47.2 | 50.6 | 63.9 | 60.0 | 55.6 | 55.4 | 59.0 |
| 2 | DH-267 | 66.7 | 43.1 | 62.8 | 48.9 | 65.0 | 60.1 | 68.3 | 50.0 | 34.0 | 55.9 | 42.2 | 45.6 | 61.1 | 66.7 | 58.3 | 54.8 | 58.1 |
| 3 | DH-268 | 66.7 | 38.2 | 63.3 | 56.1 | 62.8 | 66.1 | 65.6 | 51.4 | 36.8 | 56.3 | 48.9 | 40.0 | 60.0 | 65.9 | 62.5 | 55.5 | 58.7 |
| 4 | FH-3641 | 66.0 | 45.1 | 65.6 | 52.8 | 60.0 | 66.1 | 65.6 | 52.8 | 31.9 | 56.7 | 57.8 | 47.2 | 55.6 | 71.1 | 62.5 | 58.8 | 60.0 |
| 5 | KH-7502 | 66.0 | 43.8 | 61.7 | 49.4 | 66.1 | 64.3 | 66.7 | 51.0 | 32.6 | 56.5 | 54.4 | 45.6 | 61.1 | 60.0 | 59.0 | 56.0 | 58.8 |
| 6 | DH-269 | 66.7 | 45.8 | 55.6 | 39.4 | 63.3 | 61.3 | 63.3 | 41.0 | 36.8 | 52.0 | 45.6 | 40.6 | 57.8 | 74.1 | 58.3 | 55.3 | 56.0 |
| 7 | DH-270 | 66.0 | 37.5 | 59.4 | 32.2 | 54.4 | 61.9 | 62.2 | 37.5 | 34.0 | 49.7 | 44.4 | 42.8 | 54.4 | 64.4 | 59.0 | 53.0 | 54.1 |
| 8 | DH-271 | 66.0 | 42.4 | 61.7 | 41.7 | 61.7 | 66.7 | 61.1 | 36.1 | 44.4 | 53.1 | 37.8 | 36.1 | 57.2 | 67.4 | 58.3 | 51.4 | 54.9 |
| 9 | AH-1212 | 66.0 | 42.4 | 58.3 | 38.3 | 62.8 | 61.3 | 60.0 | 52.1 | 31.9 | 53.3 | 52.8 | 38.9 | 60.6 | 59.3 | 56.9 | 53.7 | 56.9 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 65.3 | 39.6 | 59.4 | 37.8 | 64.4 | 63.7 | 68.9 | 42.4 | 27.1 | 53.0 | 51.1 | 45.6 | 55.0 | 60.7 | 61.1 | 54.7 | 56.7 |
| 11 | Vivek Hybrid 9 | 66.0 | 40.3 | 58.9 | 57.8 | 62.8 | 61.3 | 62.8 | 54.2 | 31.9 | 55.9 | 48.3 | 43.9 | 58.3 | 62.2 | 61.8 | 54.9 | 58.9 |
| 12 | Vivek Hybrid 21 | 65.3 | 34.7 | 61.1 | 29.4 | 65.6 | 63.1 | 61.7 | 33.3 | 30.6 | 49.5 | 42.2 | 40.6 | 50.0 | 64.4 | 56.3 | 50.7 | 53.9 |
| 13 | Vivek Hybrid 43 | 66.0 | 32.6 | 56.1 | 46.1 | 63.3 | 62.5 | 57.8 | 36.8 | 32.6 | 50.3 | 29.4 | 39.4 | 56.7 | 59.3 | 59.0 | 48.8 | 54.0 |
| | Loc. Mean | 66.0 | 40.9 | 60.6 | 44.4 | 62.8 | 63.4 | 63.5 | 45.1 | 34.0 | 53.7 | 46.3 | 42.8 | 57.8 | 64.3 | 59.1 | 54.1 | 56.9 |
| | C.D. (5%) | 1.84 | 10.68 | 6.12 | 3.82 | 6.78 | 5.20 | 5.14 | 11.95 | 10.09 | 3.81 | 11.06 | 8.47 | 7.43 | 8.68 | 5.00 | 5.63 | 2.09 |
| | C.V. (%) | 1.66 | 15.49 | 6.00 | 5.10 | 6.41 | 4.87 | 4.80 | 15.71 | 17.60 | 8.00 | 14.16 | 11.74 | 7.63 | 8.01 | 5.02 | 8.18 | 7.09 |
| | F (Prob) | 0.82 | 0.25 | 0.08 | 0.00 | 0.14 | 0.19 | 0.00 | 0.01 | 0.20 | 0.00 | 0.00 | 0.09 | 0.07 | 0.03 | 0.12 | 0.09 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | | | |
|-------|------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ALMO | BAJA | BARA | BERT | KANG | POON | ZN 1 | | | ZN 2 | | | ZN 3 | | | | | |
| | | | | | | | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | |
| 1 | DH-266 | 62.0 | 78.7 | 27.4 | 70.8 | 69.4 | 54.2 | 78.5 | 63.0 | 58.3 | 73.9 | 50.6 | 60.9 | 65.3 | 90.8 | 67.9 | 57.6 | 70.4 | 62.2 |
| 2 | DH-267 | 64.8 | 80.6 | 28.1 | 70.8 | 69.4 | 45.1 | 73.6 | 61.8 | 61.7 | 70.2 | 53.3 | 61.7 | 65.3 | 82.5 | 68.8 | 53.5 | 67.5 | 60.0 |
| 3 | DH-268 | 60.2 | 80.6 | 25.9 | 70.8 | 73.6 | 48.6 | 75.7 | 62.2 | 60.0 | 74.5 | 55.0 | 63.2 | 65.3 | 84.2 | 64.3 | 61.1 | 68.7 | 56.1 |
| 4 | FH-3641 | 66.7 | 87.0 | 37.0 | 70.8 | 69.4 | 44.4 | 77.1 | 64.6 | 60.0 | 70.8 | 50.6 | 60.5 | 65.3 | 97.5 | 64.3 | 50.7 | 69.4 | 61.7 |
| 5 | KH-7502 | 65.7 | 79.6 | 31.1 | 70.8 | 70.8 | 46.5 | 75.0 | 62.8 | 63.3 | 72.6 | 52.8 | 62.9 | 62.5 | 86.7 | 65.2 | 51.4 | 66.4 | 63.9 |
| 6 | DH-269 | 59.3 | 75.0 | 38.5 | 72.9 | 59.7 | 46.5 | 75.0 | 61.0 | 60.0 | 56.8 | 47.2 | 54.7 | 63.9 | 85.8 | 65.2 | 52.1 | 66.7 | 47.2 |
| 7 | DH-270 | 64.8 | 65.7 | 19.3 | 72.9 | 73.6 | 47.2 | 72.9 | 59.5 | 56.7 | 57.4 | 49.4 | 54.5 | 60.4 | 82.5 | 68.8 | 52.8 | 66.1 | 52.2 |
| 8 | DH-271 | 61.1 | 80.6 | 29.6 | - | 73.6 | 47.2 | 73.6 | 61.0 | 56.7 | 56.2 | 48.3 | 53.7 | 61.1 | 85.8 | 61.6 | 50.7 | 64.8 | 49.4 |
| 9 | AH-1212 | 65.7 | 75.0 | 30.4 | 70.8 | 73.6 | 51.4 | 71.5 | 62.6 | 60.0 | 69.0 | 50.6 | 59.8 | 65.3 | 90.8 | 56.3 | 55.6 | 67.0 | 60.0 |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 64.8 | 72.2 | 24.4 | 70.8 | 75.0 | 45.1 | 78.5 | 61.6 | 55.0 | 67.2 | 52.2 | 58.1 | 61.8 | 99.2 | 61.6 | 50.7 | 68.3 | 61.7 |
| 11 | Vivek Hybrid 9 | 63.0 | 82.4 | 30.4 | 75.0 | 76.4 | 47.2 | 77.1 | 64.5 | 61.7 | 70.8 | 55.0 | 62.5 | 63.2 | 92.5 | 65.2 | 54.2 | 68.8 | 62.8 |
| 12 | Vivek Hybrid 21 | 62.0 | 68.5 | 26.7 | 68.8 | 69.4 | 45.8 | 75.7 | 59.6 | 60.0 | 58.0 | 54.4 | 57.5 | 63.2 | 80.8 | 65.2 | 50.7 | 65.0 | 50.0 |
| 13 | Vivek Hybrid 43 | 64.8 | 67.6 | 28.1 | 77.1 | 70.8 | 45.8 | 75.0 | 61.3 | 58.3 | 62.3 | 48.9 | 56.5 | 65.3 | 85.0 | 56.3 | 50.7 | 64.3 | 48.9 |
| | Loc. Mean | 63.5 | 76.4 | 29.0 | 71.9 | 71.2 | 47.3 | 75.3 | 62.0 | 59.4 | 66.1 | 51.4 | 59.0 | 63.7 | 88.0 | 63.9 | 53.2 | 67.2 | 56.6 |
| | C.D. (5%) | 4.74 | 11.53 | 12.60 | 9.90 | 9.38 | 7.26 | 3.72 | 4.28 | - | 3.46 | 7.77 | 6.21 | 5.86 | 13.57 | 10.91 | 6.64 | 5.80 | 8.30 |
| | C.V. (%) | 4.43 | 8.95 | 25.77 | 6.01 | 7.82 | 9.11 | 2.93 | 6.48 | - | 3.11 | 8.97 | 6.25 | 5.46 | 9.15 | 7.84 | 7.40 | 6.02 | 8.70 |
| | F. (Prob) | 0.06 | 0.02 | 0.26 | 0.83 | 0.13 | 0.34 | 0.02 | 0.38 | - | 0.00 | 0.52 | 0.03 | 0.66 | 0.18 | 0.32 | 0.07 | 0.59 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | | | | | ZN 5 | OV'L | |
|-------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | CHHI | JHAB | UDAI | Mean | Mean |
| 1 | DH-266 | 65.3 | 46.5 | 63.3 | 47.8 | 64.4 | 65.5 | 62.2 | 47.9 | 37.5 | 56.3 | 47.2 | 50.6 | 63.9 | 60.0 | 55.6 | 55.4 | 60.2 |
| 2 | DH-267 | 66.7 | 43.1 | 62.8 | 48.9 | 65.0 | 60.1 | 68.3 | 50.0 | 34.0 | 55.9 | 42.2 | 45.6 | 61.1 | 66.7 | 58.3 | 54.8 | 59.3 |
| 3 | DH-268 | 66.7 | 38.2 | 63.3 | 56.1 | 62.8 | 66.1 | 65.6 | 51.4 | 36.8 | 56.3 | 48.9 | 40.0 | 60.0 | 65.9 | 62.5 | 55.5 | 60.0 |
| 4 | FH-3641 | 66.0 | 45.1 | 65.6 | 52.8 | 60.0 | 66.1 | 65.6 | 52.8 | 31.9 | 56.7 | 57.8 | 47.2 | 55.6 | 71.1 | 62.5 | 58.8 | 61.1 |
| 5 | KH-7502 | 66.0 | 43.8 | 61.7 | 49.4 | 66.1 | 64.3 | 66.7 | 51.0 | 32.6 | 56.5 | 54.4 | 45.6 | 61.1 | 60.0 | 59.0 | 56.0 | 60.0 |
| 6 | DH-269 | 66.7 | 45.8 | 55.6 | 39.4 | 63.3 | 61.3 | 63.3 | 41.0 | 36.8 | 52.0 | 45.6 | 40.6 | 57.8 | 74.1 | 58.3 | 55.3 | 57.1 |
| 7 | DH-270 | 66.0 | 37.5 | 59.4 | 32.2 | 54.4 | 61.9 | 62.2 | 37.5 | 34.0 | 49.7 | 44.4 | 42.8 | 54.4 | 64.4 | 59.0 | 53.0 | 55.4 |
| 8 | DH-271 | 66.0 | 42.4 | 61.7 | 41.7 | 61.7 | 66.7 | 61.1 | 36.1 | 44.4 | 53.1 | 37.8 | 36.1 | 57.2 | 67.4 | 58.3 | 51.4 | 56.2 |
| 9 | AH-1212 | 66.0 | 42.4 | 58.3 | 38.3 | 62.8 | 61.3 | 60.0 | 52.1 | 31.9 | 53.3 | 52.8 | 38.9 | 60.6 | 59.3 | 56.9 | 53.7 | 58.2 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 65.3 | 39.6 | 59.4 | 37.8 | 64.4 | 63.7 | 68.9 | 42.4 | 27.1 | 53.0 | 51.1 | 45.6 | 55.0 | 60.7 | 61.1 | 54.7 | 58.0 |
| 11 | Vivek Hybrid 9 | 66.0 | 40.3 | 58.9 | 57.8 | 62.8 | 61.3 | 62.8 | 54.2 | 31.9 | 55.9 | 48.3 | 43.9 | 58.3 | 62.2 | 61.8 | 54.9 | 60.2 |
| 12 | Vivek Hybrid 21 | 65.3 | 34.7 | 61.1 | 29.4 | 65.6 | 63.1 | 61.7 | 33.3 | 30.6 | 49.5 | 42.2 | 40.6 | 50.0 | 64.4 | 56.3 | 50.7 | 55.1 |
| 13 | Vivek Hybrid 43 | 66.0 | 32.6 | 56.1 | 46.1 | 63.3 | 62.5 | 57.8 | 36.8 | 32.6 | 50.3 | 29.4 | 39.4 | 56.7 | 59.3 | 59.0 | 48.8 | 55.3 |
| | Loc. Mean | 66.0 | 40.9 | 60.6 | 44.4 | 62.8 | 63.4 | 63.5 | 45.1 | 34.0 | 53.7 | 46.3 | 42.8 | 57.8 | 64.3 | 59.1 | 54.1 | 58.2 |
| | C.D. (5%) | 1.84 | 10.68 | 6.12 | 3.82 | 6.78 | 5.20 | 5.14 | 11.95 | 10.09 | 3.81 | 11.06 | 8.47 | 7.43 | 8.68 | 5.00 | 5.63 | 2.11 |
| | C.V. (%) | 1.66 | 15.49 | 6.00 | 5.10 | 6.41 | 4.87 | 4.80 | 15.71 | 17.60 | 8.00 | 14.16 | 11.74 | 7.63 | 8.01 | 5.02 | 8.18 | 7.01 |
| | F (Prob) | 0.82 | 0.25 | 0.08 | 0.00 | 0.14 | 0.19 | 0.00 | 0.01 | 0.20 | 0.00 | 0.00 | 0.09 | 0.07 | 0.03 | 0.12 | 0.09 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | |
|-------|------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | ZN 1 | | | ZN 2 | | | ZN 3 | | | |
| | | Mean | | | | | | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | |
| 1 | DH-266 | 50.3 | 51.3 | 49.7 | 44.5 | 46.7 | 49.3 | 44.0 | 48.0 | 45.0 | 46.7 | 44.0 | 45.2 | 42.3 | 43.0 | 46.5 | 44.0 | 44.0 |
| 2 | DH-267 | 50.7 | 52.0 | 49.7 | 46.0 | 46.3 | 51.7 | 45.0 | 48.8 | 46.0 | 42.0 | 43.3 | 43.8 | 44.3 | 45.0 | 48.5 | 42.3 | 45.0 |
| 3 | DH-268 | 49.3 | 50.3 | 49.7 | 44.0 | 46.3 | 57.7 | 43.0 | 48.6 | 44.7 | 40.7 | 42.3 | 42.6 | 44.3 | 43.0 | 47.5 | 42.3 | 44.3 |
| 4 | FH-3641 | 51.0 | 51.3 | 50.7 | 44.5 | 51.0 | 57.0 | 46.0 | 50.2 | 47.7 | 43.7 | 44.3 | 45.2 | 42.3 | 43.7 | 49.0 | 45.7 | 45.2 |
| 5 | KH-7502 | 50.7 | 52.0 | 50.0 | 45.0 | 46.7 | 48.0 | 45.3 | 48.2 | 47.0 | 42.7 | 45.0 | 44.9 | 42.3 | 45.7 | 50.5 | 45.7 | 46.0 |
| 6 | DH-269 | 51.0 | 52.0 | 51.0 | 45.0 | 47.0 | 55.3 | 45.0 | 49.5 | 45.7 | 41.7 | 44.7 | 44.0 | 44.3 | 43.3 | 46.0 | 44.7 | 44.6 |
| 7 | DH-270 | 53.3 | 53.7 | 52.0 | 45.5 | 51.3 | 54.7 | 46.0 | 50.9 | 48.7 | 45.3 | 48.3 | 47.4 | 49.3 | 47.0 | 50.0 | 49.0 | 48.8 |
| 8 | DH-271 | 51.7 | 52.0 | 51.0 | - | 48.7 | 58.3 | 45.0 | 51.1 | 47.0 | 43.3 | 46.3 | 45.6 | 43.7 | 45.7 | 51.5 | 46.7 | 46.9 |
| 9 | AH-1212 | 53.7 | 53.7 | 53.0 | 47.5 | 51.0 | 59.3 | 46.3 | 52.1 | 49.3 | 48.3 | 47.0 | 48.2 | 48.3 | 48.0 | 52.5 | 49.0 | 49.5 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 49.3 | 50.3 | 49.0 | 43.0 | 48.3 | 58.3 | 42.3 | 48.7 | 43.7 | 42.0 | 43.7 | 43.1 | 41.7 | 45.3 | 48.0 | 42.7 | 44.4 |
| 11 | Vivek Hybrid 9 | 49.3 | 50.7 | 49.0 | 43.0 | 47.7 | 55.7 | 43.3 | 48.4 | 44.0 | 42.0 | 43.7 | 43.2 | 42.7 | 44.0 | 49.0 | 42.0 | 44.4 |
| 12 | Vivek Hybrid 21 | 50.7 | 50.7 | 49.7 | 44.5 | 47.0 | 49.3 | 43.0 | 47.8 | 44.3 | 40.7 | 44.0 | 43.0 | 42.3 | 43.0 | 48.5 | 47.7 | 45.4 |
| 13 | Vivek Hybrid 43 | 52.7 | 53.3 | 52.0 | 47.5 | 49.0 | 52.7 | 46.3 | 50.5 | 48.3 | 44.3 | 46.7 | 46.4 | 46.7 | 46.3 | 51.0 | 44.3 | 47.1 |
| | Loc. Mean | 51.1 | 51.8 | 50.5 | 45.0 | 48.2 | 54.4 | 44.7 | 49.4 | 46.3 | 43.3 | 44.9 | 44.8 | 44.2 | 44.8 | 49.1 | 45.1 | 45.8 |
| | C.D. (5%) | 1.08 | 1.68 | 1.36 | 2.47 | 2.46 | 1.47 | 1.91 | 1.78 | 1.17 | 1.45 | 1.80 | 1.86 | 1.85 | 2.35 | 2.42 | 1.36 | 2.04 |
| | C.V. (%) | 1.26 | 1.92 | 1.60 | 2.40 | 3.03 | 1.61 | 2.54 | 3.39 | 1.50 | 1.98 | 2.38 | 2.46 | 2.48 | 3.11 | 2.26 | 1.79 | 3.10 |
| | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 4 (Continued)

| DAYS TO 50% SILKING | | | | | | | | | | | | | | | | | | | |
|---------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | | | | | | | | ZN 1 | | | | ZN 2 | | | | ZN 3 | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH |
| 1 | DH-266 | 51.3 | 53.3 | 50.7 | 48.5 | 50.3 | 53.3 | 49.3 | 51.0 | 47.3 | 48.0 | 46.3 | 47.2 | 44.3 | 45.3 | 51.5 | 48.7 | 47.5 | 56.3 |
| 2 | DH-267 | 51.7 | 54.0 | 50.7 | 49.5 | 48.7 | 55.7 | 50.3 | 51.5 | 48.0 | 42.3 | 46.7 | 45.7 | 46.3 | 47.0 | 52.0 | 48.3 | 48.4 | 56.0 |
| 3 | DH-268 | 50.7 | 52.7 | 50.7 | 48.0 | 48.7 | 61.7 | 49.0 | 51.6 | 46.7 | 41.0 | 44.7 | 44.1 | 44.7 | 45.0 | 52.0 | 46.7 | 47.1 | 56.3 |
| 4 | FH-3641 | 51.0 | 54.0 | 51.7 | 48.5 | 55.0 | 60.7 | 51.3 | 53.2 | 49.7 | 44.7 | 47.3 | 47.2 | 44.3 | 46.0 | 53.0 | 49.3 | 48.2 | 55.7 |
| 5 | KH-7502 | 51.7 | 54.0 | 51.0 | 49.0 | 49.7 | 51.3 | 51.0 | 51.1 | 49.0 | 43.7 | 48.0 | 46.9 | 44.3 | 47.0 | 54.0 | 50.3 | 48.9 | 57.7 |
| 6 | DH-269 | 52.0 | 54.0 | 52.0 | 48.5 | 50.0 | 59.0 | 50.3 | 52.3 | 47.7 | 42.3 | 48.3 | 46.1 | 46.0 | 45.7 | 51.0 | 49.3 | 48.0 | 57.0 |
| 7 | DH-270 | 54.0 | 55.7 | 53.0 | 49.0 | 55.0 | 59.3 | 52.0 | 54.0 | 50.7 | 46.7 | 51.3 | 49.6 | 51.3 | 48.3 | 53.5 | 54.0 | 51.8 | 59.3 |
| 8 | DH-271 | 52.7 | 54.3 | 52.0 | - | 52.7 | 63.0 | 50.7 | 54.2 | 49.0 | 44.3 | 49.3 | 47.6 | 45.7 | 48.0 | 55.5 | 51.3 | 50.1 | 58.3 |
| 9 | AH-1212 | 54.7 | 55.7 | 54.0 | 51.5 | 53.7 | 63.3 | 51.7 | 54.9 | 51.3 | 49.7 | 50.0 | 50.3 | 50.3 | 49.7 | 56.5 | 53.7 | 52.5 | 60.7 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 50.3 | 52.3 | 50.0 | 46.5 | 51.0 | 62.3 | 47.7 | 51.5 | 46.0 | 42.7 | 47.0 | 45.2 | 43.7 | 47.3 | 52.5 | 48.3 | 48.0 | 57.3 |
| 11 | Vivek Hybrid 9 | 50.7 | 52.7 | 50.0 | 47.0 | 50.7 | 59.7 | 49.0 | 51.4 | 46.0 | 42.0 | 46.7 | 44.9 | 44.7 | 46.7 | 53.0 | 47.3 | 47.9 | 54.3 |
| 12 | Vivek Hybrid 21 | 51.7 | 52.7 | 50.7 | 48.5 | 50.7 | 52.7 | 48.7 | 50.8 | 46.3 | 41.7 | 46.7 | 44.9 | 44.0 | 45.3 | 52.0 | 50.7 | 48.0 | 56.0 |
| 13 | Vivek Hybrid 43 | 53.7 | 55.3 | 53.0 | 51.0 | 52.7 | 56.7 | 51.7 | 53.4 | 50.3 | 46.0 | 49.3 | 48.6 | 48.7 | 48.0 | 54.5 | 49.0 | 50.0 | 58.7 |
| Loc. Mean | | 52.0 | 53.9 | 51.5 | 48.8 | 51.4 | 58.4 | 50.2 | 52.4 | 48.3 | 44.2 | 47.8 | 46.8 | 46.0 | 46.9 | 53.2 | 49.8 | 49.0 | 57.2 |
| C.D. (5%) | | 1.12 | 1.77 | 1.36 | 2.50 | 3.09 | 1.56 | 1.64 | 1.86 | 1.11 | 1.42 | 1.74 | 2.06 | 2.25 | 1.93 | 2.45 | 1.23 | 1.74 | 1.78 |
| C.V. (%) | | 1.28 | 1.95 | 1.57 | 2.24 | 3.57 | 1.59 | 1.94 | 3.33 | 1.36 | 1.90 | 2.16 | 2.61 | 2.90 | 2.44 | 2.11 | 1.47 | 2.47 | 1.85 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | | | | |
|-------|------------------|----------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | ZN 1 | | | ZN 2 | | | ZN 3 | | | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | Mean | KARN | LUDH | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM |
| 1 | DH-266 | 92.7 | 86.7 | 102.0 | 81.5 | 82.3 | 88.0 | 85.7 | 88.4 | 76.0 | 77.3 | 76.7 | 74.3 | 74.7 | 89.0 | 79.0 | 79.3 | 63.7 | 87.3 |
| 2 | DH-267 | 93.7 | 84.0 | 102.3 | 78.0 | 82.3 | 90.7 | 84.0 | 87.9 | 77.3 | 71.7 | 74.5 | 74.3 | 74.3 | 88.0 | 79.0 | 78.9 | 66.3 | 84.7 |
| 3 | DH-268 | 90.7 | 85.0 | 102.3 | 79.5 | 82.0 | 100.7 | 83.3 | 89.1 | 76.7 | 70.7 | 73.7 | 70.7 | 72.3 | 89.0 | 75.3 | 76.8 | 63.7 | 85.0 |
| 4 | FH-3641 | 92.7 | 88.7 | 103.7 | 83.0 | 86.0 | 97.0 | 85.3 | 90.9 | 77.0 | 74.3 | 75.7 | 76.7 | 74.3 | 87.0 | 85.7 | 80.9 | 65.3 | 88.0 |
| 5 | KH-7502 | 96.0 | 90.3 | 102.7 | 79.0 | 83.0 | 87.0 | 82.7 | 88.7 | 79.0 | 73.3 | 76.2 | 70.7 | 74.7 | 88.0 | 81.7 | 78.7 | 65.0 | 88.3 |
| 6 | DH-269 | 92.3 | 87.7 | 104.0 | 79.5 | 83.0 | 98.0 | 85.3 | 90.0 | 75.7 | 71.7 | 73.7 | 71.7 | 74.3 | 87.5 | 81.3 | 78.7 | 63.3 | 85.0 |
| 7 | DH-270 | 96.3 | 92.0 | 104.3 | 80.5 | 86.0 | 93.7 | 84.3 | 91.0 | 80.0 | 76.3 | 78.2 | 74.3 | 75.3 | 89.5 | 85.3 | 81.1 | 67.7 | 94.0 |
| 8 | DH-271 | 96.3 | 88.7 | 104.0 | - | 84.0 | 99.0 | 83.7 | 92.6 | 79.7 | 73.3 | 76.5 | 73.0 | 73.3 | 91.0 | 78.7 | 79.0 | 65.0 | 90.0 |
| 9 | AH-1212 | 101.7 | 95.3 | 105.3 | 82.5 | 83.3 | 98.0 | 85.0 | 93.0 | 84.3 | 80.0 | 82.2 | 76.3 | 77.0 | 89.0 | 87.0 | 82.3 | 69.7 | 92.0 |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 94.0 | 93.3 | 101.0 | 79.0 | 82.0 | 99.3 | 84.3 | 90.4 | 81.3 | 71.7 | 76.5 | 74.7 | 76.0 | 85.5 | 85.0 | 80.3 | 65.7 | 88.0 |
| 11 | Vivek Hybrid 9 | 93.3 | 91.7 | 101.0 | 81.0 | 83.3 | 98.7 | 83.3 | 90.3 | 76.0 | 72.3 | 74.2 | 74.7 | 75.0 | 86.0 | 83.0 | 79.7 | 64.7 | 87.3 |
| 12 | Vivek Hybrid 21 | 96.3 | 91.7 | 102.0 | 78.5 | 81.7 | 86.0 | 83.7 | 88.5 | 76.0 | 71.0 | 73.5 | 72.0 | 73.3 | 87.5 | 82.3 | 78.8 | 64.7 | 87.7 |
| 13 | Vivek Hybrid 43 | 99.3 | 95.3 | 104.3 | 85.5 | 83.3 | 92.3 | 85.7 | 92.3 | 79.7 | 74.7 | 77.2 | 74.7 | 76.0 | 89.0 | 80.3 | 80.0 | 67.0 | 92.7 |
| | Loc. Mean | 95.0 | 90.0 | 103.0 | 80.6 | 83.3 | 94.5 | 84.3 | 90.2 | 78.4 | 73.7 | 76.0 | 73.7 | 74.7 | 88.2 | 81.8 | 79.6 | 65.5 | 88.5 |
| | C.D. (5%) | 1.77 | 2.14 | 1.94 | 5.37 | 2.26 | 3.25 | 2.35 | 3.06 | 1.46 | 1.69 | 3.83 | 2.14 | 2.17 | 2.35 | 3.25 | 2.78 | 3.25 | 1.37 |
| | C.V. (%) | 1.11 | 1.41 | 1.12 | 2.91 | 1.61 | 2.04 | 1.65 | 3.18 | 1.11 | 1.36 | 2.31 | 1.73 | 1.72 | 1.23 | 2.36 | 2.44 | 2.94 | 0.92 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.18 | 0.01 | 0.00 | 0.19 | 0.01 | 0.00 | 0.00 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.05 | 0.02 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | | ZN 5 | | OV'L | |
|-------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | CHHI | UDAI | Mean | Mean |
| 1 | DH-266 | 89.3 | 86.3 | 90.7 | 85.3 | 84.3 | 89.3 | 87.3 | 96.0 | 86.0 | 70.0 | 72.0 | 90.3 | 82.7 | 78.8 | 83.8 |
| 2 | DH-267 | 91.7 | 85.3 | 89.3 | 86.7 | 84.3 | 89.7 | 86.3 | 95.7 | 86.0 | 72.0 | 72.7 | 91.0 | 79.7 | 78.8 | 83.5 |
| 3 | DH-268 | 95.3 | 85.0 | 90.3 | 85.0 | 86.3 | 89.7 | 87.0 | 96.3 | 86.4 | 69.7 | 72.7 | 89.7 | 81.0 | 78.2 | 83.5 |
| 4 | FH-3641 | 92.3 | 88.3 | 90.7 | 84.7 | 85.0 | 90.3 | 88.7 | 99.7 | 87.3 | 73.3 | 71.0 | 96.0 | 80.7 | 80.3 | 85.4 |
| 5 | KH-7502 | 92.3 | 84.3 | 91.0 | 86.0 | 86.0 | 91.0 | 87.0 | 99.0 | 87.0 | 71.3 | 72.7 | 93.7 | 79.7 | 79.3 | 84.3 |
| 6 | DH-269 | 94.7 | 86.3 | 95.3 | 85.3 | 86.7 | 90.0 | 87.0 | 99.7 | 87.3 | 73.7 | 73.7 | 90.0 | 83.0 | 80.1 | 84.7 |
| 7 | DH-270 | 97.7 | 87.0 | 94.3 | 86.7 | 86.7 | 90.0 | 87.7 | 101.7 | 89.3 | 75.0 | 72.7 | 94.3 | 80.3 | 80.6 | 86.4 |
| 8 | DH-271 | 96.7 | 91.7 | 94.7 | 88.3 | 85.0 | 91.3 | 87.7 | 99.0 | 88.9 | 72.3 | 71.3 | 93.0 | 81.3 | 79.5 | 85.8 |
| 9 | AH-1212 | 102.3 | 88.7 | 94.7 | 89.3 | 88.0 | 91.3 | 91.7 | 105.7 | 91.3 | 75.3 | 72.7 | 96.7 | 81.7 | 81.6 | 88.3 |
| | CHECKS | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 94.0 | 85.0 | 94.7 | 86.0 | 86.0 | 91.7 | 86.7 | 104.7 | 88.2 | 70.3 | 71.7 | 94.0 | 80.7 | 79.2 | 85.4 |
| 11 | Vivek Hybrid 9 | 96.7 | 86.3 | 90.0 | 84.7 | 87.0 | 91.0 | 87.7 | 98.7 | 87.4 | 70.3 | 70.0 | 96.0 | 81.3 | 79.4 | 84.9 |
| 12 | Vivek Hybrid 21 | 99.3 | 85.7 | 89.7 | 85.7 | 88.0 | 89.7 | 86.3 | 99.0 | 87.6 | 69.0 | 71.0 | 94.7 | 83.3 | 79.5 | 84.3 |
| 13 | Vivek Hybrid 43 | 97.3 | 87.7 | 90.7 | 88.0 | 88.0 | 91.0 | 87.0 | 103.0 | 89.2 | 73.7 | 74.0 | 96.7 | 81.3 | 81.4 | 86.6 |
| | Loc. Mean | 95.4 | 86.7 | 92.0 | 86.3 | 86.3 | 90.5 | 87.5 | 99.8 | 87.8 | 72.0 | 72.2 | 93.5 | 81.3 | 79.7 | 85.1 |
| | C.D. (5%) | 7.11 | 1.97 | 1.35 | 3.22 | 2.51 | 1.55 | 1.49 | 5.50 | 1.51 | 3.53 | 1.68 | 1.29 | 1.35 | 2.55 | 1.08 |
| | C.V. (%) | 4.42 | 1.35 | 0.87 | 2.22 | 1.73 | 1.02 | 1.01 | 3.27 | 1.94 | 2.91 | 1.38 | 0.82 | 0.99 | 2.23 | 2.36 |
| | F (Prob) | 0.06 | 0.00 | 0.00 | 0.11 | 0.04 | 0.05 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | | |
|-------|------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH |
| 1 | DH-266 | 233.3 | 180.0 | 171.0 | 191.3 | 157.0 | 243.3 | 192.7 | 195.5 | 196.7 | 236.7 | 232.0 | 221.8 | 156.3 | 172.3 | 179.9 | 165.5 | 168.5 | 144.0 |
| 2 | DH-267 | 230.0 | 191.7 | 194.3 | 179.0 | 175.7 | 253.3 | 183.7 | 201.1 | 185.0 | 238.3 | 255.0 | 226.1 | 161.0 | 157.3 | 189.1 | 169.0 | 169.1 | 150.0 |
| 3 | DH-268 | 231.7 | 211.7 | 183.3 | 190.5 | 172.3 | 252.3 | 211.0 | 207.5 | 183.3 | 210.0 | 243.7 | 212.3 | 171.1 | 156.7 | 178.1 | 145.5 | 162.9 | 158.0 |
| 4 | FH-3641 | 240.0 | 195.0 | 187.0 | 198.0 | 168.3 | 252.9 | 182.3 | 203.4 | 180.0 | 210.0 | 254.0 | 214.7 | 153.2 | 158.3 | 171.3 | 161.5 | 161.1 | 140.5 |
| 5 | KH-7502 | 235.0 | 203.3 | 210.7 | 193.5 | 178.0 | 224.1 | 198.3 | 206.1 | 196.7 | 211.7 | 255.0 | 221.1 | 166.8 | 165.3 | 191.7 | 161.5 | 171.3 | 155.5 |
| 6 | DH-269 | 241.7 | 185.0 | 198.3 | 189.0 | 157.0 | 195.3 | 208.3 | 196.4 | 180.0 | 215.0 | 250.0 | 215.0 | 163.2 | 162.3 | 184.0 | 152.5 | 165.5 | 151.0 |
| 7 | DH-270 | 231.7 | 183.3 | 192.3 | 215.5 | 163.3 | 219.1 | 198.3 | 200.5 | 185.0 | 238.3 | 245.7 | 223.0 | 159.6 | 169.0 | 175.2 | 163.0 | 166.7 | 151.0 |
| 8 | DH-271 | 243.3 | 219.3 | 200.3 | - | 171.7 | 208.9 | 197.3 | 206.8 | 190.0 | 216.7 | 239.0 | 215.2 | 171.8 | 166.0 | 184.7 | 175.0 | 174.4 | 146.0 |
| 9 | AH-1212 | 240.0 | 223.3 | 199.0 | 229.0 | 151.0 | 216.3 | 177.0 | 205.1 | 183.3 | 228.3 | 249.3 | 220.3 | 177.1 | 160.7 | 199.4 | 158.0 | 173.8 | 171.0 |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 230.0 | 201.7 | 190.5 | 198.8 | 156.3 | 224.5 | 190.7 | 198.9 | 203.3 | 230.0 | 250.0 | 227.8 | 178.9 | 182.0 | 198.9 | 174.0 | 183.5 | 153.0 |
| 11 | Vivek Hybrid 9 | 225.0 | 198.3 | 189.7 | 171.2 | 167.7 | 207.1 | 179.0 | 191.1 | 175.0 | 205.0 | 256.7 | 212.2 | 173.6 | 168.3 | 188.4 | 178.0 | 177.1 | 153.0 |
| 12 | Vivek Hybrid 21 | 226.7 | 200.0 | 171.7 | 188.5 | 165.7 | 183.9 | 179.7 | 188.0 | 176.7 | 240.0 | 247.7 | 221.4 | 153.5 | 160.0 | 182.6 | 164.0 | 165.0 | 154.5 |
| 13 | Vivek Hybrid 43 | 218.3 | 168.3 | 165.3 | 207.0 | 150.3 | 229.0 | 182.7 | 188.7 | 163.3 | 185.0 | 231.7 | 193.3 | 136.5 | 137.0 | 153.8 | 135.0 | 140.6 | 125.5 |
| | Loc. Mean | 232.8 | 197.0 | 188.7 | 195.9 | 164.2 | 223.8 | 190.8 | 199.2 | 184.5 | 220.4 | 246.9 | 217.3 | 163.3 | 162.7 | 182.9 | 161.7 | 167.6 | 150.2 |
| | C.D. (5%) | 9.59 | 22.07 | 20.42 | 12.70 | 6.52 | 18.41 | 32.38 | 14.30 | 7.60 | 11.90 | 15.50 | 17.75 | 17.03 | 13.76 | 17.84 | 10.98 | 9.18 | 8.32 |
| | C.V. (%) | 2.44 | 6.65 | 6.42 | 2.83 | 2.36 | 4.88 | 10.07 | 6.74 | 2.45 | 3.20 | 3.73 | 4.85 | 6.19 | 5.02 | 4.48 | 4.03 | 3.82 | 3.29 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.06 | 0.00 | 0.00 | 0.03 | 0.06 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | | | | | | | | ZN 5 | | OV'L | | | | |
|-------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | COIM | DHAR | HYDE | KARI | KOLH | MAND | SMFP | VAGA | VRDC | Mean | AMBI | BANS | | CHHI | JHAB | UDAI | Mean |
| 1 | DH-266 | 141.7 | 138.9 | 182.7 | 140.0 | 156.7 | 204.3 | 166.7 | 135.1 | 116.7 | 152.7 | 242.3 | 121.8 | 106.7 | 135.3 | 196.7 | 160.5 | 173.7 |
| 2 | DH-267 | 153.7 | 158.9 | 192.0 | 156.3 | 178.3 | 217.0 | 169.3 | 139.5 | 92.3 | 160.7 | 237.8 | 117.2 | 141.7 | 156.6 | 180.0 | 166.7 | 179.4 |
| 3 | DH-268 | 159.4 | 139.0 | 190.7 | 181.3 | 170.0 | 211.3 | 170.7 | 124.6 | 104.3 | 160.9 | 251.5 | 132.3 | 125.0 | 148.9 | 180.0 | 167.5 | 178.9 |
| 4 | FH-3641 | 139.9 | 142.2 | 200.7 | 162.7 | 175.0 | 203.7 | 179.0 | 121.5 | 118.7 | 158.4 | 252.9 | 140.3 | 116.7 | 146.7 | 173.3 | 166.0 | 176.7 |
| 5 | KH-7502 | 176.1 | 169.0 | 197.3 | 171.0 | 190.0 | 224.0 | 174.7 | 139.5 | 115.7 | 171.3 | 247.8 | 133.8 | 140.0 | 157.4 | 170.0 | 169.8 | 184.6 |
| 6 | DH-269 | 161.1 | 148.8 | 186.7 | 149.3 | 161.7 | 200.7 | 177.7 | 146.0 | 110.3 | 159.3 | 231.8 | 122.0 | 105.0 | 145.8 | 170.0 | 154.9 | 174.1 |
| 7 | DH-270 | 179.4 | 143.9 | 190.7 | 164.0 | 208.3 | 206.0 | 172.7 | 147.8 | 99.7 | 166.3 | 241.1 | 115.6 | 120.0 | 146.9 | 190.0 | 162.7 | 179.9 |
| 8 | DH-271 | 161.7 | 157.5 | 196.0 | 164.7 | 173.3 | 210.3 | 176.7 | 134.3 | 106.0 | 162.6 | 241.3 | 125.5 | 128.3 | 149.3 | 178.3 | 164.5 | 179.8 |
| 9 | AH-1212 | 159.9 | 157.4 | 202.0 | 171.7 | 173.3 | 221.3 | 192.3 | 146.9 | 120.0 | 171.6 | 256.5 | 135.4 | 126.7 | 160.1 | 180.0 | 171.7 | 185.0 |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 168.2 | 167.3 | 200.0 | 160.3 | 178.3 | 216.0 | 183.0 | 131.9 | 122.3 | 168.0 | 248.7 | 123.9 | 130.0 | 152.8 | 173.3 | 165.8 | 183.4 |
| 11 | Vivek Hybrid 9 | 153.6 | 165.2 | 196.0 | 155.7 | 155.0 | 206.0 | 180.7 | 135.8 | 117.0 | 161.8 | 240.1 | 138.7 | 131.7 | 149.2 | 163.3 | 164.6 | 176.7 |
| 12 | Vivek Hybrid 21 | 152.0 | 164.0 | 194.3 | 147.3 | 175.0 | 215.3 | 179.3 | 131.7 | 126.3 | 164.0 | 241.4 | 117.0 | 128.3 | 148.0 | 150.0 | 156.9 | 174.7 |
| 13 | Vivek Hybrid 43 | 138.7 | 138.7 | 178.0 | 135.7 | 146.7 | 195.0 | 169.3 | 105.0 | 96.7 | 142.9 | 194.2 | 97.1 | 111.7 | 137.4 | 160.0 | 140.1 | 158.4 |
| | Loc. Mean | 157.3 | 153.1 | 192.8 | 158.5 | 172.4 | 210.1 | 176.3 | 133.8 | 111.2 | 161.6 | 240.6 | 124.7 | 124.0 | 148.8 | 174.2 | 162.4 | 177.3 |
| | C.D. (5%) | 21.27 | 17.90 | 8.30 | 8.20 | 21.85 | 17.69 | 15.48 | 14.00 | 31.04 | 7.58 | 21.85 | 19.27 | 15.70 | 6.21 | 11.85 | 12.36 | 5.36 |
| | C.V. (%) | 8.02 | 6.94 | 2.55 | 3.07 | 7.52 | 5.00 | 5.21 | 6.21 | 16.56 | 5.29 | 5.39 | 9.17 | 7.51 | 2.48 | 4.04 | 5.98 | 5.86 |
| | F (Prob) | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.13 | 0.00 | 0.48 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 4 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | | | | | |
|-------|------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 1 | | | | | | | ZN 2 | | | | | ZN 3 | | | | | |
| | | ALMO | BAJA | BARA | BERT | KANG | POON | UDHA | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH |
| 1 | DH-266 | 113.3 | 86.7 | 84.1 | 95.0 | 74.3 | 88.0 | 89.7 | 90.2 | 91.7 | 103.3 | 99.3 | 98.1 | 73.9 | 91.3 | 76.9 | 69.0 | 77.8 | 70.0 |
| 2 | DH-267 | 115.0 | 98.3 | 94.0 | 85.5 | 85.3 | 83.4 | 91.0 | 93.2 | 90.0 | 111.7 | 109.7 | 103.8 | 74.7 | 77.3 | 85.4 | 78.0 | 78.9 | 71.5 |
| 3 | DH-268 | 113.3 | 105.0 | 90.0 | 76.0 | 81.3 | 101.3 | 98.0 | 95.0 | 85.0 | 105.0 | 97.3 | 95.8 | 74.0 | 69.7 | 76.1 | 57.5 | 69.3 | 74.5 |
| 4 | FH-3641 | 115.0 | 93.3 | 84.3 | 84.0 | 77.0 | 97.9 | 86.3 | 91.1 | 90.0 | 96.7 | 109.3 | 98.7 | 59.4 | 78.7 | 75.6 | 66.5 | 70.1 | 68.5 |
| 5 | KH-7502 | 113.3 | 103.3 | 105.0 | 80.0 | 85.7 | 74.9 | 96.3 | 94.1 | 96.7 | 95.0 | 107.7 | 99.8 | 72.4 | 79.7 | 76.8 | 74.0 | 75.7 | 66.5 |
| 6 | DH-269 | 116.7 | 88.3 | 100.2 | 78.5 | 77.0 | 63.2 | 107.3 | 90.2 | 86.7 | 101.7 | 106.7 | 98.3 | 75.6 | 85.7 | 81.1 | 56.5 | 74.7 | 77.5 |
| 7 | DH-270 | 116.7 | 96.7 | 98.7 | 119.0 | 83.0 | 70.6 | 97.7 | 97.5 | 98.3 | 110.0 | 107.7 | 105.3 | 72.2 | 85.0 | 86.5 | 75.0 | 79.7 | 72.5 |
| 8 | DH-271 | 118.3 | 111.7 | 99.7 | - | 78.3 | 68.3 | 94.3 | 95.1 | 88.3 | 101.7 | 100.3 | 96.8 | 77.3 | 81.7 | 78.9 | 73.0 | 77.7 | 74.5 |
| 9 | AH-1212 | 126.7 | 115.0 | 102.6 | 133.5 | 75.3 | 61.9 | 85.0 | 100.0 | 95.0 | 118.3 | 117.0 | 110.1 | 80.9 | 96.0 | 95.8 | 76.5 | 87.3 | 87.0 |
| | CHECKS | | | | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 115.0 | 88.3 | 88.3 | 73.5 | 68.7 | 81.6 | 95.0 | 87.2 | 91.7 | 96.7 | 100.3 | 96.2 | 78.0 | 83.3 | 98.3 | 62.5 | 80.5 | 73.0 |
| 11 | Vivek Hybrid 9 | 113.3 | 83.3 | 86.0 | 86.5 | 78.3 | 61.4 | 88.3 | 85.3 | 83.3 | 98.3 | 101.7 | 94.4 | 63.8 | 75.3 | 74.3 | 58.0 | 67.9 | 69.0 |
| 12 | Vivek Hybrid 21 | 110.0 | 95.0 | 76.7 | 74.0 | 71.7 | 71.5 | 85.0 | 83.4 | 73.3 | 118.3 | 92.0 | 94.6 | 57.5 | 55.0 | 89.0 | 57.5 | 64.8 | 62.0 |
| 13 | Vivek Hybrid 43 | 105.0 | 65.0 | 75.3 | 102.5 | 71.3 | 74.3 | 83.3 | 82.4 | 75.0 | 93.3 | 91.0 | 86.4 | 45.6 | 59.3 | 70.6 | 50.0 | 56.4 | 53.0 |
| | Loc. Mean | 114.7 | 94.6 | 91.1 | 90.7 | 77.5 | 76.8 | 92.1 | 91.1 | 88.1 | 103.8 | 103.1 | 98.3 | 69.6 | 78.3 | 81.9 | 65.7 | 73.9 | 70.7 |
| | C.D. (5%) | 8.73 | 18.03 | 14.56 | 6.19 | 5.06 | 11.58 | 15.89 | 11.17 | 6.42 | 11.75 | 10.76 | 10.81 | 16.52 | 16.00 | 15.80 | 10.80 | 9.61 | 7.22 |
| | C.V. (%) | 4.51 | 11.31 | 9.48 | 2.98 | 3.87 | 8.95 | 10.24 | 11.50 | 4.33 | 6.71 | 6.20 | 6.52 | 14.08 | 12.13 | 8.85 | 9.75 | 9.07 | 6.06 |
| | F (Prob) | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.05 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : VRDCD 31.5%

BR166

Table No. 4 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | OV'L | |
|-------|------------------|----------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | COIM | DHAR | HYDE | KOLH | MAND | SMFP | VAGA | VRDC | ZN 4 | | | | ZN 5 | | |
| | | | | | | | | | | Mean | AMBI | BANS | CHHI | UDAI | | Mean |
| 1 | DH-266 | 76.7 | 62.3 | 68.7 | 46.7 | 102.0 | 81.0 | 54.8 | 38.7 | 70.3 | 92.3 | 55.3 | 41.7 | 88.3 | 69.4 | 79.9 |
| 2 | DH-267 | 84.6 | 76.2 | 77.0 | 56.7 | 104.7 | 87.7 | 60.9 | 31.3 | 77.4 | 88.7 | 40.6 | 63.3 | 83.3 | 69.0 | 83.6 |
| 3 | DH-268 | 65.5 | 54.0 | 74.3 | 48.3 | 104.0 | 79.0 | 51.3 | 33.3 | 68.9 | 90.2 | 47.3 | 43.3 | 81.7 | 65.6 | 78.6 |
| 4 | FH-3641 | 67.2 | 56.0 | 82.3 | 50.0 | 99.0 | 91.7 | 50.5 | 39.0 | 70.7 | 88.7 | 57.3 | 48.3 | 86.7 | 70.2 | 79.2 |
| 5 | KH-7502 | 82.1 | 79.1 | 76.7 | 55.0 | 113.0 | 93.0 | 54.4 | 50.3 | 77.5 | 90.6 | 58.8 | 55.0 | 81.7 | 71.5 | 83.3 |
| 6 | DH-269 | 88.9 | 64.7 | 75.7 | 51.7 | 112.0 | 81.7 | 59.3 | 45.7 | 76.4 | 82.7 | 43.8 | 43.3 | 78.3 | 62.0 | 80.2 |
| 7 | DH-270 | 74.9 | 57.3 | 76.7 | 80.0 | 103.0 | 108.7 | 64.7 | 33.3 | 79.7 | 103.3 | 53.8 | 46.7 | 91.7 | 73.8 | 86.5 |
| 8 | DH-271 | 85.4 | 70.5 | 82.0 | 55.0 | 105.3 | 96.3 | 61.3 | 37.7 | 78.8 | 94.4 | 50.7 | 50.0 | 78.3 | 68.4 | 83.0 |
| 9 | AH-1212 | 96.8 | 79.0 | 90.7 | 56.7 | 115.0 | 94.7 | 65.7 | 55.0 | 85.7 | 109.3 | 58.7 | 56.7 | 85.0 | 77.4 | 91.3 |
| | CHECKS | | | | | | | | | | | | | | | |
| 10 | Vivek QPM 9 | 68.7 | 72.8 | 72.3 | 60.0 | 107.3 | 76.3 | 49.5 | 45.0 | 72.5 | 86.7 | 53.9 | 55.0 | 75.0 | 67.7 | 79.7 |
| 11 | Vivek Hybrid 9 | 70.5 | 63.8 | 77.3 | 40.0 | 102.3 | 86.7 | 53.1 | 35.0 | 70.3 | 82.7 | 50.6 | 43.3 | 81.7 | 64.6 | 75.9 |
| 12 | Vivek Hybrid 21 | 58.3 | 55.6 | 75.7 | 41.7 | 108.0 | 76.0 | 44.6 | 36.7 | 65.2 | 68.1 | 42.1 | 48.3 | 71.7 | 57.5 | 72.3 |
| 13 | Vivek Hybrid 43 | 55.1 | 55.3 | 65.7 | 45.0 | 98.7 | 72.3 | 42.6 | 37.3 | 61.0 | 61.9 | 32.2 | 33.3 | 68.3 | 48.9 | 67.1 |
| | Loc. Mean | 75.0 | 65.1 | 76.5 | 52.8 | 105.7 | 86.5 | 54.8 | 39.9 | 73.4 | 87.7 | 49.6 | 48.3 | 80.9 | 66.6 | 80.1 |
| | C.D. (5%) | 11.38 | 15.80 | 7.29 | 12.40 | 9.24 | 14.09 | 7.44 | 21.16 | 6.23 | 10.42 | 11.77 | 13.15 | 15.55 | 8.76 | 4.12 |
| | C.V. (%) | 9.01 | 14.39 | 5.65 | 13.93 | 5.19 | 9.66 | 8.05 | 31.50 | 8.53 | 7.05 | 14.07 | 16.15 | 11.41 | 9.17 | 9.43 |
| | F (Prob) | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.01 | 0.18 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : VRDCD 31.5%

TABLE No. 5: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA IN AVT2 TRIAL No. TR69Z1 (AVT2-L-Z1) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | | | | | |
|----------------------|--------------------|-------------------------------------|----|-------------|----|-------------|----|-------------|----|------------------------------------|------|------|------|-------|------|------|------|---------------|------|------|------|----------|------|------|------|--|
| | | BAJA | | BARA | | KANG | | ZN 1 | | PMH-1 | | ZN 1 | | PMH-3 | | ZN 1 | | Seedtech-2324 | | ZN 1 | | BIO-9681 | | ZN 1 | | |
| | | BAJA | R | BARA | R | KANG | R | MEAN | R | BAJA | BARA | KANG | MEAN | BAJA | BARA | KANG | MEAN | BAJA | BARA | KANG | MEAN | BAJA | BARA | KANG | MEAN | |
| 1 | HTMH 5106 | 12801 | 5 | 3782 | 8 | 7793 | 5 | 8125 | 5 | 24.3 | - | 16.9 | 13.1 | 18 | 19.2 | 7.8 | 14.7 | 7.6 | 10.9 | 39.3 | 16.6 | 22.8 | - | 36.3 | 21.3 | |
| 2 | HTMH 5402 | 11237 | 9 | 4117 | 5 | 5690 | 12 | 7014 | 10 | 9.1 | - | - | - | 3.6 | 29.8 | - | - | - | 20.7 | 1.7 | 0.7 | 7.8 | 4.2 | - | 4.7 | |
| 3 | PFMH-97-I-57(AMAR) | 13497 | 1 | 3887 | 7 | 6953 | 8 | 8113 | 6 | 31 | - | 4.3 | 12.9 | 24.4 | 22.5 | - | 14.6 | 13.5 | 14 | 24.3 | 16.5 | 29.4 | - | 21.7 | 21.1 | |
| 4 | MCH-45 | 12729 | 6 | 3374 | 11 | 9273 | 1 | 8459 | 3 | 23.6 | - | 39.2 | 17.8 | 17.4 | 6.3 | 28.3 | 19.4 | 7 | - | 65.8 | 21.4 | 22.1 | - | 62.2 | 26.3 | |
| 5 | P3580(X35A180) | 12905 | 3 | 4212 | 4 | 8366 | 3 | 8494 | 2 | 25.3 | - | 25.5 | 18.2 | 19 | 32.8 | 15.8 | 19.9 | 8.5 | 23.5 | 49.5 | 21.9 | 23.7 | 6.6 | 46.4 | 26.8 | |
| 6 | PRO-385 | 13004 | 2 | 4527 | 3 | 7198 | 7 | 8243 | 4 | 26.2 | - | 8 | 14.7 | 19.9 | 42.7 | - | 16.4 | 9.3 | 32.8 | 28.7 | 18.3 | 24.7 | 14.5 | 25.9 | 23.1 | |
| 7 | PRO-384 | 12418 | 7 | 3751 | 9 | 6256 | 10 | 7475 | 7 | 20.6 | - | - | 4.1 | 14.5 | 18.2 | - | 5.6 | 4.4 | 10 | 11.8 | 7.3 | 19.1 | - | 9.5 | 11.6 | |
| 8 | MCH-46 | 12840 | 4 | 5032 | 1 | 8373 | 2 | 8748 | 1 | 24.7 | 9.7 | 25.6 | 21.8 | 18.4 | 58.6 | 15.9 | 23.5 | 7.9 | 47.6 | 49.7 | 25.6 | 23.1 | 27.3 | 46.5 | 30.6 | |
| 9 | GK-3103 | 10963 | 10 | 2202 | 13 | 7830 | 4 | 6998 | 11 | 6.4 | - | 17.5 | - | 1.1 | - | 8.3 | - | - | - | 39.9 | 0.5 | 5.1 | - | 37 | 4.5 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | PMH-1 | 10301 | 13 | 4586 | 2 | 6664 | 9 | 7184 | 8 | - | - | - | - | - | 44.6 | - | 1.4 | - | 34.5 | 19.1 | 3.1 | - | 16 | 16.6 | 7.2 | |
| 11 | PMH-3 | 10847 | 11 | 3172 | 12 | 7226 | 6 | 7082 | 9 | 5.3 | - | 8.4 | - | - | - | - | - | - | - | 29.2 | 1.7 | 4 | - | 26.4 | 5.7 | |
| 12 | Seedtech-2324 | 11895 | 8 | 3409 | 10 | 5595 | 13 | 6966 | 12 | 15.5 | - | - | - | 9.7 | 7.5 | - | - | - | - | - | - | 14.1 | - | - | 4 | |
| 13 | BIO-9681 | 10428 | 12 | 3952 | 6 | 5716 | 11 | 6699 | 13 | 1.2 | - | - | - | - | 24.6 | - | - | - | 15.9 | 2.2 | - | - | - | - | - | |
| Location Mean | | 11990 | | 3846 | | 7149 | | 7662 | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 631 | | 1420 | | 357 | | 803 | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 3.12 | | 16.77 | | 2.96 | | - | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | | 0.044 | | 0 | | - | | | | | | | | | | | | | | | | | | |
| Plot Size | | 10.8 | | 6.75 | | 8.64 | | - | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 27-06 | | 3-07 | | 2-07 | | - | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 26-10 | | 23-10 | | 12-10 | | - | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | 3 | | - | | - | | - | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 120 | | 80 | | 120 | | - | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 60 | | 60 | | - | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | | 40 | | 40 | | - | | | | | | | | | | | | | | | | | | |

BR168

Table No. 5 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | MOISTURE % AT HARVEST | | | | STAND AT HARVEST ('000/ha) | | | | DAYS TO 50% POLLEN SHED | | | |
|-------|--------------------|---------------------|-------------|-------------|-------------|-----------------------|--------------|-------------|--------------|----------------------------|--------------|--------------|--------------|-------------------------|-------------|--------------|--------------|
| | | BAJA | BARA | KANG | Mean | BAJA | BARA | KANG | Mean | BAJA | BARA | KANG | Mean | BAJA | BARA | KANG | Mean |
| 1 | HTMH 5106 | 84.7 | 79.0 | 75.1 | 79.6 | 22.2 | 20.0 | 30.3 | 24.2 | 78.4 | 40.7 | 63.7 | 60.9 | 59.3 | 59.5 | 52.3 | 57.1 |
| 2 | HTMH 5402 | 82.1 | 79.3 | 73.0 | 78.1 | 20.4 | 25.5 | 29.3 | 25.1 | 74.1 | 39.3 | 65.2 | 59.5 | 59.0 | 58.5 | 53.3 | 56.9 |
| 3 | PFMH-97-I-57(AMAR) | 82.6 | 82.1 | 73.4 | 79.4 | 22.1 | 27.5 | 29.8 | 26.5 | 70.7 | 37.8 | 62.1 | 56.9 | 57.7 | 60.5 | 51.7 | 56.6 |
| 4 | MCH-45 | 83.5 | 72.1 | 74.3 | 76.6 | 20.7 | 25.5 | 30.0 | 25.4 | 82.1 | 45.2 | 65.6 | 64.3 | 60.0 | 62.0 | 53.0 | 58.3 |
| 5 | P3580(X35A180) | 83.8 | 76.0 | 73.5 | 77.8 | 20.7 | 25.5 | 30.8 | 25.7 | 76.2 | 47.4 | 65.6 | 63.1 | 62.3 | 64.5 | 56.7 | 61.2 |
| 6 | PRO-385 | 83.1 | 78.9 | 75.3 | 79.1 | 21.6 | 26.5 | 30.9 | 26.3 | 76.9 | 47.4 | 65.2 | 63.2 | 58.3 | 60.5 | 53.0 | 57.3 |
| 7 | PRO-384 | 81.2 | 81.8 | 73.4 | 78.8 | 19.9 | 22.0 | 30.7 | 24.2 | 76.9 | 45.2 | 66.4 | 62.8 | 58.0 | 60.5 | 52.3 | 56.9 |
| 8 | MCH-46 | 85.2 | 75.7 | 72.6 | 77.8 | 20.4 | 29.0 | 31.0 | 26.8 | 73.8 | 48.9 | 64.4 | 62.4 | 61.0 | 64.5 | 55.7 | 60.4 |
| 9 | GK-3103 | 85.6 | 82.2 | 75.5 | 81.1 | 22.5 | 25.5 | 31.3 | 26.4 | 71.3 | 31.1 | 63.3 | 55.2 | 57.7 | 59.5 | 52.7 | 56.6 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 10 | PMH-1 | 83.5 | 82.9 | 88.3 | 84.9 | 21.8 | 32.0 | 29.1 | 27.6 | 75.3 | 45.9 | 64.4 | 61.9 | 58.3 | 61.0 | 52.7 | 57.3 |
| 11 | PMH-3 | 82.8 | 80.8 | 71.3 | 78.3 | 20.4 | 29.5 | 30.4 | 26.7 | 78.7 | 40.0 | 63.3 | 60.7 | 61.0 | 62.0 | 54.3 | 59.1 |
| 12 | Seedtech-2324 | 83.7 | 74.5 | 75.0 | 77.7 | 22.0 | 24.0 | 29.2 | 25.0 | 78.7 | 43.0 | 66.4 | 62.7 | 59.0 | 60.5 | 52.3 | 57.3 |
| 13 | BIO-9681 | 84.5 | 85.1 | 76.2 | 81.9 | 22.3 | 23.0 | 28.2 | 24.5 | 78.1 | 43.0 | 66.0 | 62.3 | 55.0 | 59.0 | 46.7 | 53.6 |
| | Loc. Mean | 83.6 | 79.2 | 75.1 | 79.3 | 21.3 | 25.8 | 30.1 | 25.7 | 76.2 | 42.7 | 64.7 | 61.2 | 59.0 | 61.0 | 52.8 | 57.6 |
| | C.D. (5%) | 2.13 | 1.62 | 1.31 | 5.13 | 0.53 | 6.85 | 1.05 | 3.47 | 6.02 | 9.33 | 4.09 | 4.65 | 1.56 | 3.48 | 1.37 | 1.54 |
| | C.V. (%) | 1.51 | 0.94 | 1.04 | 3.84 | 1.49 | 12.18 | 2.08 | 8.00 | 4.69 | 10.03 | 3.75 | 4.51 | 1.57 | 2.62 | 1.54 | 1.59 |
| | F (Prob) | 0.01 | 0.00 | 0.00 | 0.17 | 0.00 | 0.10 | 0.00 | 0.59 | 0.03 | 0.05 | 0.56 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 |
| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | DAYS TO 75% DRY HUSK | | | | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | |
| | | BAJA | BARA | KANG | Mean | BAJA | BARA | KANG | Mean | BAJA | BARA | KANG | Mean | BAJA | BARA | KANG | Mean |
| 1 | HTMH 5106 | 61.3 | 60.5 | 55.7 | 59.2 | 100.0 | 113.0 | 95.0 | 102.7 | 225.0 | 189.0 | 251.0 | 221.7 | 115.0 | 89.5 | 137.3 | 113.9 |
| 2 | HTMH 5402 | 61.0 | 59.5 | 56.0 | 58.8 | 102.0 | 113.0 | 95.3 | 103.4 | 236.7 | 192.0 | 244.3 | 224.3 | 123.3 | 95.0 | 124.7 | 114.3 |
| 3 | PFMH-97-I-57(AMAR) | 59.7 | 61.5 | 54.7 | 58.6 | 103.7 | 113.0 | 94.0 | 103.6 | 205.0 | 187.0 | 228.7 | 206.9 | 86.7 | 65.5 | 105.0 | 85.7 |
| 4 | MCH-45 | 62.7 | 63.0 | 56.0 | 60.6 | 103.7 | 113.0 | 95.3 | 104.0 | 221.7 | 201.0 | 254.3 | 225.7 | 110.0 | 96.0 | 140.0 | 115.3 |
| 5 | P3580(X35A180) | 64.3 | 65.5 | 60.0 | 63.3 | 103.0 | 113.0 | 99.3 | 105.1 | 258.3 | 219.0 | 298.0 | 258.4 | 136.7 | 124.5 | 153.3 | 138.2 |
| 6 | PRO-385 | 60.7 | 61.5 | 56.7 | 59.6 | 99.3 | 113.0 | 96.0 | 102.8 | 233.3 | 203.5 | 247.3 | 228.1 | 118.3 | 93.5 | 125.3 | 112.4 |
| 7 | PRO-384 | 60.0 | 61.5 | 55.3 | 58.9 | 98.7 | 113.0 | 94.7 | 102.1 | 225.0 | 193.5 | 236.7 | 218.4 | 106.7 | 86.5 | 115.0 | 102.7 |
| 8 | MCH-46 | 63.3 | 65.5 | 59.3 | 62.7 | 105.3 | 114.0 | 98.7 | 106.0 | 253.3 | 216.5 | 271.7 | 247.2 | 129.3 | 98.5 | 145.7 | 124.5 |
| 9 | GK-3103 | 59.7 | 65.5 | 56.0 | 60.4 | 99.7 | 113.0 | 95.3 | 102.7 | 211.7 | 193.5 | 254.0 | 219.7 | 106.7 | 87.0 | 132.3 | 108.7 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 10 | PMH-1 | 61.0 | 62.0 | 55.3 | 59.4 | 96.3 | 112.0 | 94.7 | 101.0 | 261.7 | 224.5 | 286.0 | 257.4 | 135.0 | 124.0 | 154.3 | 137.8 |
| 11 | PMH-3 | 63.0 | 63.0 | 57.0 | 61.0 | 101.7 | 112.0 | 96.3 | 103.3 | 240.0 | 191.0 | 281.0 | 237.3 | 128.3 | 97.0 | 161.7 | 129.0 |
| 12 | Seedtech-2324 | 61.0 | 59.5 | 55.0 | 58.5 | 100.0 | 112.0 | 94.3 | 102.1 | 221.7 | 196.5 | 236.0 | 218.1 | 128.3 | 104.0 | 135.0 | 122.4 |
| 13 | BIO-9681 | 58.0 | 60.0 | 49.7 | 55.9 | 96.0 | 112.5 | 89.0 | 99.2 | 216.7 | 205.0 | 251.0 | 224.2 | 93.3 | 85.5 | 127.3 | 102.1 |
| | Loc. Mean | 61.2 | 62.2 | 55.9 | 59.8 | 100.7 | 112.8 | 95.2 | 102.9 | 231.5 | 200.9 | 256.9 | 229.8 | 116.7 | 95.9 | 135.2 | 115.9 |
| | C.D. (5%) | 1.53 | 4.52 | 1.57 | 2.06 | 2.39 | 2.81 | 1.57 | 2.79 | 20.23 | 27.63 | 11.91 | 15.23 | 18.11 | 27.66 | 8.37 | 11.60 |
| | C.V. (%) | 1.48 | 3.33 | 1.67 | 2.04 | 1.41 | 1.14 | 0.98 | 1.61 | 5.18 | 6.31 | 2.75 | 3.93 | 9.21 | 13.24 | 3.68 | 5.94 |
| | F (Prob) | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.95 | 0.00 | 0.01 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 |

TABLE No. 6: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT KARNAL, LUDHIANA, PANTNAGAR IN AVT1 TRIAL No. TR65Z2 (AVT1-L-Z2) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | GRAIN YIELD % SUPERIORITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---------------------------------|-------------------------------------|-------------|-------------|-------------|----------|---|-------|---|-----------|-----|------|---------------------------|------|------|------|----------------|------|------|------|------|------|------|------|----------------|------|------|------|------------------------|------|------|------|------|------|------|------|-------------------|------|------|--|------|--|--|--|
| | | KARNAL | | | | LUDHIANA | | | | PANTNAGAR | | | ZN 2 | | | | OVER THE PMH-1 | | | | ZN 2 | | | | OVER THE PMH-3 | | | | OVER THE Seedtech-2324 | | | | ZN 2 | | | | OVER THE BIO-9681 | | | | ZN 2 | | | |
| | | R | R | R | R | R | R | R | R | R | R | R | MEAN | MEAN | MEAN | KARN | LUDH | PANT | MEAN | KARN | LUDH | PANT | MEAN | KARN | LUDH | PANT | MEAN | KARN | LUDH | PANT | MEAN | KARN | LUDH | PANT | MEAN | KARN | LUDH | PANT | MEAN | | | | | |
| 1 | FMH-11195 | 8313 | 4 | 9400 | 2 | 9493 | 5 | 9069 | 3 | 3.7 | 3.9 | - | 1.1 | - | - | - | - | - | 52.1 | 7.8 | 10.6 | 0.3 | 39.9 | 16.7 | 17.6 | | | | | | | | | | | | | | | | | | | |
| 2 | JH-31601 | 8652 | 3 | 9269 | 3 | 12140 | 1 | 10020 | 1 | 7.9 | 2.5 | 23.3 | 11.7 | - | - | 14.4 | 0.6 | - | 50 | 37.9 | 22.2 | 4.4 | 38 | 49.2 | 29.9 | | | | | | | | | | | | | | | | | | | |
| 3 | JH-31555 | 7150 | 8 | 7949 | 5 | 7574 | 8 | 7558 | 8 | - | - | - | - | - | - | - | - | - | 28.6 | - | - | - | 18.3 | - | - | | | | | | | | | | | | | | | | | | | |
| 4 | Seedtech-2324(Filler) CHECKS | 7855 | 7 | 6564 | 7 | 10559 | 3 | 8326 | 5 | - | - | 7.2 | - | - | - | - | - | - | 6.2 | 19.9 | 1.6 | - | - | 29.8 | 8 | | | | | | | | | | | | | | | | | | | |
| 5 | PMH-1 | 8015 | 6 | 9045 | 4 | 9848 | 4 | 8969 | 4 | - | - | - | - | - | - | - | - | - | 46.4 | 11.9 | 9.4 | - | 34.6 | 21.1 | 16.3 | | | | | | | | | | | | | | | | | | | |
| 6 | PMH-3 | 9232 | 2 | 10035 | 1 | 10613 | 2 | 9960 | 2 | 15.2 | 11 | 7.8 | 11 | - | - | - | - | - | 62.4 | 20.6 | 21.5 | 11.4 | 49.4 | 30.5 | 29.1 | | | | | | | | | | | | | | | | | | | |
| 7 | Seedtech-2324 | 9612 | 1 | 6179 | 8 | 8804 | 6 | 8198 | 6 | 19.9 | - | - | - | 4.1 | - | - | - | - | - | - | - | 16 | - | 8.2 | 6.3 | | | | | | | | | | | | | | | | | | | |
| 8 | BIO-9681 | 8285 | 5 | 6718 | 6 | 8134 | 7 | 7712 | 7 | 3.4 | - | - | - | - | - | - | - | - | 8.7 | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | |
| Location Mean | | 8389 | 8145 | 9646 | 8727 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 701 | 1105 | 1733 | 1179 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 4.74 | 7.69 | 10.18 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | 0 | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 12 | 10.92 | 12 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 28-06 | 21-06 | 4-08 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 10-08 | 8-10 | 22-11 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | 6 | 5 | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 150 | 125 | 120 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | 60 | 60 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 60 | 30 | 40 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Table No. 6 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | MOISTURE % AT HARVEST | | | | STAND AT HARVEST ('000/ha) | | | | DAYS TO 50% POLLEN SHED | | | |
|-------|-----------------------|---------------------|-------------|-------------|--------------|-----------------------|-------------|--------------|------------------|----------------------------|--------------|--------------|----------------|-------------------------|--------------|--------------|--------------|
| | | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean |
| 1 | FMH-11195 | 65.2 | 83.0 | 86.6 | 78.3 | 27.2 | 22.3 | 27.5 | 25.6 | 64.2 | 69.6 | 58.3 | 64.0 | 51.3 | 46.7 | 50.3 | 49.4 |
| 2 | JH-31601 | 67.2 | 82.7 | 87.1 | 79.0 | 25.1 | 25.2 | 27.7 | 26.0 | 61.7 | 68.4 | 61.4 | 63.8 | 51.3 | 50.7 | 50.7 | 50.9 |
| 3 | JH-31555 | 65.9 | 78.8 | 85.1 | 76.6 | 23.9 | 23.0 | 28.3 | 25.0 | 60.8 | 68.1 | 57.8 | 62.2 | 51.7 | 48.0 | 50.0 | 49.9 |
| 4 | Seedtech-2324(Filler) | 66.1 | 82.4 | 87.1 | 78.5 | 26.0 | 25.6 | 28.7 | 26.7 | 62.5 | 72.6 | 59.2 | 64.8 | 52.7 | 51.3 | 51.0 | 51.7 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 5 | PMH-1 | 66.0 | 85.1 | 83.8 | 78.3 | 26.1 | 26.1 | 28.1 | 26.8 | 62.5 | 67.5 | 58.9 | 62.9 | 51.3 | 51.3 | 50.3 | 51.0 |
| 6 | PMH-3 | 65.9 | 81.8 | 87.1 | 78.3 | 25.3 | 26.5 | 26.9 | 26.2 | 61.7 | 73.0 | 62.2 | 65.6 | 53.3 | 52.3 | 51.7 | 52.4 |
| 7 | Seedtech-2324 | 67.8 | 82.3 | 85.9 | 78.6 | 25.1 | 27.6 | 28.0 | 26.9 | 64.2 | 69.9 | 59.2 | 64.4 | 51.0 | 51.7 | 50.0 | 50.9 |
| 8 | BIO-9681 | 67.7 | 83.4 | 84.6 | 78.6 | 22.0 | 22.2 | 28.4 | 24.2 | 63.3 | 68.4 | 59.2 | 63.6 | 51.0 | 45.0 | 48.3 | 48.1 |
| | Loc. Mean | 66.5 | 82.4 | 85.9 | 78.3 | 25.1 | 24.8 | 27.9 | 25.9 | 62.6 | 69.7 | 59.5 | 63.9 | 51.7 | 49.6 | 50.3 | 50.5 |
| | C.D. (5%) | 0.89 | 1.94 | 1.38 | 2.54 | 0.62 | 1.07 | 1.14 | 2.56 | - | 2.64 | 5.02 | 2.71 | 1.51 | 1.55 | 1.15 | 2.30 |
| | C.V. (%) | 0.76 | 1.34 | 0.91 | 1.86 | 1.42 | 2.47 | 2.33 | 5.63 | - | 2.17 | 4.82 | 2.42 | 1.67 | 1.79 | 1.30 | 2.60 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.09 | 0.34 | 0.00 | 0.00 | 0.58 | 0.29 | 0.04 | 0.00 | 0.00 | 0.03 |
| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | DAYS TO 75% DRY HUSK | | | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | | |
| | | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | |
| 1 | FMH-11195 | 53.7 | 47.7 | 52.7 | 51.3 | 90.3 | 78.0 | 84.2 | 245.0 | 266.7 | 272.7 | 261.4 | 148.3 | 141.7 | 122.7 | 137.6 | |
| 2 | JH-31601 | 53.3 | 51.7 | 53.7 | 52.9 | 89.3 | 84.0 | 86.7 | 238.3 | 268.3 | 288.7 | 265.1 | 125.0 | 151.0 | 137.3 | 137.8 | |
| 3 | JH-31555 | 54.0 | 49.0 | 52.7 | 51.9 | 90.7 | 80.0 | 85.3 | 260.0 | 253.3 | 270.0 | 261.1 | 151.7 | 145.7 | 127.3 | 141.6 | |
| 4 | Seedtech-2324(Filler) | 55.3 | 52.3 | 53.3 | 53.7 | 91.7 | 88.3 | 90.0 | 220.0 | 248.3 | 260.3 | 242.9 | 116.7 | 137.3 | 118.0 | 124.0 | |
| | CHECKS | | | | | | | | | | | | | | | | |
| 5 | PMH-1 | 53.3 | 52.3 | 53.0 | 52.9 | 88.7 | 82.7 | 85.7 | 253.3 | 278.3 | 294.0 | 275.2 | 150.0 | 155.0 | 134.7 | 146.6 | |
| 6 | PMH-3 | 55.3 | 53.0 | 54.7 | 54.3 | 91.3 | 85.3 | 88.3 | 253.3 | 291.7 | 276.7 | 273.9 | 145.0 | 160.0 | 125.7 | 143.6 | |
| 7 | Seedtech-2324 | 53.0 | 52.7 | 53.0 | 52.9 | 90.3 | 89.7 | 90.0 | 223.3 | 241.7 | 254.3 | 239.8 | 128.3 | 138.3 | 116.7 | 127.8 | |
| 8 | BIO-9681 | 53.0 | 46.0 | 50.7 | 49.9 | 90.0 | 78.7 | 84.3 | 230.0 | 245.0 | 286.3 | 253.8 | 120.0 | 118.3 | 124.3 | 120.9 | |
| | Loc. Mean | 53.9 | 50.6 | 53.0 | 52.5 | 90.3 | 83.3 | 86.8 | 240.4 | 261.7 | 275.4 | 259.2 | 135.6 | 143.4 | 125.8 | 135.0 | |
| | C.D. (5%) | 1.50 | 1.46 | 1.78 | 2.28 | 2.30 | 2.09 | 6.89 | 7.96 | 18.95 | 26.04 | 18.22 | 7.99 | 13.09 | 16.02 | 15.60 | |
| | C.V. (%) | 1.59 | 1.65 | 1.92 | 2.48 | 1.45 | 1.43 | 3.36 | 1.89 | 4.14 | 5.40 | 4.02 | 3.37 | 5.21 | 7.27 | 6.60 | |
| | F (Prob) | 0.02 | 0.00 | 0.02 | 0.02 | 0.19 | 0.00 | 0.36 | 0.00 | 0.00 | 0.06 | 0.01 | 0.00 | 0.00 | 0.15 | 0.02 | |

TABLE No. 7 : PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT BHUBANESHWAR, DHOLI, RANCHI, VARANASI IN AVT1 TRIAL No. TR65Z3(AVT1-L-Z3) & AVT2 TRILAL No. TR69Z3(AVT2-L-Z3) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PMH-1 | | | | |
|----------------------|----------------|-------------------------------------|----|--------------|----|--------------|----|-------------|----|-------------|----|--|------|------|------|------|
| | | BHUB | R | DHOL | R | RANC | R | VARA | R | MEAN | R | BHUB | DHOL | RANC | VARA | MEAN |
| 1 | LTH-20 | 7046 | 5 | 4339 | 13 | 12399 | 5 | 8791 | 2 | 9412 | 3 | 2.7 | - | 5.7 | 25.3 | 10.2 |
| 2 | Ryder-M | 7336 | 2 | 6414 | 5 | 12849 | 3 | 8887 | 1 | 9691 | 2 | 6.9 | 47.1 | 9.5 | 26.6 | 13.5 |
| 3 | CMH10-477 | 6719 | 11 | 4543 | 11 | 9646 | 14 | 6924 | 12 | 7763 | 14 | - | 4.2 | - | - | - |
| 4 | P3491(X35B391) | 7698 | 1 | 7050 | 2 | 14480 | 1 | 7212 | 8 | 9797 | 1 | 12.2 | 61.6 | 23.4 | 2.8 | 14.7 |
| 5 | P3596(X35B396) | 6774 | 10 | 6076 | 6 | 11930 | 7 | 8650 | 3 | 9118 | 5 | - | 39.3 | 1.7 | 23.3 | 6.8 |
| 6 | CMH-08-381 | 6706 | 12 | 6609 | 3 | 10825 | 10 | 8130 | 4 | 8554 | 8 | - | 51.5 | - | 15.9 | 0.2 |
| 7 | CMH-08-381(G) | 6199 | 14 | 5837 | 7 | 10682 | 12 | 7922 | 6 | 8268 | 12 | - | 33.8 | - | 12.9 | - |
| 8 | CMH-09-464 | 6852 | 8 | 7516 | 1 | 10018 | 13 | 8121 | 5 | 8330 | 10 | - | 72.3 | - | 15.7 | - |
| 9 | P3580(X35A180) | 6831 | 9 | 6514 | 4 | 12737 | 4 | 7446 | 7 | 9004 | 6 | - | 49.3 | 8.6 | 6.1 | 5.5 |
| 10 | Orbit | 7161 | 3 | 5257 | 10 | 12110 | 6 | 7002 | 11 | 8758 | 7 | 4.3 | 20.5 | 3.2 | - | 2.6 |
| CHECKS | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 6863 | 7 | 4362 | 12 | 11733 | 9 | 7017 | 9 | 8538 | 9 | - | - | - | - | - |
| 12 | PMH-3 | 6915 | 6 | 5267 | 9 | 14138 | 2 | 6912 | 13 | 9322 | 4 | 0.8 | 20.8 | 20.5 | - | 9.2 |
| 13 | Seedtech-2324 | 7071 | 4 | 5304 | 8 | 10769 | 11 | 7003 | 10 | 8281 | 11 | 3 | 21.6 | - | - | - |
| 14 | BIO-9681 | 6397 | 13 | 4211 | 14 | 11747 | 8 | 5816 | 14 | 7987 | 13 | - | - | 0.1 | - | - |
| Location Mean | | 6898 | | 5664 | | 11862 | | 7559 | | 8773 | | | | | | |
| C.D. (5%) | | 274 | | 2005 | | 4196 | | 858 | | 1776 | | | | | | |
| C.V. (%) | | 2.36 | | 21.05 | | 16.23 | | 5.21 | | - | | | | | | |
| F (Prob) | | 0 | | 0.052 | | 0.359 | | 0 | | | | | | | | |
| Plot Size | | 14.4 | | 14.4 | | 9.6 | | 14.4 | | - | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | |
| Sowing Date | | 6-07 | | 4-08 | | 3-07 | | 25-06 | | - | | | | | | |
| Harvest Date | | 19-10 | | 18-10 | | 23-10 | | 10-10 | | - | | | | | | |
| Irrigation Nos | | - | | 3 | | - | | - | | - | | | | | | |
| Fertilizer Applied N | | 120 | | 120 | | 120 | | 120 | | - | | | | | | |
| Fertilizer Applied P | | 60 | | 60 | | 60 | | 60 | | - | | | | | | |
| Fertilizer Applied K | | 60 | | 40 | | 40 | | 40 | | - | | | | | | |

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

TABLE No. 7 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH-3 | | | | | GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324 | | | | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | |
|----------|-----------------|---|------|------|------|--------------|---|------|------|------|--------------|--|------|------|------|--------------|
| | | BHUB | DHOL | RANC | VARA | ZN 3 MEAN | BHUB | DHOL | RANC | VARA | ZN 3 MEAN | BHUB | DHOL | RANC | VARA | ZN 3 MEAN |
| 1 | LTH-20 | 1.9 | - | - | 27.2 | 1 | - | - | 15.1 | 25.5 | 13.7 | 10.1 | 3 | 5.6 | 51.2 | 17.9 |
| 2 | Ryder-M | 6.1 | 21.8 | - | 28.6 | 4 | 3.8 | 20.9 | 19.3 | 26.9 | 17 | 14.7 | 52.3 | 9.4 | 52.8 | 21.3 |
| 3 | CMH10-477 | - | - | - | 0.2 | - | - | - | - | - | - | 5 | 7.9 | - | 19 | - |
| 4 | P3491(X35B391) | 11.3 | 33.9 | 2.4 | 4.3 | 5.1 | 8.9 | 32.9 | 34.5 | 3 | 18.3 | 20.3 | 67.4 | 23.3 | 24 | 22.7 |
| 5 | P3596(X35B396) | - | 15.4 | - | 25.1 | - | - | 14.6 | 10.8 | 23.5 | 10.1 | 5.9 | 44.3 | 1.6 | 48.7 | 14.2 |
| 6 | CMH-08-381 | - | 25.5 | - | 17.6 | - | - | 24.6 | 0.5 | 16.1 | 3.3 | 4.8 | 56.9 | - | 39.8 | 7.1 |
| 7 | CMH-08-381(G) | - | 10.8 | - | 14.6 | - | - | 10.1 | - | 13.1 | - | - | 38.6 | - | 36.2 | 3.5 |
| 8 | CMH-09-464 | - | 42.7 | - | 17.5 | - | - | 41.7 | - | 16 | 0.6 | 7.1 | 78.5 | - | 39.6 | 4.3 |
| 9 | P3580(X35A180) | - | 23.7 | - | 7.7 | - | - | 22.8 | 18.3 | 6.3 | 8.7 | 6.8 | 54.7 | 8.4 | 28 | 12.7 |
| 10 | Orbit CHECKS | 3.6 | - | - | 1.3 | - | 1.3 | - | 12.5 | - | 5.8 | 11.9 | 24.8 | 3.1 | 20.4 | 9.7 |
| 11 | PMH-1 | - | - | - | 1.5 | - | - | - | 9 | 0.2 | 3.1 | 7.3 | 3.6 | - | 20.6 | 6.9 |
| 12 | PMH-3 | - | - | - | - | - | - | - | 31.3 | - | 12.6 | 8.1 | 25.1 | 20.4 | 18.8 | 16.7 |
| 13 | Seedtech-2324 | 2.3 | 0.7 | - | 1.3 | - | - | - | - | - | - | 10.5 | 25.9 | - | 20.4 | 3.7 |
| 14 | BIO-9681 | - | - | - | - | - | - | - | 9.1 | - | - | - | - | - | - | - |

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

Table No.7 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | MOISTURE % AT HARVEST | | | | | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | |
|-------|------------------|------------------|-------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|--------------|-------------------------|-------------|-------------|-------------|--------------|---------------------|-------------|-------------|-------------|--------------|
| | | BHUB | DHOL | RANC | VARA | ZN 3 Mean | BHUB | DHOL | RANC | VARA | ZN 3 Mean | BHUB | DHOL | RANC | VARA | ZN 3 Mean | BHUB | DHOL | RANC | VARA | ZN 3 Mean |
| 1 | LTH-20 | 81.0 | 73.2 | 87.2 | 79.3 | 80.2 | 19.3 | 26.0 | 23.7 | 29.1 | 24.5 | 52.0 | 50.7 | 53.0 | 56.0 | 52.9 | 55.0 | 52.0 | 57.0 | 60.5 | 56.1 |
| 2 | Ryder-M | 78.1 | 72.0 | 80.1 | 75.0 | 76.3 | 20.6 | 24.3 | 24.7 | 29.9 | 24.9 | 51.0 | 50.7 | 54.0 | 57.5 | 53.3 | 53.0 | 52.0 | 57.0 | 62.0 | 56.0 |
| 3 | CMH10-477 | 79.0 | 74.3 | 80.3 | 76.3 | 77.4 | 19.8 | 23.9 | 24.3 | 29.1 | 24.3 | 54.0 | 51.0 | 54.5 | 56.0 | 53.9 | 56.3 | 52.7 | 57.5 | 61.0 | 56.9 |
| 4 | P3491(X35B391) | 78.7 | 81.8 | 86.1 | 73.8 | 80.1 | 19.9 | 26.6 | 21.3 | 30.5 | 24.6 | 52.3 | 50.0 | 52.0 | 55.5 | 52.5 | 54.0 | 51.3 | 55.5 | 61.5 | 55.6 |
| 5 | P3596(X35B396) | 81.0 | 77.7 | 86.6 | 76.3 | 80.4 | 19.9 | 23.6 | 22.3 | 31.9 | 24.4 | 51.0 | 52.7 | 55.0 | 57.5 | 54.0 | 53.0 | 54.3 | 59.0 | 62.5 | 57.2 |
| 6 | CMH-08-381 | 80.9 | 75.0 | 86.5 | 76.3 | 79.7 | 20.4 | 25.1 | 21.2 | 31.3 | 24.5 | 52.0 | 52.0 | 55.5 | 60.5 | 55.0 | 55.0 | 53.0 | 58.5 | 64.5 | 57.8 |
| 7 | CMH-08-381(G) | 79.0 | 78.9 | 85.0 | 76.5 | 79.9 | 20.5 | 24.9 | 23.7 | 30.3 | 24.8 | 52.3 | 53.0 | 54.5 | 58.0 | 54.5 | 55.3 | 54.3 | 59.0 | 61.5 | 57.5 |
| 8 | CMH-09-464 | 82.6 | 81.7 | 86.1 | 77.5 | 82.0 | 19.5 | 24.2 | 23.9 | 31.2 | 24.7 | 53.0 | 51.0 | 54.0 | 56.5 | 53.6 | 55.7 | 52.3 | 57.0 | 62.5 | 56.9 |
| 9 | P3580(X35A180) | 78.5 | 81.1 | 80.8 | 71.3 | 77.9 | 20.4 | 25.2 | 21.9 | 32.2 | 24.9 | 52.0 | 52.3 | 54.0 | 56.0 | 53.6 | 54.7 | 54.0 | 56.5 | 60.5 | 56.4 |
| 10 | Orbit | 82.2 | 84.6 | 88.1 | 74.3 | 82.3 | 20.7 | 25.1 | 23.7 | 32.4 | 25.5 | 51.3 | 51.7 | 53.5 | 54.5 | 52.8 | 54.7 | 53.7 | 56.0 | 59.5 | 56.0 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 77.7 | 81.5 | 85.6 | 73.8 | 79.7 | 20.2 | 27.2 | 23.0 | 30.3 | 25.2 | 50.7 | 51.7 | 53.0 | 57.5 | 53.2 | 53.0 | 52.7 | 56.5 | 61.5 | 55.9 |
| 12 | PMH-3 | 81.4 | 77.7 | 84.5 | 79.3 | 80.7 | 20.3 | 24.3 | 23.8 | 31.3 | 24.9 | 51.0 | 52.3 | 54.5 | 60.5 | 54.6 | 55.3 | 54.3 | 58.0 | 66.5 | 58.5 |
| 13 | Seedtech-2324 | 82.5 | 83.3 | 87.3 | 76.3 | 82.3 | 20.0 | 24.2 | 25.2 | 34.6 | 26.0 | 52.0 | 50.3 | 54.5 | 56.5 | 53.3 | 55.0 | 52.3 | 57.5 | 61.5 | 56.6 |
| 14 | BIO-9681 | 81.7 | 83.3 | 85.0 | 70.0 | 80.0 | 20.0 | 22.4 | 22.4 | 27.3 | 23.0 | 52.7 | 50.0 | 52.0 | 53.0 | 51.9 | 55.0 | 51.3 | 55.0 | 57.5 | 54.7 |
| | Loc. Mean | 80.3 | 79.0 | 84.9 | 75.4 | 79.9 | 20.1 | 24.8 | 23.2 | 30.8 | 24.7 | 52.0 | 51.4 | 53.9 | 56.8 | 53.5 | 54.6 | 52.9 | 57.1 | 61.6 | 56.6 |
| | C.D. (5%) | - | 4.88 | 5.23 | 3.03 | 3.84 | - | 3.09 | 3.03 | 2.32 | 1.76 | 1.55 | 1.55 | 1.97 | 0.99 | 1.68 | 1.31 | 1.07 | 1.78 | 0.93 | 1.72 |
| | C.V. (%) | - | 3.68 | 2.85 | 1.86 | 3.36 | - | 7.44 | 6.04 | 3.49 | 4.99 | 1.78 | 1.80 | 1.70 | 0.81 | 2.20 | 1.43 | 1.21 | 1.44 | 0.70 | 2.12 |
| | F (Prob) | 0.00 | 0.00 | 0.06 | 0.00 | 0.10 | - | 0.25 | 0.22 | 0.00 | 0.33 | 0.01 | 0.00 | 0.05 | 0.00 | 0.04 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 |

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Table No. 7 (Continued)

| S.No. | PEDIGREE | DAYS TO 75% DRY HUSK | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | | STAND AT HARVEST ('000/ha) | | | | |
|-------|------------------|----------------------|-------------|-------------|-------------|--------------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|----------------------------|-------------|-------------|-------------|--------------|
| | | BHUB | DHOL | RANC | VARA | ZN 3 Mean | BHUB | DHOL | RANC | VARA | ZN 3 Mean | BHUB | RANC | VARA | ZN 3 Mean | BHUB | DHOL | RANC | VARA | ZN 3 Mean |
| 1 | LTH-20 | 94.3 | 81.3 | 100.0 | 94.5 | 92.5 | 158.5 | 183.5 | 188.6 | 175.5 | 176.5 | 78.5 | 75.4 | 73.0 | 75.6 | 67.8 | 69.0 | 81.3 | 66.7 | 71.2 |
| 2 | Ryder-M | 94.0 | 83.7 | 100.5 | 91.0 | 92.3 | 183.4 | 208.8 | 219.3 | 205.5 | 204.3 | 79.9 | 98.4 | 100.0 | 92.8 | 68.3 | 72.5 | 76.6 | 68.1 | 71.3 |
| 3 | CMH10-477 | 94.3 | 81.0 | 100.0 | 95.0 | 92.6 | 175.1 | 202.2 | 210.9 | 210.5 | 199.7 | 80.9 | 106.2 | 118.0 | 101.7 | 68.1 | 71.1 | 77.1 | 68.1 | 71.1 |
| 4 | P3491(X35B391) | 94.3 | 85.0 | 98.5 | 93.5 | 92.8 | 217.7 | 202.5 | 206.9 | 201.5 | 207.1 | 106.7 | 102.9 | 103.0 | 104.2 | 67.8 | 75.7 | 76.0 | 62.8 | 70.6 |
| 5 | P3596(X35B396) | 96.0 | 84.3 | 100.0 | 93.0 | 93.3 | 159.8 | 218.5 | 235.2 | 220.5 | 208.5 | 73.2 | 110.1 | 109.0 | 97.4 | 67.1 | 74.1 | 81.8 | 66.7 | 72.4 |
| 6 | CMH-08-381 | 94.3 | 82.0 | 99.5 | 95.5 | 92.8 | 220.1 | 227.0 | 235.2 | 216.5 | 224.7 | 111.0 | 121.6 | 126.5 | 119.7 | 65.5 | 69.4 | 73.4 | 64.2 | 68.2 |
| 7 | CMH-08-381(G) | 93.7 | 83.7 | 99.0 | 95.0 | 92.8 | 189.3 | 220.5 | 220.0 | 219.0 | 212.2 | 98.3 | 106.6 | 120.5 | 108.5 | 66.7 | 65.5 | 77.1 | 64.9 | 68.5 |
| 8 | CMH-09-464 | 96.3 | 83.7 | 99.5 | 95.5 | 93.8 | 177.1 | 221.2 | 227.4 | 223.0 | 212.2 | 78.9 | 117.9 | 112.5 | 103.1 | 66.7 | 72.7 | 74.0 | 66.0 | 69.8 |
| 9 | P3580(X35A180) | 94.0 | 85.3 | 100.0 | 94.0 | 93.3 | 189.5 | 224.3 | 250.9 | 215.0 | 219.9 | 86.4 | 98.6 | 111.5 | 98.8 | 66.0 | 73.4 | 71.9 | 64.9 | 69.0 |
| 10 | Orbit | 94.7 | 88.3 | 100.0 | 94.5 | 94.4 | 164.1 | 200.0 | 211.4 | 204.0 | 194.9 | 70.2 | 76.1 | 100.5 | 82.3 | 66.4 | 74.1 | 76.6 | 66.0 | 70.8 |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 95.0 | 80.0 | 99.0 | 94.0 | 92.0 | 183.9 | 209.5 | 248.6 | 220.5 | 215.6 | 83.9 | 116.8 | 121.5 | 107.4 | 66.2 | 66.0 | 78.1 | 62.5 | 68.2 |
| 12 | PMH-3 | 93.0 | 82.0 | 100.0 | 97.0 | 93.0 | 206.9 | 218.8 | 222.2 | 221.5 | 217.4 | 99.4 | 101.0 | 127.5 | 109.3 | 67.6 | 73.1 | 81.8 | 66.0 | 72.1 |
| 13 | Seedtech-2324 | 93.3 | 80.7 | 100.0 | 94.5 | 92.1 | 165.8 | 201.5 | 209.7 | 190.0 | 191.8 | 79.3 | 112.1 | 103.0 | 98.1 | 67.6 | 69.7 | 72.9 | 62.8 | 68.3 |
| 14 | BIO-9681 | 93.3 | 78.3 | 99.0 | 90.0 | 90.2 | 206.3 | 206.5 | 214.5 | 191.5 | 204.7 | 88.7 | 91.6 | 81.5 | 87.3 | 66.9 | 75.9 | 74.5 | 63.2 | 70.1 |
| | Loc. Mean | 94.3 | 82.8 | 99.6 | 94.1 | 92.7 | 185.5 | 210.3 | 221.5 | 208.2 | 206.4 | 86.8 | 102.5 | 107.7 | 99.0 | 67.0 | 71.6 | 76.6 | 65.2 | 70.1 |
| | C.D. (5%) | 1.68 | 2.46 | 1.68 | 2.71 | 2.23 | 10.58 | 18.36 | 24.64 | 25.72 | 16.99 | 4.24 | 20.00 | 18.22 | 16.86 | 2.28 | 9.39 | 8.52 | 3.80 | 3.38 |
| | C.V. (%) | 1.06 | 1.77 | 0.78 | 1.33 | 1.68 | 3.40 | 5.20 | 5.15 | 5.72 | 5.76 | 2.91 | 9.03 | 7.83 | 10.15 | 2.03 | 7.82 | 5.15 | 2.70 | 3.37 |
| | F (Prob) | 0.01 | 0.00 | 0.45 | 0.01 | 0.14 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.46 | 0.30 | 0.08 | 0.14 |

TABLE No. 8: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI IN AVT1 TRIAL No. TR65Z4 (AVT1-L-Z4) & AVT2 TR69Z4 (AVT2-L-Z4) DURING KHARIF (2013)

| GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|-------------------------------------|--------------------|--------------|----|--------------|----|-------------|----|--------------|----|-------------|----|-------------|------|--------------|----|-------------|----|
| SI | | | | | | | | | | | | | ZN 4 | | | | |
| No | PEDIGREE | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R | MAND | R | VAGA | R | MEAN | R |
| 1 | Geo Premium Dimond | 17001 | 2 | 9533 | 14 | 11909 | 1 | 9434 | 16 | 4377 | 16 | 8568 | 7 | 6304 | 3 | 10137 | 9 |
| 2 | LTH-22 | 17235 | 1 | 11833 | 5 | 8842 | 12 | 11901 | 4 | 4778 | 14 | 9901 | 3 | 3349 | 17 | 10748 | 2 |
| 3 | CP-802 | 15699 | 7 | 10162 | 11 | 10636 | 5 | 9524 | 15 | 4937 | 12 | 8110 | 10 | 5581 | 5 | 9845 | 11 |
| 4 | NMH-1265 | 14818 | 13 | 12425 | 4 | 9878 | 7 | 9864 | 11 | 6393 | 1 | 8049 | 11 | 4223 | 11 | 10238 | 7 |
| 5 | P3491(X35B391) | 15280 | 11 | 11678 | 7 | 9564 | 9 | 11704 | 5 | 5558 | 5 | 10021 | 2 | 4990 | 8 | 10634 | 4 |
| 6 | A-7503 | 14718 | 14 | 11687 | 6 | 7310 | 18 | 12089 | 3 | 4044 | 18 | 7233 | 16 | 4126 | 12 | 9513 | 15 |
| 7 | Laxmi 333 | 15773 | 6 | 11298 | 9 | 11301 | 2 | 11531 | 6 | 5932 | 2 | 8529 | 8 | 6813 | 1 | 10728 | 3 |
| 8 | CMH-08-381 | 16253 | 4 | 13226 | 1 | 9494 | 10 | 9668 | 13 | 4964 | 11 | 7716 | 13 | 6598 | 2 | 10220 | 8 |
| 9 | P-4546 | 15392 | 10 | 9997 | 12 | 8070 | 15 | 10613 | 9 | 5278 | 8 | 9057 | 5 | 4442 | 10 | 9735 | 13 |
| 10 | P3580(X35A180) | 16752 | 3 | 12732 | 2 | 8262 | 13 | 12355 | 1 | 5731 | 4 | 10437 | 1 | 5599 | 4 | 11045 | 1 |
| 11 | PRO-385 | 15846 | 5 | 12492 | 3 | 9641 | 8 | 10888 | 8 | 5348 | 7 | 7940 | 12 | 3405 | 16 | 10359 | 5 |
| 12 | MCH-46 | 15492 | 8 | 11525 | 8 | 9336 | 11 | 11351 | 7 | 4121 | 17 | 8745 | 6 | 4872 | 9 | 10095 | 10 |
| 13 | S-6668 | 15264 | 12 | 11298 | 10 | 10920 | 4 | 9782 | 12 | 5180 | 10 | 9159 | 4 | 3863 | 14 | 10267 | 6 |
| 14 | HTMH-5106 | 15437 | 9 | 9389 | 16 | 11066 | 3 | 9589 | 14 | 4847 | 13 | 8421 | 9 | 5421 | 7 | 9791 | 12 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 15 | PMH-1 | 14063 | 17 | 9676 | 13 | 7950 | 16 | 8657 | 17 | 5185 | 9 | 6904 | 17 | 5446 | 6 | 8739 | 17 |
| 16 | PMH-3 | 14666 | 15 | 9475 | 15 | 8255 | 14 | 12189 | 2 | 5352 | 6 | 7580 | 14 | 3830 | 15 | 9586 | 14 |
| 17 | Seedtech-2324 | 14660 | 16 | 8196 | 17 | 9948 | 6 | 10580 | 10 | 5789 | 3 | 7404 | 15 | 3936 | 13 | 9429 | 16 |
| 18 | BIO-9681 | 12185 | 18 | 6118 | 18 | 7870 | 17 | 8193 | 18 | 4554 | 15 | 6902 | 18 | 3339 | 18 | 7637 | 18 |
| Location Mean | | 15363 | | 10708 | | 9458 | | 10551 | | 5132 | | 8371 | | 4785 | | 9930 | |
| C.D. (5%) | | 1375 | | 996 | | 1182 | | 1938 | | 955 | | 668 | | 2371 | | 1186 | |
| C.V. (%) | | 5.39 | | 5.6 | | 7.52 | | 11.06 | | 11.21 | | 4.81 | | 29.82 | | - | |
| F (Prob) | | 0 | | 0 | | 0 | | 0.001 | | 0.002 | | 0 | | 0.071 | | - | |
| Plot Size | | 18 | | 14.4 | | 18 | | 18 | | 18 | | 14 | | 14.4 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | |
| Sowing Date | | 2-07 | | 17-07 | | 27-06 | | 3-07 | | 1-07 | | 23-07 | | 8-07 | | - | |
| Harvest Date | | 9-11 | | 3-11 | | 10-10 | | 8-11 | | 17-11 | | 11-12 | | 8-11 | | - | |
| Irrigation Nos | | 6 | | 10 | | 2 | | - | | - | | 8 | | 15 | | - | |
| Fertilizer Applied N | | 150 | | 150 | | 200 | | 200 | | 100 | | 150 | | 150 | | - | |
| Fertilizer Applied P | | 75 | | 75 | | 60 | | 60 | | 50 | | 75 | | 75 | | - | |
| Fertilizer Applied K | | 37.5 | | 75 | | 50 | | 60 | | 30 | | 40 | | 75 | | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VAGA 29.8 %

TABLE No. 8 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH-1 | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PMH-3 | | | | | | | |
|----------|--------------------|--|------|------|------|------|------|------|--------------|--|------|------|------|------|------|------|--------------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 MEAN |
| 1 | Geo Premium Dimond | 20.9 | - | 49.8 | 9 | - | 24.1 | 15.8 | 16 | 15.9 | 0.6 | 44.3 | - | - | 13 | 64.6 | 5.7 |
| 2 | LTH-22 | 22.6 | 22.3 | 11.2 | 37.5 | - | 43.4 | - | 23 | 17.5 | 24.9 | 7.1 | - | - | 30.6 | - | 12.1 |
| 3 | CP-802 | 11.6 | 5 | 33.8 | 10 | - | 17.5 | 2.5 | 12.7 | 7 | 7.2 | 28.8 | - | - | 7 | 45.7 | 2.7 |
| 4 | NMH-1265 | 5.4 | 28.4 | 24.3 | 13.9 | 23.3 | 16.6 | - | 17.2 | 1 | 31.1 | 19.7 | - | 19.5 | 6.2 | 10.3 | 6.8 |
| 5 | P3491(X35B391) | 8.7 | 20.7 | 20.3 | 35.2 | 7.2 | 45.2 | - | 21.7 | 4.2 | 23.3 | 15.9 | - | 3.9 | 32.2 | 30.3 | 10.9 |
| 6 | A-7503 | 4.7 | 20.8 | - | 39.7 | - | 4.8 | - | 8.9 | 0.4 | 23.3 | - | - | - | - | 7.7 | - |
| 7 | Laxmi 333 | 12.2 | 16.8 | 42.2 | 33.2 | 14.4 | 23.5 | 25.1 | 22.8 | 7.6 | 19.2 | 36.9 | - | 10.8 | 12.5 | 77.9 | 11.9 |
| 8 | CMH-08-381 | 15.6 | 36.7 | 19.4 | 11.7 | - | 11.8 | 21.2 | 16.9 | 10.8 | 39.6 | 15 | - | - | 1.8 | 72.2 | 6.6 |
| 9 | P-4546 | 9.4 | 3.3 | 1.5 | 22.6 | 1.8 | 31.2 | - | 11.4 | 5 | 5.5 | - | - | - | 19.5 | 16 | 1.5 |
| 10 | P3580(X35A180) | 19.1 | 31.6 | 3.9 | 42.7 | 10.5 | 51.2 | 2.8 | 26.4 | 14.2 | 34.4 | 0.1 | 1.4 | 7.1 | 37.7 | 46.2 | 15.2 |
| 11 | PRO-385 | 12.7 | 29.1 | 21.3 | 25.8 | 3.2 | 15 | - | 18.5 | 8 | 31.8 | 16.8 | - | - | 4.8 | - | 8.1 |
| 12 | MCH-46 | 10.2 | 19.1 | 17.4 | 31.1 | - | 26.7 | - | 15.5 | 5.6 | 21.6 | 13.1 | - | - | 15.4 | 27.2 | 5.3 |
| 13 | S-6668 | 8.5 | 16.8 | 37.4 | 13 | - | 32.7 | - | 17.5 | 4.1 | 19.2 | 32.3 | - | - | 20.8 | 0.8 | 7.1 |
| 14 | HTMH-5106 | 9.8 | - | 39.2 | 10.8 | - | 22 | - | 12 | 5.3 | - | 34 | - | - | 11.1 | 41.5 | 2.1 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 15 | PMH-1 | - | - | - | - | - | - | - | - | - | 2.1 | - | - | - | - | 42.2 | - |
| 16 | PMH-3 | 4.3 | - | 3.8 | 40.8 | 3.2 | 9.8 | - | 9.7 | - | - | - | - | - | - | - | - |
| 17 | Seedtech-2324 | 4.2 | - | 25.1 | 22.2 | 11.6 | 7.3 | - | 7.9 | - | - | 20.5 | - | 8.2 | - | 2.8 | - |
| 18 | BIO-9681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VAGA 29.8 %

TABLE No. 8 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324 ZN 4 | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 ZN 4 | | | | | | | | |
|----------|--------------------|--|------|------|------|------|------|------|---|------|-------|------|------|------|------|------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN |
| 1 | Geo Premium Dimond | 16 | 16.3 | 19.7 | - | - | 15.7 | 60.2 | 7.5 | 39.5 | 55.8 | 51.3 | 15.2 | - | 24.1 | 88.8 | 32.7 |
| 2 | LTH-22 | 17.6 | 44.4 | - | 12.5 | - | 33.7 | - | 14 | 41.4 | 93.4 | 12.4 | 45.3 | 4.9 | 43.5 | 0.3 | 40.7 |
| 3 | CP-802 | 7.1 | 24 | 6.9 | - | - | 9.5 | 41.8 | 4.4 | 28.8 | 66.1 | 35.1 | 16.3 | 8.4 | 17.5 | 67.1 | 28.9 |
| 4 | NMH-1265 | 1.1 | 51.6 | - | - | 10.4 | 8.7 | 7.3 | 8.6 | 21.6 | 103.1 | 25.5 | 20.4 | 40.4 | 16.6 | 26.5 | 34.1 |
| 5 | P3491(X35B391) | 4.2 | 42.5 | - | 10.6 | - | 35.3 | 26.8 | 12.8 | 25.4 | 90.9 | 21.5 | 42.9 | 22.1 | 45.2 | 49.4 | 39.3 |
| 6 | A-7503 | 0.4 | 42.6 | - | 14.3 | - | - | 4.8 | 0.9 | 20.8 | 91 | - | 47.6 | - | 4.8 | 23.6 | 24.6 |
| 7 | Laxmi 333 | 7.6 | 37.8 | 13.6 | 9 | 2.5 | 15.2 | 73.1 | 13.8 | 29.5 | 84.7 | 43.6 | 40.8 | 30.3 | 23.6 | 104 | 40.5 |
| 8 | CMH-08-381 | 10.9 | 61.4 | - | - | - | 4.2 | 67.6 | 8.4 | 33.4 | 116.2 | 20.6 | 18 | 9 | 11.8 | 97.6 | 33.8 |
| 9 | P-4546 | 5 | 22 | - | 0.3 | - | 22.3 | 12.8 | 3.2 | 26.3 | 63.4 | 2.6 | 29.5 | 15.9 | 31.2 | 33 | 27.5 |
| 10 | P3580(X35A180) | 14.3 | 55.3 | - | 16.8 | - | 41 | 42.2 | 17.1 | 37.5 | 108.1 | 5 | 50.8 | 25.8 | 51.2 | 67.7 | 44.6 |
| 11 | PRO-385 | 8.1 | 52.4 | - | 2.9 | - | 7.2 | - | 9.9 | 30 | 104.2 | 22.5 | 32.9 | 17.4 | 15 | 2 | 35.6 |
| 12 | MCH-46 | 5.7 | 40.6 | - | 7.3 | - | 18.1 | 23.8 | 7.1 | 27.1 | 88.4 | 18.6 | 38.6 | - | 26.7 | 45.9 | 32.2 |
| 13 | S-6668 | 4.1 | 37.8 | 9.8 | - | - | 23.7 | - | 8.9 | 25.3 | 84.7 | 38.8 | 19.4 | 13.8 | 32.7 | 15.7 | 34.4 |
| 14 | HTMH-5106 | 5.3 | 14.6 | 11.2 | - | - | 13.7 | 37.7 | 3.8 | 26.7 | 53.5 | 40.6 | 17 | 6.4 | 22 | 62.3 | 28.2 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 15 | PMH-1 | - | 18.1 | - | - | - | - | 38.3 | - | 15.4 | 58.2 | 1 | 5.7 | 13.9 | 0 | 63.1 | 14.4 |
| 16 | PMH-3 | 0 | 15.6 | - | 15.2 | - | 2.4 | - | 1.7 | 20.4 | 54.9 | 4.9 | 48.8 | 17.5 | 9.8 | 14.7 | 25.5 |
| 17 | Seedtech-2324 | - | - | - | - | - | - | - | - | 20.3 | 34 | 26.4 | 29.1 | 27.1 | 7.3 | 17.9 | 23.5 |
| 18 | BIO-9681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VAGA 29.8 %

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Table No. 8 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | MOISTURE % AT HARVEST | | | | | | | STAND AT HARVEST ('000/ha) | | | | | | | | | |
|--------|--------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 | | | | | | | | | | | | | | | | |
| | | | | | | | | | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | Geo Premium Dimond | 86.4 | 80.0 | 77.5 | 83.4 | 79.2 | 83.9 | 81.9 | 81.7 | 24.7 | 18.8 | 28.3 | 9.3 | 11.7 | 16.0 | 16.3 | 19.3 | 61.7 | 66.2 | 64.1 | 41.5 | 66.7 | 64.0 | 52.3 | 59.5 |
| 2 | LTH-22 | 85.6 | 81.1 | 78.8 | 85.3 | 84.8 | 83.5 | 83.7 | 83.3 | 22.9 | 24.0 | 26.2 | 8.8 | 12.7 | 16.6 | 18.7 | 20.2 | 64.3 | 66.2 | 64.1 | 47.0 | 66.7 | 63.8 | 53.5 | 60.8 |
| 3 | CP-802 | 86.7 | 81.4 | 80.4 | 84.4 | 86.2 | 81.9 | 81.9 | 83.3 | 26.6 | 21.5 | 26.9 | 10.9 | 10.3 | 15.9 | 17.5 | 19.8 | 61.7 | 66.4 | 61.5 | 45.6 | 65.4 | 64.3 | 56.3 | 60.1 |
| 4 | NMH-1265 | 86.9 | 82.3 | 78.9 | 85.0 | 85.0 | 83.4 | 81.5 | 83.3 | 23.0 | 19.8 | 25.8 | 8.7 | 10.2 | 15.3 | 15.0 | 18.2 | 61.1 | 66.7 | 63.7 | 42.6 | 66.7 | 65.2 | 47.0 | 59.0 |
| 5 | P3491(X35B391) | 84.1 | 80.9 | 77.3 | 83.1 | 79.8 | 83.8 | 81.1 | 81.4 | 24.9 | 21.0 | 21.6 | 7.5 | 10.3 | 16.2 | 15.0 | 18.1 | 61.9 | 66.4 | 65.2 | 56.3 | 65.2 | 65.0 | 52.1 | 61.7 |
| 6 | A-7503 | 85.0 | 82.3 | 82.5 | 84.0 | 79.7 | 82.4 | 84.0 | 82.8 | 26.1 | 21.6 | 28.1 | 9.4 | 14.2 | 16.0 | 17.1 | 20.5 | 60.9 | 66.0 | 64.4 | 50.9 | 64.1 | 61.4 | 54.6 | 60.3 |
| 7 | Laxmi 333 | 85.0 | 81.1 | 78.9 | 82.4 | 80.4 | 81.3 | 81.6 | 81.6 | 25.8 | 19.5 | 28.6 | 9.5 | 13.3 | 15.7 | 17.1 | 20.0 | 65.9 | 66.2 | 65.4 | 54.3 | 66.7 | 63.1 | 48.6 | 61.4 |
| 8 | CMH-08-381 | 83.8 | 81.9 | 79.4 | 81.6 | 84.7 | 83.8 | 82.4 | 82.5 | 25.0 | 20.4 | 25.8 | 9.5 | 13.8 | 17.4 | 16.1 | 19.7 | 57.4 | 66.4 | 57.4 | 46.5 | 63.3 | 61.7 | 52.5 | 57.9 |
| 9 | P-4546 | 86.7 | 82.5 | 81.9 | 86.9 | 85.9 | 83.4 | 84.0 | 84.5 | 26.8 | 24.6 | 29.0 | 12.0 | 11.8 | 16.1 | 18.2 | 21.0 | 61.7 | 66.7 | 64.6 | 53.0 | 65.0 | 64.8 | 53.5 | 61.3 |
| 10 | P3580(X35A180) | 81.1 | 77.6 | 80.8 | 80.9 | 79.8 | 80.6 | 79.7 | 80.1 | 27.7 | 20.1 | 28.8 | 10.1 | 10.9 | 17.2 | 17.2 | 20.3 | 64.3 | 66.7 | 63.9 | 53.9 | 65.0 | 62.4 | 54.4 | 61.5 |
| 11 | PRO-385 | 84.7 | 81.1 | 78.5 | 82.8 | 82.9 | 81.1 | 80.4 | 81.6 | 25.1 | 11.3 | 27.7 | 9.4 | 11.2 | 16.2 | 17.5 | 18.2 | 66.1 | 66.4 | 63.5 | 49.6 | 66.3 | 63.8 | 57.9 | 62.0 |
| 12 | MCH-46 | 84.3 | 82.7 | 78.5 | 84.0 | 82.0 | 82.6 | 83.3 | 82.4 | 25.8 | 21.9 | 29.1 | 11.5 | 11.7 | 16.4 | 16.0 | 20.1 | 59.8 | 66.7 | 60.4 | 54.1 | 63.1 | 64.8 | 50.7 | 59.9 |
| 13 | S-6668 | 81.7 | 78.5 | 77.0 | 79.9 | 85.7 | 80.5 | 79.2 | 80.4 | 25.3 | 20.5 | 28.7 | 7.9 | 11.7 | 15.7 | 13.9 | 19.3 | 64.4 | 66.2 | 63.9 | 49.3 | 65.9 | 65.7 | 54.6 | 61.4 |
| 14 | HTMH-5106 | 84.6 | 80.7 | 78.1 | 83.3 | 79.7 | 82.7 | 81.2 | 81.5 | 24.9 | 19.7 | 27.2 | 10.1 | 10.4 | 15.7 | 14.1 | 18.6 | 62.0 | 66.4 | 63.9 | 46.9 | 63.5 | 63.3 | 54.2 | 60.0 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | PMH-1 | 84.0 | 79.6 | 78.2 | 81.8 | 80.9 | 82.3 | 81.0 | 81.1 | 25.0 | 20.4 | 26.7 | 8.5 | 12.8 | 15.6 | 16.5 | 19.5 | 62.8 | 66.7 | 63.7 | 48.5 | 63.7 | 64.5 | 49.5 | 59.9 |
| 16 | PMH-3 | 87.1 | 82.9 | 80.1 | 85.6 | 80.2 | 80.5 | 81.3 | 82.5 | 26.2 | 21.5 | 26.2 | 9.0 | 10.8 | 16.0 | 19.6 | 20.0 | 63.5 | 66.2 | 69.4 | 48.7 | 65.4 | 67.1 | 51.4 | 61.7 |
| 17 | Seedtech-2324 | 85.0 | 80.4 | 79.4 | 83.2 | 82.8 | 82.3 | 79.9 | 81.8 | 23.4 | 21.0 | 27.7 | 8.5 | 10.3 | 16.8 | 17.0 | 19.3 | 63.7 | 66.4 | 63.5 | 50.4 | 65.6 | 62.6 | 55.3 | 61.1 |
| 18 | BIO-9681 | 84.4 | 81.0 | 79.2 | 85.6 | 79.7 | 83.8 | 83.0 | 82.4 | 21.4 | 18.6 | 27.5 | 9.8 | 10.3 | 15.3 | 13.3 | 17.7 | 60.0 | 66.2 | 63.5 | 43.5 | 65.0 | 64.5 | 45.8 | 58.4 |
| | Loc. Mean | 84.8 | 81.0 | 79.2 | 83.5 | 82.2 | 82.4 | 81.7 | 82.1 | 25.0 | 20.3 | 27.2 | 9.5 | 11.6 | 16.1 | 16.4 | 19.4 | 62.4 | 66.4 | 63.7 | 49.0 | 65.2 | 64.0 | 52.5 | 60.4 |
| | C.D. (5%) | 1.40 | 0.99 | 1.00 | 2.88 | 0.85 | 1.93 | 3.58 | 1.49 | 1.60 | 4.70 | 0.84 | 3.40 | 2.01 | 0.55 | 1.53 | 1.83 | 4.83 | 0.49 | 5.37 | 7.48 | 3.19 | 3.05 | 5.24 | 2.46 |
| | C.V. (%) | 1.00 | 0.74 | 0.76 | 2.08 | 0.62 | 1.41 | 2.64 | 1.72 | 3.86 | 13.94 | 1.87 | 21.62 | 10.47 | 2.06 | 5.63 | 8.21 | 4.67 | 0.45 | 5.08 | 9.20 | 2.95 | 2.88 | 6.02 | 3.83 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.01 | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.13 | 0.12 | 0.01 | 0.33 | 0.07 | 0.00 | 0.03 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 21.6%

Table No. 8 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | DAYS TO 50% SILKING | | | | | | | DAYS TO 75% DRY HUSK | | | | | | | | | | | | |
|--------|--------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|------|------|--|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 | |
| | | | | | | | | | Mean | Mean | | | | | | | | Mean | Mean | | | | | | | | | |
| 1 | Geo Premium Dimond | 63.0 | 54.0 | 57.3 | 53.3 | 68.7 | 54.0 | 54.3 | 57.8 | 63.3 | 56.3 | 59.7 | 56.3 | 69.7 | 56.0 | 57.0 | 59.8 | 105.7 | 106.3 | 107.0 | 95.3 | 112.7 | 94.0 | 105.3 | 103.8 | | | |
| 2 | LTH-22 | 63.7 | 52.3 | 56.0 | 54.0 | 67.7 | 55.7 | 56.3 | 58.0 | 65.7 | 55.0 | 60.3 | 57.0 | 68.7 | 58.0 | 59.7 | 60.6 | 104.7 | 102.0 | 103.0 | 96.7 | 111.7 | 100.3 | 113.0 | 104.5 | | | |
| 3 | CP-802 | 63.0 | 52.0 | 57.3 | 53.7 | 67.3 | 55.0 | 54.7 | 57.6 | 64.7 | 54.7 | 60.0 | 56.7 | 68.3 | 57.3 | 56.7 | 59.8 | 110.3 | 101.3 | 107.3 | 95.7 | 111.3 | 95.3 | 114.7 | 105.1 | | | |
| 4 | NMH-1265 | 64.3 | 54.0 | 59.0 | 55.7 | 66.7 | 56.0 | 55.7 | 58.8 | 64.3 | 57.0 | 60.7 | 58.7 | 67.7 | 58.0 | 58.0 | 60.6 | 103.7 | 105.0 | 105.3 | 97.7 | 110.7 | 93.7 | 112.3 | 104.0 | | | |
| 5 | P3491(X35B391) | 64.0 | 50.3 | 58.7 | 52.0 | 65.3 | 54.0 | 54.3 | 57.0 | 64.0 | 53.7 | 60.7 | 56.3 | 66.3 | 56.0 | 57.0 | 59.1 | 106.0 | 97.7 | 104.0 | 95.3 | 109.3 | 92.7 | 110.7 | 102.2 | | | |
| 6 | A-7503 | 66.0 | 54.0 | 61.0 | 55.0 | 68.0 | 57.0 | 56.7 | 59.7 | 67.3 | 57.0 | 62.7 | 58.0 | 69.0 | 59.3 | 58.7 | 61.7 | 111.0 | 105.0 | 102.0 | 96.0 | 112.0 | 95.3 | 107.7 | 104.1 | | | |
| 7 | Laxmi 333 | 62.7 | 53.3 | 60.0 | 54.3 | 66.7 | 54.7 | 54.3 | 58.0 | 62.7 | 55.3 | 61.7 | 57.7 | 67.7 | 56.7 | 57.0 | 59.8 | 108.7 | 102.0 | 108.7 | 96.7 | 110.7 | 97.0 | 109.7 | 104.8 | | | |
| 8 | CMH-08-381 | 65.3 | 53.0 | 61.3 | 54.3 | 70.3 | 56.3 | 56.3 | 59.6 | 65.0 | 55.0 | 63.7 | 57.3 | 71.3 | 60.0 | 58.0 | 61.5 | 103.7 | 102.0 | 105.7 | 97.0 | 114.3 | 93.3 | 110.7 | 103.8 | | | |
| 9 | P-4546 | 65.3 | 55.3 | 63.3 | 54.7 | 70.0 | 56.3 | 56.3 | 60.2 | 65.7 | 58.3 | 66.3 | 58.0 | 71.0 | 59.0 | 58.7 | 62.4 | 108.3 | 105.0 | 103.3 | 97.0 | 114.0 | 97.0 | 108.7 | 104.8 | | | |
| 10 | P3580(X35A180) | 64.0 | 53.7 | 62.0 | 54.7 | 66.7 | 56.3 | 57.3 | 59.2 | 66.3 | 57.0 | 64.0 | 58.3 | 67.7 | 59.0 | 59.0 | 61.6 | 108.7 | 104.3 | 104.0 | 97.3 | 110.7 | 97.0 | 106.3 | 104.0 | | | |
| 11 | PRO-385 | 63.0 | 53.7 | 60.3 | 55.0 | 66.7 | 55.3 | 56.3 | 58.6 | 64.3 | 56.0 | 63.0 | 58.0 | 67.7 | 58.0 | 58.7 | 60.8 | 105.0 | 103.3 | 106.3 | 95.7 | 110.7 | 94.7 | 108.0 | 103.4 | | | |
| 12 | MCH-46 | 64.7 | 57.0 | 62.7 | 54.7 | 70.3 | 58.0 | 57.7 | 60.7 | 67.3 | 59.0 | 65.7 | 57.7 | 71.3 | 61.0 | 60.7 | 63.2 | 111.7 | 108.0 | 105.7 | 96.7 | 114.3 | 101.0 | 110.7 | 106.9 | | | |
| 13 | S-6668 | 66.7 | 57.0 | 61.0 | 53.0 | 69.3 | 56.7 | 56.3 | 60.0 | 66.7 | 59.0 | 63.3 | 56.0 | 70.3 | 60.0 | 58.7 | 62.0 | 110.3 | 108.0 | 108.0 | 95.7 | 113.3 | 98.3 | 109.3 | 106.1 | | | |
| 14 | HTMH-5106 | 62.7 | 52.3 | 56.7 | 52.7 | 67.7 | 53.7 | 54.7 | 57.2 | 62.3 | 55.0 | 59.7 | 56.0 | 68.7 | 55.7 | 57.0 | 59.2 | 105.7 | 101.3 | 108.7 | 95.0 | 111.7 | 94.0 | 109.0 | 103.6 | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | PMH-1 | 63.0 | 52.3 | 60.0 | 54.7 | 66.7 | 54.3 | 55.0 | 58.0 | 63.3 | 55.0 | 63.0 | 58.0 | 67.7 | 56.7 | 57.7 | 60.2 | 96.0 | 102.0 | 105.0 | 97.0 | 110.7 | 92.7 | 109.3 | 101.8 | | | |
| 16 | PMH-3 | 63.7 | 53.7 | 60.0 | 53.0 | 69.3 | 56.0 | 56.3 | 58.9 | 66.3 | 55.7 | 62.3 | 56.3 | 70.3 | 59.0 | 60.3 | 61.5 | 101.7 | 102.0 | 103.7 | 95.3 | 113.3 | 93.7 | 110.3 | 102.9 | | | |
| 17 | Seedtech-2324 | 63.0 | 53.7 | 58.0 | 54.7 | 66.7 | 53.7 | 57.3 | 58.1 | 63.0 | 57.0 | 61.0 | 57.3 | 67.7 | 55.3 | 60.3 | 60.2 | 105.3 | 107.0 | 106.0 | 96.3 | 110.7 | 95.3 | 112.7 | 104.8 | | | |
| 18 | BIO-9681 | 62.7 | 52.0 | 56.3 | 54.7 | 66.3 | 51.0 | 55.3 | 56.9 | 62.3 | 54.0 | 59.7 | 58.0 | 67.3 | 53.0 | 57.7 | 58.9 | 96.7 | 100.0 | 103.7 | 97.0 | 110.3 | 93.0 | 101.3 | 100.3 | | | |
| | Loc. Mean | 63.9 | 53.5 | 59.5 | 54.1 | 67.8 | 55.2 | 55.9 | 58.6 | 64.7 | 56.1 | 62.1 | 57.3 | 68.8 | 57.7 | 58.4 | 60.7 | 105.7 | 103.5 | 105.4 | 96.3 | 111.8 | 95.5 | 109.4 | 103.9 | | | |
| | C.D. (5%) | 1.92 | 1.22 | 1.53 | 1.75 | 2.57 | 1.50 | 2.48 | 1.16 | 1.50 | 1.25 | 1.26 | 1.72 | 2.57 | 2.07 | 2.47 | 1.21 | 4.57 | 1.42 | 2.17 | 2.30 | 2.57 | 2.66 | 3.17 | 2.53 | | | |
| | C.V. (%) | 1.81 | 1.37 | 1.55 | 1.95 | 2.29 | 1.64 | 2.68 | 1.87 | 1.40 | 1.34 | 1.22 | 1.81 | 2.25 | 2.17 | 2.55 | 1.88 | 2.60 | 0.83 | 1.24 | 1.44 | 1.39 | 1.68 | 1.75 | 2.29 | | | |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | | | |

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Table No. 8 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | EAR HEIGHT(cm) | | | | | | | | | |
|-------|--------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ZN 4 | ARBH | COIM | HYDE | KOLH | MAND | VAGA | Mean | ZN 4 |
| 1 | Geo Premium Dimond | 198.5 | 182.5 | 232.3 | 210.0 | 188.3 | 231.0 | 142.7 | 197.9 | | 96.5 | 94.1 | 105.0 | 56.7 | 120.3 | 67.1 | 90.0 | |
| 2 | LTH-22 | 230.5 | 215.2 | 246.3 | 245.0 | 211.7 | 241.3 | 160.7 | 221.5 | | 105.5 | 99.4 | 92.3 | 50.0 | 125.3 | 69.6 | 90.4 | |
| 3 | CP-802 | 194.5 | 181.9 | 216.7 | 219.7 | 200.0 | 248.0 | 154.3 | 202.2 | | 83.5 | 91.0 | 86.3 | 65.0 | 122.7 | 65.6 | 85.7 | |
| 4 | NMH-1265 | 198.0 | 200.7 | 216.0 | 204.3 | 188.3 | 233.3 | 154.7 | 199.4 | | 91.5 | 104.2 | 86.7 | 50.0 | 121.7 | 69.1 | 87.2 | |
| 5 | P3491(X35B391) | 205.0 | 217.5 | 231.3 | 239.3 | 186.7 | 237.3 | 163.7 | 211.6 | | 110.5 | 109.7 | 90.3 | 46.7 | 123.7 | 69.9 | 91.8 | |
| 6 | A-7503 | 189.5 | 198.5 | 219.3 | 209.7 | 183.3 | 224.7 | 146.3 | 195.9 | | 84.5 | 105.5 | 87.7 | 56.7 | 120.7 | 65.3 | 86.7 | |
| 7 | Laxmi 333 | 210.0 | 189.1 | 208.0 | 189.0 | 170.0 | 226.7 | 141.5 | 190.6 | | 89.5 | 94.5 | 85.0 | 53.3 | 116.7 | 60.3 | 83.2 | |
| 8 | CMH-08-381 | 214.5 | 221.9 | 238.3 | 219.0 | 190.0 | 235.3 | 178.7 | 214.0 | | 102.0 | 116.5 | 101.7 | 51.7 | 115.3 | 85.5 | 95.4 | |
| 9 | P-4546 | 206.0 | 202.9 | 219.3 | 213.3 | 195.0 | 239.3 | 138.3 | 202.0 | | 93.5 | 104.1 | 82.7 | 56.7 | 127.3 | 59.4 | 87.3 | |
| 10 | P3580(X35A180) | 225.0 | 228.2 | 242.0 | 242.0 | 196.7 | 247.7 | 159.5 | 220.2 | | 111.5 | 130.9 | 93.7 | 51.7 | 126.7 | 72.3 | 97.8 | |
| 11 | PRO-385 | 203.0 | 190.8 | 212.7 | 213.3 | 181.7 | 243.0 | 133.3 | 196.8 | | 83.0 | 98.1 | 69.0 | 45.0 | 128.0 | 61.0 | 80.7 | |
| 12 | MCH-46 | 215.0 | 218.3 | 236.3 | 220.7 | 203.3 | 248.7 | 163.7 | 215.1 | | 102.5 | 110.7 | 91.7 | 58.3 | 129.7 | 72.1 | 94.2 | |
| 13 | S-6668 | 190.0 | 190.3 | 227.7 | 193.0 | 195.0 | 232.7 | 142.5 | 195.9 | | 82.0 | 94.6 | 101.3 | 56.7 | 122.7 | 60.5 | 86.3 | |
| 14 | HTMH-5106 | 191.5 | 194.6 | 229.7 | 211.7 | 181.7 | 242.7 | 144.7 | 199.5 | | 94.5 | 106.3 | 99.0 | 46.7 | 131.0 | 64.4 | 90.3 | |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 15 | PMH-1 | 226.0 | 231.5 | 242.3 | 243.7 | 188.3 | 245.7 | 173.6 | 221.6 | | 121.0 | 126.8 | 103.7 | 55.0 | 131.0 | 87.3 | 104.1 | |
| 16 | PMH-3 | 202.0 | 220.6 | 239.0 | 212.0 | 186.7 | 246.0 | 166.3 | 210.4 | | 102.5 | 123.5 | 107.0 | 55.0 | 142.3 | 79.9 | 101.7 | |
| 17 | Seedtech-2324 | 167.5 | 164.7 | 206.0 | 206.3 | 161.7 | 233.3 | 133.7 | 181.9 | | 82.0 | 94.4 | 93.3 | 41.7 | 125.0 | 69.9 | 84.4 | |
| 18 | BIO-9681 | 190.0 | 193.5 | 218.7 | 208.7 | 190.0 | 245.7 | 150.3 | 199.5 | | 85.5 | 98.1 | 76.7 | 55.0 | 141.0 | 64.1 | 86.7 | |
| | Loc. Mean | 203.1 | 202.4 | 226.8 | 216.7 | 188.8 | 239.0 | 152.7 | 204.2 | | 95.6 | 105.7 | 91.8 | 52.9 | 126.2 | 69.1 | 90.2 | |
| | C.D. (5%) | 14.86 | 10.84 | 14.08 | 14.93 | 20.62 | 24.56 | 19.45 | 9.51 | | 9.77 | 9.32 | 12.30 | 16.34 | 16.24 | 9.18 | 8.76 | |
| | C.V. (%) | 4.41 | 3.23 | 3.74 | 4.15 | 6.58 | 6.19 | 7.68 | 4.39 | | 6.16 | 5.31 | 8.07 | 18.63 | 7.76 | 8.01 | 8.46 | |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.71 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.51 | 0.12 | 0.00 | 0.00 | |

TABLE No. 9: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, BHILODA, CHHINDWARA, GODHRA, JHABUA, UDAIPUR IN AVT1 TRIAL No. TR65Z5 & AVT2 TR69Z5 DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PMH-1 | | | | | | | | | |
|----------|----------------------|-------------------------------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|--|----|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | | | | | ZN 5 | | | | ZN 5 | | | | | |
| | | AMBI | R | BANS | R | BHIL | R | CHHI | R | GODH | R | JHAB | R | UDAI | R | MEAN | R | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | MEAN |
| 1 | FMH-11195 | 8905 | 8 | 5441 | 3 | 7335 | 3 | 4358 | 7 | 4529 | 7 | 7218 | 1 | 6551 | 5 | 6334 | 1 | 7.7 | 25.5 | 30.8 | 26.6 | 2.8 | 28.4 | 13.6 | 18.4 |
| 2 | CMH-10-540 | 7543 | 11 | 3732 | 13 | 5561 | 11 | 4159 | 9 | 3409 | 12 | 6483 | 6 | 4804 | 13 | 5099 | 13 | - | - | - | 20.8 | - | 15.3 | - | - |
| 3 | X35B390 | 9461 | 3 | 5250 | 5 | 7451 | 2 | 4615 | 6 | 5166 | 5 | 6140 | 8 | 5534 | 9 | 6231 | 2 | 14.4 | 21.1 | 32.9 | 34 | 17.2 | 9.2 | - | 16.5 |
| 4 | P3292(X35B392) | 6913 | 12 | 5479 | 2 | 5103 | 12 | 4006 | 10 | 4771 | 6 | 5912 | 11 | 6628 | 4 | 5544 | 9 | - | 26.4 | - | 16.4 | 8.2 | 5.2 | 15 | 3.6 |
| 5 | JH-31601 | 7652 | 10 | 5721 | 1 | 6270 | 9 | 5119 | 1 | 5845 | 3 | 6056 | 9 | 6931 | 2 | 6228 | 3 | - | 32 | 11.8 | 48.7 | 32.6 | 7.7 | 20.2 | 16.4 |
| 6 | PFMH-97-I-57(AMAR) | 8944 | 7 | 4238 | 8 | 6807 | 6 | 3967 | 12 | 1930 | 13 | 6025 | 10 | 4045 | 14 | 5137 | 12 | 8.2 | - | 21.4 | 15.2 | - | 7.2 | - | - |
| 7 | CP-333 | 10284 | 2 | 4688 | 6 | 7130 | 5 | 5101 | 2 | 3913 | 10 | 4955 | 14 | 7104 | 1 | 6168 | 4 | 24.4 | 8.2 | 27.2 | 48.2 | - | - | 23.2 | 15.3 |
| 8 | P4546 | 9195 | 5 | 3697 | 14 | 6567 | 8 | 4808 | 5 | 5329 | 4 | 6643 | 4 | 6767 | 3 | 6144 | 6 | 11.2 | - | 17.1 | 39.7 | 20.9 | 18.2 | 17.4 | 14.9 |
| 9 | P3580(X35A180) | 9212 | 4 | 3757 | 12 | 7747 | 1 | 4222 | 8 | 6373 | 2 | 5891 | 12 | 4839 | 11 | 6006 | 8 | 11.4 | - | 38.2 | 22.6 | 44.6 | 4.8 | - | 12.3 |
| 10 | MCH-46 | 10345 | 1 | 3809 | 11 | 7271 | 4 | 5028 | 3 | 4453 | 8 | 6679 | 3 | 4839 | 12 | 6061 | 7 | 25.1 | - | 29.7 | 46.1 | 1 | 18.8 | - | 13.3 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 8268 | 9 | 4335 | 7 | 5607 | 10 | 3443 | 13 | 4407 | 9 | 5621 | 13 | 5764 | 8 | 5349 | 10 | - | - | - | - | - | - | - | - |
| 12 | PMH-3 | 9010 | 6 | 5349 | 4 | 4935 | 13 | 4902 | 4 | 6944 | 1 | 6515 | 5 | 5374 | 10 | 6147 | 5 | 9 | 23.4 | - | 42.4 | 57.6 | 15.9 | - | 14.9 |
| 13 | Seedtech-2324 | 4901 | 14 | 4121 | 9 | 6652 | 7 | 3978 | 11 | 3790 | 11 | 7212 | 2 | 5983 | 6 | 5234 | 11 | - | - | 18.6 | 15.5 | - | 28.3 | 3.8 | - |
| 14 | BIO-9681 | 5970 | 13 | 3916 | 10 | 3774 | 14 | 3168 | 14 | 1880 | 14 | 6460 | 7 | 5831 | 7 | 4428 | 14 | - | - | - | - | - | 14.9 | 1.2 | - |
| | Location Mean | 8329 | | 4538 | | 6301 | | 4348 | | 4481 | | 6272 | | 5785 | | 5722 | | | | | | | | | |
| | C.D. (5%) | 1466 | | 842 | | 1417 | | 838 | | 558 | | 308 | | 1011 | | 920 | | | | | | | | | |
| | C.V. (%) | 10.47 | | 11.04 | | 13.38 | | 11.46 | | 7.4 | | 2.92 | | 10.39 | | - | | | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0.001 | | 0 | | 0 | | 0 | | 0 | | | | | | | | | |
| | Plot Size | 18 | | 14.4 | | 14.4 | | 18 | | 14.4 | | 13.5 | | 14.4 | | - | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 27-06 | | 3-07 | | 28-06 | | 11-07 | | 7-07 | | 24-06 | | 29-06 | | - | | | | | | | | | |
| | Harvest Date | - | | 12-10 | | - | | 11-11 | | 24-10 | | 11-10 | | 16-10 | | - | | | | | | | | | |
| | Irrigation Nos | - | | - | | - | | - | | - | | - | | 2 | | - | | | | | | | | | |
| | Fertilizer Applied N | 120 | | 150 | | - | | 120 | | 100 | | 120 | | 120 | | - | | | | | | | | | |
| | Fertilizer Applied P | 60 | | 80 | | - | | 60 | | 50 | | 60 | | 90 | | - | | | | | | | | | |
| | Fertilizer Applied K | 40 | | - | | - | | 40 | | - | | 60 | | - | | - | | | | | | | | | |

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TABLE No. 9 (Cont..)

| S.No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE PMH-3 | | | | | | | ZN 5 MEAN | GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324 | | | | | | | ZN 5 MEAN | GRAIN YIELD % SUPERIORITY OVER THE BIO-9681 | | | | | | | |
|------------------|--------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | MEAN |
| 1 | FMH-11195 | - | 1.7 | 48.6 | - | - | 10.8 | 21.9 | 3 | 81.7 | 32 | 10.3 | 9.6 | 19.5 | 0.1 | 9.5 | 21 | 49.2 | 38.9 | 94.4 | 37.6 | 140.9 | 11.7 | 12.3 | 43 |
| 2 | CMH-10-540 | - | - | 12.7 | - | - | - | - | - | 53.9 | - | - | 4.5 | - | - | - | - | 26.4 | - | 47.4 | 31.3 | 81.4 | 0.4 | - | 15.1 |
| 3 | X35B390 | 5 | - | 51 | - | - | - | 3 | 1.4 | 93 | 27.4 | 12 | 16 | 36.3 | - | - | 19 | 58.5 | 34.1 | 97.5 | 45.7 | 174.8 | - | - | 40.7 |
| 4 | P3292(X35B392) | - | 2.4 | 3.4 | - | - | - | 23.3 | - | 41 | 32.9 | - | 0.7 | 25.9 | - | 10.8 | 5.9 | 15.8 | 39.9 | 35.2 | 26.5 | 153.8 | - | 13.7 | 25.2 |
| 5 | JH-31601 | - | 6.9 | 27 | 4.4 | - | - | 29 | 1.3 | 56.1 | 38.8 | - | 28.7 | 54.2 | - | 15.9 | 19 | 28.2 | 46.1 | 66.1 | 61.6 | 210.9 | - | 18.9 | 40.6 |
| 6 | PFMH-97-I-57(AMAR) | - | - | 37.9 | - | - | - | - | - | 82.5 | 2.8 | 2.3 | - | - | - | - | - | 49.8 | 8.2 | 80.4 | 25.2 | 2.6 | - | - | 16 |
| 7 | CP-333 | 14.1 | - | 44.5 | 4.1 | - | - | 32.2 | 0.3 | 109.8 | 13.8 | 7.2 | 28.2 | 3.2 | - | 18.7 | 17.8 | 72.3 | 19.7 | 88.9 | 61 | 108.2 | - | 21.8 | 39.3 |
| 8 | P4546 | 2.1 | - | 33.1 | - | - | 2 | 25.9 | - | 87.6 | - | - | 20.9 | 40.6 | - | 13.1 | 17.4 | 54 | - | 74 | 51.8 | 183.5 | 2.8 | 16.1 | 38.7 |
| 9 | P3580(X35A180) | 2.2 | - | 57 | - | - | - | - | - | 88 | - | 16.5 | 6.1 | 68.1 | - | - | 14.7 | 54.3 | - | 105.3 | 33.3 | 239 | - | - | 35.6 |
| 10 | MCH-46 | 14.8 | - | 47.3 | 2.6 | - | 2.5 | - | - | 111.1 | - | 9.3 | 26.4 | 17.5 | - | - | 15.8 | 73.3 | - | 92.7 | 58.7 | 136.9 | 3.4 | - | 36.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | - | - | 13.6 | - | - | - | 7.3 | - | 68.7 | 5.2 | - | - | 16.3 | - | - | 2.2 | 38.5 | 10.7 | 48.6 | 8.7 | 134.5 | - | - | 20.8 |
| 12 | PMH-3 | - | - | - | - | - | - | - | - | 83.8 | 29.8 | - | 23.2 | 83.2 | - | - | 17.4 | 50.9 | 36.6 | 30.8 | 54.7 | 269.4 | 0.9 | - | 38.8 |
| 13 | Seedtech-2324 | - | - | 34.8 | - | - | 10.7 | 11.3 | - | - | - | - | - | - | - | - | - | - | 5.2 | 76.3 | 25.6 | 101.6 | 11.6 | 2.6 | 18.2 |
| 14 | BIO-9681 | - | - | - | - | - | - | 8.5 | - | 21.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S.No | PEDIGREE | GRAIN SHELLING % | | | | | | | ZN 5 Mean | MOISTURE % AT HARVEST | | | | | | | ZN 5 Mean | DAYS TO 50% POLLEN SHED | | | | | | | ZN 5 Mean |
| | | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | | BANS | BHIL | CHHI | GODH | JHAB | UDAI | AMBI | | BANS | BHIL | CHHI | GODH | JHAB | UDAI | Mean | |
| 1 | FMH-11195 | 75.6 | 72.5 | 79.8 | 79.7 | 90.5 | 83.2 | 84.1 | 80.8 | 17.2 | 22.5 | 20.3 | 19.9 | 24.1 | 25.1 | 21.5 | 50.0 | 50.7 | 48.7 | 59.3 | 55.7 | 52.0 | 53.7 | 52.9 | |
| 2 | CMH-10-540 | 74.2 | 68.7 | 75.1 | 80.9 | 91.8 | 79.4 | 80.3 | 78.6 | 16.8 | 22.1 | 19.9 | 19.4 | 24.4 | 24.2 | 21.1 | 50.0 | 53.3 | 51.3 | 62.7 | 56.3 | 52.3 | 54.7 | 54.4 | |
| 3 | X35B390 | 74.4 | 70.6 | 78.8 | 79.7 | 89.4 | 83.9 | 85.1 | 80.3 | 17.0 | 22.2 | 22.8 | 15.3 | 24.1 | 23.5 | 20.8 | 50.0 | 52.7 | 52.0 | 62.7 | 57.3 | 54.0 | 54.3 | 54.7 | |
| 4 | P3292(X35B392) | 73.2 | 70.5 | 80.0 | 80.6 | 92.9 | 83.4 | 85.1 | 80.8 | 16.5 | 21.9 | 17.6 | 19.9 | 24.1 | 24.3 | 20.7 | 48.0 | 53.0 | 50.7 | 63.0 | 54.0 | 51.7 | 53.7 | 53.4 | |
| 5 | JH-31601 | 75.3 | 72.5 | 79.4 | 81.5 | 82.5 | 78.7 | 85.1 | 79.3 | 18.1 | 22.2 | 22.1 | 18.5 | 23.9 | 23.3 | 21.3 | 51.7 | 51.7 | 53.3 | 62.3 | 57.0 | 55.3 | 52.7 | 54.9 | |
| 6 | PFMH-97-I-57(AMAR) | 74.1 | 70.3 | 75.2 | 79.1 | 89.8 | 80.5 | 84.2 | 79.0 | 17.3 | 22.7 | 22.0 | 19.7 | 24.1 | 24.0 | 21.6 | 49.0 | 52.7 | 52.7 | 59.3 | 55.7 | 54.3 | 54.3 | 54.0 | |
| 7 | CP-333 | 73.6 | 70.0 | 80.2 | 83.4 | 90.0 | 82.5 | 84.1 | 80.5 | 16.3 | 22.8 | 22.4 | 15.5 | 24.0 | 24.1 | 20.8 | 50.7 | 52.3 | 52.0 | 61.0 | 57.3 | 54.3 | 53.7 | 54.5 | |
| 8 | P4546 | 73.0 | 68.1 | 83.4 | 84.6 | 90.6 | 81.8 | 85.0 | 80.9 | 17.0 | 23.4 | 22.2 | 17.9 | 23.7 | 24.0 | 21.4 | 51.7 | 53.0 | 53.7 | 63.7 | 55.0 | 54.3 | 54.3 | 55.1 | |
| 9 | P3580(X35A180) | 73.1 | 70.8 | 75.4 | 79.6 | 90.6 | 81.4 | 81.3 | 78.9 | 17.0 | 22.8 | 18.6 | 18.8 | 24.0 | 24.1 | 20.9 | 51.0 | 53.0 | 53.3 | 63.3 | 56.3 | 55.3 | 54.3 | 55.2 | |
| 10 | MCH-46 | 75.1 | 70.0 | 80.5 | 81.3 | 90.5 | 81.5 | 82.1 | 80.1 | 18.1 | 22.1 | 24.9 | 17.6 | 24.1 | 24.0 | 21.8 | 52.7 | 52.0 | 55.0 | 67.3 | 60.0 | 54.7 | 54.7 | 56.6 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 73.7 | 70.2 | 77.7 | 79.3 | 92.9 | 83.5 | 80.8 | 79.7 | 17.2 | 22.1 | 22.2 | 18.3 | 23.9 | 24.0 | 21.3 | 50.7 | 52.0 | 53.3 | 61.7 | 55.3 | 53.3 | 54.7 | 54.4 | |
| 12 | PMH-3 | 74.0 | 69.4 | 79.8 | 81.0 | 88.6 | 80.3 | 84.9 | 79.7 | 17.0 | 22.4 | 23.4 | 17.5 | 23.7 | 24.0 | 21.3 | 50.7 | 52.0 | 54.0 | 63.3 | 57.0 | 54.7 | 54.7 | 55.2 | |
| 13 | Seedtech-2324 | 72.8 | 68.6 | 79.2 | 81.3 | 83.3 | 81.9 | 84.1 | 78.7 | 16.9 | 22.4 | 20.8 | 20.6 | 24.2 | 21.0 | 21.0 | 50.0 | 51.7 | 51.3 | 61.7 | 55.0 | 53.3 | 54.0 | 53.9 | |
| 14 | BIO-9681 | 73.1 | 68.6 | 78.8 | 80.8 | 90.9 | 79.6 | 84.1 | 79.4 | 17.2 | 22.1 | 13.9 | 17.7 | 24.2 | 23.8 | 19.8 | 47.0 | 53.0 | 50.0 | 62.0 | 54.0 | 52.3 | 51.7 | 52.9 | |
| Loc. Mean | | 73.9 | 70.0 | 78.8 | 80.9 | 89.6 | 81.6 | 83.6 | 79.8 | 17.1 | 22.4 | 20.9 | 18.3 | 24.1 | 23.8 | 21.1 | 50.2 | 52.4 | 52.2 | 62.4 | 56.1 | 53.7 | 54.0 | 54.4 | |
| C.D. (5%) | | 2.32 | 1.38 | 2.43 | 2.93 | 3.82 | 2.82 | 0.82 | 1.99 | 0.79 | - | 1.43 | 2.20 | 0.82 | 0.80 | 1.63 | 0.50 | 1.83 | 1.97 | 1.31 | 3.90 | 1.02 | 1.16 | 1.16 | |
| C.V. (%) | | 1.87 | 1.18 | 1.84 | 2.16 | 2.54 | 2.06 | 0.58 | 2.34 | 2.75 | - | 4.08 | 7.15 | 2.03 | 2.00 | 6.70 | 0.59 | 2.08 | 2.25 | 1.25 | 4.14 | 1.13 | 1.28 | 2.01 | |
| F (Prob) | | 0.31 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 | 0.23 | 0.00 | - | 0.00 | 0.00 | 0.92 | 0.00 | 0.73 | 0.00 | 0.24 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | |

Table No. 9 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | | ZN 5 | DAYS TO 75% DRY HUSK | | | | | | | ZN 5 | STAND AT HARVEST ('000/ha) | | | | | | | ZN 5 |
|------------------|--------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| | | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | Mean | AMBI | BANS | BHIL | CHHI | GODH | UDAI | Mean | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | Mean | |
| 1 | FMH-11195 | 52.7 | 53.7 | 51.3 | 61.0 | 55.3 | 54.3 | 56.0 | 54.9 | 89.0 | 89.0 | 87.0 | 97.0 | 84.7 | 87.3 | 89.0 | 59.4 | 71.8 | 59.7 | 55.0 | 63.9 | 58.8 | 62.7 | 61.6 | |
| 2 | CMH-10-540 | 52.7 | 56.0 | 54.3 | 64.7 | 60.0 | 54.3 | 57.7 | 57.1 | 87.0 | 90.0 | 88.0 | 97.7 | 89.0 | 88.3 | 90.0 | 58.3 | 71.1 | 60.4 | 56.9 | 50.7 | 61.5 | 63.7 | 60.4 | |
| 3 | X35B390 | 52.7 | 55.3 | 55.3 | 64.3 | 62.3 | 56.3 | 56.7 | 57.6 | 84.0 | 90.7 | 90.7 | 98.3 | 90.7 | 88.7 | 90.5 | 59.8 | 68.8 | 59.5 | 55.7 | 59.3 | 58.0 | 64.1 | 60.7 | |
| 4 | P3292(X35B392) | 50.7 | 56.0 | 54.0 | 64.0 | 57.0 | 53.7 | 56.7 | 56.0 | 85.0 | 91.3 | 90.7 | 101.3 | 85.0 | 88.3 | 90.3 | 53.0 | 73.4 | 53.5 | 58.3 | 48.6 | 60.7 | 63.0 | 58.6 | |
| 5 | JH-31601 | 54.7 | 54.7 | 55.7 | 63.7 | 59.0 | 57.3 | 55.7 | 57.2 | 85.3 | 90.3 | 90.7 | 99.3 | 90.0 | 88.7 | 90.7 | 55.2 | 73.1 | 46.3 | 60.2 | 67.4 | 55.8 | 63.4 | 60.2 | |
| 6 | PFMH-97-I-57(AMAR) | 51.7 | 55.0 | 55.3 | 61.7 | 58.0 | 56.7 | 57.0 | 56.5 | 92.0 | 89.7 | 96.7 | 98.7 | 87.3 | 88.7 | 92.2 | 55.9 | 71.1 | 44.4 | 56.7 | 35.6 | 58.5 | 63.0 | 55.0 | |
| 7 | CP-333 | 53.0 | 55.3 | 54.7 | 63.0 | 59.3 | 56.7 | 56.3 | 56.9 | 90.0 | 86.7 | 92.0 | 100.0 | 88.0 | 89.0 | 90.9 | 62.8 | 69.7 | 60.4 | 59.1 | 52.3 | 61.7 | 63.4 | 61.3 | |
| 8 | P4546 | 55.0 | 55.7 | 56.3 | 65.7 | 55.3 | 57.0 | 57.0 | 57.4 | 95.3 | 90.0 | 94.3 | 101.7 | 84.3 | 88.7 | 92.4 | 61.5 | 71.1 | 49.5 | 53.9 | 63.4 | 64.2 | 63.4 | 61.0 | |
| 9 | P3580(X35A180) | 53.7 | 52.3 | 56.3 | 65.3 | 60.7 | 57.7 | 57.3 | 57.6 | 91.7 | 90.7 | 91.0 | 102.0 | 90.7 | 88.7 | 92.4 | 57.0 | 71.3 | 56.5 | 53.5 | 59.0 | 66.4 | 63.4 | 61.0 | |
| 10 | MCH-46 | 55.3 | 55.0 | 58.0 | 69.3 | 64.3 | 57.0 | 57.7 | 59.5 | 94.7 | 89.7 | 95.7 | 103.3 | 93.0 | 89.0 | 94.2 | 64.6 | 69.0 | 59.3 | 57.8 | 46.5 | 65.7 | 63.2 | 60.9 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 53.3 | 55.0 | 56.3 | 63.7 | 59.3 | 55.3 | 57.0 | 57.1 | 87.3 | 91.0 | 88.7 | 98.0 | 89.0 | 87.3 | 90.2 | 58.7 | 71.3 | 50.9 | 56.3 | 44.4 | 59.8 | 62.3 | 57.7 | |
| 12 | PMH-3 | 53.3 | 55.0 | 57.3 | 65.3 | 60.3 | 56.7 | 57.3 | 57.9 | 89.0 | 89.3 | 88.7 | 99.0 | 91.0 | 89.3 | 91.1 | 61.3 | 75.7 | 48.8 | 57.8 | 58.6 | 67.2 | 62.7 | 61.7 | |
| 13 | Seedtech-2324 | 52.7 | 54.7 | 54.7 | 63.7 | 58.3 | 55.3 | 56.7 | 56.6 | 91.0 | 90.3 | 88.7 | 100.3 | 89.3 | 89.3 | 91.5 | 47.6 | 69.4 | 65.3 | 60.6 | 68.8 | 67.7 | 63.0 | 63.2 | |
| 14 | BIO-9681 | 49.7 | 56.0 | 53.3 | 63.7 | 57.7 | 54.7 | 54.7 | 55.7 | 80.3 | 90.0 | 87.3 | 96.7 | 87.7 | 86.7 | 88.1 | 51.1 | 71.1 | 39.1 | 55.2 | 43.5 | 59.5 | 62.3 | 54.5 | |
| Loc. Mean | | 52.9 | 55.0 | 55.2 | 64.2 | 59.1 | 55.9 | 56.7 | 57.0 | 88.7 | 89.9 | 90.7 | 99.5 | 88.5 | 88.4 | 91.0 | 57.6 | 71.3 | 53.8 | 56.9 | 54.4 | 61.8 | 63.1 | 59.9 | |
| C.D. (5%) | | 0.74 | 2.74 | 2.07 | 1.34 | 5.35 | 1.11 | 1.03 | 1.38 | 1.12 | 1.16 | 2.83 | 1.28 | 6.16 | 1.02 | 2.58 | 4.51 | 5.34 | 11.74 | 4.64 | 6.36 | 7.47 | 0.70 | 5.43 | |
| C.V. (%) | | 0.83 | 2.97 | 2.23 | 1.25 | 5.40 | 1.18 | 1.08 | 2.28 | 0.76 | 0.77 | 1.86 | 0.77 | 4.15 | 0.69 | 2.46 | 4.67 | 4.46 | 12.99 | 4.86 | 6.96 | 7.20 | 0.66 | 8.53 | |
| F (Prob) | | 0.00 | 0.40 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.09 | 0.00 | 0.05 | 0.00 | 0.08 | |
| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | ZN 5 | EAR HEIGHT(cm) | | | | | | | ZN 5 | | | | | | | | |
| | | AMBI | BANS | BHIL | CHHI | GODH | JHAB | UDAI | Mean | AMBI | BANS | BHIL | CHHI | GODH | UDAI | Mean | | | | | | | | | |
| 1 | FMH-11195 | 300.5 | 162.2 | 208.3 | 146.7 | 161.3 | 186.2 | 225.0 | 198.6 | 115.0 | 77.1 | 101.7 | 63.3 | 70.0 | 110.0 | 89.5 | | | | | | | | | |
| 2 | CMH-10-540 | 289.5 | 167.2 | 186.1 | 146.7 | 151.0 | 182.2 | 230.0 | 193.2 | 129.0 | 77.2 | 110.0 | 76.7 | 71.3 | 120.0 | 97.4 | | | | | | | | | |
| 3 | X35B390 | 300.9 | 180.6 | 205.5 | 156.7 | 132.7 | 194.2 | 210.0 | 197.2 | 111.5 | 78.7 | 103.3 | 71.7 | 63.7 | 120.0 | 91.5 | | | | | | | | | |
| 4 | P3292(X35B392) | 296.9 | 160.6 | 198.8 | 170.0 | 165.0 | 193.0 | 223.3 | 201.1 | 113.3 | 70.5 | 104.4 | 73.3 | 72.0 | 96.7 | 88.4 | | | | | | | | | |
| 5 | JH-31601 | 277.0 | 180.4 | 185.0 | 155.0 | 140.7 | 166.7 | 216.7 | 188.8 | 117.7 | 75.5 | 99.5 | 70.0 | 55.3 | 111.7 | 88.3 | | | | | | | | | |
| 6 | PFMH-97-I-57(AMAR) | 274.7 | 155.6 | 183.3 | 138.3 | 138.7 | 153.3 | 181.7 | 175.1 | 77.9 | 59.0 | 73.9 | 51.7 | 61.3 | 70.0 | 65.6 | | | | | | | | | |
| 7 | CP-333 | 252.5 | 128.9 | 175.0 | 126.7 | 139.0 | 147.3 | 171.7 | 163.0 | 95.6 | 63.1 | 75.6 | 63.3 | 56.7 | 81.7 | 72.7 | | | | | | | | | |
| 8 | P4546 | 275.8 | 147.2 | 186.6 | 145.0 | 156.0 | 162.5 | 216.7 | 184.3 | 103.8 | 55.6 | 87.2 | 65.0 | 64.3 | 91.7 | 77.9 | | | | | | | | | |
| 9 | P3580(X35A180) | 313.7 | 168.9 | 210.0 | 168.3 | 163.3 | 175.5 | 225.0 | 203.5 | 116.5 | 75.6 | 113.3 | 63.3 | 75.3 | 106.7 | 91.8 | | | | | | | | | |
| 10 | MCH-46 | 293.5 | 160.5 | 197.7 | 163.3 | 133.7 | 169.7 | 221.7 | 191.4 | 109.7 | 69.0 | 90.0 | 68.3 | 53.7 | 103.3 | 82.3 | | | | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | PMH-1 | 306.7 | 172.1 | 189.4 | 161.7 | 145.0 | 186.2 | 226.7 | 198.2 | 139.5 | 80.5 | 92.2 | 71.7 | 78.0 | 110.0 | 95.3 | | | | | | | | | |
| 12 | PMH-3 | 307.5 | 163.9 | 171.6 | 165.0 | 145.3 | 196.4 | 200.0 | 192.8 | 133.8 | 74.0 | 82.8 | 86.7 | 66.7 | 98.3 | 90.4 | | | | | | | | | |
| 13 | Seedtech-2324 | 244.9 | 150.7 | 183.3 | 140.0 | 153.7 | 176.3 | 166.7 | 173.6 | 104.4 | 79.1 | 102.8 | 65.0 | 72.3 | 90.0 | 85.6 | | | | | | | | | |
| 14 | BIO-9681 | 262.7 | 147.3 | 182.8 | 150.0 | 124.3 | 173.9 | 193.3 | 176.3 | 77.1 | 58.9 | 72.8 | 55.0 | 55.7 | 71.7 | 65.2 | | | | | | | | | |
| Loc. Mean | | 285.5 | 160.4 | 190.2 | 152.4 | 146.4 | 176.0 | 207.7 | 188.4 | 110.3 | 71.0 | 93.5 | 67.5 | 65.5 | 98.7 | 84.4 | | | | | | | | | |
| C.D. (5%) | | 19.32 | 29.68 | 33.33 | 13.66 | 39.92 | 9.21 | 21.63 | 11.99 | 13.07 | 21.43 | 18.99 | 11.46 | 20.60 | 15.27 | 9.61 | | | | | | | | | |
| C.V. (%) | | 4.03 | 11.02 | 10.44 | 5.34 | 16.25 | 3.12 | 6.20 | 5.98 | 7.06 | 17.99 | 12.10 | 10.12 | 18.75 | 9.22 | 9.87 | | | | | | | | | |
| F (Prob) | | 0.00 | 0.08 | 0.41 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | | | | | | | | | |

TABLE No. 10 (Cont.)

| GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|
| SI No | PEDIGREE | HM12 | | | ZN 1 | | | HM8 | | | ZN 1 | | | | | | |
| | | BAJA | KANG | UDHA | MEAN | BAJA | KANG | UDHA | MEAN | BAJA | KANG | UDHA | MEAN | | | | |
| 1 | KMH-25K-45 | 34.6 | 37.2 | - | 23.1 | 11.9 | 8 | 19.5 | 12.8 | | | | | | | | |
| 2 | KMH-3110 | 36.2 | 43.1 | - | 25.2 | 13.3 | 12.6 | 19.5 | 14.7 | | | | | | | | |
| 3 | KMH-7148 | 38.4 | 1.3 | 2.5 | 17.8 | 15.2 | - | 24.8 | 8 | | | | | | | | |
| 4 | NMH-1276 | 29.3 | 92.5 | - | 30.8 | 7.6 | 51.5 | 8.8 | 19.8 | | | | | | | | |
| 5 | IJ8533 | 37.6 | 47.5 | 16.2 | 32.8 | 14.5 | 16.1 | 41.4 | 21.7 | | | | | | | | |
| 6 | X35B403 | 30.2 | 109.9 | 1.6 | 39.3 | 8.3 | 65.2 | 23.7 | 27.6 | | | | | | | | |
| 7 | S-6790 | 40.1 | 99.1 | - | 35 | 16.6 | 56.8 | 1.3 | 23.7 | | | | | | | | |
| 8 | S-6850 | 27.3 | 85.3 | - | 28.3 | 5.9 | 45.8 | 9.2 | 17.5 | | | | | | | | |
| 9 | Proline-777 | 29.6 | 59 | - | 25.5 | 7.8 | 25.2 | 17.7 | 15 | | | | | | | | |
| 10 | EHL-161708 | 48.1 | 72.7 | - | 36.5 | 23.2 | 35.9 | 16.8 | 25.1 | | | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | |
| 11 | PMH-4 | 48.4 | 84.8 | 9.1 | 43.8 | 23.5 | 45.5 | 32.8 | 31.8 | | | | | | | | |
| 12 | BIO-9637 | 22.9 | 13.6 | 22 | 20.5 | 2.3 | - | 48.5 | 10.4 | | | | | | | | |
| 13 | HM12 | - | - | - | - | - | - | 21.7 | - | | | | | | | | |
| 14 | HM8 | 20.2 | 27 | - | 9.1 | - | - | - | - | | | | | | | | |
| S.No | PEDIGREE | GRAIN SHELLING % | | | | MOISTURE % AT HARVEST | | | | STAND AT HARVEST ('000/ha) | | | | DAYS TO 50% POLLEN SHED | | | |
| | | BAJA | KANG | UDHA | Mean | BAJA | KANG | UDHA | Mean | BAJA | KANG | UDHA | Mean | BAJA | KANG | UDHA | Mean |
| 1 | KMH-25K-45 | 83.9 | 71.6 | 75.4 | 76.9 | 23.1 | 30.6 | 24.5 | 26.1 | 80.4 | 76.4 | 66.7 | 74.5 | 57.7 | 55.0 | 57.7 | 56.8 |
| 2 | KMH-3110 | 83.2 | 70.6 | 73.2 | 75.6 | 21.9 | 29.9 | 24.5 | 25.4 | 75.6 | 81.5 | 69.2 | 75.4 | 57.3 | 57.0 | 57.7 | 57.3 |
| 3 | KMH-7148 | 83.9 | 72.6 | 74.4 | 77.0 | 23.3 | 31.5 | 24.5 | 26.4 | 75.9 | 78.7 | 69.7 | 74.8 | 56.7 | 58.3 | 57.7 | 57.6 |
| 4 | NMH-1276 | 82.9 | 70.7 | 77.7 | 77.1 | 21.7 | 31.1 | 24.5 | 25.8 | 75.9 | 77.8 | 63.2 | 72.3 | 54.7 | 55.3 | 58.0 | 56.0 |
| 5 | IJ8533 | 82.8 | 71.3 | 84.1 | 79.4 | 24.2 | 32.1 | 25.0 | 27.1 | 75.6 | 77.8 | 70.6 | 74.6 | 59.3 | 57.0 | 58.0 | 58.1 |
| 6 | X35B403 | 85.0 | 72.5 | 77.0 | 78.2 | 22.7 | 29.9 | 25.0 | 25.9 | 78.5 | 82.4 | 69.7 | 76.9 | 56.7 | 53.0 | 57.7 | 55.8 |
| 7 | S-6790 | 85.9 | 71.7 | 74.5 | 77.3 | 23.5 | 30.1 | 25.5 | 26.3 | 73.3 | 81.0 | 67.6 | 74.0 | 59.7 | 56.3 | 58.3 | 58.1 |
| 8 | S-6850 | 82.5 | 71.0 | 75.5 | 76.3 | 22.3 | 31.1 | 25.0 | 26.1 | 76.7 | 79.2 | 64.8 | 73.5 | 60.3 | 56.3 | 59.7 | 58.8 |
| 9 | Proline-777 | 82.2 | 72.2 | 78.8 | 77.7 | 22.0 | 29.3 | 25.5 | 25.6 | 78.1 | 80.1 | 69.0 | 75.7 | 60.7 | 57.7 | 58.0 | 58.8 |
| 10 | EHL-161708 | 86.4 | 73.1 | 75.0 | 78.2 | 21.5 | 29.5 | 25.0 | 25.3 | 77.0 | 76.4 | 68.1 | 73.8 | 55.7 | 54.7 | 58.3 | 56.2 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 11 | PMH-4 | 85.9 | 74.1 | 76.5 | 78.8 | 21.7 | 29.7 | 26.0 | 25.8 | 77.0 | 80.1 | 71.5 | 76.2 | 52.0 | 53.0 | 58.0 | 54.3 |
| 12 | BIO-9637 | 82.5 | 70.2 | 81.8 | 78.2 | 22.1 | 28.8 | 24.5 | 25.1 | 77.0 | 75.9 | 72.2 | 75.1 | 56.7 | 54.7 | 58.0 | 56.4 |
| 13 | HM12 | 84.8 | 71.4 | 77.6 | 77.9 | 21.7 | 31.7 | 24.0 | 25.8 | 53.7 | 78.2 | 69.7 | 67.2 | 59.0 | 56.3 | 58.3 | 57.9 |
| 14 | HM8 | 81.3 | 71.3 | 75.2 | 75.9 | 22.9 | 29.2 | 25.0 | 25.7 | 79.3 | 78.2 | 64.8 | 74.1 | 58.7 | 56.0 | 59.7 | 58.1 |
| Loc. Mean | 83.8 | 71.7 | 76.9 | 77.5 | 22.4 | 30.3 | 24.9 | 25.9 | 25.9 | 75.3 | 78.8 | 68.3 | 74.2 | 57.5 | 55.8 | 58.2 | 57.2 |
| C.D. (5%) | 1.35 | 1.61 | 2.90 | 3.58 | 0.94 | 0.68 | 1.29 | 1.32 | 1.32 | 5.91 | 4.25 | 6.05 | 7.18 | 1.29 | 2.67 | 2.87 | 2.27 |
| C.V. (%) | 0.96 | 1.34 | 2.25 | 2.76 | 2.50 | 1.34 | 3.10 | 3.04 | 3.04 | 4.68 | 3.21 | 5.28 | 5.77 | 1.34 | 2.86 | 2.94 | 2.37 |
| F (Prob) | 0.00 | 0.00 | 0.00 | 0.69 | 0.00 | 0.00 | 0.23 | 0.32 | 0.32 | 0.00 | 0.09 | 0.14 | 0.59 | 0.00 | 0.01 | 0.93 | 0.01 |

Table No. 10 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | DAYS TO 75% DRY HUSK | | | | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | |
|-------|------------------|---------------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|----------------|-------------|--------------|--------------|
| | | BAJA | KANG | UDHA | ZN 1 | BAJA | KANG | UDHA | ZN 1 | BAJA | KANG | UDHA | ZN 1 | BAJA | KANG | UDHA | ZN 1 |
| | | | | | Mean | | | | Mean | | | | Mean | | | | Mean |
| 1 | KMH-25K-45 | 60.0 | 57.7 | 62.7 | 60.1 | 100.3 | 92.7 | 94.0 | 95.7 | 231.7 | 207.7 | 207.9 | 215.7 | 121.7 | 91.3 | 101.3 | 104.8 |
| 2 | KMH-3110 | 60.0 | 59.7 | 62.7 | 60.8 | 100.7 | 94.7 | 94.7 | 96.7 | 225.0 | 227.7 | 210.0 | 220.9 | 111.7 | 109.0 | 99.2 | 106.6 |
| 3 | KMH-7148 | 58.7 | 60.7 | 62.7 | 60.7 | 101.7 | 95.7 | 94.7 | 97.3 | 218.3 | 180.3 | 211.7 | 203.5 | 105.0 | 72.0 | 98.7 | 91.9 |
| 4 | NMH-1276 | 56.7 | 57.3 | 62.7 | 58.9 | 97.7 | 92.3 | 95.0 | 95.0 | 221.7 | 203.0 | 231.3 | 218.7 | 113.3 | 91.0 | 104.9 | 103.1 |
| 5 | IJ8533 | 61.3 | 59.3 | 63.0 | 61.2 | 101.3 | 94.3 | 94.3 | 96.7 | 245.0 | 225.0 | 233.7 | 234.6 | 121.7 | 101.7 | 107.9 | 110.4 |
| 6 | X35B403 | 58.7 | 55.7 | 62.0 | 58.8 | 96.0 | 90.7 | 94.7 | 93.8 | 245.0 | 235.7 | 247.0 | 242.6 | 138.3 | 111.7 | 106.5 | 118.8 |
| 7 | S-6790 | 61.7 | 59.3 | 63.0 | 61.3 | 101.3 | 94.3 | 96.3 | 97.3 | 203.3 | 209.3 | 212.5 | 208.4 | 101.7 | 98.3 | 98.7 | 99.6 |
| 8 | S-6850 | 62.3 | 59.0 | 64.7 | 62.0 | 101.0 | 94.0 | 97.7 | 97.6 | 205.0 | 213.3 | 206.2 | 208.2 | 118.3 | 101.3 | 95.7 | 105.1 |
| 9 | Proline-777 | 62.7 | 59.7 | 62.7 | 61.7 | 101.0 | 94.7 | 96.0 | 97.2 | 191.7 | 202.0 | 204.9 | 199.5 | 100.0 | 104.3 | 93.0 | 99.1 |
| 10 | EHL-161708 | 58.7 | 57.7 | 63.0 | 59.8 | 98.7 | 92.7 | 95.7 | 95.7 | 175.0 | 175.7 | 184.9 | 178.5 | 93.3 | 90.7 | 120.7 | 101.6 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 11 | PMH-4 | 54.3 | 55.7 | 62.3 | 57.4 | 95.3 | 90.7 | 94.7 | 93.6 | 206.7 | 199.3 | 217.4 | 207.8 | 98.3 | 95.3 | 95.3 | 96.3 |
| 12 | BIO-9637 | 59.0 | 57.3 | 62.7 | 59.7 | 98.3 | 92.3 | 95.3 | 95.3 | 236.7 | 208.7 | 228.2 | 224.5 | 121.7 | 106.0 | 105.8 | 111.2 |
| 13 | HM12 | 61.0 | 59.3 | 63.3 | 61.2 | 100.0 | 94.3 | 94.0 | 96.1 | 195.0 | 202.7 | 196.5 | 198.1 | 98.3 | 106.0 | 91.3 | 98.6 |
| 14 | HM8 | 61.0 | 58.7 | 64.7 | 61.4 | 99.3 | 93.7 | 93.7 | 95.6 | 206.7 | 196.7 | 178.3 | 193.9 | 106.7 | 90.3 | 80.8 | 92.6 |
| | Loc. Mean | 59.7 | 58.4 | 63.0 | 60.4 | 99.5 | 93.4 | 95.0 | 96.0 | 214.8 | 206.2 | 212.2 | 211.1 | 110.7 | 97.8 | 100.0 | 102.8 |
| | C.D. (5%) | 1.21 | 2.71 | 2.82 | 2.03 | 2.11 | 2.71 | 2.91 | 1.94 | 25.23 | 7.46 | 40.74 | 17.43 | 30.69 | 5.10 | 27.56 | 16.16 |
| | C.V. (%) | 1.21 | 2.76 | 2.67 | 2.00 | 1.26 | 1.73 | 1.83 | 1.20 | 7.00 | 2.16 | 11.44 | 4.92 | 16.52 | 3.11 | 16.42 | 9.36 |
| | F (Prob) | 0.00 | 0.02 | 0.80 | 0.00 | 0.00 | 0.02 | 0.36 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.22 | 0.00 | 0.50 | 0.10 |

TABLE No. 11: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT KARNAL, LUDHIANA, PANTNAGAR IN AET1 TRIAL No. TR66Z2 (AET1-M-Z2) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------------|-------------------------------------|----|-------------|----|-------------|----|-------------|----|------------------------------------|------|------|------|----------|------|------|------|-------|------|-------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|
| | | KARNAL | | | | LUDHIANA | | | | PANTNAGAR | | | | BIO-9637 | | | | HM-12 | | | | HM-8 | | | | | | | | | | | | | | | | | | | | | | | |
| | | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | | | | | | | | | | |
| 1 | Rasi-3033 | 9095 | 2 | 9851 | 4 | 9976 | 5 | 9640 | 3 | 3.5 | 17.1 | 8.6 | 9.6 | 5.9 | 17.8 | 27.2 | 16.7 | 40 | 65.7 | 132.5 | 72.9 | 14.7 | 44.9 | 56.6 | 37 | | | | | | | | | | | | | | | | | | | | |
| 2 | CMH-10-473 | 8329 | 7 | 5983 | 10 | 10844 | 3 | 8386 | 8 | - | - | 18 | - | - | - | 38.2 | 1.5 | 28.2 | 0.6 | 152.8 | 50.4 | 5 | - | 70.2 | 19.2 | | | | | | | | | | | | | | | | | | | | |
| 3 | EHL-2211 | 9057 | 3 | 9930 | 3 | 8878 | 8 | 9288 | 5 | 3.1 | 18 | - | 5.6 | 5.5 | 18.8 | 13.2 | 12.4 | 39.5 | 67 | 106.9 | 66.6 | 14.2 | 46 | 39.3 | 32 | | | | | | | | | | | | | | | | | | | | |
| 4 | IJ8533 | 8565 | 6 | 11056 | 1 | 11343 | 1 | 10321 | 1 | - | 31.4 | 23.4 | 17.3 | - | 32.3 | 44.6 | 24.9 | 31.9 | 86 | 164.4 | 85.1 | 8 | 62.6 | 78 | 46.7 | | | | | | | | | | | | | | | | | | | | |
| 5 | X35B403 | 9842 | 1 | 9999 | 2 | 9462 | 6 | 9768 | 2 | 12 | 18.8 | 3 | 11 | 14.6 | 19.6 | 20.6 | 18.2 | 51.5 | 68.2 | 120.6 | 75.2 | 24.1 | 47 | 48.5 | 38.9 | | | | | | | | | | | | | | | | | | | | |
| 6 | Bio-719 | 7396 | 10 | 9313 | 5 | 10464 | 4 | 9058 | 6 | - | 10.7 | 13.9 | 3 | - | 11.4 | 33.4 | 9.6 | 13.9 | 56.7 | 143.9 | 62.4 | - | 37 | 64.2 | 28.8 | | | | | | | | | | | | | | | | | | | | |
| 7 | S-6790 | 7968 | 8 | 9203 | 6 | 11263 | 2 | 9478 | 4 | - | 9.4 | 22.6 | 7.7 | - | 10.1 | 43.6 | 14.7 | 22.7 | 54.8 | 162.5 | 70 | 0.5 | 35.3 | 76.8 | 34.7 | | | | | | | | | | | | | | | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | PMH-4 | 8789 | 4 | 8414 | 7 | 9189 | 7 | 8797 | 7 | - | - | - | - | 2.3 | 0.7 | 17.1 | 6.5 | 35.3 | 41.5 | 114.2 | 57.8 | 10.8 | 23.7 | 44.2 | 25.1 | | | | | | | | | | | | | | | | | | | | |
| 9 | BIO-9637 | 8588 | 5 | 8359 | 8 | 7844 | 9 | 8264 | 9 | - | - | - | - | - | - | - | - | 32.2 | 40.6 | 82.9 | 48.2 | 8.3 | 22.9 | 23.1 | 17.5 | | | | | | | | | | | | | | | | | | | | |
| 10 | HM-12 | 6495 | 11 | 5945 | 11 | 4290 | 11 | 5577 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | |
| 11 | HM-8 | 7931 | 9 | 6800 | 9 | 6372 | 10 | 7035 | 10 | - | - | - | - | - | - | - | - | 22.1 | 14.4 | 48.5 | 26.1 | - | - | - | - | | | | | | | | | | | | | | | | | | | | |
| Location Mean | | 8369 | | 8623 | | 9084 | | 8692 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 973 | | 1541 | | 2078 | | 1531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 6.81 | | 10.46 | | 13.39 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 12 | | 10.92 | | 12 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 28-06 | | 21-06 | | 4-08 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 10-08 | | 9-10 | | 22-11 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | 5 | | 5 | | 1 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 150 | | 125 | | 120 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 60 | | 60 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 60 | | 30 | | 40 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Table No. 11 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | MOISTURE % AT HARVEST | | | | DAYS TO 50% POLLEN SHED | | | | DAYS TO 50% SILKING | | | |
|--------|------------------|----------------------|-------------|-------------|------------------|-----------------------|--------------|--------------|----------------|-------------------------|--------------|--------------|----------------------------|---------------------|-------------|-------------|-------------|
| | | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean |
| 1 | Rasi-3033 | 67.2 | 84.8 | 87.5 | 79.8 | 22.3 | 26.0 | 29.5 | 25.9 | 52.7 | 50.0 | 52.7 | 51.8 | 54.7 | 51.3 | 55.7 | 53.9 |
| 2 | CMH-10-473 | 67.0 | 75.0 | 79.7 | 73.9 | 26.0 | 29.7 | 29.6 | 28.4 | 53.3 | 56.7 | 53.0 | 54.3 | 55.3 | 58.7 | 56.0 | 56.7 |
| 3 | EHL-2211 | 67.1 | 80.9 | 85.8 | 77.9 | 22.4 | 24.4 | 28.2 | 25.0 | 50.3 | 49.0 | 49.7 | 49.7 | 52.3 | 50.0 | 52.3 | 51.6 |
| 4 | IJ8533 | 66.4 | 84.4 | 82.6 | 77.8 | 24.0 | 27.5 | 27.0 | 26.2 | 52.3 | 50.0 | 52.3 | 51.6 | 54.3 | 51.0 | 55.7 | 53.7 |
| 5 | X35B403 | 66.1 | 85.5 | 84.8 | 78.8 | 21.2 | 23.8 | 27.4 | 24.1 | 51.7 | 49.7 | 50.3 | 50.6 | 53.7 | 49.7 | 53.3 | 52.2 |
| 6 | Bio-719 | 64.5 | 84.6 | 84.4 | 77.8 | 24.0 | 27.1 | 27.3 | 26.1 | 52.3 | 53.0 | 50.7 | 52.0 | 54.3 | 53.7 | 53.7 | 53.9 |
| 7 | S-6790 | 68.4 | 80.8 | 83.4 | 77.5 | 24.3 | 29.6 | 28.3 | 27.4 | 50.3 | 52.3 | 51.3 | 51.3 | 53.0 | 53.3 | 54.3 | 53.6 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 8 | PMH-4 | 66.8 | 87.1 | 83.4 | 79.1 | 22.0 | 23.6 | 25.4 | 23.7 | 49.0 | 47.0 | 48.0 | 48.0 | 51.3 | 48.7 | 50.7 | 50.2 |
| 9 | BIO-9637 | 66.3 | 83.7 | 83.9 | 77.9 | 26.1 | 23.8 | 26.9 | 25.6 | 52.7 | 48.3 | 50.7 | 50.6 | 55.0 | 49.3 | 53.3 | 52.6 |
| 10 | HM-12 | 65.8 | 83.7 | 79.6 | 76.4 | 24.0 | 27.3 | 25.5 | 25.6 | 52.7 | 49.7 | 51.0 | 51.1 | 54.7 | 50.7 | 53.7 | 53.0 |
| 11 | HM-8 | 65.1 | 81.2 | 86.8 | 77.7 | 21.0 | 23.3 | 29.1 | 24.4 | 50.7 | 48.7 | 51.0 | 50.1 | 52.7 | 49.7 | 54.0 | 52.1 |
| | Loc. Mean | 66.4 | 82.9 | 83.8 | 77.7 | 23.4 | 26.0 | 27.6 | 25.7 | 51.6 | 50.4 | 51.0 | 51.0 | 53.8 | 51.5 | 53.9 | 53.0 |
| | C.D. (5%) | 0.92 | 1.54 | 3.30 | 4.01 | 1.04 | 1.11 | 2.57 | 2.69 | 1.11 | 1.18 | 1.57 | 2.25 | 1.19 | 0.89 | 1.56 | 2.44 |
| | C.V. (%) | 0.81 | 1.09 | 2.31 | 3.03 | 2.61 | 2.50 | 5.45 | 6.16 | 1.26 | 1.37 | 1.81 | 2.60 | 1.30 | 1.01 | 1.70 | 2.70 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| S.No. | PEDIGREE | DAYS TO 75% DRY HUSK | | | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | | STAND AT HARVEST ('000/ha) | | | | |
| | | KARN | LUDH | Mean | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean | |
| 1 | Rasi-3033 | 83.7 | 85.0 | 84.3 | 181.7 | 241.7 | 249.7 | 224.3 | 105.0 | 120.0 | 109.7 | 111.6 | 60.0 | 66.8 | 54.2 | 60.3 | |
| 2 | CMH-10-473 | 85.7 | 94.0 | 89.8 | 255.0 | 268.3 | 294.3 | 272.6 | 136.7 | 143.3 | 141.3 | 140.4 | 63.3 | 67.5 | 54.2 | 61.7 | |
| 3 | EHL-2211 | 83.3 | 82.7 | 83.0 | 228.3 | 266.7 | 299.7 | 264.9 | 135.0 | 155.0 | 146.7 | 145.6 | 64.2 | 65.6 | 53.6 | 61.1 | |
| 4 | IJ8533 | 85.0 | 91.3 | 88.2 | 131.7 | 266.7 | 295.0 | 231.1 | 131.7 | 141.7 | 139.0 | 137.4 | 62.5 | 63.8 | 57.2 | 61.2 | |
| 5 | X35B403 | 84.7 | 81.7 | 83.2 | 205.0 | 259.7 | 283.7 | 249.4 | 106.7 | 133.3 | 123.0 | 121.0 | 62.5 | 74.5 | 55.6 | 64.2 | |
| 6 | Bio-719 | 87.0 | 94.0 | 90.5 | 221.7 | 256.7 | 278.0 | 252.1 | 120.0 | 130.0 | 138.3 | 129.4 | 60.8 | 62.6 | 54.7 | 59.4 | |
| 7 | S-6790 | 87.0 | 94.7 | 90.8 | 208.3 | 246.7 | 268.7 | 241.2 | 85.0 | 125.0 | 126.7 | 112.2 | 63.3 | 74.2 | 54.7 | 64.1 | |
| CHECKS | | | | | | | | | | | | | | | | | |
| 8 | PMH-4 | 84.3 | 79.0 | 81.7 | 193.3 | 221.7 | 257.0 | 224.0 | 93.3 | 118.3 | 120.7 | 110.8 | 63.3 | 72.6 | 48.3 | 61.4 | |
| 9 | BIO-9637 | 87.7 | 79.3 | 83.5 | 200.0 | 248.3 | 279.0 | 242.4 | 93.3 | 121.7 | 128.3 | 114.4 | 61.7 | 64.4 | 50.0 | 58.7 | |
| 10 | HM-12 | 85.0 | 84.7 | 84.8 | 175.0 | 223.3 | 259.7 | 219.3 | 83.3 | 115.0 | 115.3 | 104.6 | 61.7 | 49.5 | 47.8 | 53.0 | |
| 11 | HM-8 | 86.7 | 80.3 | 83.5 | 176.7 | 233.3 | 249.0 | 219.7 | 83.3 | 126.7 | 113.3 | 107.8 | 61.7 | 68.1 | 57.8 | 62.5 | |
| | Loc. Mean | 85.5 | 86.1 | 85.8 | 197.9 | 248.5 | 274.0 | 240.1 | 106.7 | 130.0 | 127.5 | 121.4 | 62.3 | 66.3 | 53.5 | 60.7 | |
| | C.D. (5%) | 1.59 | 1.93 | 9.49 | 42.43 | 16.69 | 12.67 | 31.40 | 6.51 | 14.20 | 11.98 | 13.42 | - | 7.02 | 6.61 | 6.88 | |
| | C.V. (%) | 1.09 | 1.32 | 4.97 | 12.59 | 3.94 | 2.71 | 7.68 | 3.58 | 6.41 | 5.52 | 6.49 | - | 6.22 | 7.26 | 6.66 | |
| | F (Prob) | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.06 | 0.14 | |

TABLE No. 12: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, RANCHI, VARANASI IN AVT2 TRIAL No. TR70Z3 (AVT2-M-Z3) DURING KHARIF (2013)

| SI No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | | | | | | | |
|-------|-------------------------------------|-------------|--------|-------------|--------|--------------|------------------------------------|-------------|--------|-------------|--------|-------------|------|------|----------|-----|------|------|-------|------|------|------|------|------|------|
| | BAHR R | | BHUB R | | DHOL R | | RANC R | | VARA R | | MEAN R | | ZN 3 | | BIO-9637 | | ZN 3 | | HM-12 | | ZN 3 | | | | |
| 1 | X35A189 | 8256 | 1 | 6420 | 3 | 4628 | 6 | 10012 | 1 | 8012 | 1 | 8175 | 1 | 32.6 | - | - | 11.8 | 44.1 | 19.2 | 25 | 11.7 | - | 29.7 | 57.6 | 30 |
| 2 | BIO9637(Filler) | 7389 | 3 | 5676 | 6 | 5922 | 3 | 9057 | 3 | 6211 | 3 | 7083 | 3 | 18.6 | - | - | 1.1 | 11.7 | 3.2 | 11.9 | - | 10.6 | 17.3 | 22.2 | 12.7 |
| 3 | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BIO-9637 | 6228 | 5 | 6700 | 1 | 6727 | 2 | 8954 | 4 | 5560 | 5 | 6861 | 4 | - | - | - | - | - | - | - | 16.6 | 25.7 | 16 | 9.4 | 9.1 |
| 4 | HM-12 | 6602 | 4 | 5745 | 5 | 5352 | 4 | 7720 | 5 | 5083 | 6 | 6288 | 5 | 6 | - | - | - | - | - | - | - | - | - | - | - |
| 5 | HM-8 | 5920 | 6 | 5990 | 4 | 5019 | 5 | 7473 | 6 | 5746 | 4 | 6282 | 6 | - | - | - | 3.3 | - | - | - | 4.3 | - | - | 13 | - |
| 6 | PMH-4 | 7604 | 2 | 6530 | 2 | 7102 | 1 | 9175 | 2 | 7663 | 2 | 7743 | 2 | 22.1 | - | 5.6 | 2.5 | 37.8 | 12.9 | 15.2 | 13.7 | 32.7 | 18.9 | 50.8 | 23.2 |
| | Location Mean | 7000 | | 6177 | | 5792 | | 8732 | | 6379 | | 7072 | | | | | | | | | | | | | |
| | C.D. (5%) | 1089 | | 270 | | 1805 | | 2046 | | 394 | | 950 | | | | | | | | | | | | | |
| | C.V. (%) | 10.26 | | 2.88 | | 20.55 | | 12.68 | | 4.08 | | - | | | | | | | | | | | | | |
| | F (Prob) | 0.003 | | 0 | | 0.448 | | 0.054 | | 0 | | - | | | | | | | | | | | | | |
| | Plot Size | 14.4 | | 14.4 | | 14.4 | | 9.6 | | 14.4 | | - | | | | | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 2-07 | | 21-06 | | 5-07 | | 9-07 | | 19-06 | | - | | | | | | | | | | | | | |
| | Harvest Date | 3-10 | | 28-09 | | 18-10 | | 22-10 | | 28-09 | | - | | | | | | | | | | | | | |
| | Irrigation Nos | 4 | | - | | - | | - | | - | | - | | | | | | | | | | | | | |
| | Fertilizer Applied N | 120 | | 120 | | 120 | | 120 | | 120 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | 60 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied K | 40 | | 60 | | 40 | | 40 | | 40 | | - | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 20.6 %

BR190

TABLE No. 12 (Cont.)

| SI | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | GRAIN SHELLING % | | | | | MOISTURE % AT HARVEST | | | | | STAND AT HARVEST ('000/ha) | | | | | | | | |
|------------------|------------------------------------|--|------|------|------|------|-------|------|------|------|------|------|------------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------|--|
| | HM-8 | | | ZN 3 | | | PMH-4 | | | ZN 3 | | | ZN 3 | | ZN 3 | | ZN 3 | | | BAHR | | BHUB | | DHOL | | RANC | | VARA | | MEAN | |
| No | PEDIGREE | BAHR | BHUB | DHOL | RANC | VARA | MEAN | BAHR | BHUB | DHOL | RANC | VARA | MEAN | BAHR | BHUB | RANC | VARA | Mean | BAHR | BHUB | RANC | VARA | Mean | BAHR | BHUB | DHOL | RANC | VARA | Mean | | |
| 1 | X35A189 | 39.5 | 7.2 | - | 34 | 39.4 | 30.1 | 8.6 | - | - | 9.1 | 4.6 | 5.6 | 79.4 | 79.9 | 85.4 | 81.0 | 81.4 | 24.2 | 17.1 | 21.3 | 31.2 | 23.4 | 67.0 | 66.3 | 72.9 | 70.8 | 68.1 | 69.0 | | |
| 2 | BIO9637(Filler) | 24.8 | - | 18 | 21.2 | 8.1 | 12.8 | - | - | - | - | - | - | 79.6 | 76.9 | 84.7 | 74.8 | 79.0 | 24.0 | 17.8 | 21.4 | 29.5 | 23.2 | 67.9 | 65.3 | 78.8 | 71.2 | 63.9 | 69.4 | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BIO-9637 | 5.2 | 11.9 | 34 | 19.8 | - | 9.2 | - | 2.6 | - | - | - | - | 73.5 | 80.1 | 85.0 | 72.0 | 77.6 | 23.9 | 17.1 | 23.7 | 26.3 | 22.7 | 68.4 | 66.3 | 78.5 | 68.8 | 63.7 | 69.1 | | |
| 4 | HM-12 | 11.5 | - | 6.6 | 3.3 | - | 0.1 | - | - | - | - | - | - | 76.5 | 78.8 | 84.2 | 78.5 | 79.5 | 23.2 | 17.0 | 24.7 | 31.5 | 24.1 | 66.7 | 61.8 | 75.5 | 74.7 | 59.7 | 67.7 | | |
| 5 | HM-8 | - | - | - | - | - | - | - | - | - | - | - | - | 73.4 | 79.5 | 87.3 | 75.8 | 79.0 | 22.1 | 16.8 | 21.7 | 28.2 | 22.2 | 68.4 | 63.5 | 67.2 | 79.9 | 63.7 | 68.5 | | |
| 6 | PMH-4 | 28.5 | 9 | 41.5 | 22.8 | 33.4 | 23.3 | - | - | - | - | - | - | 80.2 | 80.0 | 86.1 | 79.0 | 81.3 | 23.9 | 16.8 | 20.7 | 27.1 | 22.1 | 67.4 | 67.4 | 79.7 | 72.6 | 67.0 | 70.8 | | |
| Loc. Mean | | LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 20.6 % | | | | | | | | | | | | 77.1 | 79.2 | 85.5 | 76.8 | 79.6 | 23.5 | 17.1 | 22.2 | 29.0 | 22.9 | 67.6 | 65.1 | 75.4 | 73.0 | 64.4 | 69.1 | | |
| C.D. (5%) | | | | | | | | | | | | | | 1.52 | 0.29 | 4.86 | 1.37 | 3.31 | 0.85 | 0.16 | 0.46 | 0.79 | 2.02 | 4.18 | 2.65 | 6.88 | 11.32 | 3.06 | 4.47 | | |
| C.V. (%) | | | | | | | | | | | | | | 1.31 | 0.25 | 3.13 | 1.18 | 2.76 | 2.41 | 0.62 | 1.14 | 1.80 | 5.84 | 4.10 | 2.70 | 6.05 | 8.52 | 3.15 | 4.91 | | |
| F (Prob) | | | | | | | | | | | | | | 0.00 | 0.00 | 0.76 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.92 | 0.00 | 0.01 | 0.38 | 0.00 | 0.80 | | |

| S.No | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | | | PLANT HEIGHT(cm) | | | | | | EAR HEIGHT(cm) | | | | | | | | | |
|------------------|-----------------|-------------------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|--------------|----------------|-------------|--------------|-------------|-------------|-------------|------|--|------|--|
| | | BAHR | | BHUB | | DHOL | | RANC | | VARA | | Mean | | BAHR | | BHUB | | DHOL | | RANC | | VARA | | Mean | | BAHR | | BHUB | | DHOL | | RANC | | VARA | |
| 1 | X35A189 | 51.0 | 47.5 | 52.0 | 50.0 | 53.8 | 50.9 | 53.0 | 49.3 | 53.5 | 53.0 | 59.0 | 53.6 | 85.0 | 85.3 | 83.0 | 94.0 | 92.3 | 87.9 | 173.1 | 184.3 | 166.9 | 196.1 | 180.5 | 180.2 | 69.1 | 76.2 | 98.0 | 77.4 | 65.5 | 77.2 | | | | |
| 2 | BIO9637(Filler) | 50.5 | 48.3 | 53.3 | 50.7 | 55.8 | 51.7 | 52.5 | 50.5 | 54.5 | 53.7 | 60.8 | 54.4 | 82.0 | 88.3 | 84.5 | 94.7 | 93.8 | 88.6 | 203.0 | 184.4 | 212.5 | 193.6 | 209.0 | 200.5 | 94.4 | 74.6 | 113.4 | 84.5 | 87.5 | 90.9 | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BIO-9637 | 53.0 | 49.0 | 53.5 | 51.0 | 58.0 | 52.9 | 55.0 | 51.0 | 54.8 | 53.0 | 62.8 | 55.3 | 83.5 | 89.8 | 85.0 | 94.3 | 94.5 | 89.4 | 200.6 | 198.4 | 203.0 | 211.0 | 215.0 | 205.6 | 95.5 | 86.9 | 119.5 | 85.4 | 105.0 | 98.5 | | | | |
| 4 | HM-12 | 54.0 | 51.0 | 53.8 | 52.0 | 61.5 | 54.5 | 55.8 | 52.8 | 55.5 | 53.0 | 65.5 | 56.5 | 88.3 | 90.3 | 85.5 | 94.3 | 97.5 | 91.2 | 168.8 | 180.1 | 188.3 | 190.6 | 167.5 | 179.0 | 76.2 | 82.0 | 99.6 | 94.0 | 80.0 | 86.4 | | | | |
| 5 | HM-8 | 53.8 | 48.8 | 53.8 | 51.3 | 56.0 | 52.7 | 55.8 | 51.3 | 55.3 | 50.7 | 61.0 | 54.8 | 81.3 | 88.8 | 83.5 | 93.7 | 93.8 | 88.2 | 179.2 | 166.3 | 184.3 | 186.2 | 163.0 | 175.8 | 80.4 | 73.9 | 108.1 | 91.1 | 72.5 | 85.2 | | | | |
| 6 | PMH-4 | 53.5 | 47.3 | 51.5 | 48.7 | 53.0 | 50.8 | 55.5 | 48.5 | 52.8 | 51.7 | 59.5 | 53.6 | 83.8 | 85.8 | 83.0 | 94.3 | 92.5 | 87.9 | 179.7 | 174.1 | 189.3 | 192.7 | 175.0 | 182.2 | 76.9 | 82.7 | 106.0 | 92.7 | 76.5 | 86.9 | | | | |
| Loc. Mean | | 52.6 | 48.6 | 53.0 | 50.6 | 56.3 | 52.2 | 54.6 | 50.5 | 54.4 | 52.5 | 61.4 | 54.7 | 84.0 | 88.0 | 84.1 | 94.2 | 94.0 | 88.9 | 184.0 | 181.3 | 190.7 | 195.0 | 185.0 | 187.2 | 82.1 | 79.4 | 107.4 | 87.5 | 81.2 | 87.5 | | | | |
| C.D. (5%) | | 2.34 | 0.69 | 0.94 | 1.98 | 1.56 | 1.61 | 2.48 | 1.24 | 1.24 | 1.00 | 1.64 | 1.64 | 4.00 | 1.46 | 1.94 | 2.29 | 1.98 | 1.78 | 18.04 | 6.85 | 34.09 | 23.87 | 5.13 | 12.07 | 7.91 | 7.51 | 13.97 | 9.96 | 3.73 | 9.17 | | | | |
| C.V. (%) | | 2.96 | 0.94 | 1.17 | 2.15 | 1.84 | 2.34 | 3.02 | 1.63 | 1.51 | 1.04 | 1.77 | 2.28 | 3.16 | 1.10 | 1.53 | 1.34 | 1.39 | 1.52 | 6.50 | 2.51 | 11.86 | 6.73 | 1.84 | 4.89 | 6.39 | 6.28 | 8.63 | 6.26 | 3.05 | 7.94 | | | | |
| F (Prob) | | 0.02 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.06 | 0.94 | 0.00 | 0.01 | 0.00 | 0.00 | 0.15 | 0.35 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.00 | 0.00 | | | | |

TABLE No. 13: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI IN AVT1 TRIAL No. TR66 Z4 (AVT1-M-Z4) & AVT2 TR70Z4 (AVT2-M-Z4) DURING KHARIF (2013)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PMH-4 | | | | | | | | | | | | |
|----------------------|----------|-------------------------------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|------|-------------|--|-------------|------|-------------|------|------|-----|------|------|------|------|------|------|
| | | ARBH R | COIM R | HYDE R | KARI R | KOLH R | MAND R | VAGA R | MEAN R | ZN 4 | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | | | | | | | |
| 1 | EHL-2211 | 11229 | 4 | 9611 | 3 | 7073 | 7 | 10756 | 1 | 7332 | 4 | 8916 | 5 | 4230 | 4 | 8450 | 4 | 0.1 | 1.6 | - | 28.7 | 9.6 | - | 10.6 | 3.5 |
| 2 | X35A189 | 10913 | 6 | 11533 | 1 | 9078 | 2 | 9588 | 3 | 7564 | 2 | 9751 | 2 | 5171 | 1 | 9086 | 2 | - | 22 | 8.7 | 14.7 | 13 | 5.6 | 35.2 | 11.3 |
| 3 | P3377 | 10429 | 7 | 7734 | 7 | 8564 | 3 | 6466 | 8 | 7226 | 5 | 8345 | 7 | 3783 | 8 | 7507 | 7 | - | - | 2.6 | - | 8 | - | - | - |
| 4 | PRO 383 | 15455 | 1 | 11158 | 2 | 9842 | 1 | 9925 | 2 | 7393 | 3 | 10231 | 1 | 4984 | 2 | 9856 | 1 | 37.8 | 18 | 17.9 | 18.7 | 10.5 | 10.8 | 30.3 | 20.8 |
| 5 | JH 31470 | 12467 | 2 | 8832 | 5 | 7835 | 6 | 9340 | 4 | 7667 | 1 | 8884 | 6 | 4602 | 3 | 8518 | 3 | 11.1 | - | - | 11.7 | 14.6 | - | 20.3 | 4.4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PMH-4 | 11219 | 5 | 9456 | 4 | 8351 | 5 | 8359 | 5 | 6691 | 6 | 9231 | 4 | 3826 | 7 | 8162 | 5 | - | - | - | - | - | - | - | - |
| 7 | BIO-9637 | 11252 | 3 | 7824 | 6 | 8444 | 4 | 7989 | 6 | 6451 | 7 | 9253 | 3 | 3094 | 9 | 7758 | 6 | 0.3 | - | 1.1 | - | - | 0.2 | - | - |
| 8 | HM-12 | 5255 | 9 | 6823 | 9 | 5839 | 9 | 5155 | 9 | 4396 | 9 | 7818 | 8 | 4200 | 5 | 5641 | 9 | - | - | - | - | - | - | 9.8 | - |
| 9 | HM-8 | 9527 | 8 | 7467 | 8 | 6156 | 8 | 7719 | 7 | 5761 | 8 | 7348 | 9 | 4042 | 6 | 6860 | 8 | - | - | - | - | - | - | 5.6 | - |
| Location Mean | | 10861 | | 8938 | | 7909 | | 8366 | | 6720 | | 8864 | | 4215 | | 7982 | | | | | | | | | |
| C.D. (5%) | | 1660 | | 927 | | 1145 | | 1539 | | 992 | | 564 | | 1403 | | 1176 | | | | | | | | | |
| C.V. (%) | | 8.78 | | 5.96 | | 8.32 | | 10.57 | | 8.48 | | 3.65 | | 19.12 | | - | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0.148 | | | | | | | | | | | |
| Plot Size | | 18 | | 14.4 | | 18 | | 18 | | 18 | | 14 | | 14.4 | | - | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 2-07 | | 17-07 | | 25-06 | | 3-07 | | 2-07 | | 23-07 | | 8-07 | | - | | | | | | | | | |
| Harvest Date | | 9-11 | | 3-11 | | 10-10 | | 29-10 | | 28-11 | | 12-12 | | 23-10 | | - | | | | | | | | | |
| Irrigation Nos | | 6 | | 10 | | 2 | | - | | - | | 8 | | 13 | | - | | | | | | | | | |
| Fertilizer Applied N | | 150 | | 150 | | 200 | | 200 | | 100 | | 150 | | 150 | | - | | | | | | | | | |
| Fertilizer Applied P | | 75 | | 75 | | 60 | | 60 | | 50 | | 75 | | 75 | | - | | | | | | | | | |
| Fertilizer Applied K | | 37.5 | | 75 | | 50 | | 60 | | 30 | | 40 | | 75 | | - | | | | | | | | | |

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TABLE No. 13 (Cont..)

| SI | GRAIN YIELD % SUPERIORITY OVER THE BIO-9637 | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HM-12 | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE HM-8 | | | | | | | | | | |
|----|---|----------|------|------|------|------|------|------|--|-------|------|------|-------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|
| | No | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | |
| | | | | | | | | | ZN 4 | | | | | | | | | ZN 4 | | | | | | | | | ZN 4 |
| 1 | EHL-2211 | - | 22.8 | - | 34.6 | 13.7 | - | 36.7 | 8.9 | 113.7 | 40.9 | 21.1 | 108.7 | 66.8 | 14 | 0.7 | 49.8 | 17.9 | 28.7 | 14.9 | 39.3 | 27.3 | 21.3 | 4.6 | 23.2 | | |
| 2 | X35A189 | - | 47.4 | 7.5 | 20 | 17.3 | 5.4 | 67.2 | 17.1 | 107.7 | 69 | 55.5 | 86 | 72.1 | 24.7 | 23.1 | 61.1 | 14.5 | 54.5 | 47.5 | 24.2 | 31.3 | 32.7 | 27.9 | 32.4 | | |
| 3 | P3377 | - | - | 1.4 | - | 12 | - | 22.3 | - | 98.5 | 13.3 | 46.7 | 25.4 | 64.4 | 6.7 | - | 33.1 | 9.5 | 3.6 | 39.1 | - | 25.4 | 13.6 | - | 9.4 | | |
| 4 | PRO 383 | 37.4 | 42.6 | 16.6 | 24.2 | 14.6 | 10.6 | 61.1 | 27 | 194.1 | 63.5 | 68.6 | 92.6 | 68.2 | 30.9 | 18.7 | 74.7 | 62.2 | 49.4 | 59.9 | 28.6 | 28.3 | 39.2 | 23.3 | 43.7 | | |
| 5 | JH 31470 | 10.8 | 12.9 | - | 16.9 | 18.9 | - | 48.8 | 9.8 | 137.3 | 29.4 | 34.2 | 81.2 | 74.4 | 13.6 | 9.6 | 51 | 30.9 | 18.3 | 27.3 | 21 | 33.1 | 20.9 | 13.8 | 24.2 | | |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PMH-4 | - | 20.9 | - | 4.6 | 3.7 | - | 23.7 | 5.2 | 113.5 | 38.6 | 43 | 62.2 | 52.2 | 18.1 | - | 44.7 | 17.8 | 26.6 | 35.6 | 8.3 | 16.2 | 25.6 | - | 19 | | |
| 7 | BIO-9637 | - | - | - | - | - | - | - | - | 114.1 | 14.7 | 44.6 | 55 | 46.8 | 18.4 | - | 37.5 | 18.1 | 4.8 | 37.2 | 3.5 | 12 | 25.9 | - | 13.1 | | |
| 8 | HM-12 | - | - | - | - | - | - | 35.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.4 | 3.9 | - | | |
| 9 | HM-8 | - | - | - | - | - | - | 30.7 | - | 81.3 | 9.4 | 5.4 | 49.8 | 31.1 | - | - | 21.6 | - | - | - | - | - | - | - | - | | |

| S.N | PEDIGREE | GRAIN SHELLING % | | | | | | | | MOISTURE % AT HARVEST | | | | | | | | STAND AT HARVEST ('000/ha) | | | | | | | |
|-----|------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | EHL-2211 | 85.0 | 79.8 | 77.3 | 79.6 | 85.2 | 84.2 | 78.8 | 81.4 | 24.2 | 19.8 | 27.3 | 11.2 | 11.9 | 16.7 | 18.1 | 19.7 | 62.8 | 66.4 | 60.6 | 49.1 | 62.6 | 63.3 | 53.5 | 59.7 |
| 2 | X35A189 | 85.5 | 82.9 | 76.9 | 83.4 | 87.2 | 80.5 | 83.8 | 82.9 | 21.5 | 20.3 | 26.1 | 9.2 | 12.1 | 16.6 | 19.9 | 19.4 | 60.4 | 66.7 | 64.8 | 47.2 | 65.2 | 62.9 | 51.2 | 59.8 |
| 3 | P3377 | 88.7 | 83.5 | 79.8 | 83.9 | 88.0 | 81.7 | 87.2 | 84.7 | 19.3 | 18.1 | 26.8 | 9.1 | 9.7 | 15.7 | 19.2 | 18.1 | 57.8 | 66.4 | 65.4 | 43.1 | 65.0 | 62.1 | 53.7 | 59.1 |
| 4 | PRO 383 | 85.5 | 77.7 | 74.8 | 79.2 | 86.2 | 81.5 | 82.4 | 81.0 | 24.1 | 20.1 | 26.8 | 9.5 | 11.6 | 16.0 | 18.2 | 19.4 | 59.4 | 66.0 | 54.3 | 49.6 | 63.1 | 63.6 | 52.1 | 58.3 |
| 5 | JH 31470 | 84.5 | 80.0 | 78.9 | 79.8 | 88.2 | 80.8 | 77.3 | 81.3 | 23.3 | 20.1 | 24.3 | 7.8 | 11.0 | 15.9 | 17.3 | 18.6 | 57.2 | 66.0 | 58.0 | 53.9 | 66.3 | 65.2 | 53.0 | 59.9 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PMH-4 | 87.9 | 82.2 | 80.8 | 84.2 | 87.7 | 82.8 | 82.7 | 84.0 | 20.8 | 19.5 | 27.5 | 13.4 | 11.1 | 15.2 | 18.4 | 18.7 | 61.3 | 66.2 | 65.4 | 55.0 | 65.6 | 66.2 | 50.5 | 61.4 |
| 7 | BIO-9637 | 85.4 | 82.7 | 78.5 | 81.5 | 85.9 | 80.6 | 81.4 | 82.3 | 22.5 | 19.7 | 19.9 | 7.7 | 11.9 | 17.5 | 17.6 | 18.2 | 59.8 | 65.7 | 62.6 | 45.6 | 63.3 | 64.0 | 52.8 | 59.1 |
| 8 | HM-12 | 83.3 | 79.8 | 78.2 | 81.0 | 86.2 | 79.3 | 76.5 | 80.6 | 21.2 | 20.5 | 28.3 | 12.6 | 11.0 | 15.7 | 18.8 | 19.2 | 35.9 | 66.4 | 53.0 | 35.7 | 59.4 | 62.1 | 38.4 | 50.2 |
| 9 | HM-8 | 82.7 | 80.0 | 73.6 | 79.4 | 85.2 | 82.9 | 82.5 | 80.9 | 23.7 | 18.1 | 26.4 | 9.6 | 13.4 | 16.6 | 17.3 | 19.2 | 53.0 | 66.2 | 57.6 | 35.6 | 64.8 | 63.8 | 51.2 | 56.0 |
| | Loc. Mean | 85.4 | 80.9 | 77.6 | 81.3 | 86.7 | 81.6 | 81.4 | 82.1 | 22.3 | 19.6 | 25.9 | 10.0 | 11.5 | 16.2 | 18.3 | 19.0 | 56.4 | 66.2 | 60.2 | 46.1 | 63.9 | 63.7 | 50.7 | 58.2 |
| | C.D. (5%) | 1.08 | 0.90 | 1.29 | 4.48 | 0.46 | 2.92 | 4.58 | 1.81 | 1.51 | 0.86 | 1.23 | 3.93 | 1.53 | 0.75 | 1.47 | 1.67 | 7.11 | 0.60 | 6.36 | 9.74 | 3.74 | 3.50 | 7.33 | 4.13 |
| | C.V. (%) | 0.73 | 0.64 | 0.96 | 3.19 | 0.30 | 2.07 | 3.25 | 2.06 | 3.92 | 2.55 | 2.75 | 22.67 | 7.68 | 2.67 | 4.63 | 7.54 | 7.28 | 0.52 | 6.11 | 12.21 | 3.38 | 3.18 | 8.36 | 6.60 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.01 | 0.00 | 0.02 | 0.50 | 0.00 | 0.09 | 0.00 | 0.00 | 0.04 | 0.30 | 0.01 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 22.7%

Table No. 13 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | DAYS TO 50% SILKING | | | | | | | DAYS TO 75% DRY HUSK | | | | | | | | | |
|------------------|------------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 Mean |
| 1 | EHL-2211 | 61.3 | 52.0 | 57.3 | 56.3 | 66.0 | 52.3 | 53.3 | 57.0 | 61.3 | 54.0 | 59.7 | 58.7 | 67.0 | 54.3 | 55.7 | 58.7 | 102.3 | 94.0 | 93.0 | 93.7 | 106.0 | 89.0 | 103.7 | 97.4 |
| 2 | X35A189 | 62.0 | 53.3 | 56.3 | 54.0 | 64.0 | 52.0 | 51.3 | 56.1 | 63.0 | 55.7 | 58.7 | 56.3 | 65.0 | 54.0 | 55.0 | 58.2 | 103.3 | 95.7 | 90.0 | 91.3 | 103.0 | 93.3 | 101.0 | 96.8 |
| 3 | P3377 | 63.0 | 48.7 | 55.0 | 56.7 | 66.0 | 52.3 | 54.7 | 56.6 | 62.3 | 51.0 | 56.0 | 59.0 | 67.0 | 54.3 | 57.3 | 58.1 | 104.3 | 90.7 | 97.0 | 94.0 | 106.0 | 92.0 | 102.0 | 98.0 |
| 4 | PRO 383 | 61.7 | 52.3 | 57.3 | 57.0 | 65.7 | 53.0 | 55.3 | 57.5 | 61.7 | 55.3 | 60.3 | 60.0 | 66.7 | 55.0 | 59.7 | 59.8 | 107.7 | 95.7 | 102.0 | 95.0 | 105.7 | 98.0 | 104.3 | 101.2 |
| 5 | JH 31470 | 64.3 | 52.7 | 56.7 | 56.7 | 64.7 | 51.7 | 55.7 | 57.5 | 62.0 | 54.7 | 57.7 | 59.3 | 65.7 | 53.7 | 58.3 | 58.8 | 102.3 | 94.7 | 95.0 | 94.3 | 104.3 | 89.0 | 100.3 | 97.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PMH-4 | 61.3 | 52.3 | 53.7 | 56.7 | 64.7 | 49.3 | 52.0 | 55.7 | 61.7 | 54.3 | 54.7 | 59.3 | 65.7 | 51.3 | 56.3 | 57.6 | 101.7 | 94.3 | 93.7 | 94.3 | 104.3 | 92.7 | 104.3 | 97.9 |
| 7 | BIO-9637 | 62.7 | 52.0 | 56.3 | 56.7 | 64.7 | 51.0 | 52.3 | 56.5 | 62.7 | 54.0 | 58.7 | 59.0 | 65.7 | 53.0 | 56.3 | 58.5 | 102.3 | 94.3 | 92.3 | 94.0 | 104.3 | 91.0 | 100.3 | 97.0 |
| 8 | HM-12 | 64.3 | 54.7 | 60.7 | 56.7 | 69.7 | 53.3 | 54.3 | 59.1 | 65.0 | 57.7 | 61.3 | 59.3 | 70.7 | 55.7 | 56.7 | 60.9 | 101.3 | 98.0 | 88.3 | 94.3 | 110.0 | 94.3 | 105.0 | 98.8 |
| 9 | HM-8 | 61.7 | 52.0 | 58.0 | 57.0 | 66.0 | 52.0 | 54.7 | 57.3 | 62.7 | 55.0 | 59.7 | 60.0 | 67.0 | 54.0 | 57.0 | 59.3 | 102.3 | 95.0 | 94.0 | 95.0 | 106.0 | 92.7 | 104.7 | 98.5 |
| | Loc. Mean | 62.5 | 52.2 | 56.8 | 56.4 | 65.7 | 51.9 | 53.7 | 57.0 | 62.5 | 54.6 | 58.5 | 59.0 | 66.7 | 53.9 | 56.9 | 58.9 | 103.1 | 94.7 | 93.9 | 94.0 | 105.5 | 92.4 | 102.9 | 98.1 |
| | C.D. (5%) | 1.95 | 1.10 | 2.38 | 1.15 | 3.17 | 2.23 | 2.03 | 1.27 | 1.22 | 1.32 | 2.26 | 1.61 | 3.17 | 2.27 | 2.61 | 1.34 | 2.37 | 1.20 | 2.85 | 1.61 | 3.54 | 2.20 | 1.91 | 2.28 |
| | C.V. (%) | 1.81 | 1.22 | 2.42 | 1.18 | 2.79 | 2.49 | 2.18 | 2.08 | 1.13 | 1.39 | 2.23 | 1.57 | 2.75 | 2.43 | 2.65 | 2.11 | 1.33 | 0.73 | 1.76 | 0.99 | 1.94 | 1.37 | 1.07 | 2.16 |
| | F (Prob) | 0.02 | 0.00 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.01 |
| PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | EAR HEIGHT(cm) | | | | | | | | | | | | | | | | |
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 Mean | | | | | | | | |
| 1 | EHL-2211 | 211.5 | 214.5 | 212.7 | 220.0 | 191.7 | 246.7 | 161.1 | 208.3 | 110.0 | 114.5 | 85.7 | 80.7 | 48.3 | 122.0 | 78.5 | 91.4 | | | | | | | | |
| 2 | X35A189 | 173.0 | 196.5 | 205.3 | 185.7 | 175.0 | 225.0 | 141.3 | 186.0 | 64.0 | 84.4 | 76.0 | 55.7 | 45.0 | 115.3 | 54.6 | 70.7 | | | | | | | | |
| 3 | P3377 | 196.5 | 196.9 | 211.0 | 167.7 | 198.3 | 242.0 | 141.2 | 193.4 | 90.5 | 93.7 | 83.7 | 53.7 | 66.7 | 129.7 | 68.9 | 83.8 | | | | | | | | |
| 4 | PRO 383 | 183.0 | 191.5 | 209.0 | 185.0 | 183.3 | 222.7 | 141.9 | 188.1 | 87.5 | 92.3 | 83.7 | 56.0 | 55.0 | 114.0 | 67.6 | 79.4 | | | | | | | | |
| 5 | JH 31470 | 203.0 | 201.7 | 213.7 | 200.3 | 193.3 | 239.3 | 158.1 | 201.4 | 105.5 | 117.2 | 91.0 | 76.7 | 58.3 | 130.7 | 85.7 | 95.0 | | | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PMH-4 | 181.5 | 179.1 | 200.7 | 183.3 | 180.0 | 214.0 | 140.9 | 182.8 | 92.5 | 87.7 | 77.0 | 67.0 | 46.7 | 108.7 | 65.5 | 77.9 | | | | | | | | |
| 7 | BIO-9637 | 209.0 | 201.9 | 201.3 | 220.0 | 208.3 | 232.3 | 154.3 | 203.9 | 103.0 | 107.2 | 79.3 | 74.0 | 55.0 | 130.7 | 75.5 | 89.2 | | | | | | | | |
| 8 | HM-12 | 167.0 | 177.6 | 186.7 | 171.3 | 175.0 | 220.0 | 128.5 | 175.2 | 80.0 | 97.7 | 70.0 | 51.7 | 50.0 | 115.7 | 59.9 | 75.0 | | | | | | | | |
| 9 | HM-8 | 166.5 | 198.6 | 196.0 | 145.3 | 173.3 | 221.7 | 129.3 | 175.8 | 88.0 | 107.2 | 73.7 | 46.7 | 45.0 | 116.7 | 63.5 | 77.2 | | | | | | | | |
| | Loc. Mean | 187.9 | 195.4 | 204.0 | 186.5 | 186.5 | 229.3 | 144.1 | 190.5 | 91.2 | 100.2 | 80.0 | 62.4 | 52.2 | 120.4 | 68.9 | 82.2 | | | | | | | | |
| | C.D. (5%) | 9.95 | 14.53 | 12.46 | 16.60 | 20.44 | 15.64 | 18.13 | 9.89 | 8.15 | 13.56 | 9.45 | 12.50 | 8.83 | 15.13 | 11.83 | 7.30 | | | | | | | | |
| | C.V. (%) | 3.06 | 4.30 | 3.53 | 5.14 | 6.33 | 3.94 | 7.27 | 4.83 | 5.16 | 7.82 | 6.83 | 11.56 | 9.77 | 7.26 | 9.92 | 8.26 | | | | | | | | |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | | | | | | | | |

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TABLE No. 14: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, BHILODA, UDAIPUR IN AVT1 TRIAL No. TR66Z5 (AVT1-M-Z5) & AVT2 TRIAL No. TR70Z5 (AVT2-M-Z5) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | |
|-------|----------------------|-------------------------------------|--------|-------------|--------|-------------|--------|--------------|------------------------------------|-------------|------|-------------|------|------|------------------------------------|------|------|------|------|------|-----|------|-------|------|------|
| | | ZN 5 | | | | | | | PMH-4 | | | ZN 5 | | | BIO-9637 | | | | | ZN 5 | | | | | |
| | | AMBI R | BANS R | BHIL R | CHHI R | UDAI R | MEAN R | | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | AMBI | BANS | BHIL | CHHI | UDAI | MEAN | | | | | |
| 1 | IJ8533 | 10501 | 1 | 3859 | 4 | 11344 | 1 | 4766 | 1 | 6669 | 2 | 8093 | 1 | 26 | - | 40.9 | 55.1 | 7 | 15.1 | 53.7 | - | 72.5 | 118.6 | 6.1 | 31.5 |
| 2 | EH-1974 | 6317 | 4 | 5160 | 2 | 6303 | 5 | 2396 | 3 | 7407 | 1 | 6297 | 3 | - | - | - | - | 18.9 | - | - | 4.7 | - | 9.9 | 17.8 | 2.3 |
| 3 | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | PMH-4 | 8332 | 2 | 5515 | 1 | 8049 | 2 | 3073 | 2 | 6230 | 4 | 7031 | 2 | - | - | - | - | - | - | 22 | 12 | 22.4 | 41 | - | 14.2 |
| 4 | BIO-9637 | 6831 | 3 | 4926 | 3 | 6577 | 3 | 2180 | 5 | 6288 | 3 | 6155 | 4 | - | - | - | - | 0.9 | - | - | - | - | - | - | - |
| 5 | HM-12 | 4816 | 6 | 2857 | 5 | 6535 | 4 | 836 | 6 | 3340 | 6 | 4387 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | HM-8 | 5791 | 5 | 2621 | 6 | 5561 | 6 | 2230 | 4 | 4109 | 5 | 4521 | 5 | - | - | - | - | - | - | - | - | - | 2.3 | - | - |
| | Location Mean | 7098 | | 4156 | | 7395 | | 2580 | | 5674 | | 6081 | | | | | | | | | | | | | |
| | C.D. (5%) | 1104 | | 463 | | 1760 | | 1014 | | 844 | | 1043 | | | | | | | | | | | | | |
| | C.V. (%) | 10.26 | | 7.34 | | 15.69 | | 21.28 | | 9.81 | | - | | | | | | | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0 | | 0 | | 0 | | - | | | | | | | | | | | | | |
| | Plot Size | 18 | | 14.4 | | 14.4 | | 18 | | 14.4 | | - | | | | | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 27-06 | | 3-07 | | 28-06 | | 11-07 | | 29-06 | | - | | | | | | | | | | | | | |
| | Harvest Date | - | | 12-10 | | - | | 11-11 | | 16-10 | | - | | | | | | | | | | | | | |
| | Irrigation Nos | - | | - | | - | | - | | 2 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied N | 120 | | 150 | | - | | 120 | | 120 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied P | 60 | | 80 | | - | | 60 | | 90 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied K | 40 | | - | | - | | 40 | | - | | - | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI 21.3 %

TABLE No. 14 (Cont.)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HM-12 | | | | | ZN 5 MEAN | GRAIN YIELD % SUPERIORITY OVER THE HM-8 | | | | | ZN 5 MEAN |
|--------|----------|--|------|------|-------|-------|-----------|---|-------|------|-------|------|-----------|
| | | AMBI | BANS | BHIL | CHHI | UDAI | | AMBI | BANS | BHIL | CHHI | UDAI | |
| 1 | IJ8533 | 118 | 35.1 | 73.6 | 469.9 | 99.6 | 84.5 | 81.3 | 47.2 | 104 | 113.7 | 62.3 | 79 |
| 2 | EH-1974 | 31.2 | 80.6 | - | 186.5 | 121.8 | 43.5 | 9.1 | 96.8 | 13.3 | 7.5 | 80.2 | 39.3 |
| CHECKS | | | | | | | | | | | | | |
| 3 | PMH-4 | 73 | 93 | 23.2 | 267.5 | 86.5 | 60.3 | 43.9 | 110.4 | 44.7 | 37.8 | 51.6 | 55.5 |
| 4 | BIO-9637 | 41.8 | 72.4 | 0.6 | 160.7 | 88.2 | 40.3 | 17.9 | 87.9 | 18.3 | - | 53 | 36.2 |
| 5 | HM-12 | - | - | - | - | - | - | - | 9 | 17.5 | - | - | - |
| 6 | HM-8 | 20.2 | - | - | 166.6 | 23 | 3 | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI 21.3 %

| S.No | PEDIGREE | GRAIN SHELLING % | | | | | ZN 5 Mean | MOISTURE % AT HARVEST | | | | | ZN 5 Mean |
|------------------|----------|------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-----------|
| | | AMBI | BANS | BHIL | CHHI | UDAI | | BANS | BHIL | CHHI | UDAI | | |
| 1 | IJ8533 | 74.1 | 69.7 | 79.1 | 78.8 | 82.6 | 76.9 | 16.9 | 21.6 | 22.8 | 24.5 | 21.5 | |
| 2 | EH-1974 | 73.7 | 70.1 | 77.3 | 79.2 | 82.0 | 76.4 | 16.4 | 20.8 | 19.4 | 23.5 | 20.0 | |
| CHECKS | | | | | | | | | | | | | |
| 3 | PMH-4 | 75.0 | 73.0 | 81.8 | 84.0 | 83.2 | 79.4 | 16.9 | 21.2 | 21.1 | 24.5 | 20.9 | |
| 4 | BIO-9637 | 74.3 | 71.6 | 78.4 | 78.9 | 83.0 | 77.2 | 16.7 | 23.1 | 20.9 | 23.1 | 20.9 | |
| 5 | HM-12 | 73.6 | 69.9 | 79.7 | 81.7 | 83.0 | 77.6 | 16.7 | 21.7 | 22.2 | 22.3 | 20.7 | |
| 6 | HM-8 | 75.0 | 72.1 | 75.8 | 79.4 | 83.0 | 77.0 | 16.9 | 21.2 | 21.7 | 24.4 | 21.0 | |
| Loc. Mean | | 74.3 | 71.0 | 78.7 | 80.3 | 82.8 | 77.4 | 16.7 | 21.6 | 21.4 | 23.7 | 20.8 | |
| C.D. (5%) | | 1.43 | 0.61 | 1.89 | 1.94 | 0.28 | 1.58 | 0.44 | - | 0.98 | 0.55 | 1.23 | |
| C.V. (%) | | 1.27 | 0.57 | 1.59 | 1.33 | 0.23 | 1.55 | 1.73 | - | 2.53 | 1.54 | 3.92 | |
| F (Prob) | | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.19 | 0.00 | 0.00 | 0.00 | 0.31 | |

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Table No. 14 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | | | | |
|------------------|----------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|
| | | AMBI | BANS | BHIL | CHHI | UDAI | ZN 5 | | | | | ZN 5 | | | | | | | |
| | | | | | | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | |
| 1 | IJ8533 | 52.5 | 48.0 | 51.0 | 63.3 | 52.8 | 53.5 | 55.0 | 51.0 | 54.0 | 65.3 | 55.3 | 56.1 | 96.0 | 87.0 | 92.8 | 105.7 | 84.5 | 93.2 |
| 2 | EH-1974 | 49.5 | 48.0 | 49.0 | 59.7 | 52.5 | 51.7 | 52.5 | 51.0 | 51.5 | 62.0 | 53.8 | 54.2 | 88.0 | 87.3 | 88.0 | 97.0 | 85.0 | 89.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 3 | PMH-4 | 45.8 | 49.5 | 46.5 | 61.7 | 53.0 | 51.3 | 48.0 | 52.5 | 50.3 | 63.3 | 55.0 | 53.8 | 89.3 | 87.5 | 89.0 | 102.3 | 85.3 | 90.7 |
| 4 | BIO-9637 | 47.5 | 48.3 | 49.3 | 63.3 | 52.5 | 52.2 | 50.5 | 51.3 | 53.5 | 65.3 | 55.5 | 55.2 | 85.5 | 87.8 | 89.3 | 102.3 | 85.8 | 90.1 |
| 5 | HM-12 | 50.0 | 50.0 | 51.5 | 65.7 | 57.8 | 55.0 | 52.8 | 53.0 | 54.0 | 67.0 | 59.8 | 57.3 | 92.8 | 88.5 | 93.0 | 105.0 | 89.5 | 93.8 |
| 6 | HM-8 | 48.0 | 50.5 | 49.8 | 62.3 | 53.3 | 52.8 | 51.0 | 53.5 | 53.5 | 64.3 | 55.8 | 55.6 | 90.0 | 89.3 | 89.3 | 102.3 | 88.0 | 91.8 |
| Loc. Mean | | 48.9 | 49.0 | 49.5 | 62.7 | 53.6 | 52.7 | 51.6 | 52.0 | 52.8 | 64.6 | 55.8 | 55.4 | 90.3 | 87.9 | 90.2 | 102.4 | 86.3 | 91.4 |
| C.D. (5%) | | 1.31 | 0.92 | 1.41 | 1.59 | 1.13 | 1.96 | 1.47 | 0.92 | 1.35 | 1.90 | 1.17 | 1.89 | 1.21 | 2.03 | 1.77 | 0.92 | 1.30 | 2.59 |
| C.V. (%) | | 1.78 | 1.25 | 1.89 | 1.40 | 1.40 | 2.82 | 1.89 | 1.18 | 1.69 | 1.62 | 1.39 | 2.59 | 0.89 | 1.53 | 1.31 | 0.49 | 1.00 | 2.15 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.01 |

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | | | STAND AT HARVEST ('000/ha) | | | | | | | |
|------------------|----------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | AMBI | BANS | BHIL | CHHI | UDAI | ZN 5 | | | | | ZN 5 | | | | | | | |
| | | | | | | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | |
| 1 | IJ8533 | 280.3 | 137.0 | 201.3 | 156.7 | 215.0 | 198.0 | 114.7 | 61.7 | 33.8 | 68.3 | 97.5 | 78.6 | 59.9 | 67.4 | 74.8 | 55.2 | 63.9 | 64.2 |
| 2 | EH-1974 | 272.8 | 141.7 | 190.4 | 131.7 | 208.8 | 189.1 | 111.4 | 65.4 | 30.8 | 65.0 | 103.8 | 77.7 | 44.0 | 66.0 | 42.7 | 37.6 | 64.6 | 51.0 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 3 | PMH-4 | 255.0 | 150.6 | 180.4 | 128.3 | 166.3 | 176.1 | 96.5 | 64.3 | 30.4 | 60.0 | 73.8 | 65.2 | 59.0 | 68.4 | 60.9 | 55.2 | 63.2 | 61.3 |
| 4 | BIO-9637 | 279.0 | 151.9 | 191.7 | 150.0 | 192.5 | 193.0 | 110.4 | 64.3 | 29.2 | 60.0 | 86.3 | 71.4 | 52.6 | 71.0 | 53.6 | 53.1 | 64.6 | 59.0 |
| 5 | HM-12 | 248.6 | 126.6 | 164.6 | 108.3 | 148.8 | 159.4 | 104.1 | 50.6 | 24.6 | 48.3 | 77.5 | 63.6 | 41.0 | 67.9 | 45.0 | 24.3 | 65.1 | 48.6 |
| 6 | HM-8 | 248.8 | 136.8 | 163.3 | 121.7 | 165.0 | 167.1 | 96.5 | 56.8 | 27.1 | 55.0 | 82.5 | 65.3 | 48.8 | 65.3 | 56.1 | 54.4 | 62.7 | 57.4 |
| Loc. Mean | | 264.1 | 140.7 | 181.9 | 132.8 | 182.7 | 180.4 | 105.6 | 60.5 | 29.3 | 59.4 | 86.9 | 70.3 | 50.9 | 67.7 | 55.5 | 46.6 | 64.0 | 56.9 |
| C.D. (5%) | | 14.11 | 24.39 | 19.74 | 17.23 | 15.00 | 13.24 | 7.21 | 21.44 | 5.28 | 8.08 | 14.23 | 7.82 | 5.45 | 4.73 | 12.69 | 7.52 | 0.72 | 9.00 |
| C.V. (%) | | 3.54 | 11.50 | 7.20 | 7.13 | 5.45 | 5.56 | 4.53 | 23.51 | 11.94 | 7.47 | 10.87 | 7.38 | 7.10 | 4.64 | 15.17 | 8.86 | 0.75 | 11.98 |
| F (Prob) | | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.01 |

Locations Rejected due to High C.V.(i.e.> 20%) : BANSWARA 23.5%

TABLE No. 15: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, UDHAMPUR IN AVT1 TRIAL No. TR67Z1(AVT1-E-Z1) & AVT2 TRIAL No. TR71Z1 (AVT2-E-Z1) DURING KHARIF (2013)

| SI No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | |
|----------------------|-------------------------------------|----|-------------|----|-------------|----|-------------|----|-------------|----|------------------------------------|------|------|------|---------|------|------|------|------|------|
| | ALMO | | BAJA | | KANG | | UDHA | | ZN 1 | | PMH-5 | | ZN 1 | | Prakash | | | | ZN 1 | |
| PEDIGREE | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | MEAN |
| 1 FH-3609 | 6277 | 7 | 7843 | 12 | 6401 | 8 | 7116 | 7 | 6909 | 10 | 190.2 | - | - | 2.6 | 12.4 | 34.3 | 0.4 | - | 4.2 | 7.3 |
| 2 FH-3626 | 6166 | 9 | 10388 | 6 | 6686 | 6 | 7875 | 3 | 7779 | 5 | 185 | 27.7 | - | 13.6 | 26.5 | 31.9 | 33 | 3.7 | 15.3 | 20.8 |
| 3 EH-2212 | 6195 | 8 | 10092 | 8 | 7528 | 2 | 6447 | 13 | 7566 | 7 | 186.4 | 24.1 | 2.3 | - | 23.1 | 32.5 | 29.2 | 16.7 | - | 17.5 |
| 4 EH-2223 | 5065 | 11 | 9617 | 10 | 4890 | 15 | 6841 | 10 | 6603 | 11 | 134.1 | 18.2 | - | - | 7.4 | 8.3 | 23.2 | - | 0.2 | 2.5 |
| 5 Bio 6008 | 7359 | 3 | 11811 | 2 | 7694 | 1 | 7258 | 6 | 8531 | 1 | 240.2 | 45.2 | 4.6 | 4.7 | 38.8 | 57.4 | 51.3 | 19.3 | 6.3 | 32.5 |
| 6 REH-2011-2 | 4237 | 14 | 6794 | 15 | 5606 | 11 | 6259 | 15 | 5724 | 15 | 95.8 | - | - | - | - | - | - | - | - | - |
| 7 FH-3605 | 6816 | 5 | 9676 | 9 | 7278 | 4 | 7020 | 8 | 7697 | 6 | 215 | 19 | - | 1.2 | 25.2 | 45.8 | 23.9 | 12.8 | 2.8 | 19.5 |
| 8 EH-2170 | 4273 | 13 | 7549 | 14 | 5086 | 14 | 8112 | 1 | 6255 | 13 | 97.5 | - | - | 17 | 1.7 | - | - | - | 18.8 | - |
| 9 K-21 | 7155 | 4 | 10539 | 5 | 6140 | 9 | 6265 | 14 | 7525 | 8 | 230.7 | 29.6 | - | - | 22.4 | 53.1 | 35 | - | - | 16.8 |
| 10 DAS-MH-501 | 7826 | 1 | 12435 | 1 | 5629 | 10 | 6726 | 12 | 8154 | 2 | 261.8 | 52.9 | - | - | 32.6 | 67.4 | 59.3 | - | - | 26.6 |
| 11 Bisco-2238 | 7424 | 2 | 11657 | 3 | 5426 | 13 | 7574 | 4 | 8020 | 4 | 243.2 | 43.3 | - | 9.2 | 30.5 | 58.8 | 49.3 | - | 10.9 | 24.5 |
| 12 EHL-162508 | 5730 | 10 | 11280 | 4 | 7251 | 5 | 7972 | 2 | 8058 | 3 | 164.8 | 38.7 | - | 15 | 31.1 | 22.6 | 44.5 | 12.4 | 16.7 | 25.1 |
| 13 KNMH-4010141 | 6388 | 6 | 10338 | 7 | 5526 | 12 | 7349 | 5 | 7400 | 9 | 195.3 | 27.1 | - | 6 | 20.4 | 36.6 | 32.4 | - | 7.6 | 14.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 14 PMH-5 | 2163 | 15 | 8134 | 11 | 7358 | 3 | 6934 | 9 | 6147 | 14 | - | - | - | - | - | - | 4.2 | 14.1 | 1.5 | - |
| 15 Prakash | 4675 | 12 | 7808 | 13 | 6451 | 7 | 6829 | 11 | 6441 | 12 | 116.1 | - | - | - | 4.8 | - | - | - | - | - |
| Location Mean | 5850 | | 9731 | | 6330 | | 7105 | | 7254 | | | | | | | | | | | |
| C.D. (5%) | 873 | | 1052 | | 409 | | 440 | | 694 | | | | | | | | | | | |
| C.V. (%) | 8.91 | | 6.45 | | 3.85 | | 3.7 | | - | | | | | | | | | | | |
| F (Prob) | 0 | | 0 | | 0 | | 0 | | - | | | | | | | | | | | |
| Plot Size | 12 | | 10.8 | | 10.8 | | 14.4 | | - | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | 4-07 | | 27-06 | | 2-07 | | 20-06 | | - | | | | | | | | | | | |
| Harvest Date | 5-11 | | 22-10 | | 3-10 | | 26-09 | | - | | | | | | | | | | | |
| Irrigation Nos | - | | 3 | | - | | - | | - | | | | | | | | | | | |
| Fertilizer Applied N | 80 | | 120 | | 120 | | 120 | | - | | | | | | | | | | | |
| Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | | | | | | | | | | |
| Fertilizer Applied K | 40 | | 40 | | 40 | | 40 | | - | | | | | | | | | | | |

Table No. 15 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | MOISTURE % AT HARVEST | | | | | STAND AT HARVEST ('000/ha) | | | | |
|------------------|--------------|------------------|-------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|--------------|----------------------------|-------------|-------------|-------------|--------------|
| | | ALMO | BAJA | KANG | UDHA | ZN 1 Mean | ALMO | BAJA | KANG | UDHA | ZN 1 Mean | ALMO | BAJA | KANG | UDHA | ZN 1 Mean |
| 1 | FH-3609 | 84.3 | 85.5 | 72.0 | 79.5 | 80.3 | 24.5 | 19.2 | 28.2 | 26.0 | 24.5 | 63.1 | 67.3 | 80.2 | 71.8 | 70.6 |
| 2 | FH-3626 | 82.2 | 83.6 | 73.5 | 76.0 | 78.8 | 24.8 | 20.0 | 27.1 | 25.0 | 24.2 | 65.0 | 74.7 | 81.5 | 69.0 | 72.5 |
| 3 | EH-2212 | 86.6 | 84.7 | 76.2 | 79.9 | 81.9 | 24.2 | 20.3 | 29.0 | 26.0 | 24.9 | 61.4 | 72.2 | 78.4 | 62.7 | 68.7 |
| 4 | EH-2223 | 84.0 | 85.5 | 70.6 | 82.9 | 80.7 | 25.2 | 20.3 | 28.6 | 26.0 | 25.0 | 60.0 | 72.5 | 79.6 | 68.3 | 70.1 |
| 5 | Bio 6008 | 84.0 | 83.6 | 70.9 | 77.0 | 78.9 | 24.2 | 20.3 | 28.6 | 25.5 | 24.6 | 64.2 | 80.2 | 82.7 | 72.0 | 74.8 |
| 6 | REH-2011-2 | 82.6 | 83.4 | 70.4 | 73.8 | 77.5 | 26.1 | 21.1 | 28.9 | 24.5 | 25.1 | 56.1 | 45.4 | 78.4 | 66.9 | 61.7 |
| 7 | FH-3605 | 83.9 | 81.5 | 75.8 | 77.0 | 79.5 | 25.9 | 20.6 | 29.3 | 24.5 | 25.1 | 62.2 | 74.1 | 82.7 | 71.1 | 72.5 |
| 8 | EH-2170 | 88.2 | 85.8 | 72.9 | 78.8 | 81.4 | 25.3 | 18.9 | 28.2 | 24.5 | 24.2 | 57.2 | 62.0 | 78.4 | 73.4 | 67.8 |
| 9 | K-21 | 86.8 | 84.2 | 71.8 | 76.8 | 79.9 | 23.8 | 19.6 | 30.6 | 25.5 | 24.9 | 63.1 | 71.3 | 77.2 | 62.3 | 68.4 |
| 10 | DAS-MH-501 | 83.1 | 84.3 | 72.8 | 78.3 | 79.6 | 26.1 | 20.9 | 28.5 | 25.5 | 25.2 | 64.2 | 74.4 | 77.2 | 69.9 | 71.4 |
| 11 | Bisco-2238 | 84.8 | 82.7 | 72.5 | 77.5 | 79.4 | 22.9 | 18.6 | 27.7 | 25.0 | 23.5 | 66.1 | 76.5 | 79.0 | 67.6 | 72.3 |
| 12 | EHL-162508 | 82.6 | 83.3 | 71.8 | 81.2 | 79.7 | 26.2 | 20.5 | 28.7 | 25.0 | 25.1 | 64.2 | 72.8 | 79.0 | 69.7 | 71.4 |
| 13 | KNMH-4010141 | 83.2 | 82.6 | 71.9 | 77.5 | 78.8 | 24.6 | 19.9 | 29.0 | 26.5 | 25.0 | 62.8 | 71.9 | 76.5 | 72.2 | 70.9 |
| CHECKS | | | | | | | | | | | | | | | | |
| 14 | PMH-5 | 85.6 | 83.2 | 71.6 | 78.5 | 79.7 | 22.2 | 20.3 | 29.4 | 25.0 | 24.2 | 62.5 | 75.0 | 80.2 | 68.1 | 71.5 |
| 15 | Prakash | 87.0 | 85.3 | 74.2 | 78.8 | 81.3 | 19.6 | 19.7 | 28.0 | 25.5 | 23.2 | 62.2 | 71.9 | 78.4 | 69.4 | 70.5 |
| Loc. Mean | | 84.6 | 83.9 | 72.6 | 78.2 | 79.8 | 24.4 | 20.0 | 28.6 | 25.3 | 24.6 | 62.3 | 70.8 | 79.3 | 69.0 | 70.3 |
| C.D. (5%) | | 1.30 | 2.25 | 1.08 | 3.18 | 2.23 | 1.89 | 0.89 | 1.14 | 1.09 | 1.47 | 3.81 | 7.48 | 3.90 | 3.88 | 5.93 |
| C.V. (%) | | 0.92 | 1.60 | 0.89 | 2.43 | 1.96 | 4.64 | 2.66 | 2.38 | 2.58 | 4.19 | 3.65 | 6.32 | 2.94 | 3.36 | 5.91 |
| F (Prob) | | 0.00 | 0.02 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.01 | 0.20 | 0.00 | 0.00 | 0.06 | 0.00 | 0.04 |

Table No. 15 (Continued)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | |
|------------------|--------------|-------------------------|-------------|-------------|-------------|--------------|---------------------|-------------|-------------|-------------|--------------|----------------------|-------------|-------------|-------------|--------------|
| | | ALMO | BAJA | KANG | UDHA | ZN 1 Mean | ALMO | BAJA | KANG | UDHA | ZN 1 Mean | ALMO | BAJA | KANG | UDHA | ZN 1 Mean |
| 1 | FH-3609 | 55.3 | 52.7 | 46.7 | 53.0 | 51.9 | 56.0 | 54.7 | 49.3 | 59.0 | 54.8 | 98.7 | 85.7 | 84.3 | 83.7 | 88.1 |
| 2 | FH-3626 | 57.7 | 53.0 | 46.7 | 54.7 | 53.0 | 57.7 | 55.0 | 49.7 | 60.7 | 55.8 | 100.0 | 90.3 | 84.7 | 82.3 | 89.3 |
| 3 | EH-2212 | 54.7 | 50.7 | 44.7 | 50.7 | 50.2 | 56.7 | 52.7 | 47.7 | 56.3 | 53.3 | 98.7 | 91.0 | 82.7 | 83.3 | 88.9 |
| 4 | EH-2223 | 58.0 | 52.0 | 48.0 | 52.3 | 52.6 | 60.0 | 54.0 | 50.3 | 58.3 | 55.7 | 100.0 | 93.3 | 85.3 | 83.3 | 90.5 |
| 5 | Bio 6008 | 60.0 | 57.7 | 48.3 | 54.3 | 55.1 | 61.7 | 60.0 | 50.3 | 60.3 | 58.1 | 101.3 | 97.3 | 85.3 | 84.3 | 92.1 |
| 6 | REH-2011-2 | 58.7 | 53.7 | 48.0 | 54.3 | 53.7 | 60.0 | 55.7 | 50.7 | 60.0 | 56.6 | 100.7 | 98.3 | 85.7 | 86.3 | 92.8 |
| 7 | FH-3605 | 53.3 | 52.0 | 49.0 | 54.3 | 52.2 | 54.7 | 54.0 | 51.3 | 60.0 | 55.0 | 98.7 | 94.7 | 86.3 | 85.7 | 91.3 |
| 8 | EH-2170 | 53.3 | 51.3 | 45.0 | 51.0 | 50.2 | 54.3 | 53.3 | 47.7 | 56.7 | 53.0 | 97.3 | 91.7 | 82.7 | 81.7 | 88.3 |
| 9 | K-21 | 55.3 | 53.0 | 46.3 | 52.3 | 51.8 | 57.3 | 55.0 | 49.0 | 57.7 | 54.8 | 99.7 | 94.0 | 84.0 | 83.3 | 90.3 |
| 10 | DAS-MH-501 | 56.0 | 52.3 | 49.0 | 52.7 | 52.5 | 57.0 | 54.3 | 51.0 | 58.0 | 55.1 | 99.7 | 97.3 | 86.0 | 82.7 | 91.4 |
| 11 | Bisco-2238 | 54.3 | 51.3 | 47.0 | 51.0 | 50.9 | 56.3 | 53.7 | 50.0 | 56.7 | 54.2 | 99.0 | 90.0 | 85.0 | 82.3 | 89.1 |
| 12 | EHL-162508 | 57.7 | 53.3 | 48.3 | 53.0 | 53.1 | 59.3 | 55.3 | 50.7 | 58.3 | 55.9 | 100.0 | 90.7 | 85.7 | 84.3 | 90.2 |
| 13 | KNMH-4010141 | 59.3 | 55.3 | 49.0 | 53.7 | 54.3 | 60.3 | 57.7 | 51.3 | 59.3 | 57.2 | 99.7 | 93.3 | 86.3 | 82.7 | 90.5 |
| CHECKS | | | | | | | | | | | | | | | | |
| 14 | PMH-5 | 55.0 | 51.3 | 46.3 | 51.3 | 51.0 | 57.0 | 53.7 | 49.0 | 56.7 | 54.1 | 94.0 | 88.7 | 84.0 | 83.3 | 87.5 |
| 15 | Prakash | 53.3 | 51.7 | 44.3 | 52.3 | 50.4 | 54.7 | 53.7 | 47.3 | 57.3 | 53.3 | 92.7 | 92.7 | 82.3 | 81.7 | 87.3 |
| Loc. Mean | | 56.1 | 52.8 | 47.1 | 52.7 | 52.2 | 57.5 | 54.8 | 49.7 | 58.4 | 55.1 | 98.7 | 92.6 | 84.7 | 83.4 | 89.8 |
| C.D. (5%) | | 1.30 | 1.75 | 1.58 | 1.57 | 1.57 | 1.56 | 1.84 | 1.45 | 1.82 | 1.65 | 1.58 | 3.54 | 1.45 | 2.72 | 2.64 |
| C.V. (%) | | 1.38 | 1.98 | 2.01 | 1.78 | 2.10 | 1.62 | 2.00 | 1.74 | 1.86 | 2.10 | 0.96 | 2.29 | 1.02 | 1.95 | 2.06 |
| 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 | 0.05 | 0.00 |

BR200

Table No. 15 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | ZN 1 Mean | EAR HEIGHT(cm) | | | | ZN 1 Mean |
|-------|------------------|------------------|--------------|--------------|--------------|--------------|----------------|-------------|--------------|--------------|--------------|
| | | ALMO | BAJA | KANG | UDHA | | ALMO | BAJA | KANG | UDHA | |
| 1 | FH-3609 | 226.7 | 191.7 | 212.0 | 217.0 | 211.8 | 105.0 | 98.3 | 107.7 | 102.0 | 103.3 |
| 2 | FH-3626 | 228.3 | 188.3 | 210.7 | 212.0 | 209.8 | 115.0 | 88.3 | 99.3 | 98.3 | 100.2 |
| 3 | EH-2212 | 225.0 | 206.7 | 211.7 | 200.9 | 211.1 | 106.7 | 95.0 | 99.7 | 99.3 | 100.2 |
| 4 | EH-2223 | 230.0 | 215.0 | 218.3 | 213.1 | 219.1 | 115.0 | 105.0 | 106.3 | 104.6 | 107.7 |
| 5 | Bio 6008 | 246.7 | 201.7 | 226.7 | 220.1 | 223.8 | 110.0 | 81.7 | 107.3 | 108.2 | 101.8 |
| 6 | REH-2011-2 | 218.3 | 230.0 | 215.7 | 240.7 | 226.2 | 105.0 | 113.3 | 111.0 | 110.0 | 109.8 |
| 7 | FH-3605 | 201.7 | 188.3 | 199.7 | 224.9 | 203.7 | 96.7 | 101.7 | 98.7 | 104.5 | 100.4 |
| 8 | EH-2170 | 226.7 | 203.3 | 222.3 | 222.7 | 218.8 | 108.3 | 106.7 | 118.7 | 102.3 | 109.0 |
| 9 | K-21 | 243.3 | 208.3 | 216.7 | 216.5 | 221.2 | 116.7 | 96.7 | 97.3 | 103.7 | 103.6 |
| 10 | DAS-MH-501 | 251.7 | 218.3 | 207.7 | 216.7 | 223.6 | 110.0 | 101.7 | 92.7 | 105.7 | 102.5 |
| 11 | Bisco-2238 | 223.3 | 211.7 | 224.0 | 211.3 | 217.6 | 103.3 | 81.7 | 94.7 | 101.7 | 95.3 |
| 12 | EHL-162508 | 241.7 | 206.7 | 231.0 | 216.0 | 223.8 | 121.7 | 101.0 | 122.3 | 103.7 | 112.2 |
| 13 | KNMH-4010141 | 246.7 | 220.0 | 240.0 | 240.3 | 236.8 | 115.0 | 91.7 | 106.0 | 104.2 | 104.2 |
| | CHECKS | | | | | | | | | | |
| 14 | PMH-5 | 230.0 | 195.0 | 227.3 | 210.8 | 215.8 | 111.7 | 78.3 | 115.7 | 101.4 | 101.8 |
| 15 | Prakash | 230.0 | 186.7 | 214.3 | 221.0 | 213.0 | 118.3 | 100.0 | 109.0 | 105.7 | 108.3 |
| | Loc. Mean | 231.3 | 204.8 | 218.5 | 218.9 | 218.4 | 110.6 | 96.1 | 105.8 | 103.7 | 104.0 |
| | C.D. (5%) | 12.46 | 24.30 | 7.91 | 35.07 | 14.02 | 9.21 | 17.26 | 7.69 | 15.02 | 10.04 |
| | C.V. (%) | 3.22 | 7.09 | 2.16 | 9.58 | 4.50 | 4.98 | 10.74 | 4.35 | 8.66 | 6.76 |
| | F (Prob) | 0.00 | 0.02 | 0.00 | 0.71 | 0.01 | 0.00 | 0.01 | 0.00 | 0.98 | 0.10 |

TABLE No. 16: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT KARNAL, LUDHIANA, PANTNAGAR IN AVT1 TRIAL No. TR67Z2(AVT1-E-Z2) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | |
|-------|----------------------|-------------------------------------|---|-------------|------|--------------|---|-------------|------------------------------------|------|------|------|---------|------|------|------|-------|------|------|------|------|
| | | KARNAL | | | | LUDHIANA | | | PANTNAGAR | | | | Prakash | | ZN 2 | | PMH-5 | | ZN 2 | | |
| | | R | R | R | MEAN | R | R | R | MEAN | R | R | R | MEAN | KARN | LUDH | PANT | MEAN | KARN | LUDH | PANT | MEAN |
| 1 | CMH-10-484 | 9172 | 1 | 10224 | 1 | 6965 | 5 | 9698 | 1 | 18.2 | 49.3 | 5.4 | 32.8 | 13.9 | 39 | - | 25.9 | | | | |
| 2 | JH-31602 | 9068 | 2 | 7167 | 5 | 7199 | 4 | 8118 | 2 | 16.9 | 4.6 | 8.9 | 11.1 | 12.6 | - | - | 5.4 | | | | |
| 3 | EH-2170 | 8156 | 3 | 7715 | 3 | 7872 | 2 | 7935 | 3 | 5.1 | 12.6 | 19.1 | 8.6 | 1.3 | 4.9 | 2.6 | 3 | | | | |
| 4 | PMH-5(Filler) | 7969 | 5 | 7879 | 2 | 8556 | 1 | 7924 | 4 | 2.7 | 15 | 29.5 | 8.5 | - | 7.1 | 11.5 | 2.9 | | | | |
| | CHECKS | | | | | | | | | | | | | | | | | | | | |
| 5 | Prakash | 7760 | 6 | 6850 | 6 | 6608 | 6 | 7305 | 6 | - | - | - | - | - | - | - | - | | | | |
| 6 | PMH-5 | 8052 | 4 | 7355 | 4 | 7671 | 3 | 7703 | 5 | 3.8 | 7.4 | 16.1 | 5.4 | - | - | - | - | | | | |
| | Location Mean | 8363 | | 7865 | | 7478 | | 8114 | | | | | | | | | | | | | |
| | C.D. (5%) | 1072 | | 1397 | | 2432 | | 1234 | | | | | | | | | | | | | |
| | C.V. (%) | 8.45 | | 11.71 | | 21.44 | | - | | | | | | | | | | | | | |
| | F (Prob) | 0.024 | | 0.006 | | 0.57 | | - | | | | | | | | | | | | | |
| | Plot Size | 12 | | 10.92 | | 12 | | - | | | | | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 28-06 | | 23-06 | | 4-08 | | - | | | | | | | | | | | | | |
| | Harvest Date | 29-09 | | 10-10 | | 23-11 | | - | | | | | | | | | | | | | |
| | Irrigation Nos | 4 | | 4 | | 1 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied N | 150 | | 88 | | 120 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied P | 60 | | 30 | | 60 | | - | | | | | | | | | | | | | |
| | Fertilizer Applied K | 60 | | 20 | | 40 | | - | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 21.4 %

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Table No. 16 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | MOISTURE % AT HARVEST | | | | STAND AT HARVEST ('000/ha) | | | | DAYS TO 50% POLLEN SHED | | | |
|-------|------------------|------------------|-------------|-------------|--------------|-----------------------|-------------|-------------|--------------|----------------------------|-------------|-------------|--------------|-------------------------|-------------|-------------|--------------|
| | | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean |
| 1 | CMH-10-484 | 66.8 | 86.9 | 84.0 | 79.2 | 23.0 | 23.4 | 28.6 | 25.0 | 63.8 | 66.6 | 49.4 | 59.9 | 52.3 | 51.3 | 51.8 | 51.8 |
| 2 | JH-31602 | 66.9 | 82.7 | 88.1 | 79.2 | 21.1 | 21.2 | 25.4 | 22.6 | 62.3 | 66.6 | 45.6 | 58.2 | 50.0 | 47.5 | 46.5 | 48.0 |
| 3 | EH-2170 | 68.0 | 88.0 | 87.5 | 81.2 | 23.2 | 21.3 | 26.9 | 23.8 | 63.1 | 68.0 | 54.8 | 62.0 | 49.5 | 45.8 | 47.8 | 47.7 |
| 4 | PMH-5(Filler) | 67.8 | 84.6 | 86.7 | 79.7 | 22.3 | 24.4 | 25.4 | 24.0 | 60.8 | 66.4 | 50.0 | 59.1 | 49.0 | 46.0 | 46.5 | 47.2 |
| | CHECKS | | | | | | | | | | | | | | | | |
| 5 | Prakash | 66.8 | 83.5 | 90.0 | 80.1 | 22.2 | 21.6 | 27.7 | 23.8 | 62.3 | 63.9 | 48.8 | 58.3 | 50.5 | 48.3 | 47.0 | 48.6 |
| 6 | PMH-5 | 65.0 | 84.0 | 89.3 | 79.4 | 22.1 | 21.7 | 25.9 | 23.2 | 62.7 | 66.2 | 50.8 | 59.9 | 49.5 | 46.0 | 46.5 | 47.3 |
| | Loc. Mean | 66.9 | 84.9 | 87.6 | 79.8 | 22.3 | 22.2 | 26.6 | 23.7 | 62.5 | 66.3 | 49.9 | 59.6 | 50.1 | 47.5 | 47.7 | 48.4 |
| | C.D. (5%) | 0.73 | 0.72 | 1.19 | 3.71 | 0.52 | 1.94 | 1.39 | 1.87 | 1.12 | 4.10 | 4.92 | 3.11 | 2.43 | 1.50 | 1.36 | 1.44 |
| | C.V. (%) | 0.72 | 0.56 | 0.90 | 2.55 | 1.55 | 5.77 | 3.46 | 4.33 | 1.19 | 4.10 | 6.54 | 2.87 | 3.22 | 2.09 | 1.89 | 1.64 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.83 | 0.00 | 0.01 | 0.00 | 0.18 | 0.00 | 0.47 | 0.03 | 0.16 | 0.13 | 0.00 | 0.00 | 0.00 |

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | DAYS TO 75% DRY HUSK | | | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | |
|-------|------------------|---------------------|-------------|-------------|--------------|----------------------|-------------|--------------|------------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|
| | | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean | KARN | LUDH | PANT | ZN 2 Mean |
| 1 | CMH-10-484 | 54.3 | 52.3 | 55.0 | 53.8 | 84.0 | 82.3 | 83.1 | 207.5 | 280.0 | 294.3 | 260.6 | 101.3 | 175.0 | 150.0 | 142.1 |
| 2 | JH-31602 | 52.0 | 48.5 | 49.5 | 50.0 | 81.3 | 78.5 | 79.9 | 196.3 | 213.8 | 241.3 | 217.1 | 90.0 | 100.0 | 109.5 | 99.8 |
| 3 | EH-2170 | 51.8 | 46.8 | 50.8 | 49.8 | 81.0 | 76.5 | 78.8 | 188.8 | 206.3 | 258.5 | 217.8 | 86.3 | 106.3 | 112.3 | 101.6 |
| 4 | PMH-5(Filler) | 51.0 | 46.8 | 50.0 | 49.3 | 80.5 | 76.0 | 78.3 | 190.0 | 213.8 | 244.5 | 216.1 | 87.5 | 113.8 | 105.8 | 102.3 |
| | CHECKS | | | | | | | | | | | | | | | |
| 5 | Prakash | 52.5 | 47.8 | 49.3 | 49.8 | 82.0 | 78.0 | 80.0 | 191.3 | 238.8 | 263.5 | 231.2 | 91.3 | 126.3 | 123.5 | 113.7 |
| 6 | PMH-5 | 51.8 | 47.0 | 49.5 | 49.4 | 80.5 | 77.3 | 78.9 | 186.3 | 206.3 | 258.8 | 217.1 | 78.8 | 102.5 | 113.5 | 98.3 |
| | Loc. Mean | 52.2 | 48.2 | 50.7 | 50.3 | 81.5 | 78.1 | 79.8 | 193.3 | 226.5 | 260.1 | 226.6 | 89.2 | 120.6 | 119.1 | 109.6 |
| | C.D. (5%) | 2.42 | 1.65 | 2.07 | 1.58 | 2.22 | 2.39 | 1.98 | 12.96 | 15.92 | 19.79 | 23.02 | 10.23 | 12.01 | 13.82 | 21.14 |
| | C.V. (%) | 3.08 | 2.27 | 2.70 | 1.73 | 1.81 | 2.03 | 0.96 | 4.45 | 4.66 | 5.05 | 5.58 | 7.62 | 6.61 | 7.70 | 10.60 |
| | F (Prob) | 0.15 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 |

TABLE No. 17: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI IN AVT1 TRIAL No. TR67Z3 (AVT1-E-Z3) & AVT2 TRIAL No. TR71Z3(AVT2-E-Z3) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | | | |
|----------------------|------------|-------------------------------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|------------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| | | BAHRAICH | | | | | BHUBANESHWAR | | | | | Prakash | | ZN 3 | | PMH-5 | | | | ZN 3 | | | | |
| | | BAHR | BHUB | DHOL | RANC | VARA | BAHR | BHUB | DHOL | RANC | VARA | MEAN | BAHR | BHUB | DHOL | RANC | VARA | MEAN | BAHR | BHUB | DHOL | RANC | VARA | MEAN |
| 1 | FH-3605 | 6637 | 6213 | 5950 | 10435 | 7614 | 6637 | 6213 | 5950 | 10435 | 7614 | 7370 | 17.8 | 4.1 | 5.8 | 21.1 | 21.5 | 14.8 | 36.4 | 8.6 | - | 12.1 | 19.8 | 10.8 |
| 2 | JH-31602 | 6171 | 6301 | 6185 | 9513 | 6554 | 6171 | 6301 | 6185 | 9513 | 6554 | 6945 | 9.5 | 5.6 | 10 | 10.4 | 4.6 | 8.1 | 26.8 | 10.1 | - | 2.2 | 3.1 | 4.4 |
| 3 | DAS-MH-501 | 6358 | 6594 | 5807 | 11052 | 6022 | 6358 | 6594 | 5807 | 11052 | 6022 | 7167 | 12.8 | 10.5 | 3.2 | 28.3 | - | 11.6 | 30.7 | 15.2 | - | 18.8 | - | 7.7 |
| 4 | EHL-162508 | 5286 | 6530 | 6460 | 9752 | 6977 | 5286 | 6530 | 6460 | 9752 | 6977 | 7001 | - | 9.4 | 14.9 | 13.2 | 11.3 | 9 | 8.7 | 14.1 | - | 4.8 | 9.7 | 5.2 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Prakash | 5635 | 5967 | 5625 | 8617 | 6267 | 5635 | 5967 | 5625 | 8617 | 6267 | 6422 | - | - | - | - | - | - | 15.8 | 4.3 | - | - | - | - |
| 6 | PMH-5 | 4864 | 5723 | 7013 | 9304 | 6358 | 4864 | 5723 | 7013 | 9304 | 6358 | 6653 | - | - | 24.7 | 8 | 1.4 | 3.6 | - | - | - | - | - | - |
| Location Mean | | 5825 | 6221 | 6173 | 9779 | 6632 | 5825 | 6221 | 6173 | 9779 | 6632 | 6926 | | | | | | | | | | | | |
| C.D. (5%) | | 712 | 343 | 1338 | 1050 | 668 | 712 | 343 | 1338 | 1050 | 668 | 822 | | | | | | | | | | | | |
| C.V. (%) | | 8.06 | 3.63 | 14.29 | 5.82 | 6.64 | 8.06 | 3.63 | 14.29 | 5.82 | 6.64 | - | | | | | | | | | | | | |
| F (Prob) | | 0 | 0 | 0.263 | 0.007 | 0.001 | 0 | 0 | 0.263 | 0.007 | 0.001 | | | | | | | | | | | | | |
| Plot Size | | 14.4 | 14.4 | 14.4 | 9.6 | 14.4 | 14.4 | 14.4 | 14.4 | 9.6 | 14.4 | - | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 2-07 | 21-06 | 4-08 | 1-07 | 19-06 | 2-07 | 21-06 | 4-08 | 1-07 | 19-06 | - | | | | | | | | | | | | |
| Harvest Date | | 3-10 | 27-09 | 18-10 | 9-10 | 28-09 | 3-10 | 27-09 | 18-10 | 9-10 | 28-09 | - | | | | | | | | | | | | |
| Irrigation Nos | | 4 | - | - | - | - | 4 | - | - | - | - | - | | | | | | | | | | | | |
| Fertilizer Applied N | | 120 | 120 | 120 | 120 | 100 | 120 | 120 | 120 | 100 | - | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | - | | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | 60 | 40 | 40 | 40 | 40 | 60 | 40 | 40 | - | | | | | | | | | | | | | |

BR204

Table No. 17 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | MOISTURE % AT HARVEST | | | | | | STAND AT HARVEST ('000/ha) | | | | | | PLANT HEIGHT(cm) | | | | | |
|------------------|------------|------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 |
| | | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean |
| 1 | FH-3605 | 76.9 | 80.5 | 83.9 | 85.1 | 80.0 | 81.3 | 22.3 | 17.3 | 29.4 | 18.8 | 26.4 | 22.8 | 68.8 | 65.8 | 67.5 | 75.0 | 63.7 | 68.2 | 164.7 | 162.3 | 163.5 | 180.9 | 160.5 | 166.4 |
| 2 | JH-31602 | 75.3 | 80.6 | 80.1 | 86.9 | 76.5 | 79.9 | 20.2 | 16.5 | 28.5 | 20.7 | 26.6 | 22.5 | 67.7 | 66.0 | 77.6 | 73.3 | 64.4 | 69.8 | 180.8 | 172.5 | 173.1 | 206.0 | 174.0 | 181.3 |
| 3 | DAS-MH-501 | 71.1 | 80.5 | 74.6 | 84.8 | 76.5 | 77.5 | 21.2 | 17.2 | 29.8 | 19.8 | 28.9 | 23.4 | 68.2 | 64.8 | 75.0 | 79.5 | 62.8 | 70.1 | 182.3 | 179.6 | 177.8 | 211.8 | 154.0 | 181.1 |
| 4 | EHL-162508 | 71.9 | 79.0 | 81.8 | 81.0 | 82.3 | 79.2 | 20.9 | 17.3 | 31.4 | 19.9 | 28.2 | 23.5 | 67.0 | 65.8 | 78.0 | 71.5 | 64.9 | 69.4 | 172.8 | 180.2 | 177.9 | 213.1 | 159.0 | 180.6 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Prakash | 79.2 | 80.1 | 76.2 | 87.1 | 80.8 | 80.7 | 19.7 | 17.7 | 23.9 | 18.7 | 25.8 | 21.2 | 66.3 | 65.6 | 74.5 | 70.1 | 65.1 | 68.3 | 165.4 | 170.9 | 159.5 | 194.0 | 161.5 | 170.3 |
| 6 | PMH-5 | 76.1 | 80.4 | 81.8 | 86.1 | 75.0 | 79.9 | 21.1 | 16.7 | 25.8 | 23.9 | 26.2 | 22.7 | 66.1 | 64.8 | 78.0 | 74.3 | 62.3 | 69.1 | 178.6 | 164.2 | 166.3 | 198.9 | 183.0 | 178.2 |
| Loc. Mean | | 75.1 | 80.1 | 79.7 | 85.2 | 78.5 | 79.7 | 20.9 | 17.1 | 28.1 | 20.3 | 27.0 | 22.7 | 67.4 | 65.5 | 75.1 | 74.0 | 63.9 | 69.1 | 174.1 | 171.6 | 169.7 | 200.8 | 165.3 | 176.3 |
| C.D. (5%) | | 1.31 | 0.36 | 5.63 | 1.45 | 1.30 | 3.48 | 0.59 | 0.35 | 1.00 | 3.74 | 1.14 | 2.13 | 4.12 | 3.30 | 8.82 | 5.96 | 2.57 | 3.38 | 9.42 | 6.11 | 17.62 | 12.48 | 4.10 | 10.19 |
| C.V. (%) | | 1.16 | 0.30 | 4.68 | 0.94 | 1.10 | 3.31 | 1.86 | 1.36 | 2.37 | 10.11 | 2.80 | 7.12 | 4.06 | 3.35 | 7.79 | 4.43 | 2.67 | 3.71 | 3.59 | 2.36 | 6.89 | 3.42 | 1.65 | 4.38 |
| F (Prob) | | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.28 | 0.71 | 0.93 | 0.16 | 0.07 | 0.18 | 0.80 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.02 |

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | | | EAR HEIGHT(cm) | | | | | |
|------------------|------------|-------------------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|------|
| | | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 | BAHR | BHUB | DHOL | RANC | VARA | ZN 3 | BAHR | BHUB | RANC | VARA | Mean | ZN 3 |
| | | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean |
| 1 | FH-3605 | 43.5 | 47.5 | 47.8 | 49.3 | 54.3 | 48.5 | 46.0 | 49.0 | 49.5 | 53.0 | 59.5 | 51.4 | 78.3 | 84.8 | 78.8 | 96.0 | 93.5 | 86.3 | 85.7 | 76.8 | 84.7 | 71.5 | 79.7 | |
| 2 | JH-31602 | 47.0 | 45.5 | 48.0 | 50.7 | 51.8 | 48.6 | 49.0 | 48.0 | 49.3 | 54.0 | 57.0 | 51.5 | 76.3 | 83.5 | 77.0 | 95.0 | 89.8 | 84.3 | 77.2 | 80.1 | 95.5 | 80.0 | 83.2 | |
| 3 | DAS-MH-501 | 52.0 | 47.8 | 48.8 | 50.7 | 54.5 | 50.7 | 54.0 | 51.0 | 50.3 | 54.7 | 59.3 | 53.8 | 76.8 | 82.0 | 79.8 | 96.0 | 91.8 | 85.3 | 70.3 | 72.7 | 92.9 | 58.0 | 73.5 | |
| 4 | EHL-162508 | 50.0 | 49.8 | 50.0 | 52.0 | 53.8 | 51.1 | 52.0 | 51.3 | 52.3 | 55.7 | 60.0 | 54.2 | 72.5 | 83.3 | 81.0 | 97.7 | 90.3 | 84.9 | 77.9 | 84.9 | 101.9 | 70.0 | 83.6 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Prakash | 47.5 | 45.3 | 47.3 | 49.3 | 51.8 | 48.2 | 50.0 | 47.3 | 48.5 | 53.3 | 56.5 | 51.1 | 78.0 | 81.5 | 79.3 | 94.0 | 91.8 | 84.9 | 71.1 | 85.2 | 90.9 | 74.0 | 80.3 | |
| 6 | PMH-5 | 44.0 | 45.8 | 45.8 | 48.0 | 51.5 | 47.0 | 46.0 | 47.3 | 47.3 | 52.0 | 55.8 | 49.7 | 76.0 | 82.3 | 75.0 | 94.3 | 89.8 | 83.5 | 75.2 | 79.3 | 86.9 | 73.0 | 78.6 | |
| Loc. Mean | | 47.3 | 46.9 | 47.9 | 50.0 | 52.9 | 49.0 | 49.5 | 49.0 | 49.5 | 53.8 | 58.0 | 51.9 | 76.3 | 82.9 | 78.5 | 95.5 | 91.1 | 84.9 | 76.2 | 79.8 | 92.1 | 71.1 | 79.8 | |
| C.D. (5%) | | 1.80 | 0.66 | 2.59 | 1.76 | 0.79 | 1.80 | 1.91 | 0.57 | 2.66 | 1.96 | 1.13 | 1.61 | 1.98 | 1.13 | 2.67 | 1.52 | 1.84 | 2.08 | 9.54 | 4.35 | 9.91 | 4.84 | 8.28 | |
| C.V. (%) | | 2.52 | 0.93 | 3.58 | 1.93 | 1.00 | 2.79 | 2.56 | 0.77 | 3.56 | 2.00 | 1.30 | 2.36 | 1.72 | 0.91 | 2.26 | 0.88 | 1.34 | 1.86 | 8.31 | 3.62 | 5.91 | 4.51 | 6.88 | |
| F (Prob) | | 0.00 | 0.00 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.04 | 0.00 | 0.03 | 0.00 | 0.17 | | |

TABLE No. 18: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI IN AVT1 TRIAL No. TR67Z4(AVT1-E-Z4) & AVT2 TR71Z4 (AVT2-E-Z4) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Prakash | | | | | | | | | |
|----------------------|--------------|-------------------------------------|----|-------------|----|--------------|----|-------------|----|-------------|----|-------------|----|--------------|----|--|----|-------|------|------|------|------|------|------|------|
| | | ZN 4 | | | | | | | | | | | | | | ZN 4 | | | | | | | | | |
| | | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R | MAND | R | VAGA | R | MEAN | R | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN |
| 1 | AH-1206 | 8804 | 8 | 6773 | 10 | 9198 | 10 | 6173 | 7 | 5879 | 8 | 8002 | 3 | 3897 | 5 | 7471 | 8 | 67.7 | - | - | 8.8 | - | 28.5 | 9.5 | 5.7 |
| 2 | KMH-7021 | 12184 | 5 | 10251 | 2 | 11968 | 2 | 5516 | 10 | 6594 | 4 | 8421 | 1 | 4360 | 4 | 9156 | 4 | 132 | 26.8 | 10.5 | - | 4 | 35.3 | 22.5 | 29.5 |
| 3 | FH-3605 | 12050 | 6 | 9953 | 3 | 14050 | 1 | 8264 | 1 | 5330 | 9 | 7572 | 6 | 4758 | 2 | 9537 | 1 | 129.5 | 23.1 | 29.7 | 45.6 | - | 21.6 | 33.7 | 34.9 |
| 4 | EH-2170 | 6095 | 9 | 6055 | 11 | 9207 | 9 | 4484 | 11 | 3868 | 11 | 5484 | 10 | 3026 | 9 | 5866 | 11 | 16.1 | - | - | - | - | - | - | - |
| 5 | K-21 | 13264 | 2 | 10696 | 1 | 9660 | 8 | 7224 | 3 | 6130 | 6 | 7386 | 7 | 4480 | 3 | 9060 | 5 | 152.6 | 32.3 | - | 27.3 | - | 18.6 | 25.9 | 28.2 |
| 6 | DAS-MH-501 | 13272 | 1 | 8092 | 7 | 7801 | 11 | 7899 | 2 | 7483 | 2 | 7703 | 5 | 5190 | 1 | 8708 | 6 | 152.7 | 0.1 | - | 39.2 | 18 | 23.7 | 45.8 | 23.2 |
| 7 | Bisco-2238 | 12466 | 4 | 9347 | 4 | 11494 | 4 | 6437 | 5 | 7276 | 3 | 8034 | 2 | 3227 | 8 | 9175 | 3 | 137.4 | 15.6 | 6.1 | 13.4 | 14.7 | 29 | - | 29.8 |
| 8 | FH-3548 | 10969 | 7 | 8430 | 5 | 11162 | 6 | 6206 | 6 | 6073 | 7 | 6875 | 8 | 2933 | 11 | 8286 | 7 | 108.9 | 4.3 | 3 | 9.4 | - | 10.4 | - | 17.2 |
| 9 | KNMH-4010141 | 12988 | 3 | 8271 | 6 | 11797 | 3 | 7110 | 4 | 7784 | 1 | 7915 | 4 | 3872 | 6 | 9311 | 2 | 147.3 | 2.3 | 8.9 | 25.3 | 22.7 | 27.1 | 8.8 | 31.7 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Prakash | 5251 | 10 | 8083 | 8 | 10834 | 7 | 5675 | 9 | 6343 | 5 | 6226 | 9 | 3559 | 7 | 7069 | 9 | - | - | - | - | - | - | - | - |
| 11 | PMH-5 | 2709 | 11 | 8010 | 9 | 11225 | 5 | 5706 | 8 | 4592 | 10 | 5368 | 11 | 2945 | 10 | 6268 | 10 | - | - | 3.6 | 0.5 | - | - | - | - |
| Location Mean | | 10005 | | 8542 | | 10763 | | 6427 | | 6123 | | 7181 | | 3841 | | 8173 | | | | | | | | | |
| C.D. (5%) | | 2547 | | 651 | | 2069 | | 1374 | | 1920 | | 815 | | 1697 | | 1563 | | | | | | | | | |
| C.V. (%) | | 14.9 | | 4.46 | | 11.25 | | 12.51 | | 18.35 | | 6.64 | | 25.86 | | - | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | 0 | | 0.006 | | 0 | | 0.083 | | | | | | | | | | | |
| Plot Size | | 18 | | 14.4 | | 12 | | 18 | | 18 | | 14 | | 14.4 | | - | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 2-07 | | 9-07 | | 25-06 | | 5-07 | | 2-07 | | 23-07 | | 8-07 | | - | | | | | | | | | |
| Harvest Date | | 10-11 | | 10-10 | | 8-10 | | 30-10 | | 18-11 | | 12-12 | | 18-10 | | - | | | | | | | | | |
| Irrigation Nos | | 6 | | 10 | | 2 | | - | | - | | 8 | | 10 | | - | | | | | | | | | |
| Fertilizer Applied N | | 150 | | 150 | | 200 | | 200 | | 100 | | 150 | | 150 | | - | | | | | | | | | |
| Fertilizer Applied P | | 75 | | 75 | | 60 | | 60 | | 50 | | 75 | | 75 | | - | | | | | | | | | |
| Fertilizer Applied K | | 37.5 | | 75 | | 50 | | 60 | | 30 | | 40 | | 75 | | - | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VAGA 25.9 %

BR206

TABLE No. 18 (Cont..)

| SI | GRAIN YIELD % SUPERIORITY OVER THE PMH-5 | | | | | | | | ZN 4 | | | | | | | | |
|--|--|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| No | PEDIGREE | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | | | | | | | | |
| 1 | AH-1206 | 225 | - | - | 8.2 | 28 | 49.1 | 32.3 | 19.2 | | | | | | | | |
| 2 | KMH-7021 | 349.8 | 28 | 6.6 | - | 43.6 | 56.9 | 48.1 | 46.1 | | | | | | | | |
| 3 | FH-3605 | 344.8 | 24.3 | 25.2 | 44.8 | 16.1 | 41 | 61.6 | 52.1 | | | | | | | | |
| 4 | EH-2170 | 125 | - | - | - | - | 2.2 | 2.8 | - | | | | | | | | |
| 5 | K-21 | 389.6 | 33.5 | - | 26.6 | 33.5 | 37.6 | 52.1 | 44.5 | | | | | | | | |
| 6 | DAS-MH-501 | 389.9 | 1 | - | 38.4 | 62.9 | 43.5 | 76.2 | 38.9 | | | | | | | | |
| 7 | Bisco-2238 | 360.2 | 16.7 | 2.4 | 12.8 | 58.4 | 49.7 | 9.6 | 46.4 | | | | | | | | |
| 8 | FH-3548 | 304.9 | 5.2 | - | 8.8 | 32.2 | 28.1 | - | 32.2 | | | | | | | | |
| 9 | KNMH-4010141 | 379.5 | 3.3 | 5.1 | 24.6 | 69.5 | 47.4 | 31.5 | 48.5 | | | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Prakash | 93.8 | 0.9 | - | - | 38.1 | 16 | 20.8 | 12.8 | | | | | | | | |
| 11 | PMH-5 | - | - | - | - | - | - | - | - | | | | | | | | |
| LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VAGA 25.9 % | | | | | | | | | | | | | | | | | |
| S.No | PEDIGREE | GRAIN SHELLING % | | | | | | | MOISTURE % AT HARVEST | | | | | | | | |
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | AH-1206 | 84.8 | 80.5 | 78.0 | 80.7 | 83.2 | 80.2 | 76.1 | 80.5 | 21.0 | 17.0 | 27.1 | 7.6 | 11.8 | 13.4 | 14.9 | 17.5 |
| 2 | KMH-7021 | 87.3 | 84.3 | 81.7 | 83.0 | 84.9 | 79.4 | 82.2 | 83.2 | 21.6 | 17.5 | 26.8 | 7.7 | 13.3 | 13.9 | 15.1 | 18.0 |
| 3 | FH-3605 | 84.3 | 83.8 | 80.4 | 81.7 | 84.0 | 79.5 | 82.9 | 82.3 | 23.3 | 19.0 | 26.0 | 9.4 | 10.4 | 15.6 | 16.5 | 18.5 |
| 4 | EH-2170 | 87.1 | 84.1 | 81.8 | 87.1 | 87.4 | 81.2 | 83.7 | 84.6 | 18.4 | 16.1 | 25.7 | 6.4 | 10.4 | 13.9 | 14.3 | 16.4 |
| 5 | K-21 | 86.9 | 84.6 | 80.5 | 83.4 | 86.9 | 82.9 | 86.9 | 84.6 | 20.0 | 16.8 | 26.3 | 10.2 | 11.7 | 14.1 | 16.1 | 17.5 |
| 6 | DAS-MH-501 | 83.7 | 79.2 | 78.6 | 80.0 | 81.9 | 78.0 | 83.5 | 80.7 | 23.9 | 17.7 | 26.8 | 12.3 | 11.8 | 14.3 | 17.4 | 18.6 |
| 7 | Bisco-2238 | 86.5 | 84.2 | 80.8 | 85.5 | 87.1 | 80.1 | 80.4 | 83.5 | 20.8 | 15.9 | 26.6 | 10.4 | 12.8 | 14.3 | 15.1 | 17.6 |
| 8 | FH-3548 | 83.3 | 79.8 | 76.9 | 81.5 | 82.8 | 79.8 | 81.1 | 80.7 | 22.8 | 16.8 | 26.4 | 7.3 | 10.4 | 14.8 | 15.6 | 17.8 |
| 9 | KNMH-4010141 | 84.7 | 81.9 | 81.5 | 80.3 | 84.2 | 81.8 | 78.1 | 81.8 | 22.8 | 17.2 | 24.6 | 11.9 | 10.4 | 14.1 | 17.8 | 17.8 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Prakash | 87.4 | 84.8 | 77.1 | 75.5 | 86.2 | 81.9 | 81.7 | 82.1 | 17.7 | 16.9 | 24.6 | 9.9 | 10.5 | 12.5 | 15.7 | 16.3 |
| 11 | PMH-5 | 81.0 | 82.4 | 79.3 | 85.0 | 85.9 | 80.9 | 83.2 | 82.5 | 18.1 | 16.4 | 24.9 | 9.9 | 10.3 | 12.3 | 17.4 | 16.5 |
| Loc. Mean | | 85.2 | 82.7 | 79.7 | 82.2 | 85.0 | 80.5 | 81.8 | 82.4 | 20.9 | 17.0 | 26.0 | 9.4 | 11.2 | 13.9 | 16.0 | 17.5 |
| C.D. (5%) | | 2.14 | 0.80 | 3.15 | 4.20 | 0.41 | 1.00 | 4.14 | 1.99 | 1.40 | 0.64 | 1.56 | 5.42 | 1.81 | 0.77 | 1.63 | 1.27 |
| C.V. (%) | | 1.47 | 0.57 | 2.32 | 3.00 | 0.28 | 0.73 | 2.97 | 2.25 | 3.94 | 2.21 | 3.52 | 34.01 | 9.48 | 3.25 | 6.00 | 6.27 |
| F (Prob) | | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.42 | 0.02 | 0.00 | 0.00 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 34.0%

Table No. 18 (Continued)

| S.No. | PEDIGREE | STAND AT HARVEST ('000/ha) | | | | | | | DAYS TO 50% POLLEN SHED | | | | | | | | |
|--------|------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | AH-1206 | 62.2 | 66.2 | 97.8 | 49.8 | 59.4 | 65.2 | 55.3 | 65.1 | 60.7 | 48.7 | 53.0 | 49.7 | 61.0 | 48.3 | 47.3 | 52.7 |
| 2 | KMH-7021 | 58.7 | 66.7 | 96.7 | 51.1 | 61.5 | 66.9 | 54.6 | 65.2 | 56.7 | 48.0 | 52.0 | 52.0 | 63.7 | 48.3 | 47.0 | 52.5 |
| 3 | FH-3605 | 63.3 | 66.2 | 92.5 | 50.9 | 54.8 | 64.8 | 51.4 | 63.4 | 60.0 | 53.3 | 54.3 | 48.3 | 76.0 | 49.3 | 47.7 | 55.6 |
| 4 | EH-2170 | 43.9 | 66.2 | 95.3 | 40.6 | 56.1 | 64.8 | 40.7 | 58.2 | 57.0 | 44.3 | 50.0 | 48.0 | 59.7 | 47.0 | 45.0 | 50.1 |
| 5 | K-21 | 55.7 | 66.2 | 97.5 | 52.4 | 52.2 | 66.4 | 47.5 | 62.6 | 62.0 | 53.0 | 55.0 | 48.3 | 65.0 | 49.3 | 47.3 | 54.3 |
| 6 | DAS-MH-501 | 58.5 | 66.7 | 92.8 | 45.9 | 64.1 | 65.7 | 56.7 | 64.3 | 63.7 | 52.7 | 56.7 | 49.7 | 63.0 | 50.3 | 50.7 | 55.2 |
| 7 | Bisco-2238 | 64.8 | 66.2 | 96.1 | 55.4 | 63.3 | 63.6 | 49.1 | 65.5 | 57.7 | 46.3 | 51.3 | 50.0 | 63.7 | 47.7 | 46.0 | 51.8 |
| 8 | FH-3548 | 60.0 | 66.2 | 91.7 | 50.7 | 63.0 | 61.4 | 54.2 | 63.9 | 63.7 | 48.0 | 54.0 | 48.3 | 61.3 | 50.0 | 50.7 | 53.7 |
| 9 | KNMH-4010141 | 58.3 | 66.4 | 98.9 | 46.3 | 63.7 | 63.8 | 57.2 | 64.9 | 63.3 | 54.0 | 58.0 | 50.3 | 77.0 | 51.3 | 51.7 | 58.0 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Prakash | 59.1 | 66.2 | 97.5 | 48.7 | 63.0 | 63.3 | 59.3 | 65.3 | 57.7 | 46.0 | 52.3 | 50.7 | 61.7 | 38.3 | 50.3 | 51.0 |
| 11 | PMH-5 | 50.4 | 66.4 | 97.2 | 48.3 | 60.7 | 63.8 | 47.7 | 62.1 | 59.7 | 46.3 | 51.7 | 48.3 | 62.0 | 48.0 | 49.3 | 52.2 |
| | Loc. Mean | 57.7 | 66.3 | 95.8 | 49.1 | 60.2 | 64.5 | 52.1 | 63.7 | 60.2 | 49.2 | 53.5 | 49.4 | 64.9 | 48.0 | 48.5 | 53.4 |
| | C.D. (5%) | 4.37 | 0.60 | 7.14 | 8.99 | 10.97 | 3.79 | 9.63 | 3.75 | 2.57 | 1.31 | 1.61 | 1.01 | 1.91 | 9.24 | 1.53 | 2.84 |
| | C.V. (%) | 4.44 | 0.53 | 4.37 | 10.75 | 10.70 | 3.45 | 10.84 | 5.51 | 2.51 | 1.56 | 1.76 | 1.20 | 1.73 | 11.31 | 1.86 | 4.98 |
| | F (Prob) | 0.00 | 0.58 | 0.46 | 0.17 | 0.35 | 0.22 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 |
| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | | DAYS TO 75% DRY HUSK | | | | | | | | |
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | AH-1206 | 62.3 | 50.7 | 54.0 | 52.3 | 62.0 | 50.0 | 51.0 | 54.6 | 103.7 | 90.0 | 86.7 | 82.3 | 94.0 | 91.0 | 83.0 | 90.1 |
| 2 | KMH-7021 | 61.7 | 50.0 | 53.7 | 55.0 | 64.7 | 50.3 | 51.0 | 55.2 | 103.7 | 89.7 | 86.0 | 85.0 | 96.7 | 89.3 | 83.0 | 90.5 |
| 3 | FH-3605 | 60.0 | 55.7 | 55.3 | 51.0 | 77.0 | 50.3 | 49.0 | 56.9 | 104.3 | 95.3 | 86.0 | 81.0 | 108.3 | 89.0 | 88.0 | 93.1 |
| 4 | EH-2170 | 57.7 | 46.3 | 52.3 | 51.0 | 60.7 | 49.0 | 47.0 | 52.0 | 99.7 | 88.3 | 85.3 | 81.0 | 92.7 | 87.7 | 90.0 | 89.2 |
| 5 | K-21 | 63.0 | 55.7 | 55.3 | 51.0 | 66.0 | 51.0 | 51.7 | 56.2 | 102.0 | 95.7 | 86.7 | 81.0 | 98.0 | 89.0 | 90.0 | 91.8 |
| 6 | DAS-MH-501 | 62.7 | 55.0 | 59.0 | 52.7 | 65.0 | 52.3 | 52.3 | 57.0 | 102.3 | 95.7 | 86.0 | 82.7 | 96.0 | 92.0 | 87.0 | 91.7 |
| 7 | Bisco-2238 | 59.7 | 48.3 | 53.7 | 52.7 | 64.7 | 50.0 | 52.3 | 54.5 | 101.0 | 88.0 | 85.3 | 82.7 | 96.7 | 90.0 | 88.0 | 90.2 |
| 8 | FH-3548 | 62.7 | 50.0 | 55.3 | 51.7 | 63.7 | 52.0 | 51.7 | 55.3 | 100.7 | 90.0 | 85.0 | 81.7 | 94.3 | 87.7 | 88.0 | 89.6 |
| 9 | KNMH-4010141 | 63.7 | 58.3 | 60.3 | 52.7 | 78.0 | 53.7 | 55.0 | 60.2 | 102.0 | 98.0 | 85.3 | 82.7 | 110.0 | 91.0 | 91.0 | 94.3 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Prakash | 57.7 | 48.0 | 54.0 | 53.7 | 62.7 | 50.3 | 51.3 | 54.0 | 99.3 | 88.0 | 86.3 | 83.7 | 94.7 | 91.0 | 90.0 | 90.4 |
| 11 | PMH-5 | 60.0 | 48.3 | 54.0 | 51.0 | 63.0 | 50.0 | 51.3 | 54.0 | 99.0 | 88.0 | 86.0 | 81.0 | 95.0 | 91.0 | 87.0 | 89.6 |
| | Loc. Mean | 61.0 | 51.5 | 55.2 | 52.2 | 66.1 | 50.8 | 51.2 | 55.4 | 101.6 | 91.5 | 85.9 | 82.2 | 97.8 | 89.9 | 87.7 | 91.0 |
| | C.D. (5%) | 0.88 | 1.34 | 1.26 | 1.32 | 2.46 | 1.35 | 2.09 | 2.59 | 1.48 | 3.04 | 2.46 | 1.32 | 1.88 | 2.41 | 0.00 | 2.93 |
| | C.V. (%) | 0.85 | 1.53 | 1.35 | 1.48 | 2.19 | 1.56 | 2.39 | 4.37 | 0.86 | 1.95 | 1.68 | 0.94 | 1.13 | 1.57 | 0.00 | 3.01 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 |

Table No. 18 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | EAR HEIGHT(cm) | | | | | | | | | |
|-------|------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ZN 4 | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | AH-1206 | 166.0 | 163.3 | 187.3 | 175.0 | 206.7 | 223.3 | 154.1 | 182.2 | 79.5 | 86.7 | 72.7 | 55.3 | 78.3 | 105.0 | 59.6 | 76.7 | |
| 2 | KMH-7021 | 165.5 | 172.5 | 185.3 | 152.7 | 180.0 | 217.0 | 163.7 | 176.7 | 58.0 | 81.6 | 57.3 | 37.7 | 45.0 | 110.7 | 56.1 | 63.8 | |
| 3 | FH-3605 | 169.5 | 151.7 | 174.3 | 167.3 | 176.7 | 205.7 | 154.4 | 171.4 | 69.0 | 81.6 | 62.7 | 51.3 | 61.7 | 104.7 | 52.6 | 69.1 | |
| 4 | EH-2170 | 150.0 | 154.5 | 173.3 | 168.3 | 171.7 | 211.3 | 148.3 | 168.2 | 65.5 | 90.1 | 57.0 | 53.3 | 46.7 | 105.7 | 59.7 | 68.3 | |
| 5 | K-21 | 183.5 | 165.5 | 190.0 | 180.0 | 191.7 | 223.0 | 164.2 | 185.4 | 77.5 | 85.5 | 65.0 | 49.7 | 53.3 | 110.7 | 61.6 | 71.9 | |
| 6 | DAS-MH-501 | 179.0 | 178.6 | 214.3 | 192.3 | 210.0 | 233.7 | 179.7 | 198.2 | 70.5 | 86.6 | 70.3 | 56.3 | 56.7 | 113.3 | 63.0 | 73.8 | |
| 7 | Bisco-2238 | 165.5 | 162.3 | 185.3 | 177.0 | 200.0 | 215.7 | 163.6 | 181.3 | 67.0 | 76.3 | 62.7 | 52.0 | 63.3 | 101.3 | 46.5 | 67.0 | |
| 8 | FH-3548 | 160.0 | 152.3 | 180.7 | 170.0 | 173.3 | 204.3 | 155.7 | 170.9 | 61.5 | 72.3 | 61.3 | 54.7 | 48.3 | 98.7 | 52.5 | 64.2 | |
| 9 | KNMH-4010141 | 204.0 | 197.6 | 210.3 | 191.3 | 233.3 | 219.0 | 175.1 | 204.4 | 77.5 | 94.9 | 70.3 | 52.7 | 70.0 | 108.3 | 60.5 | 76.3 | |
| | CHECKS | | | | | | | | | | | | | | | | | |
| 10 | Prakash | 152.0 | 169.4 | 174.3 | 169.3 | 191.7 | 228.0 | 159.8 | 177.8 | 72.5 | 104.2 | 64.0 | 51.7 | 75.0 | 117.0 | 63.9 | 78.3 | |
| 11 | PMH-5 | 167.5 | 172.7 | 186.0 | 137.7 | 175.0 | 207.7 | 162.7 | 172.7 | 69.0 | 86.7 | 71.3 | 44.7 | 51.7 | 100.0 | 58.5 | 68.8 | |
| | Loc. Mean | 169.3 | 167.3 | 187.4 | 171.0 | 191.8 | 217.2 | 161.9 | 180.8 | 69.8 | 86.1 | 65.0 | 50.8 | 59.1 | 106.8 | 57.7 | 70.8 | |
| | C.D. (5%) | 15.80 | 18.41 | 10.14 | 13.26 | 20.37 | 16.49 | 13.69 | 9.41 | 10.35 | 14.22 | 8.30 | 9.36 | 13.76 | 10.95 | 8.01 | 6.12 | |
| | C.V. (%) | 5.48 | 6.46 | 3.18 | 4.55 | 6.24 | 4.46 | 4.96 | 4.87 | 8.71 | 9.70 | 7.50 | 10.81 | 13.68 | 6.02 | 8.16 | 8.09 | |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.00 | 0.05 | 0.01 | 0.00 | |

TABLE No. 19: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, BHILODA, CHHINDWARA, JHABUA, UDAIPUR IN AVT1 TRIAL No. TR67Z5 (AVT1-E-Z5) & AVT2 TRIAL No. TR71Z5 (AVT2-E-Z5) DURING KHARIF (2013)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Prakash | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE PMH-5 | | | | | | |
|-------|----------------------|-------------------------------------|-------------|-------------|--------------|-------------|-------------|-------------|------|--|-------|-------|------|------|------|------|------|--|------|------|-------|------|------|------|
| | | ZN 5 | | | | | | | | ZN 5 | | | | | | | | ZN 5 | | | | | | |
| | | AMBI R | BANS R | BHIL R | CHHI R | JHAB R | UDAI R | MEAN R | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | MEAN | OV'L | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI |
| 1 | CMH-10-531 | 7487 | 3362 | 8205 | 4805 | 5526 | 5758 | 6068 | 17.7 | 91 | 119.7 | 179.1 | - | 40.9 | 38.4 | 38.4 | | 18.9 | 0.1 | 48.7 | 141.6 | - | 2.6 | 12.4 |
| 2 | K-21 | 5763 | 4338 | 5231 | 2621 | 4724 | 6257 | 5263 | - | 146.4 | 40 | 52.3 | - | 53 | 20.1 | 20.1 | | - | 29.1 | - | 31.8 | - | 11.4 | - |
| 3 | DAS-MH-501 | 7259 | 3212 | 7183 | 3258 | 4460 | 3807 | 5184 | 14.1 | 82.4 | 92.3 | 89.3 | - | - | 18.3 | 18.3 | | 15.3 | - | 30.2 | 63.8 | - | - | - |
| 4 | Bisco-2238 | 6520 | 3670 | 5814 | 2626 | 4589 | 5848 | 5288 | 2.5 | 108.5 | 55.6 | 52.6 | - | 43 | 20.6 | 20.6 | | 3.6 | 9.2 | 5.4 | 32 | - | 4.2 | - |
| 5 | EHL-162508 | 6833 | 4177 | 4425 | 3712 | 6246 | 4900 | 5316 | 7.4 | 137.3 | 18.4 | 115.6 | 4.6 | 19.9 | 21.3 | 21.3 | | 8.5 | 24.3 | - | 86.6 | 0.6 | - | - |
| 6 | JH-31485 | 6060 | 3167 | 5040 | 3662 | 6690 | 4382 | 5068 | - | 79.9 | 34.9 | 112.7 | 12.1 | 7.2 | 15.6 | 15.6 | | - | - | - | 84.1 | 7.8 | - | - |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Prakash | 6361 | 1761 | 3736 | 1722 | 5971 | 4088 | 4383 | - | - | - | - | - | - | - | - | | 1 | - | - | - | - | - | - |
| 8 | PMH-5 | 6296 | 3360 | 5517 | 1989 | 6208 | 5614 | 5399 | - | 90.8 | 47.7 | 15.5 | 4 | 37.3 | 23.2 | 23.2 | | - | - | - | - | - | - | - |
| | Location Mean | 6572 | 3381 | 5644 | 3050 | 5552 | 5082 | 5246 | | | | | | | | | | | | | | | | |
| | C.D. (5%) | 1300 | 832 | 1487 | 1171 | 305 | 379 | 861 | | | | | | | | | | | | | | | | |
| | C.V. (%) | 11.22 | 13.95 | 14.93 | 21.77 | 3.11 | 4.23 | - | | | | | | | | | | | | | | | | |
| | F (Prob) | 0.098 | 0 | 0 | 0.001 | 0 | 0 | | | | | | | | | | | | | | | | | |
| | Plot Size | 18 | 14.4 | 14.4 | 18 | 13.5 | 14.4 | - | | | | | | | | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 27-06 | 3-07 | 28-06 | 11-07 | 24-06 | 29-06 | - | | | | | | | | | | | | | | | | |
| | Harvest Date | - | 12-10 | - | 11-11 | 11-10 | 16-10 | - | | | | | | | | | | | | | | | | |
| | Irrigation Nos | - | - | - | - | - | 2 | - | | | | | | | | | | | | | | | | |
| | Fertilizer Applied N | 120 | 150 | - | 120 | 120 | 120 | - | | | | | | | | | | | | | | | | |
| | Fertilizer Applied P | 60 | 80 | - | 60 | 60 | 90 | - | | | | | | | | | | | | | | | | |
| | Fertilizer Applied K | 40 | - | - | 40 | 60 | - | - | | | | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI 21.8 %

BR210

Table No. 19 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | MOISTURE % AT HARVEST | | | | | | STAND AT HARVEST ('000/ha) | | | | | | | | | | |
|------------------|------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|--|
| | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | ZN 5 | | BANS | BHIL | CHHI | JHAB | UDAI | ZN 5 | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | ZN 5 | |
| | | | | | | | | Mean | Mean | | | | | | Mean | Mean | | | | | | | | |
| 1 | CMH-10-531 | 73.0 | 68.1 | 79.9 | 80.7 | 79.3 | 88.3 | 78.2 | 15.7 | 22.3 | 21.5 | 22.9 | 26.2 | 21.7 | 61.9 | 72.0 | 67.8 | 50.9 | 59.0 | 53.9 | 60.9 | | | |
| 2 | K-21 | 73.2 | 69.3 | 82.5 | 82.2 | 78.3 | 83.8 | 78.2 | 16.7 | 21.9 | 13.0 | 23.0 | 20.9 | 19.1 | 54.4 | 78.7 | 60.9 | 53.0 | 61.2 | 58.8 | 61.2 | | | |
| 3 | DAS-MH-501 | 72.0 | 69.3 | 76.9 | 86.3 | 80.6 | 80.9 | 77.6 | 16.4 | 21.7 | 20.4 | 22.8 | 22.7 | 20.8 | 60.0 | 69.7 | 58.8 | 54.1 | 62.5 | 55.8 | 60.1 | | | |
| 4 | Bisco-2238 | 71.5 | 70.5 | 83.1 | 89.0 | 82.4 | 80.5 | 79.5 | 17.0 | 20.6 | 14.5 | 22.9 | 20.2 | 19.0 | 59.6 | 71.1 | 66.7 | 60.6 | 62.0 | 60.4 | 63.4 | | | |
| 5 | EHL-162508 | 73.6 | 68.9 | 74.7 | 86.1 | 84.9 | 81.3 | 78.3 | 17.1 | 21.8 | 18.3 | 22.8 | 21.4 | 20.3 | 60.6 | 73.1 | 58.6 | 56.9 | 66.2 | 63.2 | 63.1 | | | |
| 6 | JH-31485 | 73.5 | 70.2 | 80.1 | 84.1 | 82.1 | 80.9 | 78.5 | 16.0 | 22.8 | 19.9 | 23.1 | 22.8 | 20.9 | 54.6 | 76.9 | 60.6 | 53.3 | 63.5 | 59.0 | 61.3 | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Prakash | 73.3 | 70.2 | 82.0 | 83.1 | 83.0 | 80.1 | 78.6 | 15.8 | 21.0 | 17.3 | 23.2 | 21.4 | 19.7 | 61.1 | 69.4 | 44.4 | 49.8 | 64.4 | 53.0 | 57.0 | | | |
| 8 | PMH-5 | 74.1 | 70.4 | 79.8 | 81.8 | 83.5 | 83.8 | 78.9 | 16.2 | 21.0 | 13.9 | 22.8 | 21.0 | 19.0 | 61.7 | 73.4 | 50.7 | 58.9 | 63.5 | 55.1 | 60.5 | | | |
| Loc. Mean | | 73.0 | 69.6 | 79.9 | 84.2 | 81.8 | 82.5 | 78.5 | 16.3 | 21.6 | 17.3 | 23.0 | 22.0 | 20.1 | 59.2 | 73.0 | 58.6 | 54.7 | 62.8 | 57.4 | 60.9 | | | |
| C.D. (5%) | | 4.32 | 2.58 | 2.10 | 1.78 | 2.28 | 0.86 | 2.79 | 0.50 | - | 1.72 | 0.98 | 0.64 | 2.01 | 4.84 | 5.77 | 13.66 | 9.60 | 9.81 | 3.09 | 4.93 | | | |
| C.V. (%) | | 3.38 | 2.12 | 1.50 | 1.21 | 1.59 | 0.60 | 3.03 | 1.75 | - | 5.67 | 2.44 | 1.66 | 7.74 | 4.67 | 4.51 | 13.32 | 10.03 | 8.92 | 3.07 | 6.90 | | | |
| F (Prob) | | 0.90 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.98 | 0.00 | 0.07 | 0.02 | 0.04 | 0.04 | 0.27 | 0.86 | 0.00 | 0.28 | | | |
| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | | | | | | | |
| | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | ZN 5 | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | ZN 5 | | AMBI | BANS | BHIL | CHHI | UDAI | ZN 5 | |
| | | | | | | | | Mean | Mean | | | | | | | Mean | Mean | | | | | | | |
| 1 | CMH-10-531 | 50.7 | 43.0 | 45.0 | 66.0 | 51.3 | 54.7 | 51.8 | 53.7 | 46.0 | 48.0 | 68.0 | 53.3 | 56.3 | 54.2 | 75.0 | 84.3 | 82.3 | 99.0 | 91.3 | 86.4 | | | |
| 2 | K-21 | 44.7 | 43.3 | 46.0 | 57.3 | 51.7 | 51.7 | 49.1 | 46.7 | 46.3 | 49.7 | 59.3 | 53.7 | 54.7 | 51.7 | 70.3 | 82.3 | 83.3 | 94.3 | 88.3 | 83.7 | | | |
| 3 | DAS-MH-501 | 47.3 | 44.0 | 45.0 | 64.0 | 51.7 | 54.0 | 51.0 | 50.3 | 47.0 | 48.0 | 66.0 | 53.7 | 56.0 | 53.5 | 73.0 | 86.3 | 83.3 | 98.3 | 85.7 | 85.3 | | | |
| 4 | Bisco-2238 | 45.7 | 43.0 | 45.3 | 57.3 | 52.0 | 51.0 | 49.1 | 48.0 | 46.0 | 48.3 | 59.3 | 54.0 | 54.0 | 51.6 | 72.0 | 85.3 | 83.3 | 92.0 | 85.3 | 83.6 | | | |
| 5 | EHL-162508 | 49.7 | 41.7 | 44.0 | 59.3 | 52.7 | 53.3 | 50.1 | 52.7 | 44.7 | 46.0 | 61.3 | 54.7 | 55.3 | 52.4 | 76.3 | 82.7 | 81.0 | 96.7 | 86.3 | 84.6 | | | |
| 6 | JH-31485 | 48.7 | 42.3 | 45.3 | 60.3 | 52.3 | 53.7 | 50.4 | 51.7 | 45.3 | 48.7 | 62.3 | 54.3 | 54.7 | 52.8 | 79.0 | 82.7 | 82.0 | 96.0 | 85.7 | 85.1 | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Prakash | 43.7 | 42.7 | 44.7 | 58.7 | 51.0 | 51.7 | 48.7 | 45.7 | 45.7 | 48.3 | 60.0 | 53.3 | 54.0 | 51.2 | 74.0 | 81.0 | 82.0 | 96.3 | 84.3 | 83.5 | | | |
| 8 | PMH-5 | 43.7 | 42.0 | 46.0 | 57.0 | 50.7 | 52.0 | 48.6 | 45.7 | 45.0 | 50.0 | 59.3 | 53.3 | 54.0 | 51.2 | 75.3 | 82.3 | 83.0 | 92.3 | 89.7 | 84.5 | | | |
| Loc. Mean | | 46.8 | 42.8 | 45.2 | 60.0 | 51.7 | 52.8 | 49.8 | 49.3 | 45.8 | 48.4 | 62.0 | 53.8 | 54.9 | 52.3 | 74.4 | 83.4 | 82.5 | 95.6 | 87.1 | 84.6 | | | |
| C.D. (5%) | | 0.36 | 1.09 | 2.17 | 1.20 | 0.93 | 1.29 | 1.93 | 0.54 | 1.09 | 3.26 | 1.34 | 1.11 | 1.30 | 2.17 | 0.52 | 2.23 | 3.96 | 1.20 | 1.53 | 2.80 | | | |
| C.V. (%) | | 0.44 | 1.46 | 2.74 | 1.14 | 1.02 | 1.40 | 3.30 | 0.63 | 1.36 | 3.84 | 1.24 | 1.17 | 1.35 | 3.54 | 0.40 | 1.53 | 2.74 | 0.72 | 1.01 | 2.56 | | | |
| F (Prob) | | 0.00 | 0.01 | 0.55 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.33 | 0.00 | 0.15 | 0.01 | 0.06 | 0.00 | 0.00 | 0.87 | 0.00 | 0.00 | 0.42 | | | |

Table No. 19 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | ZN 5 Mean | EAR HEIGHT(cm) | | | | | | ZN 5 Mean |
|------------------|------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | | AMBI | BANS | BHIL | CHHI | UDAI | | |
| 1 | CMH-10-531 | 255.1 | 158.9 | 157.2 | 155.0 | 163.7 | 198.3 | 181.4 | 108.9 | 72.1 | 72.8 | 66.7 | 100.0 | 84.1 | |
| 2 | K-21 | 254.9 | 170.6 | 151.1 | 116.7 | 155.3 | 190.0 | 173.1 | 92.3 | 80.5 | 65.0 | 56.7 | 81.7 | 75.2 | |
| 3 | DAS-MH-501 | 289.5 | 156.9 | 159.4 | 150.0 | 153.5 | 186.7 | 182.7 | 84.6 | 63.9 | 71.7 | 55.0 | 75.0 | 70.0 | |
| 4 | Bisco-2238 | 268.5 | 163.7 | 165.6 | 140.0 | 157.1 | 200.0 | 182.5 | 81.2 | 65.8 | 72.8 | 53.3 | 78.3 | 70.3 | |
| 5 | EHL-162508 | 288.5 | 162.3 | 170.0 | 143.3 | 179.9 | 213.3 | 192.9 | 116.6 | 63.9 | 73.3 | 63.3 | 97.3 | 82.9 | |
| 6 | JH-31485 | 272.7 | 153.7 | 168.3 | 140.0 | 178.7 | 176.7 | 181.7 | 121.9 | 65.8 | 66.7 | 68.3 | 81.7 | 80.9 | |
| CHECKS | | | | | | | | | | | | | | | |
| 7 | Prakash | 207.4 | 122.1 | 173.9 | 118.3 | 155.4 | 160.0 | 156.2 | 102.7 | 55.7 | 78.9 | 48.3 | 76.7 | 72.5 | |
| 8 | PMH-5 | 276.7 | 148.5 | 159.4 | 131.7 | 160.4 | 180.0 | 176.1 | 92.7 | 60.6 | 71.7 | 53.3 | 78.3 | 71.3 | |
| Loc. Mean | | 264.2 | 154.6 | 163.1 | 136.9 | 163.0 | 188.1 | 178.3 | 100.1 | 66.0 | 71.6 | 58.1 | 83.6 | 75.9 | |
| C.D. (5%) | | 68.17 | 22.32 | 23.22 | 15.24 | 7.41 | 25.30 | 15.40 | 21.36 | 21.08 | 17.83 | 8.08 | 12.76 | 10.57 | |
| C.V. (%) | | 14.74 | 8.25 | 8.13 | 6.36 | 2.60 | 7.68 | 7.37 | 12.18 | 18.23 | 14.22 | 7.94 | 8.71 | 10.75 | |
| F (Prob) | | 0.29 | 0.01 | 0.48 | 0.00 | 0.00 | 0.02 | 0.00 | 0.01 | 0.38 | 0.80 | 0.00 | 0.00 | 0.03 | |

Table No. 21 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | MOISTURE % AT HARVEST | | | | | | STAND AT HARVEST ('000/ha) | | | | | | DAYS TO 50% POLLEN SHED | | | | | | |
|------------------|--------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|--|
| | | BAHR BHUB DHOL | | | RANC VARA | | | BAHR BHUB DHOL | | | RANC VARA | | | BAHR BHUB DHOL | | | RANC VARA | | | BAHR BHUB DHOL | | | RANC VARA | | | |
| | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | | | | |
| | | Mean | | | | | Mean | | | | | Mean | | | | | Mean | | | | | Mean | | | | |
| 1 | K-75 | 73.2 | 78.3 | 81.0 | 84.8 | 75.5 | 78.6 | 20.1 | 17.1 | 20.3 | 24.6 | 30.9 | 22.6 | 66.7 | 65.8 | 65.5 | 72.6 | 59.5 | 66.0 | 47.0 | 46.8 | 51.0 | 47.7 | 51.3 | 48.7 | |
| 2 | FH-3556 | 80.1 | 80.2 | 80.0 | 85.2 | 81.0 | 81.3 | 19.8 | 17.0 | 20.4 | 24.3 | 27.4 | 21.8 | 68.4 | 65.5 | 69.2 | 71.2 | 64.1 | 67.7 | 49.0 | 44.5 | 50.3 | 49.0 | 48.5 | 48.3 | |
| 3 | FH-3558 | 79.9 | 80.1 | 82.1 | 84.4 | 81.8 | 81.6 | 19.0 | 17.4 | 20.8 | 24.2 | 25.8 | 21.4 | 69.3 | 66.1 | 84.5 | 70.8 | 66.5 | 71.4 | 43.0 | 42.5 | 46.3 | 47.0 | 45.8 | 44.9 | |
| 4 | Vivek QPM 9 (Filler) CHECKS | 76.5 | 79.9 | 80.0 | 88.8 | 77.0 | 80.4 | 18.8 | 17.2 | 21.0 | 22.2 | 28.9 | 21.6 | 69.8 | 65.6 | 64.1 | 76.4 | 62.7 | 67.7 | 43.0 | 42.5 | 49.7 | 45.3 | 46.3 | 45.4 | |
| 5 | Vivek QPM-9 | 77.5 | 79.9 | 79.6 | 86.0 | 76.3 | 79.9 | 18.9 | 16.8 | 20.3 | 22.1 | 26.1 | 20.8 | 70.8 | 66.7 | 79.6 | 75.0 | 63.7 | 71.2 | 45.5 | 42.3 | 48.7 | 46.0 | 47.3 | 45.9 | |
| 6 | Vivek Hybrid-9 | 73.4 | 80.0 | 81.0 | 85.0 | 75.8 | 79.0 | 19.2 | 17.1 | 22.2 | 21.6 | 25.5 | 21.1 | 70.0 | 66.0 | 77.1 | 75.3 | 66.1 | 70.9 | 39.0 | 42.3 | 49.7 | 45.3 | 46.0 | 44.5 | |
| Loc. Mean | | 76.7 | 79.7 | 80.6 | 85.7 | 77.9 | 80.1 | 19.3 | 17.1 | 20.8 | 23.2 | 27.4 | 21.6 | 69.2 | 65.9 | 73.3 | 73.6 | 63.8 | 69.2 | 44.4 | 43.5 | 49.3 | 46.7 | 47.5 | 46.3 | |
| C.D. (5%) | | 1.74 | 0.58 | 0.81 | 3.52 | 1.15 | 2.39 | 0.66 | 0.17 | 1.72 | 3.77 | 1.34 | 1.52 | 4.49 | 2.48 | 25.07 | 7.69 | 3.30 | 4.94 | 1.79 | 0.85 | 1.81 | 2.04 | 1.40 | 1.96 | |
| C.V. (%) | | 1.50 | 0.48 | 0.55 | 2.26 | 0.98 | 2.26 | 2.28 | 0.64 | 4.53 | 8.93 | 3.24 | 5.33 | 4.31 | 2.49 | 18.79 | 5.74 | 3.44 | 5.41 | 2.67 | 1.30 | 2.02 | 2.40 | 1.96 | 3.21 | |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.09 | 0.00 | 0.00 | 0.20 | 0.35 | 0.00 | 0.26 | 0.47 | 0.92 | 0.43 | 0.51 | 0.01 | 0.14 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | |

| S.No. | PEDIGREE | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | | | PLANT HEIGHT(cm) | | | | | | EAR HEIGHT(cm) | | | | | | |
|------------------|--------------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|-------------|-------------|--|
| | | BAHR BHUB DHOL | | | RANC VARA | | | BAHR BHUB DHOL | | | RANC VARA | | | BAHR BHUB DHOL | | | RANC VARA | | | BAHR BHUB DHOL | | | RANC VARA | | | |
| | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | Zn 3 | | | | | | |
| | | Mean | | | | | Mean | | | | | Mean | | | | | Mean | | | | | Mean | | | | |
| 1 | K-75 | 49.0 | 48.3 | 52.3 | 51.3 | 56.3 | 51.4 | 75.8 | 84.5 | 83.3 | 94.3 | 89.0 | 85.4 | 191.2 | 164.4 | 176.3 | 193.3 | 166.5 | 178.3 | 82.9 | 78.5 | 95.7 | 88.9 | 79.0 | 85.0 | |
| 2 | FH-3556 | 51.0 | 46.3 | 51.7 | 52.7 | 53.8 | 51.1 | 73.0 | 79.5 | 84.3 | 94.3 | 88.3 | 83.9 | 151.5 | 152.7 | 166.2 | 171.8 | 141.5 | 156.7 | 64.2 | 78.4 | 91.7 | 75.5 | 60.0 | 74.0 | |
| 3 | FH-3558 | 45.0 | 46.0 | 49.0 | 51.0 | 52.3 | 48.7 | 73.0 | 77.5 | 78.0 | 93.0 | 81.3 | 80.6 | 157.3 | 154.3 | 166.0 | 181.9 | 158.0 | 163.5 | 79.2 | 79.5 | 87.7 | 80.5 | 69.0 | 79.1 | |
| 4 | Vivek QPM 9 (Filler) CHECKS | 45.0 | 46.3 | 51.3 | 49.3 | 51.0 | 48.6 | 72.0 | 76.5 | 81.0 | 93.0 | 86.8 | 81.9 | 168.6 | 154.8 | 171.2 | 194.3 | 175.0 | 172.8 | 59.0 | 63.6 | 84.5 | 67.9 | 79.0 | 70.8 | |
| 5 | Vivek QPM-9 | 46.8 | 45.3 | 50.3 | 50.0 | 52.8 | 49.0 | 71.0 | 75.8 | 80.0 | 93.7 | 86.3 | 81.3 | 161.8 | 152.1 | 165.5 | 191.5 | 164.0 | 167.0 | 60.8 | 64.5 | 84.0 | 70.0 | 65.5 | 69.0 | |
| 6 | Vivek Hybrid-9 | 41.0 | 46.0 | 51.0 | 49.7 | 51.0 | 47.7 | 70.0 | 76.3 | 80.3 | 93.0 | 86.5 | 81.2 | 169.1 | 159.3 | 180.5 | 186.5 | 171.5 | 173.4 | 66.8 | 65.3 | 82.3 | 72.5 | 66.5 | 70.7 | |
| Loc. Mean | | 46.3 | 46.3 | 50.9 | 50.7 | 52.8 | 49.4 | 72.5 | 78.3 | 81.2 | 93.6 | 86.3 | 82.4 | 166.6 | 156.3 | 170.9 | 186.5 | 162.8 | 168.6 | 68.8 | 71.6 | 87.6 | 75.9 | 69.8 | 74.7 | |
| C.D. (5%) | | 1.88 | 1.05 | 1.47 | 1.66 | 1.46 | 1.98 | 2.12 | 1.52 | 2.91 | 1.47 | 2.36 | 2.15 | 17.33 | 8.32 | 21.47 | 15.46 | 5.20 | 8.46 | 4.41 | 5.25 | 13.81 | 16.33 | 3.26 | 7.09 | |
| C.V. (%) | | 2.69 | 1.51 | 1.59 | 1.80 | 1.83 | 3.03 | 1.94 | 1.28 | 1.97 | 0.87 | 1.81 | 1.98 | 6.90 | 3.53 | 6.90 | 4.55 | 2.12 | 3.81 | 4.26 | 4.86 | 8.66 | 11.83 | 3.09 | 7.19 | |
| F (Prob) | | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.17 | 0.00 | 0.00 | 0.00 | 0.05 | 0.54 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.13 | 0.00 | 0.00 | |

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TABLE No. 22: PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI IN AVT2 TRIAL No. TR72Z4 (AVT2-EX--Z4) DURING KHARIF (2013)

| SI No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM-9 | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-9 | | | | | | | | | | | | | | | |
|----------------------|-------------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|------|--|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|---|--|--|--|
| | PEDIGREE | | | | | | | | | | | | | Zn 4 | | | | | | | | Zn 4 | | | | | | | | | | | | | | | |
| | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R | MAND | R | VAGA | R | MEAN | R | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | MEAN | | | | | |
| 1 | FH-3556 | 11294 | 3 | 9407 | 2 | 8208 | 2 | 6866 | 2 | 7298 | 2 | 7823 | 2 | 4384 | 1 | 7897 | 2 | 11.9 | 27.3 | 73.8 | 42.9 | 25.8 | 34.2 | 26.1 | 31.2 | - | 26.8 | 43.2 | 40.1 | 13.3 | 28 | 51.4 | 21.9 | | | | |
| 2 | Vivek QPM-9 (Filler) | 9563 | 6 | 7544 | 4 | 3788 | 6 | 4756 | 5 | 6221 | 5 | 6466 | 3 | 3386 | 3 | 5960 | 6 | - | 2.1 | - | - | 7.2 | 10.9 | - | - | - | 1.7 | - | - | - | 5.8 | 17 | - | | | | |
| 3 | vivek Hybrid-9(Filler) | 11558 | 2 | 7768 | 3 | 5178 | 4 | 4475 | 6 | 6312 | 4 | 5818 | 6 | 3113 | 5 | 6317 | 4 | 14.5 | 5.1 | 9.6 | - | 8.8 | - | - | 5 | - | 4.7 | - | - | - | 7.5 | - | | | | | |
| 4 | Bio-9681(Filler) | 10801 | 4 | 10596 | 1 | 8496 | 1 | 7513 | 1 | 8124 | 1 | 8006 | 1 | 3186 | 4 | 8103 | 1 | 7 | 43.4 | 79.9 | 56.3 | 40 | 37.3 | - | 34.7 | - | 42.8 | 48.2 | 53.3 | 26.1 | 31 | 10 | 25.1 | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Vivek QPM-9 | 10095 | 5 | 7388 | 6 | 4724 | 5 | 4807 | 4 | 5801 | 6 | 5831 | 5 | 3477 | 2 | 6017 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.1 | - | | | | |
| 6 | Vivek Hybrid-9 | 11837 | 1 | 7419 | 5 | 5733 | 3 | 4901 | 3 | 6440 | 3 | 6112 | 4 | 2895 | 6 | 6477 | 3 | 17.2 | 0.4 | 21.4 | 2 | 11 | 4.8 | - | 7.6 | - | - | - | - | - | - | - | - | - | | | |
| Location Mean | | 10858 | 8354 | 6021 | 5553 | 6699 | 6676 | 3407 | 6795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 1469 | 392 | 1785 | 508 | 952 | 463 | 970 | 934 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 8.92 | 3.1 | 19.55 | 6.03 | 9.37 | 4.57 | 18.78 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0.044 | 0 | 0 | 0 | 0.001 | 0 | 0.065 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 18 | 14.4 | 18 | 18 | 18 | 16.8 | 14.4 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 8-07 | 9-07 | 25-06 | 5-07 | 28-06 | 23-07 | 8-07 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 9-11 | 10-10 | 10-10 | 30-10 | 11-12 | 13-12 | 18-10 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | 6 | 9 | 2 | - | - | 8 | 9 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 150 | 150 | 200 | 180 | 100 | 150 | 150 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 75 | 75 | 60 | 60 | 50 | 75 | 75 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 37.5 | 75 | 50 | 30 | 30 | 40 | 75 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table No. 22 (Continued)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | | | | MOISTURE % AT HARVEST | | | | | | | | STAND AT HARVEST ('000/ha) | | | | | | | |
|-------|------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 4 | | | | | | | | ZN 4 | | | | | | | | ZN 4 | | | | | | | |
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | FH-3556 | 85.2 | 82.9 | 78.3 | 83.3 | 86.4 | 82.8 | 81.3 | 82.9 | 21.0 | 15.6 | 26.2 | 8.9 | 11.8 | 13.2 | 15.8 | 17.3 | 64.4 | 66.1 | 64.4 | 54.7 | 64.9 | 60.4 | 52.3 | 61.0 |
| 2 | Vivek QPM-9 (Filler) | 84.0 | 85.2 | 79.2 | 86.4 | 85.9 | 82.1 | 83.5 | 83.7 | 18.5 | 16.0 | 23.8 | 9.1 | 10.2 | 12.6 | 13.8 | 15.8 | 58.3 | 66.7 | 62.5 | 46.1 | 66.5 | 56.4 | 44.8 | 57.3 |
| 3 | vivek Hybrid-9(Filler) | 84.4 | 82.0 | 80.2 | 87.9 | 87.8 | 81.9 | 77.9 | 83.1 | 19.1 | 16.1 | 24.4 | 7.4 | 10.4 | 13.0 | 15.0 | 16.3 | 65.0 | 66.1 | 63.8 | 57.4 | 65.8 | 60.1 | 43.8 | 60.3 |
| 4 | Bio-9681(Filler) | 83.7 | 85.7 | 77.4 | 83.5 | 85.0 | 81.7 | 79.2 | 82.3 | 20.8 | 16.5 | 25.8 | 10.7 | 11.0 | 13.6 | 17.0 | 17.4 | 59.3 | 66.5 | 63.5 | 53.3 | 65.6 | 60.3 | 45.1 | 59.1 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Vivek QPM-9 | 84.3 | 83.7 | 81.9 | 86.7 | 87.0 | 81.8 | 82.7 | 84.0 | 18.0 | 15.9 | 26.2 | 11.8 | 10.4 | 13.1 | 15.7 | 16.5 | 60.1 | 66.5 | 64.4 | 51.5 | 66.4 | 61.9 | 43.2 | 59.2 |
| 6 | Vivek Hybrid-9 | 84.6 | 82.3 | 78.8 | 86.6 | 85.8 | 81.9 | 80.6 | 82.9 | 16.6 | 16.1 | 22.9 | 8.5 | 10.5 | 12.7 | 13.7 | 15.4 | 62.6 | 66.0 | 63.6 | 59.3 | 64.4 | 61.6 | 50.2 | 61.1 |
| | Loc. Mean | 84.4 | 83.6 | 79.3 | 85.7 | 86.3 | 82.0 | 80.9 | 83.2 | 19.0 | 16.0 | 24.9 | 9.4 | 10.7 | 13.0 | 15.1 | 16.5 | 61.6 | 66.3 | 63.7 | 53.7 | 65.6 | 60.1 | 46.6 | 59.7 |
| | C.D. (5%) | 0.36 | 0.65 | 1.40 | 4.25 | 0.31 | 1.49 | 0.93 | 1.52 | 2.41 | 0.53 | 1.15 | 4.44 | 0.71 | 0.64 | 1.33 | 0.96 | 5.24 | 0.44 | 3.63 | 4.87 | 1.96 | 3.37 | 7.50 | 2.60 |
| | C.V. (%) | 0.28 | 0.52 | 1.17 | 3.29 | 0.24 | 1.20 | 0.77 | 1.67 | 8.41 | 2.20 | 3.07 | 31.46 | 4.41 | 3.26 | 5.84 | 4.89 | 5.64 | 0.44 | 3.78 | 6.01 | 1.98 | 3.71 | 10.69 | 3.99 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.64 | 0.00 | 0.25 | 0.01 | 0.04 | 0.00 | 0.38 | 0.00 | 0.06 | 0.00 | 0.00 | 0.07 | 0.03 | 0.87 | 0.00 | 0.22 | 0.04 | 0.10 | 0.05 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 31.5%

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | DAYS TO 50% SILKING | | | | | | | | DAYS TO 75% DRY HUSK | | | | | | | |
|-------|------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 4 | | | | | | | | ZN 4 | | | | | | | | ZN 4 | | | | | | | |
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | Mean |
| 1 | FH-3556 | 56.3 | 50.3 | 49.3 | 48.3 | 57.0 | 48.0 | 50.0 | 51.3 | 56.8 | 52.3 | 51.3 | 51.3 | 58.3 | 49.8 | 52.8 | 53.2 | 100.8 | 92.0 | 88.3 | 79.3 | 88.3 | 86.0 | 89.0 | 89.1 |
| 2 | Vivek QPM-9 (Filler) | 56.0 | 43.8 | 48.0 | 48.0 | 56.3 | 45.8 | 48.3 | 49.4 | 56.0 | 45.8 | 51.0 | 51.0 | 57.3 | 47.0 | 51.3 | 51.3 | 98.5 | 84.8 | 83.8 | 79.0 | 87.3 | 86.0 | 90.0 | 87.0 |
| 3 | vivek Hybrid-9(Filler) | 53.8 | 45.0 | 49.3 | 48.0 | 51.8 | 45.8 | 49.5 | 49.0 | 54.3 | 47.3 | 51.8 | 51.0 | 53.3 | 47.0 | 52.0 | 50.9 | 99.3 | 87.8 | 85.8 | 79.0 | 83.3 | 85.5 | 87.0 | 86.8 |
| 4 | Bio-9681(Filler) | 60.3 | 53.5 | 52.0 | 49.5 | 58.5 | 47.5 | 53.0 | 53.5 | 61.5 | 55.5 | 54.8 | 52.3 | 59.5 | 49.0 | 56.3 | 55.5 | 101.0 | 95.8 | 90.0 | 79.0 | 89.3 | 89.0 | 87.8 | 90.3 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Vivek QPM-9 | 55.0 | 44.0 | 48.5 | 48.0 | 55.5 | 45.5 | 49.8 | 49.5 | 55.0 | 46.0 | 50.8 | 51.0 | 56.5 | 46.8 | 52.3 | 51.2 | 98.5 | 85.0 | 83.5 | 80.3 | 86.5 | 85.0 | 88.0 | 86.7 |
| 6 | Vivek Hybrid-9 | 55.3 | 42.0 | 47.0 | 48.0 | 52.0 | 45.3 | 48.0 | 48.2 | 56.0 | 44.0 | 50.0 | 51.0 | 53.0 | 47.0 | 51.5 | 50.4 | 99.8 | 82.0 | 84.5 | 79.3 | 83.0 | 84.8 | 87.3 | 85.8 |
| | Loc. Mean | 56.1 | 46.4 | 49.0 | 48.3 | 55.2 | 46.3 | 49.8 | 50.1 | 56.6 | 48.5 | 51.6 | 51.3 | 56.3 | 47.8 | 52.7 | 52.1 | 99.6 | 87.9 | 86.0 | 79.3 | 86.3 | 86.0 | 88.2 | 87.6 |
| | C.D. (5%) | 3.38 | 0.78 | 1.16 | 0.50 | 2.52 | 0.94 | 2.12 | 1.69 | 3.77 | 0.82 | 1.28 | 0.45 | 2.39 | 1.00 | 2.00 | 1.73 | 3.47 | 0.52 | 2.19 | 0.81 | 2.44 | 1.10 | 1.22 | 2.23 |
| | C.V. (%) | 4.00 | 1.11 | 1.57 | 0.68 | 3.03 | 1.34 | 2.83 | 3.09 | 4.42 | 1.13 | 1.65 | 0.58 | 2.82 | 1.40 | 2.52 | 3.03 | 2.31 | 0.39 | 1.69 | 0.56 | 1.87 | 0.85 | 0.92 | 2.33 |
| | F (Prob) | 0.02 | 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 | 0.00 | 0.52 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No. 22 (Continued)

| S.No. | PEDIGREE | PLANT HEIGHT(cm) | | | | | | | EAR HEIGHT(cm) | | | | | | | |
|------------------|------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | | ARBH | COIM | HYDE | KARI | KOLH | MAND | VAGA | ZN 4 Mean | ARBH | COIM | HYDE | KOLH | MAND | VAGA | ZN 4 Mean |
| 1 | FH-3556 | 147.5 | 179.9 | 174.5 | 140.0 | 151.3 | 198.8 | 114.8 | 158.1 | 64.5 | 86.3 | 61.0 | 42.5 | 91.3 | 50.6 | 66.0 |
| 2 | Vivek QPM-9 (Filler) | 163.0 | 181.9 | 179.5 | 155.3 | 170.0 | 206.0 | 135.2 | 170.1 | 78.0 | 86.6 | 62.5 | 48.8 | 97.8 | 54.5 | 71.3 |
| 3 | vivek Hybrid-9(Filler) | 164.5 | 181.8 | 179.8 | 148.3 | 162.5 | 198.0 | 135.4 | 167.2 | 78.0 | 75.9 | 57.0 | 50.0 | 91.8 | 52.7 | 67.5 |
| 4 | Bio-9681(Filler) | 193.5 | 191.6 | 205.8 | 199.0 | 198.8 | 214.5 | 154.3 | 193.9 | 85.0 | 102.7 | 71.8 | 47.5 | 100.0 | 59.9 | 77.8 |
| CHECKS | | | | | | | | | | | | | | | | |
| 5 | Vivek QPM-9 | 168.5 | 168.9 | 186.3 | 169.3 | 176.3 | 196.3 | 139.2 | 172.1 | 80.0 | 91.8 | 64.8 | 53.8 | 93.8 | 54.2 | 73.0 |
| 6 | Vivek Hybrid-9 | 154.5 | 168.5 | 184.3 | 158.5 | 158.8 | 205.0 | 114.2 | 163.4 | 72.0 | 80.6 | 58.0 | 45.0 | 96.8 | 51.0 | 67.2 |
| Loc. Mean | | 165.3 | 178.7 | 185.0 | 161.7 | 169.6 | 203.1 | 132.2 | 170.8 | 76.3 | 87.3 | 62.5 | 47.9 | 95.2 | 53.8 | 70.5 |
| C.D. (5%) | | 11.22 | 10.10 | 10.31 | 7.04 | 19.31 | 16.74 | 16.48 | 8.55 | 6.35 | 8.45 | 6.10 | 9.33 | 10.15 | 7.33 | 4.91 |
| C.V. (%) | | 4.51 | 3.75 | 3.70 | 2.89 | 7.56 | 5.47 | 8.27 | 4.59 | 5.53 | 6.42 | 6.47 | 12.92 | 7.07 | 9.04 | 5.86 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.41 | 0.15 | 0.00 |

TABLE No. 23: PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, CHHINDWARA, JHABUA, UDAIPUR IN AVT2 TRIAL No. TR72Z5 (AVT2-EX-Z5) DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE | | | | | | | | | | |
|-------|----------------------------------|-------------------------------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|------------------------------------|-------------|---|------|------|------|------|------|------------------------------------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | | Vivek QPM-9 | | | | ZN 5 | | | | Vivek Hybrid-9 | | | | ZN 5 | | | | | | |
| | | AMBI | R | BANS | R | BHIL | R | CHHI | R | JHAB | R | UDAI | R | MEAN | R | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | MEAN | OV'L | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | MEAN | OV'L |
| 1 | K-75 | 6373 | 5 | 4517 | 3 | 6046 | 3 | 2228 | 4 | 6271 | 1 | 8033 | 1 | 5578 | 2 | - | 34.2 | 34 | - | 19.9 | 40.7 | 21.2 | 21.2 | - | - | - | 3.2 | 13.8 | 93.1 | 11.9 | 11.9 |
| 2 | FH-3555 | 5920 | 6 | 3977 | 4 | 5917 | 4 | 1676 | 6 | 5799 | 2 | 5144 | 5 | 4739 | 4 | - | 18.1 | 31.2 | - | 10.9 | - | 3 | 3 | - | - | - | - | 5.2 | 23.7 | - | - |
| 3 | FH-3554 | 8984 | 1 | 5123 | 1 | 6417 | 1 | 3262 | 1 | 5053 | 5 | 6420 | 2 | 5876 | 1 | 38.5 | 52.1 | 42.3 | 41.2 | - | 12.4 | 27.7 | 27.7 | 31.2 | 0.4 | 4.8 | 51.1 | - | 54.4 | 17.9 | 17.9 |
| 4 | vivek Hybrid-9(Filler) CHECKS | 6843 | 3 | 3625 | 5 | 4471 | 6 | 2295 | 3 | 4368 | 6 | 5658 | 4 | 4543 | 6 | 5.5 | 7.6 | - | - | - | - | - | - | - | - | - | 6.3 | - | 36 | - | - |
| 5 | Vivek QPM-9 | 6485 | 4 | 3367 | 6 | 4511 | 5 | 2310 | 2 | 5230 | 4 | 5710 | 3 | 4602 | 5 | - | - | - | - | - | - | - | - | - | - | - | 6.9 | - | 37.3 | - | - |
| 6 | Vivek Hybrid-9 | 6847 | 2 | 5100 | 2 | 6122 | 2 | 2159 | 5 | 5513 | 3 | 4159 | 6 | 4984 | 3 | 5.6 | 51.5 | 35.7 | - | 5.4 | - | 8.3 | 8.3 | - | - | - | - | - | - | - | - |
| | Location Mean | 6909 | | 4285 | | 5580 | | 2322 | | 5372 | | 5854 | | 5054 | | | | | | | | | | | | | | | | | |
| | C.D. (5%) | 1031 | | 658 | | 1593 | | 613 | | 275 | | 389 | | 760 | | | | | | | | | | | | | | | | | |
| | C.V. (%) | 9.84 | | 10.13 | | 18.83 | | 14.28 | | 3.38 | | 4.38 | | - | | | | | | | | | | | | | | | | | |
| | F (Prob) | 0 | | 0 | | 0.04 | | 0.002 | | 0 | | 0 | | | | | | | | | | | | | | | | | | | |
| | Plot Size | 14.4 | | 14.4 | | 14.4 | | 18 | | 13.5 | | 14.4 | | - | | | | | | | | | | | | | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 5-07 | | 3-07 | | 29-06 | | 11-07 | | 24-06 | | 30-06 | | - | | | | | | | | | | | | | | | | | |
| | Harvest Date | - | | 12-10 | | - | | 11-11 | | 8-10 | | 16-10 | | - | | | | | | | | | | | | | | | | | |
| | Irrigation Nos | - | | - | | - | | - | | - | | 2 | | - | | | | | | | | | | | | | | | | | |
| | Fertilizer Applied N | 100 | | 150 | | - | | 120 | | 120 | | 90 | | - | | | | | | | | | | | | | | | | | |
| | Fertilizer Applied P | 50 | | 80 | | - | | 60 | | 60 | | 60 | | - | | | | | | | | | | | | | | | | | |
| | Fertilizer Applied K | 30 | | - | | - | | 40 | | 60 | | - | | - | | | | | | | | | | | | | | | | | |

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Table No. 23 (Continued)

| S.No. PEDIGREE | GRAIN SHELLING % | | | | | | | MOISTURE % AT HARVEST | | | | | | | STAND AT HARVEST ('000/ha) | | | | | | |
|------------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|--|
| | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | Mean | BANS | BHIL | CHHI | JHAB | UDAI | Mean | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | Mean | |
| 1 K-75 | 73.4 | 70.7 | 77.1 | 78.3 | 81.6 | 83.2 | 77.4 | 15.5 | 21.6 | 19.1 | 21.9 | 22.2 | 20.0 | 69.6 | 69.4 | 63.7 | 58.3 | 63.1 | 65.3 | 64.9 | |
| 2 FH-3555 | 74.3 | 71.0 | 82.9 | 84.3 | 81.9 | 81.2 | 79.3 | 16.1 | 21.8 | 18.1 | 22.3 | 23.2 | 20.3 | 65.5 | 65.8 | 48.3 | 38.5 | 63.0 | 66.0 | 57.8 | |
| 3 FH-3554 | 73.1 | 71.5 | 81.1 | 80.6 | 81.6 | 81.0 | 78.1 | 16.0 | 21.9 | 18.0 | 21.7 | 21.4 | 19.8 | 80.9 | 69.6 | 67.0 | 56.1 | 63.1 | 59.7 | 66.1 | |
| 4 vivek Hybrid-9(Filler) CHECKS | 72.0 | 71.3 | 79.5 | 85.4 | 81.4 | 82.3 | 78.6 | 16.0 | 21.2 | 14.2 | 21.8 | 18.8 | 18.4 | 73.6 | 67.7 | 57.3 | 57.2 | 60.6 | 50.3 | 61.1 | |
| 5 Vivek QPM-9 | 74.0 | 70.3 | 81.7 | 88.4 | 82.2 | 80.3 | 79.5 | 16.0 | 21.7 | 13.5 | 21.6 | 19.8 | 18.5 | 68.8 | 67.7 | 56.1 | 51.7 | 62.2 | 54.3 | 60.1 | |
| 6 Vivek Hybrid-9 | 71.8 | 73.1 | 80.5 | 85.0 | 86.2 | 82.7 | 79.9 | 16.0 | 21.8 | 13.8 | 21.3 | 19.7 | 18.5 | 76.0 | 67.5 | 64.2 | 59.1 | 60.0 | 52.4 | 63.2 | |
| Loc. Mean | 73.1 | 71.3 | 80.5 | 83.7 | 82.5 | 81.8 | 78.8 | 15.9 | 21.7 | 16.1 | 21.7 | 20.8 | 19.3 | 72.4 | 68.0 | 59.4 | 53.5 | 62.0 | 58.0 | 62.2 | |
| C.D. (5%) | 2.51 | 0.91 | 1.77 | 1.18 | 2.06 | 0.36 | 2.30 | 0.30 | - | 0.89 | 0.89 | 0.62 | 1.57 | 5.25 | 4.83 | 9.91 | 6.32 | 6.38 | 4.96 | 6.07 | |
| C.V. (%) | 2.28 | 0.84 | 1.46 | 0.78 | 1.66 | 0.29 | 2.46 | 1.24 | - | 3.02 | 2.73 | 1.97 | 6.19 | 4.81 | 4.71 | 11.07 | 6.50 | 6.82 | 5.68 | 8.21 | |
| F (Prob) | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.01 | 0.00 | 0.00 | 0.31 | 0.00 | 0.05 | 0.00 | 0.58 | 0.01 | 0.00 | 0.82 | 0.00 | 0.08 | |

| S.No. PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | DAYS TO 50% SILKING | | | | | | | DAYS TO 75% DRY HUSK | | | | | | |
|------------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|--|
| | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | Mean | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | |
| 1 K-75 | 52.8 | 40.3 | 46.3 | 57.0 | 50.0 | 50.8 | 49.5 | 54.8 | 43.3 | 50.3 | 59.0 | 53.0 | 52.8 | 52.2 | 81.3 | 76.5 | 83.3 | 96.7 | 88.3 | 85.2 | |
| 2 FH-3555 | 53.3 | 40.8 | 46.0 | 57.0 | 51.5 | 50.8 | 49.9 | 55.8 | 43.8 | 50.5 | 58.7 | 54.5 | 52.5 | 52.6 | 91.0 | 74.0 | 85.8 | 97.7 | 88.3 | 87.3 | |
| 3 FH-3554 | 53.0 | 39.8 | 45.5 | 55.0 | 49.3 | 50.3 | 48.8 | 55.5 | 42.5 | 48.3 | 56.7 | 52.3 | 52.5 | 51.3 | 81.8 | 73.3 | 82.0 | 91.0 | 84.3 | 82.5 | |
| 4 vivek Hybrid-9(Filler) CHECKS | 49.0 | 40.5 | 44.0 | 52.3 | 48.8 | 48.3 | 47.1 | 51.5 | 43.0 | 47.0 | 54.3 | 52.0 | 50.0 | 49.6 | 85.0 | 74.8 | 82.0 | 93.3 | 84.3 | 83.9 | |
| 5 Vivek QPM-9 | 49.0 | 40.5 | 45.3 | 54.0 | 47.8 | 48.8 | 47.5 | 52.0 | 43.0 | 48.3 | 55.7 | 51.5 | 50.5 | 50.2 | 87.0 | 75.5 | 81.8 | 93.3 | 86.3 | 84.8 | |
| 6 Vivek Hybrid-9 | 48.5 | 39.8 | 44.0 | 53.0 | 49.0 | 47.3 | 46.9 | 50.5 | 42.8 | 46.3 | 54.7 | 52.0 | 49.5 | 49.3 | 83.8 | 74.5 | 81.0 | 93.3 | 82.5 | 83.0 | |
| Loc. Mean | 50.9 | 40.3 | 45.2 | 54.7 | 49.4 | 49.3 | 48.3 | 53.3 | 43.0 | 48.4 | 56.5 | 52.5 | 51.3 | 50.9 | 85.0 | 74.8 | 82.6 | 94.2 | 85.6 | 84.4 | |
| C.D. (5%) | 1.70 | 1.56 | 1.24 | 1.23 | 1.20 | 1.36 | 1.12 | 1.89 | 1.46 | 1.63 | 1.33 | 1.23 | 0.92 | 1.08 | 0.76 | 1.65 | 1.75 | 0.98 | 1.44 | 2.44 | |
| C.V. (%) | 2.21 | 2.58 | 1.82 | 1.23 | 1.61 | 1.83 | 1.96 | 2.35 | 2.25 | 2.23 | 1.29 | 1.55 | 1.19 | 1.78 | 0.59 | 1.47 | 1.40 | 0.57 | 1.11 | 2.19 | |
| F (Prob) | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | |

Table No. 23 (Continued)

| S.No. PEDIGREE | PLANT HEIGHT(cm) | | | | | | | EAR HEIGHT(cm) | | | | | | |
|------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|-------------|-------------|--|
| | AMBI | BANS | BHIL | CHHI | JHAB | UDAI | Mean | AMBI | BANS | BHIL | CHHI | UDAI | Mean | |
| 1 K-75 | 213.2 | 132.9 | 168.3 | 128.3 | 152.1 | 197.5 | 165.4 | 71.9 | 64.2 | 79.6 | 56.7 | 93.8 | 73.2 | |
| 2 FH-3555 | 201.3 | 124.2 | 144.5 | 111.7 | 134.3 | 156.3 | 145.4 | 57.7 | 45.5 | 60.0 | 46.7 | 65.0 | 55.0 | |
| 3 FH-3554 | 224.5 | 135.4 | 160.0 | 125.0 | 149.7 | 170.0 | 160.8 | 84.3 | 64.2 | 80.0 | 61.7 | 83.8 | 74.8 | |
| 4 vivek Hybrid-9(Filler) CHECKS | 212.7 | 134.3 | 169.5 | 126.7 | 146.2 | 171.3 | 160.1 | 66.9 | 55.5 | 69.6 | 53.3 | 72.5 | 63.6 | |
| 5 Vivek QPM-9 | 216.6 | 126.8 | 170.0 | 125.0 | 151.3 | 185.0 | 162.4 | 68.4 | 53.0 | 74.2 | 55.0 | 76.3 | 65.3 | |
| 6 Vivek Hybrid-9 | 219.7 | 158.0 | 168.8 | 128.3 | 154.7 | 171.3 | 166.8 | 64.8 | 76.5 | 69.2 | 50.0 | 75.0 | 67.1 | |
| Loc. Mean | 214.6 | 135.3 | 163.5 | 124.2 | 148.0 | 175.2 | 160.1 | 69.0 | 59.8 | 72.1 | 53.9 | 77.7 | 66.5 | |
| C.D. (5%) | 16.36 | 15.84 | 15.37 | 10.63 | 7.18 | 17.95 | 8.35 | 9.41 | 14.45 | 10.87 | 10.19 | 11.64 | 7.27 | |
| C.V. (%) | 5.06 | 7.77 | 6.24 | 4.71 | 3.22 | 6.80 | 4.38 | 9.06 | 16.04 | 10.00 | 10.40 | 9.94 | 8.29 | |
| F (Prob) | 0.12 | 0.01 | 0.02 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.09 | 0.00 | 0.00 | |

BR222

TABLE No. 24: PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSAWARA, CHHINDWARA, UDAIPUR IN TRIAL No. QPM12 DURING KHARIF (2013)

| SI No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------------------|----|-------------|----|-------------|----|-------------|----|-------------|------|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| | Zn 1 | | | | | | | | | Zn 2 | | | | | | | | | Zn 3 | | | | | | | | | |
| PEDIGREE | ALMO | R | BAJA | R | BARA | R | KANG | R | MEAN | R | KARN | R | LUDH | R | PANT | R | MEAN | R | BAHR | R | DHOL | R | RANC | R | VARA | R | MEAN | R |
| 1 EHQ-63 | 5353 | 8 | 7286 | 9 | 3085 | 7 | 4534 | 7 | 5065 | 9 | 7262 | 10 | 4859 | 10 | 4610 | 10 | 5577 | 10 | 5420 | 6 | 4823 | 10 | 7191 | 7 | 4164 | 9 | 5400 | 9 |
| 2 EHQ-64 | 5032 | 9 | 9925 | 2 | 3875 | 2 | 5497 | 5 | 6082 | 3 | 8547 | 5 | 8010 | 2 | 9037 | 1 | 8531 | 1 | 4951 | 7 | 6218 | 1 | 7392 | 5 | 6344 | 4 | 6226 | 6 |
| 3 VEHQ-11-1 | 4704 | 10 | 8837 | 4 | 2686 | 8 | 7102 | 1 | 5832 | 5 | 8645 | 4 | 5844 | 9 | 5312 | 7 | 6601 | 8 | 6670 | 3 | 5828 | 5 | 8106 | 3 | 5628 | 6 | 6558 | 4 |
| 4 JH(QPM)3 | 6502 | 3 | 10193 | 1 | 1578 | 10 | 6929 | 2 | 6301 | 2 | 9270 | 1 | 9263 | 1 | 6358 | 3 | 8297 | 3 | 7145 | 1 | 5865 | 4 | 7007 | 8 | 8397 | 1 | 7103 | 1 |
| 5 MMH-QPM-6-12-13 | 5740 | 6 | 9807 | 3 | 3303 | 5 | 4287 | 9 | 5784 | 6 | 8711 | 3 | 5955 | 8 | 5745 | 5 | 6804 | 6 | 4329 | 9 | 6184 | 2 | 8007 | 4 | 6116 | 5 | 6159 | 7 |
| 6 VEHQ-3020 | 6580 | 2 | 8327 | 8 | 3302 | 6 | 5722 | 4 | 5983 | 4 | 8511 | 6 | 7962 | 3 | 4956 | 9 | 7143 | 5 | 5580 | 5 | 5882 | 3 | 6447 | 10 | 5585 | 7 | 5874 | 8 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 HQPM-1 | 5781 | 5 | 8613 | 7 | 4052 | 1 | 4610 | 6 | 5764 | 7 | 7983 | 9 | 6677 | 6 | 5519 | 6 | 6727 | 7 | 6556 | 4 | 5801 | 6 | 7267 | 6 | 6917 | 2 | 6635 | 2 |
| 8 HQPM-5 | 6212 | 4 | 8837 | 5 | 3474 | 3 | 3675 | 10 | 5549 | 8 | 9066 | 2 | 7238 | 5 | 5868 | 4 | 7391 | 4 | 4355 | 8 | 5738 | 7 | 8449 | 2 | 6488 | 3 | 6257 | 5 |
| 9 HQPM-7 | 6611 | 1 | 8697 | 6 | 3422 | 4 | 6602 | 3 | 6333 | 1 | 8498 | 7 | 7636 | 4 | 8959 | 2 | 8364 | 2 | 6676 | 2 | 5422 | 8 | 8785 | 1 | 5584 | 8 | 6617 | 3 |
| 10 Vivek QPM-9 | 5552 | 7 | 4838 | 10 | 2407 | 9 | 4382 | 8 | 4295 | 10 | 8043 | 8 | 6461 | 7 | 5282 | 8 | 6595 | 9 | 4044 | 10 | 5009 | 9 | 6614 | 9 | 2202 | 10 | 4467 | 10 |
| Location Mean | 5807 | | 8536 | | 3118 | | 5334 | | 5699 | | 8454 | | 6991 | | 6165 | | 7203 | | 5573 | | 5677 | | 7527 | | 5743 | | 6130 | |
| C.D. (5%) | 1034 | | 1094 | | 1160 | | 1109 | | 1099 | | 625 | | 1501 | | 1701 | | 1276 | | 701 | | 1206 | | 2374 | | 644 | | 1231 | |
| C.V. (%) | 10.34 | | 7.44 | | 21.59 | | 9.01 | | - | | 4.29 | | 12.47 | | 16.01 | | - | | 7.3 | | 12.34 | | 18.31 | | 6.51 | | - | |
| F (Prob) | 0.005 | | 0 | | 0.009 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0.145 | | 0.448 | | 0 | | - | |
| Plot Size | 9.6 | | 6 | | 9 | | 4.8 | | - | | 12 | | 10.92 | | 12 | | - | | 9.6 | | 12 | | 9.6 | | 9.6 | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | 5-07 | | 28-06 | | 7-07 | | 19-06 | | - | | 28-06 | | 21-06 | | 4-08 | | - | | 3-07 | | 3-07 | | 3-07 | | 20-06 | | - | |
| Harvest Date | 8-11 | | 22-10 | | 24-10 | | 29-10 | | - | | 9-10 | | 8-10 | | 22-11 | | - | | 4-10 | | 5-10 | | 22-10 | | 24-09 | | - | |
| Irrigation Nos | - | | 3 | | - | | - | | - | | 6 | | 5 | | 1 | | - | | - | | 3 | | - | | - | | - | |
| Fertilizer Applied N | 100 | | 120 | | 80 | | 120 | | - | | 150 | | 125 | | 120 | | - | | 120 | | 120 | | 120 | | 120 | | - | |
| Fertilizer Applied P | 60 | | 60 | | 60 | | 60 | | - | | 60 | | 60 | | 60 | | - | | 60 | | 60 | | 60 | | 60 | | - | |
| Fertilizer Applied K | 40 | | 40 | | 40 | | 40 | | - | | 60 | | 30 | | 40 | | - | | 40 | | 40 | | 40 | | 40 | | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : KARI 22.7 %

TABLE No. 24: (Cont...)

| Sl No PEDIGREE | ZN 4 | | | | | | | | | | | | | | ZN 5 | | | | OV'L | | | | | | | |
|----------------------|--------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| | ARBH | R | COIM | R | HYDE | R | KARI | R | KOLH | R | MAND | R | MEAN | R | AMBI | R | BANS | R | CHHI | R | UDAI | R | MEAN | R | MEAN | R |
| 1 EHQ-63 | 8436 | 10 | 6149 | 10 | 6209 | 9 | 8236 | 3 | 4594 | 10 | 7202 | 7 | 6518 | 10 | 3899 | 10 | 3888 | 7 | 957 | 10 | 5448 | 7 | 3548 | 9 | 5268 | 9 |
| 2 EHQ-64 | 13825 | 2 | 9008 | 8 | 9914 | 1 | 7493 | 6 | 7736 | 1 | 7290 | 6 | 9555 | 3 | 5734 | 9 | 4089 | 6 | 2957 | 5 | 7213 | 2 | 4998 | 4 | 7130 | 3 |
| 3 VEHQ-11-1 | 13078 | 5 | 10130 | 4 | 7424 | 8 | 7293 | 7 | 5232 | 9 | 8384 | 2 | 8850 | 7 | 5897 | 7 | 4181 | 5 | 2974 | 4 | 5772 | 4 | 4706 | 5 | 6622 | 7 |
| 4 JH(QPM)3 | 9244 | 9 | 9749 | 6 | 9083 | 4 | 6983 | 8 | 7513 | 2 | 7784 | 5 | 8674 | 8 | 7345 | 2 | 4962 | 3 | 3327 | 1 | 7577 | 1 | 5802 | 2 | 7254 | 2 |
| 5 MMH-QPM-6-12-13 | 14378 | 1 | 10236 | 3 | 9404 | 3 | 8263 | 2 | 5865 | 8 | 8941 | 1 | 9765 | 1 | 6232 | 5 | 4465 | 4 | 3035 | 3 | 3954 | 9 | 4422 | 7 | 6735 | 5 |
| 6 VEHQ-3020 | 13543 | 4 | 10559 | 1 | 7800 | 6 | 8280 | 1 | 7289 | 4 | 7943 | 4 | 9427 | 4 | 6345 | 4 | 3220 | 9 | 2381 | 8 | 5747 | 5 | 4423 | 6 | 6684 | 6 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 HQPM-1 | 13667 | 3 | 9891 | 5 | 7774 | 7 | 6711 | 9 | 6692 | 6 | 6725 | 10 | 8950 | 6 | 6094 | 6 | 3385 | 8 | 2937 | 6 | 4905 | 8 | 4330 | 8 | 6592 | 8 |
| 8 HQPM-5 | 13017 | 6 | 9149 | 7 | 8383 | 5 | 5796 | 10 | 7426 | 3 | 7080 | 8 | 9011 | 5 | 6399 | 3 | 6475 | 1 | 3039 | 2 | 5513 | 6 | 5357 | 3 | 6794 | 4 |
| 9 HQPM-7 | 12854 | 7 | 10366 | 2 | 9457 | 2 | 8152 | 4 | 7154 | 5 | 7993 | 3 | 9565 | 2 | 8510 | 1 | 5358 | 2 | 2788 | 7 | 6656 | 3 | 5828 | 1 | 7401 | 1 |
| 10 Vivek QPM-9 | 9636 | 8 | 7344 | 9 | 4995 | 10 | 7720 | 5 | 6427 | 7 | 7057 | 9 | 7092 | 9 | 5788 | 8 | 2845 | 10 | 1534 | 9 | 3759 | 10 | 3481 | 10 | 5211 | 10 |
| Location Mean | 12168 | | 9258 | | 8044 | | 7493 | | 6593 | | 7640 | | 8741 | | 6224 | | 4287 | | 2593 | | 5654 | | 4690 | | 6569 | |
| C.D. (5%) | 2834 | | 855 | | 944 | | 2930 | | 1016 | | 653 | | 1260 | | 1545 | | 923 | | 757 | | 745 | | 993 | | 1171 | |
| C.V. (%) | 13.52 | | 5.36 | | 6.81 | | 22.7 | | 8.94 | | 4.97 | | - | | 14.41 | | 12.5 | | 16.96 | | 7.65 | | - | | - | |
| F (Prob) | 0.001 | | 0 | | 0 | | 0.72 | | 0 | | 0 | | | | 0.003 | | 0 | | 0 | | 0 | | | | | |
| Plot Size | 12 | | 9.6 | | 12 | | 12 | | 12 | | 11.2 | | - | | 12 | | 9.6 | | 12 | | 9.6 | | - | | - | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | 2-07 | | 13-07 | | 25-06 | | 5-07 | | 29-06 | | 27-07 | | - | | 29-06 | | 3-07 | | 11-07 | | 1-07 | | - | | - | |
| Harvest Date | 10-11 | | 31-10 | | 21-10 | | 30-10 | | 16-11 | | 16-12 | | - | | - | | 9-10 | | 22-11 | | 20-10 | | - | | - | |
| Irrigation Nos | 6 | | 9 | | 2 | | - | | - | | 8 | | - | | - | | - | | - | | 2 | | - | | - | |
| Fertilizer Applied N | 150 | | 150 | | 200 | | 180 | | 120 | | 150 | | - | | 120 | | 150 | | 120 | | 90 | | - | | - | |
| Fertilizer Applied P | 75 | | 75 | | 60 | | 60 | | 60 | | 75 | | - | | 60 | | 80 | | 60 | | 60 | | - | | - | |
| Fertilizer Applied K | 37.5 | | 75 | | 50 | | 50 | | 40 | | 40 | | - | | 40 | | - | | 40 | | - | | - | | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : KARI 22.7 %

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TABLE No. 24 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | OV'L | | | | |
| | | ALMO | BAJA | BARA | KANG | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | MEAN | AMBI | BANS | CHHI | UDAI | MEAN | MEAN |
| 1 | EHQ-63 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22.7 | - | 7.1 | - | - | 14.8 | - | 11.1 | - | - | |
| 2 | EHQ-64 | - | 15.2 | - | 19.2 | 5.5 | 7.1 | 20 | 63.7 | 26.8 | - | 7.2 | 1.7 | - | - | 1.2 | - | 27.5 | 11.7 | 15.6 | 8.4 | 6.8 | - | 20.8 | 0.7 | 47.1 | 15.4 | 8.1 |
| 3 | VEHQ-11-1 | - | 2.6 | - | 54.1 | 1.2 | 8.3 | - | - | - | 1.7 | 0.5 | 11.5 | - | - | 2.4 | - | 8.7 | - | 24.7 | - | - | 23.5 | 1.3 | 17.7 | 8.7 | 0.4 | |
| 4 | JH(QPM)3 | 12.5 | 18.3 | - | 50.3 | 9.3 | 16.1 | 38.7 | 15.2 | 23.3 | 9 | 1.1 | - | 21.4 | 7.1 | - | - | 16.8 | 4.1 | 12.3 | 15.7 | - | 20.5 | 46.6 | 13.3 | 54.5 | 34 | 10 |
| 5 | MMH-QPM-6-12-13 | - | 13.9 | - | - | 0.4 | 9.1 | - | 4.1 | 1.1 | - | 6.6 | 10.2 | - | - | 5.2 | 3.5 | 21 | 23.1 | - | 32.9 | 9.1 | 2.3 | 31.9 | 3.3 | - | 2.1 | 2.2 |
| 6 | VEHQ-3020 | 13.8 | - | - | 24.1 | 3.8 | 6.6 | 19.2 | - | 6.2 | - | 1.4 | - | - | - | - | 6.8 | 0.3 | 23.4 | 8.9 | 18.1 | 5.3 | 4.1 | - | - | 17.2 | 2.1 | 1.4 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HQPM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | HQPM-5 | 7.5 | 2.6 | - | - | - | 13.6 | 8.4 | 6.3 | 9.9 | - | - | 16.3 | - | - | - | 7.8 | - | 11 | 5.3 | 0.7 | 5 | 91.3 | 3.5 | 12.4 | 23.7 | 3.1 | |
| 9 | HQPM-7 | 14.4 | 1 | - | 43.2 | 9.9 | 6.4 | 14.4 | 62.3 | 24.3 | 1.8 | - | 20.9 | - | - | - | 4.8 | 21.6 | 21.5 | 6.9 | 18.8 | 6.9 | 39.6 | 58.3 | - | 35.7 | 34.6 | 12.3 |
| 10 | Vivek QPM-9 | - | - | - | - | - | 0.8 | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 4.9 | - | - | - | - | - | - | |

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | OV'L | | | | |
| | | ALMO | BAJA | BARA | KANG | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | MEAN | AMBI | BANS | CHHI | UDAI | MEAN | MEAN |
| 1 | EHQ-63 | - | - | - | 23.4 | - | - | - | - | - | 24.4 | - | - | - | - | - | - | 42.1 | - | 1.7 | - | - | - | - | - | - | - | |
| 2 | EHQ-64 | - | 12.3 | 11.5 | 49.6 | 9.6 | - | 10.7 | 54 | 15.4 | 13.7 | 8.4 | - | - | - | 6.2 | - | 18.3 | 29.3 | 4.2 | 3 | 6 | - | - | - | 30.8 | - | 4.9 |
| 3 | VEHQ-11-1 | - | 0 | - | 93.3 | 5.1 | - | - | - | - | 53.2 | 1.6 | - | - | 4.8 | 0.5 | 10.7 | - | 25.8 | - | 18.4 | - | - | - | - | 4.7 | - | |
| 4 | JH(QPM)3 | 4.7 | 15.3 | - | 88.6 | 13.5 | 2.2 | 28 | 8.3 | 12.3 | 64.1 | 2.2 | - | 29.4 | 13.5 | - | 6.6 | 8.4 | 20.5 | 1.2 | 9.9 | - | 14.8 | - | 9.5 | 37.4 | 8.3 | 6.8 |
| 5 | MMH-QPM-6-12-13 | - | 11 | - | 16.7 | 4.2 | - | - | - | - | - | 7.8 | - | - | - | 10.5 | 11.9 | 12.2 | 42.6 | - | 26.3 | 8.4 | - | - | - | - | - | |
| 6 | VEHQ-3020 | 5.9 | - | - | 55.7 | 7.8 | - | 10 | - | - | 28.1 | 2.5 | - | - | - | 4 | 15.4 | - | 42.9 | - | 12.2 | 4.6 | - | - | - | 4.2 | - | |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HQPM-1 | - | - | 16.6 | 25.5 | 3.9 | - | - | - | - | 50.5 | 1.1 | - | 6.6 | 6 | 5 | 8.1 | - | 15.8 | - | - | - | - | - | - | - | - | |
| 8 | HQPM-5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | HQPM-7 | 6.4 | - | - | 79.7 | 14.1 | - | 5.5 | 52.7 | 13.2 | 53.3 | - | 4 | - | 5.7 | - | 13.3 | 12.8 | 40.7 | - | 12.9 | 6.1 | 33 | - | - | 20.7 | 8.8 | 8.9 |
| 10 | Vivek QPM-9 | - | - | - | 19.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.2 | - | - | - | - | - | - | - | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 22%) : KARI 22.7 %

TABLE No. 24 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE HQPM-7 | | | | | | | | | | | | | | | | | | | | | | | OV'L | | | |
|----------|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | | | | | |
| | | ALMO | BAJA | BARA | KANG | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | MEAN | AMBI | BANS | CHHI | UDAI | MEAN | MEAN |
| 1 | EHQ-63 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 2 | EHQ-64 | - | 14.1 | 13.2 | - | - | 0.6 | 4.9 | 0.9 | 2 | - | 14.7 | - | 13.6 | - | 7.6 | - | 4.8 | - | 8.1 | - | - | - | - | - | 6.1 | 8.4 | - |
| 3 | VEHQ-11-1 | - | 1.6 | - | 7.6 | - | 1.7 | - | - | - | - | 7.5 | - | 0.8 | - | 1.7 | - | - | - | - | 4.9 | - | - | - | - | 6.7 | - | - |
| 4 | JH(QPM)3 | - | 17.2 | - | 5 | - | 9.1 | 21.3 | - | - | 7 | 8.2 | - | 50.4 | 7.4 | - | - | - | - | 5 | - | - | - | - | 19.3 | 13.8 | - | - |
| 5 | MMH-QPM-6-12-13 | - | 12.8 | - | - | - | 2.5 | - | - | - | - | 14.1 | - | 9.5 | - | 11.9 | - | - | 1.4 | - | 11.9 | 2.1 | - | - | - | 8.9 | - | - |
| 6 | VEHQ-3020 | - | - | - | - | - | 0.2 | 4.3 | - | - | - | 8.5 | - | 0 | - | 5.4 | 1.9 | - | 1.6 | 1.9 | - | - | - | - | - | - | - | - |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HQPM-1 | - | - | 18.4 | - | - | - | - | - | - | - | 7 | - | 23.9 | 0.3 | 6.3 | - | - | - | - | - | - | - | - | 5.4 | - | - | - |
| 8 | HQPM-5 | - | 1.6 | 1.5 | - | - | 6.7 | - | - | - | - | 5.8 | - | 16.2 | - | 1.3 | - | - | - | 3.8 | - | - | - | 20.9 | 9 | - | - | - |
| 9 | HQPM-7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | Vivek QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM-9 | | | | | | | | | | | | | | | | | | | | | | | OV'L | | | |
|----------|-----------------|--|-------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| | | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | | | | | |
| | | ALMO | BAJA | BARA | KANG | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | MEAN | AMBI | BANS | CHHI | UDAI | MEAN | MEAN |
| 1 | EHQ-63 | - | 50.6 | 28.2 | 3.5 | 17.9 | - | - | - | - | 34 | - | 8.7 | 89.1 | 20.9 | - | - | 24.3 | 6.7 | - | 2 | - | - | 36.6 | - | 45 | 1.9 | 1.1 |
| 2 | EHQ-64 | - | 105.1 | 61 | 25.4 | 41.6 | 6.3 | 24 | 71.1 | 29.4 | 22.4 | 24.1 | 11.8 | 188 | 39.4 | 43.5 | 22.7 | 98.5 | - | 20.4 | 3.3 | 34.7 | - | 43.7 | 92.8 | 91.9 | 43.6 | 36.8 |
| 3 | VEHQ-11-1 | - | 82.7 | 11.6 | 62.1 | 35.8 | 7.5 | - | 0.6 | 0.1 | 64.9 | 16.3 | 22.6 | 155.5 | 46.8 | 35.7 | 37.9 | 48.6 | - | - | 18.8 | 24.8 | 1.9 | 46.9 | 93.9 | 53.6 | 35.2 | 27.1 |
| 4 | JH(QPM)3 | 17.1 | 110.7 | - | 58.1 | 46.7 | 15.2 | 43.4 | 20.4 | 25.8 | 76.7 | 17.1 | 5.9 | 281.3 | 59 | - | 32.7 | 81.8 | - | 16.9 | 10.3 | 22.3 | 26.9 | 74.4 | 116.9 | 101.6 | 66.7 | 39.2 |
| 5 | MMH-QPM-6-12-13 | 3.4 | 102.7 | 37.2 | - | 34.7 | 8.3 | - | 8.8 | 3.2 | 7.1 | 23.4 | 21.1 | 177.7 | 37.9 | 49.2 | 39.4 | 88.3 | 7 | - | 26.7 | 37.7 | 7.7 | 56.9 | 97.9 | 5.2 | 27 | 29.2 |
| 6 | VEHQ-3020 | 18.5 | 72.1 | 37.2 | 30.6 | 39.3 | 5.8 | 23.2 | - | 8.3 | 38 | 17.4 | - | 153.6 | 31.5 | 40.6 | 43.8 | 56.2 | 7.2 | 13.4 | 12.6 | 32.9 | 9.6 | 13.2 | 55.3 | 52.9 | 27 | 28.3 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HQPM-1 | 4.1 | 78 | 68.4 | 5.2 | 34.2 | - | 3.4 | 4.5 | 2 | 62.1 | 15.8 | 9.9 | 214.1 | 48.5 | 41.8 | 34.7 | 55.6 | - | 4.1 | - | 26.2 | 5.3 | 19 | 91.5 | 30.5 | 24.4 | 26.5 |
| 8 | HQPM-5 | 11.9 | 82.7 | 44.3 | - | 29.2 | 12.7 | 12 | 11.1 | 12.1 | 7.7 | 14.5 | 27.7 | 194.6 | 40.1 | 35.1 | 24.6 | 67.8 | - | 15.5 | 0.3 | 27.1 | 10.6 | 127.6 | 98.2 | 46.7 | 53.9 | 30.4 |
| 9 | HQPM-7 | 19.1 | 79.8 | 42.2 | 50.6 | 47.5 | 5.6 | 18.2 | 69.6 | 26.8 | 65.1 | 8.2 | 32.8 | 153.6 | 48.1 | 33.4 | 41.1 | 89.3 | 5.6 | 11.3 | 13.3 | 34.9 | 47 | 88.3 | 81.8 | 77.1 | 67.4 | 42 |
| 10 | Vivek QPM-9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 22%) : KARI 22.7 %

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Table No. 25: PERFORMANCE OF SWEETCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BHUBNESHWAR, RANCHI, VARANASI, ARHAVI, COIMBATORE, HYDERABAD, KOLHAPUR, KARIMNAGAR, MANDYA, AMBIKAPUR, BANSAWARA, CHHINDWARA, UDAIPUR IN TRIAL No. SC12 DURING KHARIF (2013)

| S.No. | PEDIGREE | GREEN EAR YIELD (kg/ha) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------------|-------------------------|----|--------------|----|-------------|----|-------------|----|-------------|----|--------------|----|-------------|----|-------------|----|-------------|----|--------------|----|-------------|----|--------------|----|--|--|------|--|
| | | ALMO | | | | | | BAJA | | | | | | KANG | | | | | | ZN 1 | | ZN 2 | | | | | | ZN 3 | |
| | | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | | | | | | |
| 1 | ADVSW-1 | 12269 | 2 | 15944 | 3 | 9125 | 3 | 12446 | 2 | 8560 | 3 | 16606 | 3 | 5833 | 10 | 10333 | 5 | 12014 | 2 | 14500 | 4 | 8073 | 6 | 11529 | 1 | | | | |
| 2 | ADVSW-2 | 12546 | 1 | 19167 | 1 | 10125 | 2 | 13946 | 1 | 9729 | 1 | 21978 | 1 | 8333 | 4 | 13347 | 1 | 12153 | 1 | 13333 | 5 | 7917 | 7 | 11134 | 4 | | | | |
| 3 | FSCH-41 | 12130 | 3 | 14862 | 4 | 5833 | 7 | 10942 | 4 | 7488 | 10 | 12027 | 6 | 14583 | 1 | 11366 | 3 | 8924 | 8 | 10722 | 10 | 9792 | 3 | 9812 | 9 | | | | |
| 4 | KSCH-222 | 6759 | 9 | 17058 | 2 | 7875 | 5 | 10564 | 5 | 8261 | 5 | 13492 | 5 | 7917 | 5 | 9890 | 6 | 9097 | 6 | 12778 | 6 | 10104 | 2 | 10660 | 7 | | | | |
| 5 | KSCH-333 | 10509 | 4 | 13659 | 7 | 10438 | 1 | 11535 | 3 | 8308 | 4 | 16331 | 4 | 11667 | 2 | 12102 | 2 | 9444 | 5 | 16667 | 1 | 5938 | 10 | 10683 | 6 | | | | |
| 6 | FSCH-18 | 7083 | 7 | 13891 | 6 | 8417 | 4 | 9797 | 6 | 7758 | 9 | 11691 | 7 | 10000 | 3 | 9816 | 7 | 8229 | 10 | 14556 | 3 | 6563 | 8 | 9782 | 10 | | | | |
| 7 | Bajaura Sweet Corn | 6435 | 10 | 13028 | 8 | 5167 | 10 | 8210 | 8 | 7231 | 11 | 8700 | 9 | 6667 | 7 | 7532 | 10 | 10069 | 3 | 12667 | 7 | 8906 | 4 | 10547 | 8 | | | | |
| 8 | Bisco Madhu | 8194 | 5 | 13970 | 5 | 6285 | 6 | 9483 | 7 | 7897 | 7 | 17308 | 2 | 6458 | 8 | 10554 | 4 | 9861 | 4 | 14722 | 2 | 8333 | 5 | 10972 | 5 | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Madhuri sweetcorn | 7546 | 6 | 9367 | 10 | 5563 | 8 | 7492 | 10 | 8944 | 2 | 8242 | 10 | 7417 | 6 | 8201 | 8 | 9063 | 7 | 10222 | 11 | 15104 | 1 | 11463 | 2 | | | | |
| 10 | PRIYA SWEETCorn | 5833 | 11 | 6668 | 11 | 4542 | 11 | 5681 | 11 | 8172 | 6 | 6654 | 11 | 5417 | 11 | 6748 | 11 | 7535 | 11 | 10833 | 9 | 15104 | 1 | 11157 | 3 | | | | |
| 11 | Win Orange SweetCorn | 6898 | 8 | 10542 | 9 | 5333 | 9 | 7591 | 9 | 7796 | 8 | 8852 | 8 | 6042 | 9 | 7563 | 9 | 8438 | 9 | 11944 | 8 | 6354 | 9 | 8912 | 11 | | | | |
| Loc. Mean | | 8746 | | 13469 | | 7155 | | 9790 | | 8195 | | 12898 | | 8212 | | 9768 | | 9530 | | 12995 | | 9290 | | 10605 | | | | | |
| C.D. (5%) | | 1887.44 | | 1571.13 | | 314.42 | | 2971.64 | | 2297.50 | | 2673.36 | | 1383.87 | | 5110.78 | | 749.08 | | 2841.92 | | 337.26 | | 4537.18 | | | | | |
| C.V. (%) | | 12.67 | | 6.85 | | 2.58 | | 17.82 | | 16.46 | | 12.17 | | 9.89 | | 30.72 | | 4.62 | | 12.84 | | 2.13 | | 25.12 | | | | | |
| F (Prob) | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.62 | | 0.00 | | 0.00 | | 0.23 | | 0.00 | | 0.00 | | 0.00 | | 0.98 | | | | | |

Table No. 25:

(Cont..)

| S.No. | PEDIGREE | ARBH | | COIM | | HYDE | | KARI | | KOLH | | MAND | | ZN 4 | | AMBI | | UDAI | | ZN 5 | | OV'L | |
|------------------|----------------------|--------------|----|--------------|----|--------------|----|-------------|----|-------------|----|--------------|----|--------------|----|-------------|----|-------------|----|-------------|----|--------------|----|
| | | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R | Mean | R |
| 1 | ADVSW-1 | 16250 | 1 | 20557 | 2 | 22083 | 1 | 12833 | 2 | 6731 | 2 | 18036 | 1 | 16082 | 1 | 12326 | 3 | 8698 | 2 | 10512 | 4 | 12967 | 2 |
| 2 | ADVSW-2 | 15056 | 2 | 20720 | 1 | 19444 | 4 | 12889 | 1 | 4689 | 8 | 15655 | 6 | 14742 | 2 | 13507 | 2 | 7604 | 5 | 10556 | 3 | 13226 | 1 |
| 3 | FSCH-41 | 13333 | 4 | 17656 | 3 | 14528 | 8 | 6750 | 8 | 6725 | 3 | 17976 | 2 | 12828 | 3 | 8472 | 7 | 7448 | 7 | 7960 | 7 | 11132 | 4 |
| 4 | KSCH-222 | 8611 | 9 | 17161 | 4 | 15556 | 6 | 11944 | 4 | 5153 | 5 | 17440 | 3 | 12644 | 5 | 11667 | 4 | 7118 | 8 | 9392 | 5 | 11058 | 5 |
| 5 | KSCH-333 | 14750 | 3 | 16462 | 5 | 19667 | 3 | 12333 | 3 | 2117 | 11 | 11339 | 10 | 12778 | 4 | 14236 | 1 | 8490 | 3 | 11363 | 2 | 11903 | 3 |
| 6 | FSCH-18 | 13083 | 5 | 13115 | 7 | 14833 | 7 | 7667 | 6 | 7072 | 1 | 15893 | 5 | 11944 | 7 | 10972 | 5 | 11788 | 1 | 11380 | 1 | 10742 | 7 |
| 7 | Bajaura Sweet Corn | 10639 | 6 | 9686 | 11 | 17000 | 5 | 6444 | 9 | 5144 | 6 | 12857 | 8 | 10295 | 8 | 7188 | 8 | 6840 | 9 | 7014 | 9 | 9098 | 8 |
| 8 | Bisco Madhu | 10333 | 7 | 10536 | 9 | 19778 | 2 | 11444 | 5 | 5006 | 7 | 16012 | 4 | 12185 | 6 | 9375 | 6 | 7813 | 4 | 8594 | 6 | 10784 | 6 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Madhuri sweetcorn | 8944 | 8 | 10882 | 8 | 13278 | 9 | 6361 | 10 | 3725 | 10 | 14405 | 7 | 9599 | 10 | 7083 | 9 | 7535 | 6 | 7309 | 8 | 9040 | 9 |
| 10 | PRIYA SWEETCorn | 8333 | 10 | 10233 | 10 | 12806 | 10 | 4833 | 11 | 3933 | 9 | 9881 | 11 | 8337 | 11 | 5625 | 11 | 6337 | 11 | 5981 | 11 | 7808 | 11 |
| 11 | Win Orange SweetCorn | 8000 | 11 | 14302 | 6 | 12806 | 10 | 7222 | 7 | 6492 | 4 | 12798 | 9 | 10270 | 9 | 6424 | 10 | 6493 | 10 | 6458 | 10 | 8631 | 10 |
| Loc. Mean | | 11576 | | 14665 | | 16525 | | 9157 | | 5162 | | 14754 | | 11973 | | 9716 | | 7833 | | 8774 | | 10581 | |
| C.D. (5%) | | 3173.87 | | 1380.01 | | 2723.53 | | 2609.33 | | 1776.64 | | 1430.75 | | 2611.86 | | 2021.42 | | 1346.15 | | 4099.90 | | 1562.96 | |
| C.V. (%) | | 16.10 | | 5.53 | | 9.68 | | 16.73 | | 20.21 | | 5.69 | | 18.81 | | 12.22 | | 10.09 | | 20.97 | | 21.81 | |
| F (Prob) | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.10 | | 0.00 | |

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Table No. 25 (Continued)

| GREEN EAR YIELD % SUPERIORITY OVER THE MADHURI SWEETCORN | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|-------|-------|-----------|-------|-------|-----------|-------|-------|-----------|------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| S.No. | PEDIGREE | ZN 1 | | | ZN 2 | | | ZN 3 | | | ZN 4 | | | ZN 5 | | OVL | | | | | | | | |
| | | ALMO | BAJA | KANG Mean | KARN | LUDH | PANT Mean | BHUB | RANC | VARA Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND Mean | AMBI | UDAI | Mean | Mean | | | | |
| 1 | ADVSW-1 | 62.6 | 70.2 | 64.0 | 66.1 | -4.3 | 101.5 | -21.4 | 26.0 | 32.6 | 41.9 | -46.6 | 0.6 | 81.7 | 88.9 | 66.3 | 101.7 | 80.7 | 25.2 | 67.5 | 74.0 | 15.4 | 43.8 | 43.4 |
| 2 | ADVSW-2 | 66.3 | 104.6 | 82.0 | 86.1 | 8.8 | 166.7 | 12.4 | 62.7 | 34.1 | 30.4 | -47.6 | -2.9 | 68.3 | 90.4 | 46.4 | 102.6 | 25.9 | 8.7 | 53.6 | 90.7 | 0.9 | 44.4 | 46.3 |
| 3 | FSCH-41 | 60.7 | 58.7 | 4.9 | 46.0 | -16.3 | 45.9 | 96.6 | 38.6 | -1.5 | 4.9 | -35.2 | -14.4 | 49.1 | 62.2 | 9.4 | 6.1 | 80.5 | 24.8 | 33.6 | 19.6 | -1.2 | 8.9 | 23.1 |
| 4 | KSCH-222 | -10.4 | 82.1 | 41.6 | 41.0 | -7.6 | 63.7 | 6.7 | 20.6 | 0.4 | 25.0 | -33.1 | -7.0 | -3.7 | 57.7 | 17.2 | 87.8 | 38.3 | 21.1 | 31.7 | 64.7 | -5.5 | 28.5 | 22.3 |
| 5 | KSCH-333 | 39.3 | 45.8 | 87.6 | 54.0 | -7.1 | 98.1 | 57.3 | 47.6 | 4.2 | 63.1 | -60.7 | -6.8 | 64.9 | 51.3 | 48.1 | 93.9 | -43.2 | -21.3 | 33.1 | 101.0 | 12.7 | 55.5 | 31.7 |
| 6 | FSCH-18 | -6.1 | 48.3 | 51.3 | 30.8 | -13.3 | 41.8 | 34.8 | 19.7 | -9.2 | 42.4 | -56.5 | -14.7 | 46.3 | 20.5 | 11.7 | 20.5 | 89.9 | 10.3 | 24.4 | 54.9 | 56.4 | 55.7 | 18.8 |
| 7 | Bajaura Sweet Corn | -14.7 | 39.1 | -7.1 | 9.6 | -19.2 | 5.6 | -10.1 | -8.2 | 11.1 | 23.9 | -41.0 | -8.0 | 19.0 | -11.0 | 28.0 | 1.3 | 38.1 | -10.7 | 7.3 | 1.5 | -9.2 | -4.0 | 0.6 |
| 8 | Bisco Madhu | 8.6 | 49.1 | 13.0 | 26.6 | -11.7 | 110.0 | -12.9 | 28.7 | 8.8 | 44.0 | -44.8 | -4.3 | 15.5 | -3.2 | 49.0 | 79.9 | 34.4 | 11.2 | 26.9 | 32.4 | 3.7 | 17.6 | 19.3 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Madhuri sweetcorn | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | PRIYA SWEETCorn | -22.7 | -28.8 | -18.4 | -24.2 | -8.6 | -19.3 | -27.0 | -17.7 | -16.9 | 6.0 | 0.0 | -2.7 | -6.8 | -6.0 | -3.6 | -24.0 | 5.6 | -31.4 | -13.1 | -20.6 | -15.9 | -18.2 | -13.6 |
| 11 | Win Orange SweetCorn | -8.6 | 12.5 | -4.1 | 1.3 | -12.8 | 7.4 | -18.5 | -7.8 | -6.9 | 16.8 | -57.9 | -22.3 | -10.6 | 31.4 | -3.6 | 13.5 | 74.3 | -11.2 | 7.0 | -9.3 | -13.8 | -11.6 | -4.5 |

| GREEN EAR YIELD % SUPERIORITY OVER THE PRIYA SWEETCORN | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|-------|-------|-----------|-------|-------|-----------|-------|------|-----------|------|-------|-------|------|-------|-----------|-------|-------|------|------|-------|------|------|------|
| S.No. | PEDIGREE | ZN 1 | | | ZN 2 | | | ZN 3 | | | ZN 4 | | | ZN 5 | | OVL | | | | | | | | |
| | | ALMO | BAJA | KANG Mean | KARN | LUDH | PANT Mean | BHUB | RANC | VARA Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND Mean | AMBI | UDAI | Mean | Mean | | | | |
| 1 | ADVSW-1 | 110.3 | 139.1 | 100.9 | 119.1 | 4.7 | 149.6 | 7.7 | 53.1 | 59.4 | 33.9 | -46.6 | 3.3 | 95.0 | 100.9 | 72.4 | 165.5 | 71.1 | 82.5 | 92.9 | 119.1 | 37.3 | 75.8 | 66.1 |
| 2 | ADVSW-2 | 115.1 | 187.4 | 122.9 | 145.5 | 19.1 | 230.3 | 53.8 | 97.8 | 61.3 | 23.1 | -47.6 | -0.2 | 80.7 | 102.5 | 51.8 | 166.7 | 19.2 | 58.4 | 76.8 | 140.1 | 20.0 | 76.5 | 69.4 |
| 3 | FSCH-41 | 108.0 | 122.9 | 28.4 | 92.6 | -8.4 | 80.7 | 169.2 | 68.4 | 18.4 | -1.0 | -35.2 | -12.1 | 60.0 | 72.5 | 13.4 | 39.7 | 71.0 | 81.9 | 53.9 | 50.6 | 17.5 | 33.1 | 42.6 |
| 4 | KSCH-222 | 15.9 | 155.8 | 73.4 | 86.0 | 1.1 | 102.8 | 46.2 | 46.6 | 20.7 | 18.0 | -33.1 | -4.5 | 3.3 | 67.7 | 21.5 | 147.1 | 31.0 | 76.5 | 51.7 | 107.4 | 12.3 | 57.0 | 41.6 |
| 5 | KSCH-333 | 80.2 | 104.8 | 129.8 | 103.0 | 1.7 | 145.4 | 115.4 | 79.3 | 25.3 | 53.9 | -60.7 | -4.2 | 77.0 | 60.9 | 53.6 | 155.2 | -46.2 | 14.8 | 53.3 | 153.1 | 34.0 | 90.0 | 52.4 |
| 6 | FSCH-18 | 21.4 | 108.3 | 85.3 | 72.5 | -5.1 | 75.7 | 84.6 | 45.5 | 9.2 | 34.4 | -56.5 | -12.3 | 57.0 | 28.2 | 15.8 | 58.6 | 79.8 | 60.8 | 43.3 | 95.1 | 86.0 | 90.3 | 37.6 |
| 7 | Bajaura Sweet Corn | 10.3 | 95.4 | 13.8 | 44.5 | -11.5 | 30.7 | 23.1 | 11.6 | 33.6 | 16.9 | -41.0 | -5.5 | 27.7 | -5.3 | 32.8 | 33.3 | 30.8 | 30.1 | 23.5 | 27.8 | 7.9 | 17.3 | 16.5 |
| 8 | Bisco Madhu | 40.5 | 109.5 | 38.4 | 66.9 | -3.4 | 160.1 | 19.2 | 56.4 | 30.9 | 35.9 | -44.8 | -1.7 | 24.0 | 3.0 | 54.4 | 136.8 | 27.3 | 62.0 | 46.2 | 66.7 | 23.3 | 43.7 | 38.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Madhuri sweetcorn | 29.4 | 40.5 | 22.5 | 31.9 | 9.4 | 23.9 | 36.9 | 21.5 | 20.3 | -5.6 | 0.0 | 2.7 | 7.3 | 6.3 | 3.7 | 31.6 | -5.3 | 45.8 | 15.1 | 25.9 | 18.9 | 22.2 | 15.8 |
| 10 | PRIYA SWEETCorn | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | Win Orange SweetCorn | 18.3 | 58.1 | 17.4 | 33.6 | -4.6 | 33.0 | 11.5 | 12.1 | 12.0 | 10.3 | -57.9 | -20.1 | -4.0 | 39.8 | 0.0 | 49.4 | 65.1 | 29.5 | 23.2 | 14.2 | 2.5 | 8.0 | 10.5 |

Table No. 25 (Continued)

| S.No. | PEDIGREE | GREEN EAR YIELD % SUPERIORITY OVER THE Win Orange SweetCorn | | | | | | | | | | | | | | | | | | | | | | |
|-------|----------------------|---|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|------|------|------|
| | | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | OV'L | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BHUB | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | Mean | AMBI | UDAI | Mean | Mean |
| 1 | ADVSW-1 | 77.9 | 51.2 | 71.1 | 64.0 | 9.8 | 87.6 | -3.5 | 36.6 | 42.4 | 21.4 | 27.1 | 29.4 | 103.1 | 43.7 | 72.4 | 77.7 | 3.7 | 40.9 | 56.6 | 91.9 | 34.0 | 62.8 | 50.2 |
| 2 | ADVSW-2 | 81.9 | 81.8 | 89.9 | 83.7 | 24.8 | 148.3 | 37.9 | 76.5 | 44.0 | 11.6 | 24.6 | 24.9 | 88.2 | 44.9 | 51.8 | 78.5 | -27.8 | 22.3 | 43.5 | 110.3 | 17.1 | 63.5 | 53.2 |
| 3 | FSCH-41 | 75.8 | 41.0 | 9.4 | 44.1 | -4.0 | 35.9 | 141.4 | 50.3 | 5.8 | -10.2 | 54.1 | 10.1 | 66.7 | 23.5 | 13.4 | -6.5 | 3.6 | 40.5 | 24.9 | 31.9 | 14.7 | 23.3 | 29.0 |
| 4 | KSCH-222 | -2.0 | 61.8 | 47.7 | 39.2 | 6.0 | 52.4 | 31.0 | 30.8 | 7.8 | 7.0 | 59.0 | 19.6 | 7.6 | 20.0 | 21.5 | 65.4 | -20.6 | 36.3 | 23.1 | 81.6 | 9.6 | 45.4 | 28.1 |
| 5 | KSCH-333 | 52.3 | 29.6 | 95.7 | 52.0 | 6.6 | 84.5 | 93.1 | 60.0 | 11.9 | 39.5 | -6.5 | 19.9 | 84.4 | 15.1 | 53.6 | 70.8 | -67.4 | -11.4 | 24.4 | 121.6 | 30.8 | 76.0 | 37.9 |
| 6 | FSCH-18 | 2.7 | 31.8 | 57.8 | 29.1 | -0.5 | 32.1 | 65.5 | 29.8 | -2.5 | 21.9 | 3.3 | 9.8 | 63.5 | -8.3 | 15.8 | 6.2 | 8.9 | 24.2 | 16.3 | 70.8 | 81.5 | 76.2 | 24.5 |
| 7 | Bajaura Sweet Corn | -6.7 | 23.6 | -3.1 | 8.2 | -7.2 | -1.7 | 10.3 | -0.4 | 19.3 | 6.1 | 40.2 | 18.3 | 33.0 | -32.3 | 32.8 | -10.8 | -20.8 | 0.5 | 0.2 | 11.9 | 5.3 | 8.6 | 5.4 |
| 8 | Bisco Madhu | 18.8 | 32.5 | 17.9 | 24.9 | 1.3 | 95.5 | 6.9 | 39.5 | 16.9 | 23.3 | 31.1 | 23.1 | 29.2 | -26.3 | 54.4 | 58.5 | -22.9 | 25.1 | 18.6 | 45.9 | 20.3 | 33.1 | 24.9 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Madhuri sweetcorn | 9.4 | -11.1 | 4.3 | -1.3 | 14.7 | -6.9 | 22.8 | 8.4 | 7.4 | -14.4 | 137.7 | 28.6 | 11.8 | -23.9 | 3.7 | -11.9 | -42.6 | 12.6 | -6.5 | 10.3 | 16.0 | 13.2 | 4.7 |
| 10 | PRIYA SWEETCorn | -15.4 | -36.7 | -14.8 | -25.2 | 4.8 | -24.8 | -10.3 | -10.8 | -10.7 | -9.3 | 137.7 | 25.2 | 4.2 | -28.5 | 0.0 | -33.1 | -39.4 | -22.8 | -18.8 | -12.4 | -2.4 | -7.4 | -9.5 |
| 11 | Win Orange SweetCorn | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table No. 25 (Continued)

| S.No. | PEDIGREE | COB WEIGHT (kg/ha) | | | | | | | | | | | | |
|-------|-----------------------|--------------------|-------------|--------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|-------------|--------------|
| | | KARN | PANT | ZN 2 Mean | BAHR | DHOL | VARA | ZN 3 Mean | HYDE | KARI | KOLH | ZN 4 Mean | CHHI | OV'L Mean |
| 1 | ADVSW-1 | 5147 | 4000 | 4000 | 9479 | 4167 | 5208 | 6285 | 17028 | 9417 | 4842 | 10429 | 4889 | 7734 |
| 2 | ADVSW-2 | 6972 | 5917 | 5917 | 8264 | 3889 | 4688 | 5613 | 15167 | 10222 | 3608 | 9666 | 4278 | 7394 |
| 3 | FSCH-41 | 5796 | 11389 | 11389 | 9375 | 4111 | 5885 | 6457 | 12639 | 6333 | 5858 | 8277 | 2444 | 7942 |
| 4 | KSCH-222 | 6032 | 5333 | 5333 | 8819 | 4139 | 6250 | 6403 | 12222 | 9778 | 3828 | 8609 | 3000 | 7196 |
| 5 | KSCH-333 | 5576 | 7583 | 7583 | 8924 | 3833 | 4219 | 5659 | 15528 | 8194 | 1568 | 8430 | 3972 | 7121 |
| 6 | FSCH-18 | 5808 | 6778 | 6778 | 9653 | 4111 | 4792 | 6185 | 12278 | 6556 | 4758 | 7864 | 2389 | 6989 |
| 7 | Bajaura Sweet Corn | 4804 | 4583 | 4583 | 8993 | 4139 | 5677 | 6270 | 11194 | 4944 | 3411 | 6517 | 1833 | 6135 |
| 8 | Bisco Madhu CHECKS | 5476 | 4417 | 4417 | 9549 | 4278 | 5729 | 6519 | 14389 | 7750 | 4150 | 8763 | 1972 | 7180 |
| 9 | Madhuri sweetcorn | 5738 | 4639 | 4639 | 9340 | 3861 | 9219 | 7473 | 10556 | 4139 | 2822 | 5839 | 2111 | 6368 |
| 10 | PRIYA SWEETCorn | 4446 | 3750 | 3750 | 9340 | 3889 | 8646 | 7292 | 10333 | 4278 | 3053 | 5888 | 1500 | 6184 |
| 11 | Win Orange SweetCorn | 5836 | 4028 | 4028 | 8750 | 3972 | 4375 | 5699 | 9417 | 5583 | 4497 | 6499 | 1778 | 5803 |
| | Loc. Mean | 5603 | 5674 | 5674 | 9135 | 4035 | 5881 | 6350 | 12796 | 7018 | 3854 | 7889 | 2742 | 6913 |
| | C.D. (5%) | 2427.5 | 1129.9 | 1129.9 | 1181.9 | 842.8 | 127.7 | 1618.4 | 1897.8 | 1911.6 | 1219.4 | 2721.1 | 962.7 | 1784.6 |
| | C.V. (%) | 25.4 | 11.7 | 11.7 | 7.6 | 12.3 | 1.3 | 15.0 | 8.7 | 16.0 | 18.6 | 20.3 | 20.6 | 24.1 |
| | F (Prob) | 0.75 | 0.00 | 0.00 | 0.41 | 0.98 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.30 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARNAL 25.4%: Mean!ZN 4 20.3%: CHHINDWARA 20.6%: Mean#OV'L 24.1%

Table No. 25 (Continued)

| S.No. | PEDIGREE | FODDER YIELD (kg/ha) | | | | | | | SWEETNESS(TSS%) | | | | | | | | |
|------------------|----------------------|----------------------|-------------|-------------|--------------|-------------|--------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ZN 3 | | | ZN 4 | | OV'L | ZN 2 | | | ZN 4 | | | | | | |
| | | BAJA | DHOL | Mean | HYDE | KOLH | Mean | UDAI | Mean | KARN | PANT | Mean | RANC | HYDE | KARI | KOLH | Mean |
| 1 | ADVSW-1 | 17222 | 5278 | 5278 | 18278 | 6389 | 18278 | 9358 | 12534 | 17.6 | 16.0 | 16.8 | 17.5 | 16.3 | 15.0 | 16.2 | 15.8 |
| 2 | ADVSW-2 | 22222 | 4944 | 4944 | 22111 | 4722 | 22111 | 8872 | 14537 | 18.5 | 16.0 | 17.3 | 15.9 | 13.1 | 13.5 | 17.0 | 14.5 |
| 3 | FSCH-41 | 16556 | 4944 | 4944 | 22556 | 3889 | 22556 | 9427 | 13371 | 16.3 | 15.5 | 15.9 | 16.6 | 14.4 | 13.2 | 15.5 | 14.4 |
| 4 | KSCH-222 | 16389 | 4806 | 4806 | 14333 | 3611 | 14333 | 9271 | 11200 | 20.7 | 15.5 | 18.1 | 18.6 | 14.4 | 14.2 | 18.2 | 15.6 |
| 5 | KSCH-333 | 18611 | 4611 | 4611 | 16528 | 5556 | 16528 | 9618 | 12342 | 14.7 | 15.3 | 15.0 | 19.2 | 13.4 | 14.0 | 15.6 | 14.3 |
| 6 | FSCH-18 | 12778 | 4806 | 4806 | 15417 | 3333 | 15417 | 11198 | 11050 | 18.3 | 16.5 | 17.4 | 20.3 | 13.8 | 14.8 | 18.0 | 15.6 |
| 7 | Bajaura Sweet Corn | 15722 | 4722 | 4722 | 15167 | 4722 | 15167 | 8403 | 11004 | 23.7 | 10.3 | 17.0 | 17.1 | 13.2 | 26.2 | 19.1 | 19.5 |
| 8 | Bisco Madhu | 13889 | 5028 | 5028 | 17528 | 4167 | 17528 | 7899 | 11086 | 17.2 | 14.5 | 15.8 | 18.1 | 14.5 | 13.8 | 14.7 | 14.3 |
| CHECKS | | | | | | | | | | | | | | | | | |
| 9 | Madhuri sweetcorn | 12500 | 4806 | 4806 | 16917 | 3889 | 16917 | 8125 | 10587 | 18.1 | 14.3 | 16.2 | 15.6 | 12.5 | 14.2 | 16.0 | 14.2 |
| 10 | PRIYA SWEETCorn | 9133 | 4667 | 4667 | 15917 | 3056 | 15917 | 7448 | 9291 | 17.0 | 15.3 | 16.1 | 17.4 | 13.6 | 15.9 | 15.4 | 14.9 |
| 11 | Win Orange SweetCorn | 16000 | 4639 | 4639 | 15944 | 3889 | 15944 | 6997 | 10895 | 19.7 | 15.3 | 17.5 | 18.3 | 16.6 | 17.1 | 18.4 | 17.4 |
| Loc. Mean | | 15547 | 4841 | 4841 | 17336 | 4293 | 17336 | 8783 | 11627 | 18.3 | 14.9 | 16.6 | 17.7 | 14.2 | 15.6 | 16.7 | 15.5 |
| C.D. (5%) | | 2392 | 618 | 618 | 2090 | 2479 | 2090 | 1914 | 2918 | 1.55 | 2.49 | 5.84 | 1.82 | 1.60 | 1.85 | 0.57 | 3.70 |
| C.V. (%) | | 9.03 | 7.49 | 7.49 | 7.08 | 33.91 | 7.08 | 12.79 | 17.38 | 4.97 | 9.79 | 15.75 | 6.04 | 6.64 | 6.95 | 1.99 | 14.00 |
| F (Prob) | | 0.00 | 0.56 | 0.56 | 0.00 | 0.26 | 0.00 | 0.01 | 0.06 | 0.00 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 |

Locations Rejected due to High C.V.(i.e.> 20%) : KOLHAPUR 33.9%

Table No. 25 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | | | | | | | | | | |
|-------|----------------------|----------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ALMO | BAJA | KANG | ZN 1 | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | OV'L | | | |
| | | | | | Mean | KARN | LUDH | PANT | Mean | BAHR | BHUB | DHOL | VARA | Mean | ARBH | COIM | HYDE | KOLH | Mean | AMBI | CHHI | UDAI | Mean | Mean |
| 1 | ADVSW-1 | 138.3 | 133.3 | 86.0 | 119.2 | 73.3 | 140.0 | 103.3 | 105.6 | 51.8 | 74.1 | 81.7 | 53.0 | 59.7 | 86.5 | 101.7 | 87.0 | 58.3 | 91.7 | 126.2 | 86.7 | 58.3 | 90.4 | 93.3 |
| 2 | ADVSW-2 | 133.3 | 126.7 | 95.3 | 118.4 | 70.0 | 153.3 | 101.3 | 108.2 | 66.5 | 66.0 | 78.0 | 63.0 | 65.2 | 71.0 | 100.3 | 62.7 | 45.0 | 78.0 | 108.2 | 56.7 | 55.0 | 73.3 | 88.6 |
| 3 | FSCH-41 | 83.3 | 70.7 | 64.0 | 72.7 | 63.3 | 163.3 | 91.7 | 106.1 | 58.2 | 48.1 | 82.7 | 53.0 | 53.1 | 59.0 | 63.3 | 49.3 | 30.0 | 57.2 | 70.9 | 56.7 | 50.0 | 59.2 | 69.7 |
| 4 | KSCH-222 | 115.0 | 108.3 | 89.3 | 104.2 | 70.0 | 140.0 | 102.7 | 104.2 | 51.1 | 58.0 | 74.0 | 63.0 | 57.4 | 74.5 | 94.7 | 52.7 | 50.0 | 74.0 | 114.1 | 65.0 | 41.7 | 73.6 | 82.7 |
| 5 | KSCH-333 | 91.7 | 85.0 | 74.0 | 83.6 | 61.7 | 138.3 | 100.7 | 100.2 | 68.7 | 55.4 | 80.0 | 38.0 | 54.0 | 48.0 | 78.3 | 57.3 | 38.3 | 61.2 | 79.7 | 53.3 | 38.3 | 57.1 | 71.2 |
| 6 | FSCH-18 | 90.0 | 78.0 | 75.0 | 81.0 | 60.0 | 148.3 | 93.0 | 100.4 | 59.8 | 50.5 | 73.3 | 43.0 | 51.1 | 52.5 | 67.3 | 48.7 | 48.3 | 56.2 | 85.5 | 55.0 | 51.7 | 64.1 | 70.6 |
| 7 | Bajaura Sweet Corn | 96.7 | 98.3 | 81.0 | 92.0 | 65.0 | 146.7 | 92.3 | 101.3 | 57.9 | 57.8 | 72.0 | 55.0 | 56.9 | 64.5 | 84.2 | 58.3 | 50.0 | 69.0 | 85.7 | 58.3 | 55.0 | 66.3 | 77.1 |
| 8 | Bisco Madhu | 111.7 | 81.7 | 76.0 | 89.8 | 63.3 | 148.3 | 97.0 | 102.9 | 59.8 | 57.5 | 84.0 | 68.0 | 61.8 | 64.0 | 72.9 | 56.7 | 36.7 | 64.5 | 93.5 | 58.3 | 46.7 | 66.2 | 77.0 |
| 9 | Madhuri sweetcorn | 113.3 | 106.7 | 82.3 | 100.8 | 76.7 | 145.0 | 104.3 | 108.7 | 60.3 | 60.7 | 80.3 | 63.0 | 61.3 | 65.0 | 73.3 | 65.3 | 38.3 | 67.9 | 96.5 | 53.3 | 80.0 | 76.6 | 83.1 |
| 10 | PRIYA SWEETCorn | 96.7 | 85.0 | 76.0 | 85.9 | 63.3 | 153.3 | 79.0 | 98.6 | 48.1 | 60.2 | 67.7 | 55.0 | 54.4 | 58.5 | 97.9 | 55.3 | 41.7 | 70.6 | 70.8 | 51.7 | 68.3 | 63.6 | 74.6 |
| 11 | Win Orange SweetCorn | 123.3 | 121.7 | 94.7 | 113.2 | 70.0 | 170.0 | 100.3 | 113.4 | 53.8 | 64.4 | 69.0 | 48.0 | 55.4 | 72.5 | 76.5 | 65.0 | 43.3 | 71.3 | 89.1 | 60.0 | 61.7 | 70.3 | 84.7 |
| | Loc. Mean | 108.5 | 99.6 | 81.2 | 96.4 | 67.0 | 149.7 | 96.9 | 104.5 | 57.8 | 59.3 | 76.6 | 54.7 | 57.3 | 65.1 | 82.8 | 59.8 | 43.6 | 69.2 | 92.8 | 59.5 | 55.2 | 69.1 | 79.3 |
| | C.D. (5%) | 10.39 | 11.28 | 5.19 | 13.53 | 11.36 | 12.95 | 9.49 | 13.33 | 17.24 | 4.94 | 30.02 | - | 13.31 | 6.32 | 12.66 | 6.10 | 15.86 | 12.95 | 15.97 | 14.93 | 10.38 | 20.33 | 6.94 |
| | C.V. (%) | 5.62 | 6.65 | 3.75 | 8.24 | 9.96 | 5.08 | 5.75 | 7.49 | 17.51 | 4.89 | 23.01 | - | 13.64 | 5.70 | 8.98 | 5.98 | 21.34 | 10.98 | 10.11 | 14.73 | 11.05 | 17.26 | 12.12 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.50 | 0.36 | 0.00 | 0.97 | 0.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.01 | 0.00 | 0.12 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%): DHOLI 23.0%: KOLHAPUR 21.3%

TABLE No. 26: PERFORMANCE OF POPCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, CHHINDWARA, UDAIPUR IN TRIAL No. PC12 DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | | | | |
|-------|-------------------------|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--|--|--|--|--|
| | | ZN 1 | | | | | | ZN 2 | | | | | | ZN 3 | | | | | |
| | | ALMO R | BAJA R | KANG R | MEAN R | KARN R | LUDH R | PANT R | MEAN R | BAHR R | DHOL R | RANC R | VARA R | MEAN R | | | | | |
| 1 | KDPC-2 | 3652 | 6770 | 3092 | 4505 | 6316 | 4471 | 4136 | 4974 | 5495 | 2439 | 3973 | 2962 | 4143 | | | | | |
| 2 | BPC 3 | 2318 | 4360 | 1732 | 2803 | 1414 | 2561 | 2582 | 2186 | 3121 | 2161 | 2979 | 3305 | 3135 | | | | | |
| 3 | BPCH 27 | 2356 | 3428 | 2379 | 2721 | 2486 | 3062 | 2863 | 2804 | 2967 | 1952 | 2870 | 3000 | 2946 | | | | | |
| 4 | Bajaura Popcorn | 2153 | 6173 | 2805 | 3710 | 3350 | 3131 | 2780 | 3087 | 5541 | 2444 | 2951 | 2921 | 3804 | | | | | |
| 5 | VL Popcorn-2 | 2845 | 5658 | 2277 | 3594 | 2207 | 3296 | 3161 | 2888 | 5500 | 2107 | 3045 | 2298 | 3614 | | | | | |
| 6 | CHECKS VL-POPCORN(C) | 2014 | 4984 | 2332 | 3110 | 3929 | 3261 | 2672 | 3287 | 4451 | 2034 | 2949 | 2450 | 3284 | | | | | |
| | Location Mean | 2556 | 5229 | 2436 | 3407 | 3284 | 3297 | 3032 | 3204 | 4512 | 2190 | 3128 | 2823 | 3488 | | | | | |
| | C.D. (5%) | 460 | 383 | 366 | 403 | 371 | 627 | 603 | 534 | 346 | 682 | 814 | 215 | 458 | | | | | |
| | C.V. (%) | 11.85 | 4.83 | 5.41 | - | 7.46 | 12.55 | 13.1 | - | 5.06 | 20.54 | 17.15 | 5.02 | - | | | | | |
| | F (Prob) | 0 | 0 | 0.001 | | 0 | 0 | 0.002 | | 0 | 0.307 | 0.047 | 0 | | | | | | |
| | Plot Size | 7.2 | 6 | 7.2 | - | 12 | 10.92 | 12 | - | 9.6 | 12 | 9.6 | 9.6 | - | | | | | |
| | AGRONOMY DATA | | | | | | | | | | | | | | | | | | |
| | Sowing Date | 9-07 | 25-06 | 20-06 | - | 28-06 | 23-06 | 4-08 | - | 3-07 | 5-07 | 9-07 | 20-06 | - | | | | | |
| | Harvest Date | 15-11 | 7-10 | 25-09 | - | 2-10 | 10-10 | 12-11 | - | 9-10 | 6-10 | 23-10 | 23-09 | - | | | | | |
| | Irrigation Nos | - | 3 | - | - | 5 | 4 | 1 | - | - | 3 | - | - | - | | | | | |
| | Fertilizer Applied N | 100 | 120 | 120 | - | 150 | 88 | 120 | - | 120 | 120 | 120 | 80 | - | | | | | |
| | Fertilizer Applied P | 60 | 60 | 60 | - | 60 | 30 | 60 | - | 60 | 60 | 60 | 40 | - | | | | | |
| | Fertilizer Applied K | 40 | 40 | 40 | - | 60 | 20 | 40 | - | 40 | 40 | 40 | 40 | - | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): DHOL 20.5 %: CHHI 26.4 %

BR240

TABLE No. 26: (Cont...)

| SI No PEDIGREE | ZN 4 | | | | | | | | | | | | ZN 5 | | OV'L |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------|--|------|
| | ARBH R | COIM R | HYDE R | KARI R | KOLH R | MAND R | MEAN R | AMBI R | CHHI R | UDAI R | MEAN R | MEAN R | MEAN R | | |
| 1 KDPC-2 | 6673 1 | 2886 1 | 3911 1 | 3407 2 | 5828 1 | 6031 1 | 4789 1 | 5129 1 | 889 2 | 2506 2 | 3818 1 | 4543 1 | | | |
| 2 BPC 3 | 5375 2 | 2135 6 | 2547 5 | 2476 4 | 4514 3 | 4760 2 | 3635 5 | 3988 2 | 566 4 | 2223 4 | 3106 3 | 3082 6 | | | |
| 3 BPCH 27 | 5175 5 | 2404 5 | 3153 3 | 2403 5 | 5444 2 | 4221 5 | 3800 3 | 2843 5 | 983 1 | 2314 3 | 2578 5 | 3139 5 | | | |
| 4 Bajaura Popcorn | 5126 6 | 2543 3 | 3078 4 | 3420 1 | 4484 4 | 4443 4 | 3849 2 | 2704 6 | 450 5 | 2035 6 | 2369 6 | 3508 2 | | | |
| 5 VL Popcorn-2 CHECKS | 5192 4 | 2744 2 | 3384 2 | 2654 3 | 4437 5 | 4178 6 | 3765 4 | 3711 3 | 632 3 | 2761 1 | 3236 2 | 3491 3 | | | |
| 6 VL-POPCORN(C) | 5238 3 | 2479 4 | 2381 6 | 2165 6 | 4259 6 | 4557 3 | 3513 6 | 3710 4 | 410 6 | 2173 5 | 2942 4 | 3294 4 | | | |
| Location Mean | 5463 | 2532 | 3076 | 2754 | 4828 | 4698 | 3892 | 3681 | 655 | 2335 | 3008 | 3510 | | | |
| C.D. (5%) | 1368 | 498 | 595 | 537 | 1278 | 420 | 783 | 1198 | 319 | 419 | 809 | 618 | | | |
| C.V. (%) | 13.55 | 12.98 | 12.75 | 12.87 | 17.45 | 5.9 | - | 17.63 | 26.41 | 11.84 | - | - | | | |
| F (Prob) | 0.467 | 0.029 | 0.003 | 0 | 0.152 | 0 | - | 0.013 | 0.007 | 0.017 | - | - | | | |
| Plot Size | 12 | 9.6 | 12 | 12 | 12 | 11.2 | - | 9.6 | 12 | 9.6 | - | - | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | |
| Sowing Date | 2-07 | 13-07 | 25-06 | 5-07 | 4-7 | 27-07 | - | 29-06 | 11-07 | 2-07 | - | - | | | |
| Harvest Date | 12-11 | 28-10 | 23-10 | 30-10 | 17-11 | 16-12 | - | - | 22-11 | 10-09 | - | - | | | |
| Irrigation Nos | 6 | 9 | 2 | - | - | 8 | - | - | - | 2 | - | - | | | |
| Fertilizer Applied N | 150 | 150 | 200 | 180 | 120 | 150 | - | 100 | 120 | 90 | - | - | | | |
| Fertilizer Applied P | 75 | 75 | 60 | 60 | 60 | 75 | - | 50 | 60 | 60 | - | - | | | |
| Fertilizer Applied K | 37.5 | 75 | 50 | 50 | 40 | 40 | - | 30 | 40 | - | - | - | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 20.5 %: CHHI 26.4 %

TABLE No. 26 (Cont..)

| SI No | GRAIN YIELD % SUPERIORITY OVER THE VL-POPCORN(C) | | | | | | | | | | | | | | | | | | | | | | | | | OV'L |
|-------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | | | | | | | | |
| PEDIGREE | ALMO | BAJA | KANG | MEAN | KARN | LUDH | PANT | MEAN | BAHR | DHOL | RANC | VARA | MEAN | ARBH | COIM | HYDE | KARI | KOLH | MAND | MEAN | AMBI | CHHI | UDAI | MEAN | MEAN | |
| 1 KDPC-2 | 81.3 | 35.8 | 32.6 | 44.8 | 60.8 | 37.1 | 54.8 | 51.3 | 23.4 | 19.9 | 34.7 | 20.9 | 26.2 | 27.4 | 16.4 | 64.2 | 57.3 | 36.8 | 32.3 | 36.3 | 38.2 | 116.8 | 15.3 | 29.8 | 37.9 | |
| 2 BPC 3 | 15.1 | - | - | - | - | - | - | - | - | 6.2 | 1 | 34.9 | - | 2.6 | - | 7 | 14.4 | 6 | 4.4 | 3.4 | 7.5 | 38 | 2.3 | 5.6 | - | |
| 3 BPCH 27 | 17 | - | 2 | - | - | - | 7.2 | - | - | - | - | 22.4 | - | - | - | 32.4 | 11 | 27.8 | - | 8.2 | - | 139.6 | 6.5 | - | - | |
| 4 Bajaura Popcorn | 6.9 | 23.9 | 20.3 | 19.3 | - | - | 4.1 | - | 24.5 | 20.2 | 0.1 | 19.2 | 15.9 | - | 2.6 | 29.3 | 58 | 5.3 | - | 9.6 | - | 9.6 | - | - | 6.5 | |
| 5 VL Popcorn-2 | 41.3 | 13.5 | - | 15.5 | - | 1.1 | 18.3 | - | 23.5 | 3.6 | 3.3 | - | 10.1 | - | 10.7 | 42.1 | 22.5 | 4.2 | - | 7.2 | 0 | 54 | 27.1 | 10 | 6 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 VL-POPCORN(C) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 20.5 %: CHHI 26.4 %

| S.N | GRAIN SHELLING % | | | | | | | | | | | | | | | | | | | | | | | | | OV'L |
|-------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | | | | | | | | |
| PEDIGREE | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | Mean | AMBI | CHHI | UDAI | Mean | Mean | |
| 1 KDPC-2 | 82.5 | 87.5 | 84.0 | 84.7 | 67.0 | 77.5 | 84.3 | 76.3 | 79.7 | 81.0 | 84.9 | 78.8 | 81.1 | 85.3 | 82.1 | 80.1 | 84.7 | 88.7 | 79.0 | 83.3 | 76.4 | 80.3 | 78.2 | 78.3 | 81.1 | |
| 2 BPC 3 | 78.4 | 83.2 | 75.8 | 79.1 | 70.4 | 80.3 | 80.1 | 76.9 | 74.5 | 79.0 | 79.7 | 79.5 | 78.2 | 85.0 | 81.2 | 76.2 | 83.0 | 85.6 | 82.6 | 82.2 | 77.4 | 80.6 | 78.1 | 78.7 | 79.5 | |
| 3 BPCH 27 | 82.1 | 80.5 | 77.1 | 79.9 | 69.7 | 79.3 | 80.4 | 76.4 | 79.4 | 73.5 | 81.0 | 76.8 | 77.6 | 81.6 | 81.2 | 76.4 | 83.0 | 91.9 | 80.6 | 82.4 | 75.5 | 88.3 | 77.1 | 80.3 | 79.7 | |
| 4 Bajaura Popcorn | 82.9 | 85.1 | 80.9 | 82.9 | 70.6 | 82.3 | 82.4 | 78.5 | 72.1 | 78.5 | 84.3 | 76.3 | 77.8 | 79.0 | 82.6 | 80.5 | 84.4 | 84.8 | 78.9 | 81.7 | 76.8 | 86.0 | 77.1 | 80.0 | 80.3 | |
| 5 VL Popcorn-2 | 82.0 | 86.9 | 79.1 | 82.7 | 70.7 | 78.4 | 84.8 | 77.9 | 77.1 | 76.5 | 84.0 | 76.8 | 78.6 | 81.8 | 80.0 | 79.4 | 85.1 | 88.2 | 81.5 | 82.6 | 75.6 | 85.3 | 77.8 | 79.6 | 80.6 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 VL-POPCORN(C) | 81.9 | 82.2 | 83.7 | 82.6 | 71.2 | 80.0 | 83.9 | 78.4 | 74.1 | 80.5 | 81.0 | 75.5 | 77.8 | 84.9 | 85.8 | 80.4 | 81.4 | 88.2 | 76.3 | 82.8 | 75.0 | 82.9 | 77.2 | 78.4 | 80.3 | |
| Loc. Mean | 81.6 | 84.2 | 80.1 | 82.0 | 69.9 | 79.6 | 82.7 | 77.4 | 76.1 | 78.2 | 82.5 | 77.3 | 78.5 | 82.9 | 82.1 | 78.8 | 83.6 | 87.9 | 79.8 | 82.5 | 76.1 | 83.9 | 77.6 | 79.2 | 80.3 | |
| C.D. (5%) | 1.03 | 0.80 | 4.97 | 3.81 | 1.28 | 1.74 | 2.69 | 3.25 | 1.01 | 4.26 | 4.78 | 0.72 | 3.65 | 1.13 | 1.04 | 2.60 | 3.10 | 0.26 | 1.28 | 2.71 | 4.55 | 1.42 | 0.48 | 3.83 | 1.42 | |
| C.V. (%) | 0.84 | 0.63 | 2.42 | 2.55 | 1.21 | 1.45 | 2.16 | 2.31 | 0.88 | 3.62 | 3.85 | 0.62 | 3.08 | 0.75 | 0.84 | 2.19 | 2.46 | 0.20 | 1.06 | 2.77 | 3.29 | 0.93 | 0.41 | 2.66 | 2.75 | |
| F (Prob) | 0.00 | 0.00 | 0.03 | 0.07 | 0.00 | 0.00 | 0.01 | 0.53 | 0.00 | 0.02 | 0.16 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.89 | 0.85 | 0.00 | 0.00 | 0.76 | 0.25 | |

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Table No. 26 (Continued)

| MOISTURE % AT HARVEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | OV'L | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | Mean | CHHI | UDAI | | Mean |
| 1 | KDPC-2 | 17.9 | 21.6 | 27.5 | 22.3 | 24.8 | 20.2 | 21.2 | 22.1 | 24.1 | 26.5 | 23.1 | 25.8 | 24.8 | 16.2 | 18.9 | 23.1 | 6.9 | 12.3 | 13.6 | 16.8 | 10.6 | 24.1 | 17.3 | 20.6 |
| 2 | BPC 3 | 21.4 | 23.9 | 27.3 | 24.2 | 22.8 | 20.3 | 27.3 | 23.5 | 22.7 | 27.5 | 23.8 | 31.1 | 26.3 | 16.2 | 16.0 | 25.0 | 5.1 | 14.7 | 14.5 | 17.3 | 9.8 | 24.1 | 16.9 | 21.7 |
| 3 | BPCH 27 | 18.3 | 21.6 | 28.5 | 22.8 | 25.8 | 18.0 | 27.6 | 23.8 | 22.4 | 26.5 | 23.1 | 28.3 | 25.1 | 17.3 | 16.1 | 23.6 | 6.3 | 12.8 | 13.8 | 16.7 | 11.0 | 23.1 | 17.1 | 21.0 |
| 4 | Bajaura Popcorn | 21.4 | 21.2 | 27.6 | 23.4 | 23.8 | 18.7 | 28.0 | 23.5 | 23.0 | 23.5 | 24.0 | 28.6 | 24.8 | 16.8 | 15.5 | 24.6 | 7.3 | 11.9 | 14.0 | 16.5 | 10.2 | 24.1 | 17.1 | 21.0 |
| 5 | VL Popcorn-2 | 17.5 | 20.6 | 25.9 | 21.3 | 24.8 | 16.8 | 23.5 | 21.7 | 20.8 | 22.5 | 24.0 | 27.1 | 23.6 | 16.6 | 13.5 | 23.5 | 6.5 | 10.4 | 14.1 | 15.6 | 10.6 | 22.1 | 16.3 | 19.6 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | VL-POPCORN(C) | 17.6 | 21.4 | 26.0 | 21.6 | 22.6 | 17.2 | 28.2 | 22.6 | 21.3 | 25.0 | 23.6 | 26.9 | 24.2 | 17.5 | 18.7 | 23.1 | 5.5 | 11.3 | 13.3 | 16.8 | 10.0 | 23.1 | 16.5 | 20.4 |
| Loc. Mean | | 19.0 | 21.7 | 27.1 | 22.6 | 24.1 | 18.5 | 26.0 | 22.8 | 22.4 | 25.3 | 23.6 | 27.9 | 24.8 | 16.8 | 16.4 | 23.8 | 6.3 | 12.2 | 13.9 | 16.6 | 10.4 | 23.4 | 16.9 | 20.7 |
| C.D. (5%) | | 1.08 | 0.65 | 1.16 | 1.98 | 0.95 | 0.54 | 1.94 | 4.11 | 0.72 | 2.12 | 1.34 | 0.88 | 2.05 | 1.51 | 0.40 | 2.59 | 3.37 | 1.81 | 0.48 | 1.61 | 1.42 | 0.71 | 1.98 | 0.90 |
| C.V. (%) | | 3.77 | 1.97 | 1.67 | 4.80 | 2.62 | 1.93 | 4.96 | 9.88 | 2.13 | 5.58 | 3.75 | 2.10 | 5.48 | 4.97 | 1.63 | 7.21 | 35.77 | 9.82 | 2.31 | 7.34 | 7.56 | 2.00 | 4.57 | 6.33 |
| F (Prob) | | 0.00 | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0.00 | 0.45 | 0.00 | 0.18 | 0.32 | 0.00 | 0.54 | 0.74 | 0.00 | 0.00 | 0.43 | 0.45 | 0.00 | 0.78 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 35.8%

| STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 1 | | | | | ZN 2 | | | | | ZN 3 | | | | | ZN 4 | | | | | ZN 5 | | OV'L | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | Mean | AMBI | CHHI | | UDAI | Mean |
| 1 | KDPC-2 | 61.8 | 71.7 | 47.2 | 60.2 | 64.2 | 61.4 | 45.6 | 57.0 | 65.4 | 36.7 | 71.1 | 54.2 | 56.8 | 49.7 | 66.4 | 61.0 | 27.7 | 62.1 | 61.4 | 54.7 | 67.7 | 39.4 | 53.9 | 53.7 | 56.2 |
| 2 | BPC 3 | 62.8 | 66.7 | 48.6 | 59.4 | 60.0 | 57.9 | 45.0 | 54.3 | 62.5 | 55.0 | 78.1 | 60.4 | 64.0 | 47.5 | 66.4 | 59.2 | 22.1 | 60.8 | 62.1 | 53.0 | 61.5 | 35.6 | 53.1 | 50.0 | 56.1 |
| 3 | BPCH 27 | 60.8 | 65.8 | 50.7 | 59.1 | 61.7 | 66.4 | 46.7 | 58.2 | 63.0 | 55.8 | 76.0 | 59.4 | 63.6 | 51.1 | 66.1 | 62.9 | 33.1 | 65.0 | 62.1 | 56.7 | 49.0 | 50.3 | 52.6 | 50.6 | 57.8 |
| 4 | Bajaura Popcorn | 62.8 | 75.4 | 50.0 | 62.8 | 63.3 | 65.9 | 46.3 | 58.5 | 65.1 | - | 77.6 | 60.4 | 67.7 | 57.2 | 65.9 | 64.0 | 32.5 | 64.0 | 61.4 | 57.5 | 51.7 | 39.4 | 52.9 | 48.0 | 58.7 |
| 5 | VL Popcorn-2 | 61.5 | 75.0 | 54.9 | 63.8 | 60.8 | 70.3 | 48.8 | 60.0 | 63.8 | 63.3 | 79.7 | 58.9 | 66.4 | 57.5 | 65.9 | 63.5 | 28.8 | 64.0 | 66.1 | 57.6 | 59.7 | 46.1 | 52.6 | 52.8 | 60.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | VL-POPCORN(C) | 61.8 | 76.7 | 50.0 | 62.8 | 62.5 | 66.8 | 49.0 | 59.4 | 64.6 | 54.2 | 83.3 | 59.6 | 65.4 | 60.3 | 66.1 | 61.5 | 28.5 | 64.8 | 66.3 | 57.9 | 63.2 | 37.2 | 52.6 | 51.0 | 59.4 |
| Loc. Mean | | 61.9 | 71.9 | 50.2 | 61.3 | 62.1 | 64.8 | 46.9 | 57.9 | 64.1 | 53.0 | 77.6 | 58.8 | 64.0 | 53.9 | 66.1 | 62.0 | 28.8 | 63.4 | 63.2 | 56.2 | 58.8 | 41.3 | 53.0 | 51.0 | 58.0 |
| C.D. (5%) | | 4.33 | 5.04 | 3.45 | 5.30 | - | 8.78 | 3.55 | 4.48 | 3.43 | - | 9.15 | 4.56 | 7.69 | 12.96 | 0.81 | 6.10 | 4.16 | 5.39 | 5.14 | 2.92 | 12.86 | 5.53 | 0.83 | 10.82 | 2.38 |
| C.V. (%) | | 4.64 | 4.65 | 2.67 | 4.75 | - | 9.00 | 5.03 | 4.25 | 3.55 | - | 7.82 | 5.14 | 7.97 | 13.22 | 0.81 | 6.53 | 9.60 | 5.63 | 5.40 | 4.37 | 12.02 | 7.35 | 1.04 | 11.65 | 6.35 |
| F (Prob) | | 0.89 | 0.00 | 0.02 | 0.29 | 0.00 | 0.10 | 0.15 | 0.16 | 0.44 | 0.00 | 0.18 | 0.08 | 0.10 | 0.26 | 0.60 | 0.57 | 0.00 | 0.54 | 0.16 | 0.01 | 0.06 | 0.00 | 0.03 | 0.87 | 0.00 |

Table No. 26 (Continued)

| DAYS TO 50% POLLEN SHED | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | OV'L | | | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | | MAND | Mean | AMBI | CHHI | UDAI | Mean |
| 1 | KDPC-2 | 56.0 | 52.3 | 50.5 | 52.9 | 47.5 | 44.0 | 48.3 | 46.6 | 46.0 | 48.8 | 46.8 | 47.8 | 47.3 | 56.0 | 58.0 | 49.8 | 51.0 | 54.3 | 46.3 | 52.5 | 41.3 | 57.3 | 47.5 | 48.7 | 50.0 |
| 2 | BPC 3 | 63.5 | 57.3 | 56.0 | 58.9 | 52.5 | 51.3 | 52.8 | 52.2 | 52.0 | 56.0 | 50.3 | 56.5 | 53.7 | 60.0 | 58.5 | 58.3 | 51.0 | 62.0 | 53.3 | 57.2 | 45.3 | 63.0 | 55.0 | 54.4 | 55.5 |
| 3 | BPCH 27 | 63.3 | 55.5 | 51.0 | 56.6 | 51.0 | 47.3 | 49.8 | 49.3 | 50.0 | 53.5 | 49.8 | 53.3 | 51.6 | 62.0 | 56.8 | 56.0 | 52.0 | 59.3 | 50.3 | 56.0 | 47.3 | 60.3 | 51.0 | 52.9 | 53.6 |
| 4 | Bajaura Popcorn | 62.0 | 56.3 | 51.0 | 56.4 | 51.0 | 48.0 | 50.5 | 49.8 | 50.0 | 54.3 | 49.3 | 55.5 | 52.3 | 62.3 | 55.5 | 56.0 | 51.5 | 58.5 | 51.0 | 55.8 | 45.0 | 63.7 | 50.8 | 53.1 | 53.8 |
| 5 | VL Popcorn-2 | 55.0 | 53.5 | 50.0 | 52.8 | 49.3 | 45.3 | 48.5 | 47.7 | 50.0 | 51.0 | 46.0 | 51.0 | 49.5 | 60.7 | 54.0 | 52.8 | 50.5 | 55.8 | 49.5 | 53.9 | 45.7 | 57.0 | 51.3 | 51.3 | 51.4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | VL-POPCORN(C) | 57.3 | 52.5 | 50.5 | 53.4 | 47.5 | 46.3 | 49.8 | 47.8 | 49.0 | 52.0 | 48.5 | 51.8 | 50.3 | 59.7 | 54.0 | 53.3 | 51.5 | 56.8 | 49.3 | 54.1 | 43.0 | 57.7 | 51.8 | 50.8 | 51.7 |
| Loc. Mean | | 59.5 | 54.5 | 51.5 | 55.2 | 49.8 | 47.0 | 49.9 | 48.9 | 49.5 | 52.6 | 48.4 | 52.6 | 50.8 | 60.1 | 56.1 | 54.3 | 51.3 | 57.8 | 49.9 | 54.9 | 44.6 | 59.8 | 51.2 | 51.9 | 52.7 |
| C.D. (5%) | | 0.88 | 1.18 | 1.48 | 2.99 | 1.19 | 1.93 | 2.30 | 1.49 | 1.80 | 1.70 | 1.52 | 1.36 | 1.60 | 4.48 | 0.81 | 1.77 | 1.58 | 2.10 | 1.69 | 1.97 | 4.76 | 1.24 | 1.13 | 3.32 | 0.89 |
| C.V. (%) | | 0.99 | 1.43 | 1.12 | 2.98 | 1.58 | 2.73 | 3.05 | 1.68 | 2.41 | 2.14 | 2.08 | 1.71 | 2.08 | 4.09 | 0.95 | 2.16 | 2.05 | 2.41 | 2.24 | 3.02 | 5.87 | 1.14 | 1.47 | 3.51 | 2.64 |
| F (Prob) | | 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 | 0.10 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.04 | 0.00 | |
| DAYS TO 50% SILKING | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.No. | PEDIGREE | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | OV'L | | | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | | MAND | Mean | AMBI | CHHI | UDAI | Mean |
| 1 | KDPC-2 | 57.8 | 54.5 | 53.5 | 55.3 | 49.5 | 45.3 | 51.0 | 48.6 | 48.0 | 50.5 | 50.8 | 53.3 | 50.6 | 57.7 | 61.0 | 51.8 | 54.0 | 55.3 | 48.8 | 54.7 | 44.3 | 58.7 | 49.3 | 50.8 | 52.4 |
| 2 | BPC 3 | 66.0 | 59.5 | 59.0 | 61.5 | 54.5 | 52.5 | 55.8 | 54.3 | 54.0 | 58.5 | 53.8 | 61.3 | 56.9 | 62.3 | 61.5 | 61.5 | 53.8 | 63.0 | 57.0 | 59.8 | 48.3 | 65.0 | 57.8 | 57.0 | 58.2 |
| 3 | BPCH 27 | 65.5 | 58.0 | 54.5 | 59.3 | 53.0 | 48.3 | 52.8 | 51.3 | 52.0 | 55.5 | 53.0 | 58.5 | 54.8 | 62.7 | 59.0 | 57.3 | 55.0 | 60.3 | 53.3 | 57.9 | 50.3 | 62.3 | 53.5 | 55.4 | 56.0 |
| 4 | Bajaura Popcorn | 64.3 | 58.5 | 54.0 | 58.9 | 53.0 | 49.0 | 53.5 | 51.8 | 52.0 | 56.5 | 53.0 | 61.0 | 55.6 | 62.3 | 57.5 | 57.0 | 54.5 | 59.5 | 53.0 | 57.3 | 47.3 | 65.3 | 53.8 | 55.5 | 56.1 |
| 5 | VL Popcorn-2 | 56.0 | 55.5 | 54.0 | 55.2 | 51.8 | 46.3 | 51.5 | 49.8 | 52.0 | 53.0 | 49.8 | 55.3 | 52.5 | 62.3 | 56.3 | 54.8 | 53.5 | 56.8 | 52.0 | 55.9 | 48.0 | 59.0 | 53.8 | 53.6 | 53.8 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | VL-POPCORN(C) | 58.8 | 55.0 | 53.5 | 55.8 | 50.0 | 47.3 | 52.5 | 49.9 | 51.0 | 53.5 | 52.3 | 56.0 | 53.2 | 60.0 | 56.8 | 55.0 | 54.5 | 57.8 | 51.3 | 55.9 | 45.7 | 59.7 | 54.3 | 53.2 | 53.9 |
| Loc. Mean | | 61.4 | 56.8 | 54.8 | 57.7 | 52.0 | 48.1 | 52.8 | 51.0 | 51.5 | 54.6 | 52.1 | 57.5 | 53.9 | 61.2 | 58.7 | 56.2 | 54.2 | 58.8 | 52.5 | 56.9 | 47.3 | 61.7 | 53.7 | 54.2 | 55.0 |
| C.D. (5%) | | 1.13 | 1.25 | 2.51 | 3.42 | 1.31 | 1.95 | 2.32 | 1.41 | 1.80 | 1.91 | 1.70 | 1.01 | 1.79 | 5.06 | 0.76 | 1.37 | 1.45 | 2.10 | 1.36 | 2.06 | 4.93 | 1.20 | 0.84 | 3.20 | 0.94 |
| C.V. (%) | | 1.22 | 1.46 | 1.78 | 3.26 | 1.67 | 2.69 | 2.91 | 1.52 | 2.32 | 2.33 | 2.17 | 1.17 | 2.20 | 4.54 | 0.86 | 1.62 | 1.78 | 2.37 | 1.71 | 3.04 | 5.72 | 1.07 | 1.03 | 3.24 | 2.66 |
| F (Prob) | | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.02 | 0.00 | |

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Table No. 26 (Continued)

| DAYS TO 75% DRY HUSK | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | OV'L | | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | | Mean | AMBI | CHHI | UDAI | Mean |
| 1 | KDPC-2 | 103.3 | 89.8 | 87.5 | 93.5 | 81.3 | 76.0 | 78.6 | 78.0 | 82.5 | 87.0 | 82.3 | 82.4 | 95.0 | 101.0 | 87.3 | 93.0 | 99.3 | 85.8 | 93.5 | 82.7 | 96.0 | 80.8 | 86.5 | 88.2 |
| 2 | BPC 3 | 110.8 | 95.5 | 93.0 | 99.8 | 84.5 | 80.3 | 82.4 | 82.0 | 84.0 | 87.5 | 92.0 | 86.4 | 94.7 | 102.0 | 87.8 | 93.8 | 106.0 | 89.0 | 95.5 | 83.3 | 96.0 | 85.8 | 88.4 | 91.5 |
| 3 | BPCH 27 | 107.8 | 92.3 | 88.5 | 96.2 | 84.5 | 78.0 | 81.3 | 74.0 | 83.8 | 86.8 | 90.0 | 83.6 | 98.7 | 100.0 | 87.3 | 93.5 | 103.3 | 89.5 | 95.4 | 82.0 | 94.0 | 84.3 | 86.8 | 89.9 |
| 4 | Bajaura Popcorn | 109.0 | 91.8 | 88.0 | 96.3 | 83.3 | 78.5 | 80.9 | 78.0 | 84.3 | 87.3 | 88.5 | 84.5 | 96.3 | 98.0 | 86.5 | 92.5 | 102.5 | 87.5 | 93.9 | 80.0 | 95.7 | 84.8 | 86.8 | 89.6 |
| 5 | VL Popcorn-2 | 98.8 | 89.3 | 88.0 | 92.0 | 82.5 | 76.5 | 79.5 | 74.0 | 81.8 | 86.3 | 87.5 | 82.4 | 96.0 | 96.0 | 87.3 | 92.5 | 100.3 | 86.5 | 93.1 | 84.0 | 94.3 | 87.0 | 88.4 | 88.2 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | VL-POPCORN(C) | 100.3 | 89.5 | 87.5 | 92.4 | 81.3 | 77.0 | 79.1 | 73.8 | 82.5 | 87.0 | 88.0 | 82.8 | 94.7 | 96.8 | 85.5 | 92.8 | 101.3 | 79.8 | 91.8 | 80.3 | 91.3 | 84.8 | 85.5 | 87.4 |
| Loc. Mean | | 105.0 | 91.3 | 88.8 | 95.0 | 82.9 | 77.7 | 80.3 | 76.6 | 83.1 | 87.0 | 88.0 | 83.7 | 95.9 | 99.0 | 86.9 | 93.0 | 102.1 | 86.3 | 93.9 | 82.1 | 94.6 | 84.5 | 87.1 | 89.2 |
| C.D. (5%) | | 2.78 | 2.08 | 2.51 | 3.73 | 1.18 | 2.31 | 1.69 | 2.01 | 2.81 | 1.72 | 2.76 | 3.17 | 5.37 | 0.74 | 2.38 | 1.91 | 1.86 | 9.19 | 2.07 | 3.54 | 1.96 | 1.42 | 3.22 | 1.24 |
| C.V. (%) | | 1.76 | 1.51 | 1.10 | 2.16 | 0.94 | 1.97 | 0.82 | 1.74 | 2.24 | 1.31 | 2.08 | 2.52 | 3.08 | 0.50 | 1.82 | 1.36 | 1.21 | 7.07 | 1.86 | 2.37 | 1.14 | 1.11 | 2.03 | 2.10 |
| F (Prob) | | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.02 | 0.01 | 0.00 | 0.37 | 0.72 | 0.00 | 0.11 | 0.57 | 0.00 | 0.44 | 0.64 | 0.00 | 0.30 | 0.01 | 0.16 | 0.00 | 0.00 | 0.35 | 0.00 |

| PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| S.No. | PEDIGREE | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | OV'L | | | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | PANT | Mean | BAHR | DHOL | RANC | VARA | Mean | ARBH | COIM | HYDE | KARI | KOLH | | MAND | Mean | AMBI | CHHI | UDAI | Mean |
| 1 | KDPC-2 | 180.0 | 176.3 | 191.0 | 182.4 | 165.0 | 211.3 | 218.8 | 198.3 | 148.2 | 162.5 | 171.3 | 174.0 | 164.0 | 158.0 | 151.1 | 179.8 | 167.5 | 160.0 | 194.8 | 168.5 | 237.9 | 120.0 | 158.8 | 172.2 | 175.0 |
| 2 | BPC 3 | 163.8 | 198.8 | 192.5 | 185.0 | 181.3 | 211.3 | 190.8 | 194.4 | 154.1 | 196.5 | 179.4 | 184.5 | 178.6 | 192.0 | 190.3 | 195.3 | 192.5 | 180.0 | 208.3 | 193.0 | 257.1 | 143.3 | 153.8 | 184.7 | 187.6 |
| 3 | BPCH 27 | 166.3 | 163.8 | 180.5 | 170.2 | 172.5 | 198.8 | 201.3 | 190.8 | 147.6 | 161.3 | 172.9 | 149.0 | 157.7 | 180.5 | 159.6 | 178.5 | 165.0 | 166.3 | 199.8 | 174.9 | 262.5 | 111.7 | 160.0 | 178.0 | 173.5 |
| 4 | Bajaura Popcorn | 160.0 | 183.8 | 182.5 | 175.4 | 172.5 | 208.8 | 198.5 | 193.3 | 180.6 | 176.8 | 176.1 | 165.0 | 174.6 | 176.0 | 179.3 | 189.0 | 144.5 | 175.0 | 181.8 | 174.3 | 222.9 | 108.3 | 157.5 | 162.9 | 175.7 |
| 5 | VL Popcorn-2 | 162.5 | 164.5 | 160.0 | 162.3 | 161.3 | 220.0 | 177.5 | 186.3 | 144.0 | 150.3 | 174.7 | 153.0 | 155.5 | 156.5 | 148.3 | 172.8 | 134.8 | 156.3 | 192.3 | 160.1 | 239.4 | 120.0 | 146.3 | 168.6 | 165.0 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | VL-POPCORN(C) | 163.8 | 166.0 | 167.5 | 165.8 | 187.5 | 202.5 | 190.0 | 193.3 | 145.7 | 167.3 | 182.1 | 143.0 | 159.5 | 150.0 | 154.4 | 162.5 | 127.5 | 158.8 | 191.8 | 157.5 | 235.5 | 106.7 | 140.0 | 160.7 | 165.4 |
| Loc. Mean | | 166.0 | 175.5 | 179.0 | 173.5 | 173.3 | 208.8 | 196.1 | 192.7 | 153.4 | 169.1 | 176.1 | 161.4 | 165.0 | 168.8 | 163.8 | 179.6 | 155.3 | 166.0 | 194.8 | 171.4 | 242.5 | 118.3 | 152.7 | 171.2 | 173.7 |
| C.D. (5%) | | 14.00 | 22.50 | 14.99 | 16.40 | 3.97 | 14.80 | 12.54 | 22.09 | 18.51 | 21.90 | 17.42 | 4.57 | 16.32 | 9.81 | 12.72 | 9.77 | 12.59 | 28.91 | 23.37 | 11.53 | 34.64 | 16.36 | 9.36 | 18.69 | 6.91 |
| C.V. (%) | | 5.60 | 8.51 | 3.26 | 5.20 | 1.52 | 4.70 | 4.24 | 6.30 | 8.01 | 8.60 | 6.56 | 1.88 | 6.56 | 3.19 | 5.15 | 3.61 | 5.38 | 11.55 | 7.96 | 5.66 | 7.85 | 7.60 | 4.07 | 6.00 | 6.17 |
| F (Prob) | | 0.09 | 0.03 | 0.01 | 0.06 | 0.00 | 0.10 | 0.00 | 0.89 | 0.01 | 0.01 | 0.78 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.31 | 0.00 | 0.20 | 0.01 | 0.00 | 0.12 | 0.00 |

Table No. 26 (Continued)

| S.No. | PEDIGREE | EAR HEIGHT(cm) | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------------------------|----------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|
| | | ALMO | BAJA | KANG | ZN 1 Mean | KARN | LUDH | PANT | ZN 2 Mean | BAHR | DHOL | RANC | VARA | ZN 3 Mean | ARBH | COIM | HYDE | KARI | KOLH | MAND | ZN 4 Mean | AMBI | CHHI | UDAI | ZN 5 Mean | OV'L Mean |
| 1 | KDPC-2 | 87.5 | 77.5 | 92.0 | 85.7 | 77.5 | 101.3 | 96.5 | 91.8 | 74.8 | 87.0 | 79.4 | 99.0 | 85.1 | 87.0 | 79.4 | 71.0 | 49.0 | 48.8 | 93.5 | 76.0 | 97.0 | 50.0 | 88.8 | 78.6 | 82.7 |
| 2 | BPC 3 | 71.3 | 66.3 | 106.0 | 81.2 | 88.8 | 108.8 | 86.0 | 94.5 | 67.0 | 112.5 | 79.9 | 88.0 | 86.8 | 96.0 | 98.7 | 79.5 | 54.0 | 55.0 | 102.0 | 86.0 | 109.1 | 56.7 | 83.8 | 83.2 | 86.3 |
| 3 | BPCH 27 | 85.0 | 77.5 | 97.0 | 86.5 | 81.3 | 96.3 | 92.3 | 89.9 | 66.4 | 94.8 | 82.1 | 77.5 | 80.2 | 94.0 | 82.9 | 70.3 | 52.3 | 48.8 | 99.8 | 79.8 | 117.1 | 56.7 | 87.5 | 87.1 | 83.9 |
| 4 | Bajaura Popcorn | 75.0 | 97.0 | 95.5 | 89.2 | 76.3 | 101.3 | 90.5 | 89.3 | 70.7 | 100.3 | 84.4 | 81.5 | 84.2 | 88.0 | 100.7 | 74.3 | 45.8 | 61.3 | 96.0 | 80.9 | 96.4 | 50.0 | 86.3 | 77.6 | 83.9 |
| 5 | VL Popcorn-2 CHECKS | 86.3 | 80.0 | 84.5 | 83.6 | 81.3 | 116.3 | 82.8 | 93.4 | 69.8 | 81.8 | 80.5 | 85.0 | 79.2 | 80.0 | 81.7 | 66.3 | 39.8 | 51.3 | 90.5 | 71.6 | 103.4 | 51.7 | 80.0 | 78.4 | 80.1 |
| 6 | VL-POPCORN(C) | 85.0 | 76.3 | 86.0 | 82.4 | 78.8 | 87.5 | 86.0 | 84.1 | 51.5 | 91.5 | 83.5 | 71.5 | 74.5 | 76.0 | 84.9 | 64.5 | 35.0 | 53.8 | 91.5 | 70.4 | 97.7 | 48.3 | 80.0 | 75.3 | 76.4 |
| | Loc. Mean | 81.7 | 79.1 | 93.5 | 84.8 | 80.6 | 101.9 | 89.0 | 90.5 | 66.7 | 94.6 | 81.6 | 83.8 | 81.7 | 86.8 | 88.0 | 71.0 | 46.0 | 53.1 | 95.5 | 77.5 | 103.4 | 52.2 | 84.4 | 80.0 | 82.2 |
| | C.D. (5%) | 8.44 | 21.90 | 9.53 | 17.38 | 5.82 | 8.84 | 7.19 | 13.01 | 12.29 | 21.96 | 11.77 | 3.75 | 12.05 | 3.04 | 12.79 | 5.10 | 9.00 | 18.59 | 7.61 | 5.63 | 19.67 | 13.46 | 9.15 | 8.15 | 4.41 |
| | C.V. (%) | 6.86 | 18.38 | 3.96 | 11.27 | 4.79 | 5.76 | 5.36 | 7.90 | 12.23 | 15.40 | 9.57 | 2.97 | 9.79 | 1.93 | 9.64 | 4.76 | 13.00 | 23.22 | 5.28 | 5.51 | 10.45 | 14.17 | 7.20 | 5.60 | 8.10 |
| | F (Prob) | 0.00 | 0.16 | 0.02 | 0.91 | 0.01 | 0.00 | 0.01 | 0.57 | 0.02 | 0.11 | 0.92 | 0.00 | 0.31 | 0.00 | 0.01 | 0.00 | 0.00 | 0.71 | 0.03 | 0.00 | 0.21 | 0.63 | 0.24 | 0.08 | 0.00 |

Locations Rejected due to High C.V.(i.e.> 20%) : KOLHAPUR 23.2%

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Table No. 27: PERFORMANCE OF BABYCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, BHUBNESHWAR, DHOLI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KOLHAPUR, MANDYA, AMBIKAPUR, CHHINDWARA, UDAIPUR IN TRIAL No. BC12 DURING KHARIF (2013)

| | | COB WEIGHT (kg/ha) | | | | | | | | | | | |
|-------|------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|------------|------------|--|
| S.No. | PEDIGREE | ZN 1 | | | | | | ZN 2 | | | | ZN 3 | |
| | | ALMO R | BAJA R | KANG R | Mean R | KARN R | LUDH R | Mean R | BHUB R | DHOL R | VARA R | Mean R | |
| 1 | CMH-11-658 | 1040 | 952 | 2384 | 1459 | 2110 | 1669 | 2110 | 587 | 2317 | 844 | 715 | |
| 2 | CMH-11-659 | 829 | 1152 | 3009 | 1664 | 2161 | 2351 | 2161 | 612 | 1431 | 797 | 704 | |
| 3 | Vivek Hybrid-27 | 1263 | 1682 | 3079 | 2008 | 1949 | 1177 | 1949 | 730 | 1594 | 937 | 834 | |
| 4 | BIO-9637(F) | 1183 | 1168 | 4236 | 2196 | 2139 | 1648 | 2139 | 629 | 1656 | 823 | 726 | |
| 5 | PMH-3(F) | 671 | 1008 | 4414 | 2031 | 2021 | 1751 | 2021 | 785 | 1810 | 958 | 872 | |
| 6 | HM 4(C) | 796 | 1338 | 3735 | 1956 | 1856 | 1232 | 1856 | 641 | 1556 | 891 | 766 | |
| | Loc. Mean | 964 | 1217 | 3476 | 1885 | 2039 | 1638 | 2039 | 664 | 1727 | 875 | 770 | |
| | C.D. (5%) | 113.3 | 166.1 | 281.9 | 929.7 | 548.7 | 819.3 | 548.7 | 163.2 | 1328.6 | 48.6 | 63.0 | |
| | C.V. (%) | 7.8 | 7.5 | 4.5 | 27.1 | 14.8 | 33.2 | 14.8 | 16.3 | 51.0 | 3.7 | 3.2 | |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.55 | 0.79 | 0.08 | 0.79 | 0.14 | 0.77 | 0.00 | 0.00 | |

| | | COB WEIGHT (kg/ha) | | | | | | | | | | |
|-------|------------------|--------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 4 | | | | | | ZN 5 | | | OV'L | |
| | | ARBH R | COIM R | HYDE R | KOLH R | MAND R | Mean R | AMBI R | CHHI R | UDAI R | Mean R | Mean R |
| 1 | CMH-11-658 | 1563 | 3658 | 575 | 1382 | 3103 | 3380 | 1693 | 528 | 828 | 1693 | 1819 |
| 2 | CMH-11-659 | 568 | 3190 | 351 | 1395 | 4263 | 3727 | 1641 | 1139 | 870 | 1641 | 1962 |
| 3 | Vivek Hybrid-27 | 446 | 3939 | 1288 | 1292 | 5357 | 4648 | 2031 | 3361 | 1109 | 2031 | 2330 |
| 4 | BIO-9637(F) | 372 | 3891 | 1185 | 1207 | 4330 | 4110 | 3073 | 1083 | 786 | 3073 | 2386 |
| 5 | PMH-3(F) | 1088 | 5207 | 572 | 1001 | 4420 | 4813 | 3203 | 889 | 773 | 3203 | 2521 |
| 6 | HM 4(C) | 484 | 4242 | 879 | 1342 | 3415 | 3829 | 1615 | 1042 | 565 | 1615 | 2059 |
| | Loc. Mean | 753 | 4021 | 808 | 1270 | 4148 | 4085 | 2209 | 1340 | 822 | 2209 | 2179 |
| | C.D. (5%) | 865.4 | 374.5 | 268.7 | 654.6 | 532.8 | 1794.1 | 274.3 | 723.3 | 281.3 | 274.3 | 444.3 |
| | C.V. (%) | 44.7 | 6.2 | 22.1 | 34.2 | 8.5 | 17.1 | 8.2 | 29.7 | 22.7 | 8.2 | 21.4 |
| | F (Prob) | 0.08 | 0.00 | 0.00 | 0.79 | 0.00 | 0.40 | 0.00 | 0.00 | 0.03 | 0.00 | 0.02 |

Locations Rejected due to High C.V.(i.e.> 20%) : Mean#ZN 1 27.1%: LUDHIANA 33.2%: DHOLI 51.0%: ARBHAVI 44.7%: HYDERABAD 22.1%: KOLHAPUR 34.2%: CHHINDWARA 29.7%: UDAIPUR 22.7%: Mean#OV'L 21.4%

Table No. 27 (Continued)

| S.No. | PEDIGREE | GREEN EAR YIELD (kg/ha) | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------------------|-------------------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|
| | | ZN 1 | | | | | | ZN 2 | | | | | | ZN 3 | | | | | | | | | | | |
| | | ALMO | R | BAJA | R | KANG | R | Mean | R | KARN | R | LUDH | R | Mean | R | BHUB | R | DHOL | R | RANC | R | VARA | R | Mean | R |
| 1 | CMH-11-658 | 3823 | 3 | 5260 | 6 | 3773 | 6 | 4285 | 6 | 6615 | 6 | 5611 | 4 | 6113 | 4 | 1342 | 6 | 5542 | 2 | 4698 | 6 | 4573 | 4 | 4635 | 6 |
| 2 | CMH-11-659 | 2717 | 6 | 7893 | 2 | 4406 | 5 | 5005 | 4 | 7019 | 2 | 6406 | 2 | 6713 | 2 | 1827 | 5 | 5583 | 1 | 6005 | 5 | 4010 | 6 | 5008 | 5 |
| 3 | Vivek Hybrid-27 | 4875 | 1 | 8068 | 1 | 4460 | 4 | 5801 | 2 | 6733 | 5 | 4107 | 6 | 5420 | 6 | 3410 | 1 | 4917 | 6 | 9698 | 1 | 4927 | 3 | 7313 | 2 |
| 4 | BIO-9637(F) | 4869 | 2 | 7315 | 4 | 5625 | 2 | 5936 | 1 | 7014 | 3 | 6344 | 3 | 6679 | 3 | 2475 | 2 | 5083 | 5 | 7615 | 3 | 4349 | 5 | 5982 | 4 |
| 5 | PMH-3(F) | 3127 | 4 | 5946 | 5 | 5802 | 1 | 4959 | 5 | 7790 | 1 | 7846 | 1 | 7818 | 1 | 2457 | 3 | 5458 | 4 | 8656 | 2 | 5990 | 1 | 7323 | 1 |
| 6 | HM 4(C) | 2804 | 5 | 7484 | 3 | 5123 | 3 | 5137 | 3 | 6783 | 4 | 5341 | 5 | 6062 | 5 | 2163 | 4 | 5479 | 3 | 6943 | 4 | 5026 | 2 | 5984 | 3 |
| | Loc. Mean | 3702 | | 6994 | | 4865 | | 5187 | | 6993 | | 5942 | | 6468 | | 2279 | | 5344 | | 7269 | | 4813 | | 6041 | |
| | C.D. (5%) | 445.74 | | 901.19 | | 273.68 | | 1710.83 | | 1491.21 | | 1683.12 | | 1665.33 | | 968.14 | | 1913.57 | | 1966.83 | | 436.30 | | 2815.41 | |
| | C.V. (%) | 7.99 | | 7.08 | | 3.09 | | 18.13 | | 11.72 | | 18.79 | | 10.02 | | 28.19 | | 23.76 | | 17.95 | | 6.02 | | 18.13 | |
| | F (Prob) | 0.00 | | 0.00 | | 0.00 | | 0.36 | | 0.58 | | 0.01 | | 0.12 | | 0.01 | | 0.96 | | 0.00 | | 0.00 | | 0.22 | |

Locations Rejected due to High C.V.(i.e.> 20%) : BHUBNESHWAR 28.2%: DHOLI 23.8%: ARBHAVI 25.0%: KOLHAPUR 29.0%:

Table No. 27 (Continued)

| S.No. | PEDIGREE | ZN 4 | | | ZN 5 | | | OV'L | |
|-------|------------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| | | ARBH R | HYDE R | KOLH R | Mean R | AMBI R | UDAI R | Mean R | Mean R |
| 1 | CMH-11-658 | 3879 3 | 3357 4 | 8113 1 | 3357 4 | 8464 4 | 2938 5 | 5701 5 | 4911 6 |
| 2 | CMH-11-659 | 4067 2 | 2364 6 | 7540 3 | 2364 6 | 8255 5 | 3951 1 | 6103 4 | 5303 4 |
| 3 | Vivek Hybrid-27 | 2433 6 | 5306 2 | 7632 2 | 5306 2 | 10026 3 | 3490 2 | 6758 3 | 6169 3 |
| 4 | BIO-9637(F) | 2921 4 | 5600 1 | 6986 5 | 5600 1 | 15495 2 | 3078 4 | 9286 2 | 6730 2 |
| 5 | PMH-3(F) | 5342 1 | 3639 3 | 5563 6 | 3639 3 | 15885 1 | 3362 3 | 9624 1 | 6804 1 |
| | CHECKS | | | | | | | | |
| 6 | HM 4(C) | 2654 5 | 3003 5 | 7050 4 | 3003 5 | 8073 6 | 1781 6 | 4927 6 | 5236 5 |
| | Loc. Mean | 3549 | 3878 | 7147 | 3878 | 11033 | 3100 | 7066 | 5859 |
| | C.D. (5%) | 2277.30 | 1082.49 | 3124.01 | 1082.49 | 1374.55 | 517.84 | 6542.54 | 1251.74 |
| | C.V. (%) | 24.96 | 18.52 | 29.00 | 18.52 | 8.27 | 11.08 | 36.02 | 23.72 |
| | F (Prob) | 0.12 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.43 | 0.01 |

Table No. 27 (Continued)

| BABYCORN (kg/ha) without husk % SUPERIORITY OVER THE HM4 | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|-------|-------|-------|-------|------|-------|------|-------|------|------|-------|
| S.No. | PEDIGREE | ZN 1 | | | ZN 2 | | | ZN 3 | | | ZN 4 | | | ZN 5 | | | OV'L | | | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | Mean | BHUB | DHOL | VARA | Mean | ARBH | COIM | HYDE | KOLH | | MAND | Mean | AMBI | CHHI | UDAI | Mean |
| 1 | CMH-11-658 | 30.6 | -28.9 | -36.2 | -25.4 | 13.7 | 35.5 | 13.7 | -8.3 | 48.9 | -5.3 | -6.5 | 222.7 | -13.8 | -34.6 | 2.9 | -9.2 | -11.7 | 4.8 | -49.3 | 46.5 | 4.8 | -11.6 |
| 2 | CMH-11-659 | 4.2 | -13.9 | -19.4 | -15.0 | 16.5 | 90.9 | 16.5 | -4.5 | -8.0 | -10.5 | -8.0 | 17.4 | -24.8 | -60.0 | 4.0 | 24.8 | -2.7 | 1.6 | 9.3 | 53.9 | 1.6 | -4.7 |
| 3 | Vivek Hybrid-27 | 58.6 | 25.7 | -17.6 | 2.6 | 5.0 | -4.5 | 5.0 | 14.0 | 2.4 | 5.3 | 8.9 | -7.9 | -7.2 | 46.4 | -3.8 | 56.9 | 21.4 | 25.8 | 222.7 | 96.3 | 25.8 | 13.2 |
| 4 | BIO-9637(F) | 48.7 | -12.7 | 13.4 | 12.2 | 15.3 | 33.8 | 15.3 | -1.8 | 6.4 | -7.6 | -5.2 | -23.2 | -8.3 | 34.7 | -10.1 | 26.8 | 7.4 | 90.3 | 4.0 | 39.2 | 90.3 | 15.9 |
| 5 | PMH-3(F) | -15.7 | -24.7 | 18.2 | 3.8 | 8.9 | 42.2 | 8.9 | 22.6 | 16.3 | 7.6 | 13.9 | 124.6 | 22.7 | -34.9 | -25.5 | 29.4 | 25.7 | 98.4 | -14.7 | 36.9 | 98.4 | 22.4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | HM 4(C) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Locations Rejected due to High C.V.(i.e.> 20%) : Mean!ZN 1 27.1%: LUDHIANA 33.2%: DHOLI 51.0%: ARBHAVI 44.7%: HYDERABAD 22.1%: KOLHAPUR 34.2%: Mean!ZN 4 33.8%: CHHINDWARA 29.7%: UDAIPUR 22.7%: Mean#OV'L 41.4%

| GREEN EAR YIELD % SUPERIORITY OVER THE HM4 | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| S.No. | PEDIGREE | ZN 1 | | | ZN 2 | | | ZN 3 | | | ZN 4 | | | ZN 5 | | | OV'L | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | Mean | BHUB | DHOL | RANC | VARA | Mean | ARBH | HYDE | KOLH | | Mean | AMBI | UDAI | Mean |
| 1 | CMH-11-658 | 36.3 | -29.7 | -26.4 | -16.6 | -2.5 | 5.1 | 0.8 | -38.0 | 1.1 | -32.3 | -9.0 | -22.5 | 46.2 | 11.8 | 15.1 | 11.8 | 4.8 | 65.0 | 15.7 | -6.2 |
| 2 | CMH-11-659 | -3.1 | 5.5 | -14.0 | -2.6 | 3.5 | 19.9 | 10.7 | -15.5 | 1.9 | -13.5 | -20.2 | -16.3 | 53.2 | -21.3 | 7.0 | -21.3 | 2.3 | 121.8 | 23.9 | 1.3 |
| 3 | Vivek Hybrid-27 | 73.9 | 7.8 | -12.9 | 12.9 | -0.7 | -23.1 | -10.6 | 57.7 | -10.3 | 39.7 | -2.0 | 22.2 | -8.3 | 76.7 | 8.3 | 76.7 | 24.2 | 96.0 | 37.2 | 17.8 |
| 4 | BIO-9637(F) | 73.6 | -2.3 | 9.8 | 15.6 | 3.4 | 18.8 | 10.2 | 14.4 | -7.2 | 9.7 | -13.5 | 0.0 | 10.1 | 86.5 | -0.9 | 86.5 | 91.9 | 72.8 | 88.5 | 28.5 |
| 5 | PMH-3(F) | 11.5 | -20.6 | 13.3 | -3.5 | 14.8 | 46.9 | 29.0 | 13.6 | -0.4 | 24.7 | 19.2 | 22.4 | 101.3 | 21.2 | -21.1 | 21.2 | 96.8 | 88.8 | 95.3 | 29.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 6 | HM 4(C) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Locations Rejected due to High C.V.(i.e.> 20%) : BHUBNESHWAR 28.2%: DHOLI 23.8%: ARBHAVI 25.0%: KOLHAPUR 29.0%: Mean!ZN 5 36.0%: Mean#OV'L 23.7%

BR250

Table No. 27 (Continued)

| FODDER YIELD (kg/ha) | | | | | | | | | | | | | | | | | | | | |
|----------------------|------------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| S.No. | PEDIGREE | ZN 1 | | | ZN 2 | | | | | ZN 3 | | | | ZN 4 | | | ZN 5 | OV'L | | |
| | | ALMO | KANG | Mean | KARN | LUDH | Mean | BHUB | DHOL | RANC | VARA | Mean | HYDE | KOLH | MAND | Mean | GODH | UDAI | Mean | Mean |
| 1 | CMH-11-658 | 25625 | 7407 | 16516 | 21826 | 34570 | 21826 | 27552 | 19583 | 26510 | 25260 | 24727 | 11264 | 23611 | 33371 | 11264 | 2734 | 16276 | 16276 | 20145 |
| 2 | CMH-11-659 | 21333 | 6991 | 14162 | 20288 | 32738 | 20288 | 27344 | 27083 | 31552 | 21354 | 26833 | 10000 | 19445 | 28616 | 10000 | 977 | 19010 | 19010 | 20551 |
| 3 | Vivek Hybrid-27 | 20958 | 7431 | 14194 | 19815 | 27587 | 19815 | 21979 | 18750 | 29323 | 23438 | 23372 | 12542 | 20833 | 28616 | 12542 | 2409 | 11797 | 11797 | 18448 |
| 4 | BIO-9637(F) | 22833 | 13441 | 18137 | 18404 | 37775 | 18404 | 29115 | 21875 | 33828 | 25260 | 27520 | 11236 | 22222 | 28505 | 11236 | 885 | 15573 | 15573 | 21285 |
| 5 | PMH-3(F) | 23208 | 12107 | 17657 | 18903 | 46017 | 18903 | 30287 | 24896 | 38625 | 12240 | 26512 | 12069 | 17014 | 36049 | 12069 | 1484 | 19818 | 19818 | 21350 |
| 6 | HM 4(C) | 21250 | 11759 | 16505 | 17469 | 35600 | 17469 | 23672 | 20729 | 29271 | 10156 | 20957 | 12375 | 23958 | 25558 | 12375 | 1497 | 10833 | 10833 | 17502 |
| | Loc. Mean | 22535 | 9856 | 16195 | 19451 | 35714 | 19451 | 26658 | 22153 | 31518 | 19618 | 24987 | 11581 | 21181 | 30119 | 11581 | 1665 | 15551 | 15551 | 19880 |
| | C.D. (5%) | 2959 | 892 | 6171 | 5440 | 11320 | 5440 | 4086 | 4306 | 6760 | 2449 | 6686 | 1348 | 6837 | 10665 | 1348 | 2255 | 1905 | 1905 | 3191 |
| | C.V. (%) | 9 | 5 | 15 | 15 | 21 | 15 | 10 | 13 | 14 | 8 | 18 | 8 | 21 | 23 | 8 | 90 | 8 | 8 | 17 |
| | F (Prob) | 0.03 | 0.00 | 0.50 | 0.58 | 0.07 | 0.58 | 0.00 | 0.01 | 0.02 | 0.00 | 0.33 | 0.01 | 0.29 | 0.37 | 0.01 | 0.44 | 0.00 | 0.00 | 0.10 |

Locations Rejected due to High C.V.(i.e.> 20%) : LUDHIANA 21.0%: KOLHAPUR 21.4%: MANDYA 23.5%: GODHRA 89.9%

Table No. 27 (Continued)

| | | STAND AT HARVEST ('000/ha) | | | | | | | | | | | | | | | | | | | | | | OV'L |
|------------------|-----------------|----------------------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No. | PEDIGREE | ZN 1 | | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | | ZN 5 | | Mean | | | | |
| | | ALMO | BAJA | KANG | Mean | KARN | LUDH | Mean | DHOL | RANC | VARA | Mean | COIM | HYDE | KARI | KOLH | MAND | Mean | AMBI | | CHHI | GODH | UDAI | Mean |
| 1 | CMH-11-658 | 118.8 | 106.7 | 79.5 | 101.6 | 62.8 | 47.6 | 62.8 | 60.2 | 53.6 | 58.9 | 57.6 | 66.1 | 40.6 | 33.3 | 85.1 | 51.3 | 55.3 | 70.8 | 23.1 | 26.8 | 64.1 | 67.4 | 68.0 |
| 2 | CMH-11-659 | 118.8 | 108.9 | 81.8 | 103.1 | 63.6 | 38.0 | 63.6 | 69.4 | 68.8 | 59.4 | 65.8 | 66.1 | 40.7 | 48.5 | 87.8 | 54.5 | 59.5 | 69.3 | 33.1 | 14.6 | 66.9 | 68.1 | 71.7 |
| 3 | Vivek Hybrid-27 | 119.2 | 110.6 | 86.4 | 105.4 | 62.2 | 49.5 | 62.2 | 56.7 | 60.4 | 64.6 | 60.6 | 65.9 | 39.0 | 17.1 | 72.9 | 49.1 | 48.8 | 68.8 | 41.7 | 26.0 | 66.9 | 67.8 | 67.1 |
| 4 | BIO-9637(F) | 117.1 | 121.1 | 83.3 | 107.2 | 61.9 | 49.2 | 61.9 | 73.8 | 78.6 | 62.5 | 71.6 | 66.4 | 38.9 | 47.7 | 74.7 | 55.8 | 56.7 | 77.9 | 47.2 | 7.6 | 66.9 | 72.4 | 73.3 |
| 5 | PMH-3(F) | 112.9 | 122.2 | 83.3 | 106.2 | 62.2 | 59.5 | 62.2 | 78.1 | 79.2 | 52.6 | 70.0 | 65.9 | 38.8 | 44.8 | 77.4 | 58.7 | 57.1 | 79.9 | 52.8 | 14.8 | 63.8 | 71.9 | 72.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | HM 4(C) | 120.8 | 121.7 | 86.4 | 109.6 | 61.4 | 57.9 | 61.4 | 64.4 | 79.2 | 56.8 | 66.8 | 66.4 | 36.9 | 45.2 | 81.9 | 54.0 | 56.9 | 65.9 | 39.2 | 14.6 | 57.0 | 61.5 | 71.3 |
| Loc. Mean | | 117.9 | 115.2 | 83.5 | 105.5 | 62.4 | 50.3 | 62.4 | 67.1 | 70.0 | 59.1 | 65.4 | 66.1 | 39.1 | 39.4 | 80.0 | 53.9 | 55.7 | 72.1 | 39.5 | 17.4 | 64.3 | 68.2 | 70.7 |
| C.D. (5%) | | 8.01 | 7.78 | 3.74 | 8.35 | 2.13 | 19.04 | 2.13 | 12.40 | 16.71 | 2.79 | 13.95 | 0.88 | 4.24 | 3.24 | 23.70 | 8.54 | 7.57 | 6.24 | 14.66 | 13.00 | 3.21 | 9.86 | 4.31 |
| C.V. (%) | | 4.51 | 3.71 | 2.46 | 4.35 | 1.87 | 25.12 | 1.87 | 12.26 | 15.84 | 3.13 | 11.73 | 0.88 | 7.19 | 5.45 | 19.66 | 10.51 | 10.30 | 5.74 | 20.41 | 49.54 | 3.31 | 5.63 | 8.08 |
| F (Prob) | | 0.42 | 0.00 | 0.01 | 0.39 | 0.35 | 0.24 | 0.35 | 0.02 | 0.02 | 0.00 | 0.27 | 0.67 | 0.47 | 0.00 | 0.72 | 0.28 | 0.12 | 0.00 | 0.01 | 0.04 | 0.00 | 0.22 | 0.02 |

Locations Rejected due to High C.V.(i.e.> 20%) : LUDHIANA 25.1%: CHHINDWARA 20.4%: GODHRA 49.5%

| | | No. OF COBS ('000/ha) | | | | | | | | | | OV'L |
|------------------|-----------------|-----------------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|-------------|--------------|------|
| S.No. | PEDIGREE | ZN 3 | | | | | ZN 4 | | | Mean | OV'L | |
| | | ALMO | RANC | Mean | ARBH | COIM | KOLH | MAND | Mean | | | GODH |
| 1 | CMH-11-658 | 135.4 | 81.8 | 81.8 | 16.7 | 99.0 | 142.4 | 65.2 | 102.2 | 18.4 | 104.7 | |
| 2 | CMH-11-659 | 139.6 | 99.5 | 99.5 | 14.2 | 95.1 | 170.5 | 75.7 | 113.7 | 51.0 | 116.1 | |
| 3 | Vivek Hybrid-27 | 211.3 | 144.3 | 144.3 | 20.0 | 107.8 | 177.1 | 81.0 | 122.0 | 40.6 | 144.3 | |
| 4 | BIO-9637(F) | 171.7 | 123.4 | 123.4 | 12.5 | 101.0 | 167.7 | 73.4 | 114.1 | 26.7 | 127.5 | |
| 5 | PMH-3(F) | 126.3 | 135.4 | 135.4 | 18.8 | 116.9 | 216.7 | 66.3 | 133.3 | 22.6 | 132.3 | |
| CHECKS | | | | | | | | | | | | |
| 6 | HM 4(C) | 148.3 | 124.5 | 124.5 | 25.4 | 107.6 | 239.9 | 58.5 | 135.3 | 61.8 | 135.8 | |
| Loc. Mean | | 155.4 | 118.1 | 118.1 | 17.9 | 104.6 | 185.7 | 70.0 | 120.1 | 36.9 | 126.8 | |
| C.D. (5%) | | 16.70 | 33.70 | 33.70 | 23.35 | 3.40 | 54.82 | 6.62 | 39.13 | 53.30 | 28.91 | |
| C.V. (%) | | 7.13 | 18.93 | 18.93 | 50.70 | 2.16 | 19.59 | 6.27 | 17.91 | 79.48 | 17.29 | |
| F (Prob) | | 0.00 | 0.01 | 0.01 | 0.76 | 0.00 | 0.02 | 0.00 | 0.44 | 0.45 | 0.10 | |

Locations Rejected due to High C.V.(i.e.> 20%) : ARBHAVI 50.7%: GODHRA 79.5%

Table No. 27 (Continued)

| | | PLANT HEIGHT(cm) | | | | | | | | | | | | | | | | | | |
|------------------|-----------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | ZN 1 | | | ZN 2 | | | | ZN 3 | | | | ZN 4 | | | ZN 5 | | OV'L | | |
| S.No. | PEDIGREE | ALMO | KANG | Mean | KARN | LUDH | Mean | BHUB | DHOL | RANC | VARA | Mean | COIM | HYDE | KARI | Mean | CHHI | UDAI | Mean | Mean |
| 1 | CMH-11-658 | 165.0 | 153.7 | 159.3 | 186.7 | 247.5 | 217.1 | 143.3 | 202.5 | 173.8 | 155.0 | 168.7 | 204.2 | 203.8 | 208.8 | 205.6 | 115.0 | 156.3 | 135.6 | 178.1 |
| 2 | CMH-11-659 | 142.5 | 176.0 | 159.3 | 190.0 | 235.0 | 212.5 | 142.8 | 211.0 | 182.5 | 178.0 | 178.6 | 189.1 | 215.3 | 186.3 | 196.9 | 115.0 | 175.0 | 145.0 | 179.9 |
| 3 | Vivek Hybrid-27 | 140.0 | 158.0 | 149.0 | 173.3 | 213.8 | 193.5 | 137.9 | 172.3 | 170.9 | 163.0 | 161.0 | 157.4 | 177.0 | 152.5 | 162.3 | 95.0 | 137.5 | 116.3 | 157.6 |
| 4 | BIO-9637(F) | 172.5 | 229.0 | 200.8 | 165.0 | 236.3 | 200.6 | 179.0 | 210.8 | 189.5 | 175.0 | 188.5 | 207.6 | 220.0 | 210.0 | 212.5 | 118.3 | 160.0 | 139.2 | 190.2 |
| 5 | PMH-3(F) | 188.8 | 227.7 | 208.2 | 213.3 | 272.5 | 242.9 | 154.4 | 222.8 | 204.1 | 138.0 | 179.8 | 198.8 | 200.5 | 213.8 | 204.3 | 118.3 | 173.8 | 146.0 | 194.3 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 6 | HM 4(C) | 133.8 | 176.3 | 155.0 | 233.3 | 220.0 | 226.7 | 134.3 | 168.5 | 184.8 | 138.0 | 156.4 | 151.8 | 170.8 | 155.0 | 159.2 | 88.3 | 127.5 | 107.9 | 160.2 |
| Loc. Mean | | 157.1 | 186.8 | 171.9 | 193.6 | 237.5 | 215.6 | 148.6 | 198.0 | 184.3 | 157.8 | 172.2 | 184.8 | 197.9 | 187.7 | 190.1 | 108.3 | 155.0 | 131.7 | 176.7 |
| C.D. (5%) | | 10.23 | 8.90 | 43.05 | 24.39 | 30.96 | 54.87 | 4.88 | 14.53 | 17.53 | - | 21.51 | 19.01 | 30.12 | 13.87 | 15.48 | 9.39 | 16.94 | 15.89 | 12.89 |
| C.V. (%) | | 4.32 | 2.62 | 9.74 | 6.92 | 8.65 | 9.90 | 2.18 | 4.87 | 6.31 | - | 8.29 | 6.83 | 10.10 | 4.90 | 4.48 | 4.77 | 7.25 | 4.70 | 9.30 |
| F (Prob) | | 0.00 | 0.00 | 0.06 | 0.00 | 0.01 | 0.36 | 0.00 | 0.00 | 0.01 | - | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |

| | | EAR HEIGHT(cm) | | | | | | | | | | | | | | | |
|------------------|-----------------|----------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| | | ZN 1 | | | ZN 2 | | | | ZN 3 | | | ZN 4 | | | ZN 5 | | OV'L |
| S.No. | PEDIGREE | ALMO | KANG | Mean | LUDH | BHUB | RANC | VARA | Mean | COIM | HYDE | Mean | CHHI | UDAI | Mean | Mean | |
| 1 | CMH-11-658 | 75.0 | 81.7 | 78.3 | 113.8 | 67.1 | 78.6 | 48.0 | 64.6 | 102.6 | 73.5 | 88.0 | 48.3 | 76.3 | 62.3 | 76.5 | |
| 2 | CMH-11-659 | 63.8 | 85.3 | 74.5 | 118.8 | 69.5 | 82.6 | 43.0 | 65.0 | 85.7 | 80.8 | 83.2 | 50.0 | 90.0 | 70.0 | 76.9 | |
| 3 | Vivek Hybrid-27 | 63.8 | 68.7 | 66.2 | 110.0 | 58.2 | 76.1 | 43.0 | 59.1 | 72.5 | 57.5 | 65.0 | 41.7 | 58.8 | 50.2 | 65.0 | |
| 4 | BIO-9637(F) | 81.3 | 123.7 | 102.5 | 108.8 | 74.6 | 89.0 | 48.0 | 70.5 | 101.3 | 76.5 | 88.9 | 45.0 | 68.8 | 56.9 | 81.7 | |
| 5 | PMH-3(F) | 98.8 | 110.3 | 104.5 | 137.5 | 75.7 | 104.4 | 38.0 | 72.7 | 94.3 | 93.3 | 93.8 | 51.7 | 96.3 | 74.0 | 90.0 | |
| CHECKS | | | | | | | | | | | | | | | | | |
| 6 | HM 4(C) | 67.5 | 86.7 | 77.1 | 110.0 | 60.0 | 79.9 | 33.0 | 57.6 | 79.2 | 52.8 | 66.0 | 36.7 | 46.3 | 41.5 | 65.2 | |
| Loc. Mean | | 75.0 | 92.7 | 83.9 | 116.5 | 67.5 | 85.1 | 42.2 | 64.9 | 89.2 | 72.4 | 80.8 | 45.6 | 72.7 | 59.1 | 75.9 | |
| C.D. (5%) | | 8.48 | 4.62 | 25.06 | 27.98 | 4.80 | 10.86 | - | 12.10 | 20.83 | 8.60 | 21.53 | 9.35 | 10.71 | 24.27 | 8.15 | |
| C.V. (%) | | 7.50 | 2.74 | 11.63 | 15.94 | 4.72 | 8.47 | - | 10.25 | 15.49 | 7.89 | 10.37 | 11.28 | 9.77 | 15.96 | 11.93 | |
| F (Prob) | | 0.00 | 0.00 | 0.05 | 0.28 | 0.00 | 0.00 | - | 0.11 | 0.04 | 0.00 | 0.07 | 0.04 | 0.00 | 0.11 | 0.00 | |

Table No.28 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | DAYS TO 50% SILKING | | | | | | DAYS TO 75% DRY HUSK | | | | | | MOISTURE % AT HARVEST | | | | | |
|------------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|----------------------|--------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|
| | | BAJA | BARA | KANG | POON | UDHA | Mean | BAJA | BARA | KANG | POON | UDHA | Mean | BAJA | BARA | KANG | POON | UDHA | Mean | BAJA | BARA | KANG | POON | UDHA | Mean |
| 1 | EHL 2912 | 57.0 | 61.7 | 57.5 | 60.0 | 56.7 | 58.6 | 59.3 | 62.7 | 60.5 | 64.3 | 62.0 | 61.8 | 94.0 | 110.0 | 93.0 | 97.0 | 95.3 | 97.9 | 22.0 | 26.7 | 28.8 | 19.9 | 25.5 | 24.6 |
| 2 | EHL 5113 | 58.3 | 60.7 | 57.5 | 58.7 | 56.7 | 58.4 | 60.7 | 61.7 | 62.5 | 62.3 | 62.0 | 61.8 | 89.3 | 109.3 | 95.0 | 96.7 | 95.0 | 97.1 | 21.1 | 24.3 | 28.2 | 21.2 | 24.5 | 23.9 |
| 3 | EHL 5213 | 54.7 | 58.3 | 52.5 | 57.3 | 55.0 | 55.6 | 57.0 | 59.3 | 57.5 | 61.3 | 60.7 | 59.2 | 88.3 | 108.0 | 90.0 | 96.0 | 95.7 | 95.6 | 20.6 | 24.3 | 28.5 | 20.4 | 24.5 | 23.7 |
| 4 | UDMH 115 | 55.7 | 62.0 | 57.0 | 56.3 | 56.0 | 57.4 | 57.7 | 63.0 | 61.0 | 59.7 | 61.7 | 60.6 | 89.0 | 109.7 | 93.5 | 94.0 | 94.3 | 96.1 | 20.8 | 26.3 | 27.8 | 19.4 | 24.5 | 23.8 |
| 5 | EHL5313 | 55.3 | 59.3 | 55.5 | 56.7 | 55.7 | 56.5 | 57.7 | 60.3 | 58.5 | 59.7 | 61.3 | 59.5 | 88.7 | 142.0 | 91.0 | 95.0 | 93.3 | 102.0 | 20.5 | 30.3 | 28.3 | 20.6 | 25.0 | 24.9 |
| 6 | KMH-8 | 56.3 | 58.0 | 54.5 | 56.3 | 56.3 | 56.3 | 58.7 | 59.0 | 58.0 | 60.0 | 61.7 | 59.5 | 89.0 | 107.7 | 90.5 | 95.3 | 95.0 | 95.5 | 20.5 | 24.7 | 28.1 | 20.3 | 25.0 | 23.7 |
| 7 | EHL 5413 | 55.3 | 50.7 | 51.0 | 48.3 | 52.0 | 51.5 | 57.7 | 51.7 | 54.0 | 51.7 | 57.3 | 54.5 | 86.7 | 107.0 | 86.5 | 93.0 | 93.3 | 93.3 | 20.3 | 23.3 | 28.5 | 19.9 | 24.5 | 23.3 |
| 8 | EHL 5513 | 56.0 | 55.3 | 51.0 | 53.3 | 54.7 | 54.1 | 58.3 | 56.3 | 54.0 | 57.0 | 60.3 | 57.2 | 88.3 | 106.3 | 86.5 | 95.0 | 93.0 | 93.8 | 20.7 | 26.7 | 26.9 | 21.8 | 25.5 | 24.3 |
| 9 | UDMH-114 | 56.0 | 57.7 | 53.5 | 55.3 | 55.7 | 55.6 | 58.3 | 58.7 | 57.5 | 59.3 | 61.3 | 59.0 | 86.0 | 108.3 | 90.0 | 95.7 | 95.7 | 95.1 | 19.8 | 26.7 | 28.6 | 19.2 | 25.5 | 23.9 |
| 10 | EHL 5613 | 56.0 | 63.0 | 58.0 | 59.3 | 53.0 | 57.9 | 58.0 | 64.0 | 60.5 | 63.0 | 58.3 | 60.8 | 86.3 | 108.0 | 93.0 | 95.3 | 94.7 | 95.5 | 20.6 | 26.3 | 26.5 | 20.1 | 24.5 | 23.6 |
| 11 | KMH-10 | 54.7 | 61.7 | 54.5 | 57.3 | 55.3 | 56.7 | 56.7 | 62.7 | 57.0 | 60.3 | 60.3 | 59.4 | 93.0 | 108.0 | 89.5 | 96.7 | 95.7 | 96.6 | 21.1 | 25.0 | 28.5 | 20.2 | 24.5 | 23.9 |
| 12 | EHL 5713 | 56.0 | 51.3 | 50.5 | 50.7 | 52.3 | 52.2 | 58.0 | 52.3 | 53.5 | 54.3 | 58.0 | 55.2 | 82.7 | 106.7 | 86.0 | 94.0 | 93.7 | 92.6 | 19.4 | 26.7 | 25.7 | 22.1 | 25.0 | 23.8 |
| 13 | EHL 5813 | 53.3 | 50.7 | 49.5 | 49.3 | 52.7 | 51.1 | 55.3 | 51.7 | 52.5 | 52.7 | 58.3 | 54.1 | 84.7 | 107.0 | 85.0 | 94.0 | 93.3 | 92.8 | 19.2 | 28.3 | 25.8 | 22.3 | 23.0 | 23.7 |
| 14 | EHL 5913 | 54.0 | 55.3 | 52.0 | 51.7 | 52.3 | 53.1 | 57.0 | 56.3 | 55.0 | 55.0 | 57.7 | 56.2 | 85.3 | 107.7 | 87.5 | 95.3 | 92.7 | 93.7 | 20.5 | 25.7 | 29.0 | 21.3 | 25.0 | 24.3 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Bio9637 | 57.0 | 57.3 | 55.0 | 56.7 | 55.7 | 56.3 | 59.3 | 58.3 | 59.5 | 60.7 | 61.0 | 59.8 | 92.3 | 108.0 | 92.0 | 95.7 | 95.7 | 96.7 | 20.7 | 27.3 | 26.8 | 19.7 | 23.0 | 23.5 |
| 16 | Navjot | 56.7 | 59.3 | 57.0 | 57.7 | 56.0 | 57.3 | 59.0 | 60.3 | 60.0 | 61.7 | 60.7 | 60.3 | 87.0 | 108.0 | 92.5 | 95.7 | 94.7 | 95.6 | 20.7 | 24.3 | 27.5 | 19.5 | 24.0 | 23.2 |
| 17 | Local Check | 56.7 | 57.3 | 51.5 | 60.3 | 54.7 | 56.1 | 59.0 | 58.3 | 54.5 | 64.3 | 60.3 | 59.3 | 89.7 | 108.0 | 87.0 | 95.7 | 95.0 | 95.1 | 20.6 | 28.3 | 27.4 | 21.2 | 25.0 | 24.5 |
| Loc. Mean | | 55.8 | 57.6 | 54.0 | 55.6 | 54.7 | 55.6 | 58.1 | 58.6 | 57.4 | 59.3 | 60.2 | 58.7 | 88.3 | 110.0 | 89.9 | 95.3 | 94.5 | 95.6 | 20.5 | 26.2 | 27.7 | 20.5 | 24.6 | 23.9 |
| C.D. (5%) | | 1.66 | 2.51 | 2.76 | 2.51 | 3.15 | 2.27 | 1.84 | 2.51 | 2.53 | 2.79 | 3.19 | 2.39 | 2.89 | 23.22 | 2.53 | 2.20 | 2.27 | 5.07 | 0.84 | 3.70 | 2.02 | 1.54 | 1.28 | 1.42 |
| C.V. (%) | | 1.78 | 2.62 | 2.41 | 2.71 | 3.46 | 3.23 | 1.91 | 2.58 | 2.08 | 2.83 | 3.18 | 3.23 | 1.97 | 12.69 | 1.33 | 1.39 | 1.45 | 4.20 | 2.45 | 8.50 | 3.44 | 4.51 | 3.13 | 4.69 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.43 | 0.00 | 0.05 | 0.09 | 0.11 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.61 |

BR256

Table No.28 (Cont..)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | | | | | |
|------------------|-------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|------------------|-------------|--------------|--------------|--------------|----------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|
| | | BAJA | BARA | KANG | POON | UDHA | Mean | BAJA | BARA | KANG | POON | UDHA | Mean | BARA | KANG | POON | UDHA | Mean | BAJA | BARA | KANG | POON | UDHA | Mean |
| 1 | EHL 2912 | 82.1 | 60.5 | 78.4 | 81.3 | 77.0 | 75.8 | 57.4 | 49.6 | 60.0 | 48.6 | 75.0 | 58.1 | 215.7 | 218.0 | 277.9 | 218.2 | 232.5 | 143.3 | 113.3 | 121.5 | 127.5 | 98.1 | 120.7 |
| 2 | EHL 5113 | 85.0 | 78.4 | 78.9 | 84.5 | 77.7 | 80.9 | 64.8 | 48.9 | 57.8 | 49.3 | 75.7 | 59.3 | 215.7 | 231.5 | 273.3 | 209.5 | 232.5 | 135.0 | 118.7 | 129.0 | 122.9 | 90.3 | 119.2 |
| 3 | EHL 5213 | 84.8 | 78.6 | 73.3 | 85.9 | 82.2 | 80.9 | 65.7 | 53.3 | 58.9 | 45.1 | 74.3 | 59.5 | 201.3 | 236.0 | 273.7 | 230.0 | 235.3 | 138.3 | 93.7 | 125.0 | 123.7 | 92.9 | 114.7 |
| 4 | UDMH 115 | 85.0 | 76.0 | 72.8 | 81.9 | 77.1 | 78.6 | 60.2 | 48.9 | 57.8 | 45.8 | 77.8 | 58.1 | 198.3 | 208.5 | 287.7 | 231.7 | 231.6 | 151.7 | 94.0 | 111.0 | 135.0 | 102.1 | 118.7 |
| 5 | EHL5313 | 82.6 | 76.4 | 72.3 | 80.8 | 77.5 | 77.9 | 61.1 | 51.1 | 60.0 | 43.8 | 75.0 | 58.2 | 189.3 | 217.5 | 268.0 | 223.2 | 224.5 | 133.3 | 85.7 | 112.0 | 109.6 | 97.6 | 107.6 |
| 6 | KMH-8 | 86.9 | 77.8 | 80.1 | 83.3 | 80.9 | 81.8 | 69.4 | 47.4 | 63.3 | 43.1 | 70.8 | 58.8 | 191.7 | 217.5 | 289.0 | 212.0 | 227.5 | 125.0 | 81.0 | 100.0 | 110.0 | 94.0 | 102.0 |
| 7 | EHL 5413 | 84.1 | 79.9 | 79.3 | 84.9 | 81.1 | 81.9 | 60.2 | 41.5 | 60.0 | 46.5 | 72.9 | 56.2 | 177.7 | 184.0 | 244.6 | 222.7 | 207.2 | 121.7 | 78.7 | 95.0 | 101.4 | 96.9 | 98.7 |
| 8 | EHL 5513 | 87.7 | 78.0 | 75.3 | 79.8 | 83.2 | 80.8 | 61.1 | 48.9 | 60.0 | 47.2 | 75.0 | 58.4 | 175.7 | 192.5 | 268.1 | 240.3 | 219.1 | 111.7 | 71.7 | 90.5 | 97.9 | 103.2 | 95.0 |
| 9 | UDMH-114 | 84.2 | 77.8 | 72.1 | 81.2 | 81.7 | 79.4 | 58.3 | 53.3 | 60.0 | 45.8 | 75.0 | 58.5 | 203.3 | 240.0 | 295.1 | 240.0 | 244.6 | 125.0 | 85.7 | 116.0 | 123.1 | 109.6 | 111.9 |
| 10 | EHL 5613 | 83.6 | 77.3 | 76.9 | 84.3 | 76.4 | 79.7 | 57.4 | 45.9 | 57.8 | 41.7 | 72.2 | 55.0 | 197.7 | 184.0 | 261.7 | 241.0 | 221.1 | 125.0 | 101.0 | 92.5 | 110.7 | 106.6 | 107.2 |
| 11 | KMH-10 | 83.5 | 75.9 | 72.4 | 84.0 | 78.5 | 78.9 | 60.2 | 55.6 | 58.9 | 43.8 | 71.5 | 58.0 | 192.3 | 204.5 | 252.6 | 207.7 | 214.3 | 135.0 | 94.0 | 107.0 | 100.2 | 90.8 | 105.4 |
| 12 | EHL 5713 | 83.7 | 77.4 | 77.5 | 79.1 | 74.1 | 78.4 | 63.9 | 49.6 | 60.0 | 45.8 | 69.4 | 57.8 | 177.7 | 188.5 | 251.3 | 210.7 | 207.0 | 116.7 | 74.0 | 92.5 | 95.3 | 96.5 | 95.0 |
| 13 | EHL 5813 | 84.6 | 77.9 | 76.8 | 85.4 | 77.4 | 80.4 | 68.5 | 43.7 | 58.9 | 45.1 | 74.3 | 58.1 | 206.7 | 197.5 | 276.0 | 207.0 | 221.8 | 131.7 | 87.7 | 100.0 | 117.3 | 90.1 | 105.3 |
| 14 | EHL 5913 | 84.4 | 77.0 | 75.1 | 86.7 | 78.9 | 80.4 | 55.6 | 51.9 | 57.8 | 44.4 | 77.1 | 57.3 | 179.3 | 223.0 | 271.2 | 221.7 | 223.8 | 135.0 | 76.7 | 105.0 | 105.5 | 91.1 | 102.7 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Bio9637 | 81.7 | 77.8 | 76.0 | 84.5 | 74.9 | 79.0 | 62.0 | 60.0 | 57.8 | 47.9 | 75.0 | 60.5 | 181.0 | 199.0 | 247.7 | 216.0 | 210.9 | 116.7 | 85.7 | 94.0 | 96.7 | 90.5 | 96.7 |
| 16 | Navjot | 86.7 | 76.1 | 79.4 | 84.7 | 76.4 | 80.6 | 61.1 | 45.2 | 57.8 | 43.8 | 74.3 | 56.4 | 210.0 | 232.5 | 296.0 | 243.3 | 245.5 | 138.3 | 93.3 | 103.5 | 116.0 | 98.4 | 109.9 |
| 17 | Local Check | 81.3 | 77.9 | 74.7 | 81.1 | 82.8 | 79.5 | 65.7 | 52.6 | 57.8 | 45.1 | 69.4 | 58.1 | 209.0 | 187.5 | 263.7 | 216.3 | 219.1 | 140.0 | 103.7 | 91.5 | 117.5 | 94.3 | 109.4 |
| Loc. Mean | | 84.2 | 76.5 | 76.0 | 83.1 | 78.7 | 79.7 | 61.9 | 49.8 | 59.1 | 45.5 | 73.8 | 58.0 | 195.4 | 209.5 | 270.4 | 223.0 | 224.6 | 130.8 | 90.5 | 105.1 | 112.4 | 96.6 | 107.1 |
| C.D. (5%) | | 1.75 | 11.98 | 3.02 | 2.84 | 3.79 | 3.45 | 7.39 | 14.96 | 5.01 | 5.96 | 5.73 | 3.98 | 18.48 | 10.53 | 13.20 | 33.49 | 17.05 | 15.21 | 15.00 | 11.45 | 13.54 | 18.72 | 10.44 |
| C.V. (%) | | 1.25 | 9.41 | 1.87 | 2.05 | 2.90 | 3.42 | 7.17 | 18.04 | 4.00 | 7.89 | 4.67 | 5.43 | 5.69 | 2.37 | 2.93 | 9.03 | 5.34 | 6.99 | 9.97 | 5.14 | 7.25 | 11.65 | 7.72 |
| F (Prob) | | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.10 | 0.02 | 0.72 | 0.68 | 0.52 | 0.17 | 0.64 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.65 | 0.00 |

TABLE No.28A

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, POONCH, SRINAGAR, UDHAMPUR IN ZONAL TRIAL No. 28A DURING KHARIF (2013)

| SI | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID 9 | | | | | | | | GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID 39 | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------------------|-------------|-------------|-------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|---|------|----|------|----|----|----|------|--|----|----|------|----|-----|----|------|----|---|----|------|------|------|------|------|------|------|------|--|--|--|
| | No | ALMO | | | | BAJA | | | | BARA | | | | KANG | | | | POON | | | | SRIN | | | | UDHA | | | | MEAN | | | | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | MEAN | | | |
| 1 | H46 | 3192 | 27 | 8016 | 23 | 4341 | 13 | 5003 | 13 | 4434 | 8 | 9623 | 1 | 5067 | 23 | 5889 | 19 | - | - | - | - | 84 | 20 | - | - | - | - | 9 | 33 | - | 19 | - | - | | | | | | | | | | | |
| 2 | H47 | 3456 | 25 | 8229 | 20 | 3322 | 18 | 3948 | 24 | 2739 | 24 | 9278 | 2 | 4814 | 24 | 5411 | 26 | 2 | - | - | - | 14 | 16 | - | - | - | - | 5 | - | 14 | - | - | | | | | | | | | | | | |
| 3 | UDMH112 | 5550 | 10 | 10047 | 6 | 4682 | 11 | 5115 | 10 | 3520 | 18 | 8717 | 5 | 6857 | 12 | 6634 | 9 | 63 | 3 | - | - | 46 | 9 | - | 11 | 10 | 6 | 18 | 36 | - | 8 | - | 0 | | | | | | | | | | | |
| 4 | UDMH113 | 5480 | 11 | 9189 | 13 | 2702 | 21 | 4992 | 14 | 4663 | 6 | 8875 | 4 | 6932 | 11 | 6689 | 6 | 61 | - | - | - | 94 | 11 | - | 12 | 9 | - | 33 | 5 | 9 | - | 1 | | | | | | | | | | | | |
| 5 | FH3677 | 5596 | 8 | 7645 | 24 | 3167 | 20 | 5105 | 11 | 3425 | 20 | 8534 | 8 | 4417 | 27 | 5787 | 21 | 65 | - | - | - | 42 | 6 | - | - | 11 | - | 36 | - | 5 | - | - | | | | | | | | | | | | |
| 6 | FH3681 | 6174 | 6 | 5560 | 28 | 1864 | 27 | 3824 | 27 | 3949 | 12 | 7785 | 24 | 7570 | 8 | 5810 | 20 | 82 | - | - | - | 64 | - | 4 | - | 22 | - | 2 | - | - | - | - | | | | | | | | | | | | |
| 7 | FH3682 | 4797 | 14 | 9282 | 10 | 2644 | 22 | 4012 | 23 | 3961 | 11 | 7898 | 20 | 4080 | 28 | 5672 | 23 | 41 | - | - | - | 65 | - | - | - | - | - | 7 | - | - | - | - | | | | | | | | | | | | |
| 8 | FH3684 | 4265 | 20 | 10566 | 3 | 5540 | 6 | 4057 | 22 | 2362 | 28 | 7818 | 23 | 5070 | 22 | 5690 | 22 | 26 | 9 | - | - | - | - | - | - | 11 | 39 | 8 | - | - | - | - | | | | | | | | | | | | |
| 9 | FH3685 | 3576 | 24 | 8147 | 21 | 2483 | 23 | 3892 | 25 | 3482 | 19 | 8647 | 6 | 4806 | 25 | 5425 | 25 | 5 | - | - | - | 45 | 8 | - | - | - | - | 3 | - | 7 | - | - | | | | | | | | | | | | |
| 10 | EHL3813 | 4402 | 18 | 8512 | 16 | 5349 | 7 | 6560 | 2 | 3398 | 21 | 7821 | 22 | 9613 | 1 | 6717 | 5 | 30 | - | - | 27 | 41 | - | 32 | 12 | - | 35 | 74 | - | - | 9 | 2 | | | | | | | | | | | | |
| 11 | HD48 | 6736 | 2 | 9809 | 7 | 3289 | 19 | 4801 | 19 | 5279 | 2 | 7717 | 25 | 5724 | 18 | 6678 | 7 | 98 | 1 | - | - | 120 | - | - | 11 | 34 | 3 | 28 | 18 | - | - | 1 | | | | | | | | | | | | |
| 12 | KDM111 | 4376 | 19 | 8077 | 22 | 4878 | 8 | 5013 | 12 | 2599 | 26 | 9212 | 3 | 7832 | 6 | 6185 | 15 | 29 | - | - | - | 8 | 15 | 8 | 3 | - | - | 23 | 33 | - | 14 | - | - | | | | | | | | | | | |
| 13 | FH3691 | 5146 | 12 | 9203 | 12 | 2081 | 25 | 4892 | 16 | 3136 | 22 | 8251 | 10 | 5283 | 19 | 5985 | 18 | 51 | - | - | - | 30 | 3 | - | - | 2 | - | 30 | - | 2 | - | - | | | | | | | | | | | | |
| 14 | FH3692 | 2748 | 28 | 5632 | 27 | 1839 | 28 | 3878 | 26 | 3603 | 16 | 8184 | 11 | 8243 | 5 | 5381 | 28 | - | - | - | - | 50 | 2 | 13 | - | - | - | 3 | - | 1 | - | - | | | | | | | | | | | | |
| 15 | FH3693 | 4619 | 17 | 10497 | 5 | 7218 | 2 | 5857 | 5 | 4191 | 10 | 7843 | 21 | 6636 | 14 | 6607 | 11 | 36 | 8 | 30 | 14 | 74 | - | - | 10 | - | 10 | 82 | 56 | - | - | - | | | | | | | | | | | | |
| 16 | FH3700 | 6263 | 5 | 8989 | 15 | 4697 | 10 | 4441 | 21 | 2713 | 25 | 7448 | 28 | 8542 | 4 | 6399 | 12 | 84 | - | - | - | 13 | - | 18 | 7 | 24 | - | 18 | 18 | - | - | - | | | | | | | | | | | | |
| 17 | FH3706 | 4788 | 15 | 11696 | 1 | 7692 | 1 | 4823 | 18 | 5179 | 3 | 7694 | 26 | 9257 | 2 | 7240 | 2 | 41 | 20 | 38 | - | 115 | - | 27 | 21 | - | 23 | 94 | 28 | 16 | - | 5 | 9 | | | | | | | | | | | |
| 18 | FH3709 | 3806 | 23 | 5997 | 26 | 4381 | 12 | 5789 | 6 | 3855 | 13 | 8074 | 15 | 4785 | 26 | 5384 | 27 | 12 | - | - | 12 | 60 | 1 | - | - | - | - | 10 | 54 | - | - | - | | | | | | | | | | | | |
| 19 | FH3710 | 3913 | 22 | 7479 | 25 | 1928 | 26 | 4512 | 20 | 3635 | 15 | 7916 | 19 | 5279 | 20 | 5456 | 24 | 15 | - | - | - | 51 | - | - | - | - | - | 20 | - | - | - | - | | | | | | | | | | | | |
| 20 | EHL3913 | 7744 | 1 | 9045 | 14 | 6258 | 3 | 5264 | 8 | 3780 | 14 | 8138 | 13 | 5945 | 16 | 6653 | 8 | 128 | - | 12 | 2 | 57 | 1 | - | 11 | 53 | - | 58 | 40 | - | 0 | - | 1 | | | | | | | | | | | |
| 21 | EHL4013 | 6609 | 3 | 9229 | 11 | 3414 | 17 | 7849 | 1 | 4905 | 5 | 8624 | 7 | 5190 | 21 | 7068 | 3 | 95 | - | - | 52 | 104 | 8 | - | 18 | 31 | - | 109 | 10 | 6 | - | 7 | | | | | | | | | | | | |
| 22 | EHL4113 | 4668 | 16 | 8301 | 19 | 3455 | 16 | 5454 | 7 | 3044 | 23 | 8150 | 12 | 7329 | 9 | 6158 | 16 | 37 | - | - | 6 | 27 | 2 | 1 | 3 | - | - | 45 | - | 1 | - | - | | | | | | | | | | | | |
| 23 | FH3711 | 5593 | 9 | 8408 | 17 | 4749 | 9 | 4886 | 17 | 3547 | 17 | 8284 | 9 | 6705 | 13 | 6237 | 14 | 65 | - | - | - | 48 | 3 | - | 4 | 11 | - | 20 | 30 | - | 2 | - | - | | | | | | | | | | | |
| 24 | FH3713 | 4123 | 21 | 8383 | 18 | 2405 | 24 | 6517 | 3 | 4953 | 4 | 8007 | 17 | 5929 | 17 | 6319 | 13 | 21 | - | - | 26 | 106 | - | - | 5 | - | - | 73 | 11 | - | - | - | | | | | | | | | | | | |
| 25 | EHL4213 | 5898 | 7 | 11222 | 2 | 3691 | 15 | 6413 | 4 | 5367 | 1 | 7662 | 27 | 7690 | 7 | 7375 | 1 | 74 | 15 | - | 24 | 123 | - | 6 | 23 | 17 | 18 | - | 70 | 20 | - | - | 11 | | | | | | | | | | | |
| 26 | EHL4313 | 6529 | 4 | 10550 | 4 | 6198 | 4 | 4956 | 15 | 4337 | 9 | 7936 | 18 | 6476 | 15 | 6797 | 4 | 92 | 8 | 11 | - | 80 | - | - | 13 | 29 | 11 | 56 | 32 | - | - | - | 3 | | | | | | | | | | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | VIVEK HYBRID 9 | 3397 | 26 | 9724 | 8 | 5572 | 5 | 5157 | 9 | 2405 | 27 | 8018 | 16 | 7268 | 10 | 5995 | 17 | - | - | - | - | - | - | - | - | - | - | 2 | 40 | 37 | - | - | - | | | | | | | | | | | |
| 28 | VIVEK HYBRID 39 | 5045 | 13 | 9516 | 9 | 3973 | 14 | 3762 | 28 | 4456 | 7 | 8105 | 14 | 8805 | 3 | 6615 | 10 | 49 | - | - | - | 85 | 1 | 21 | 10 | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Location Mean | | 4946 | 8820 | | 4065 | | 5028 | | 3819 | | 8224 | | 6505 | | 6223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 1294 | 1275 | | 3014 | | 556 | | 1014 | | 528 | | 444 | | 852 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 15.97 | 8.83 | | 45.27 | | 5.38 | | 16.22 | | 3.92 | | 4.16 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | 0 | | 0.003 | | 0 | | 0 | | 0 | | 0 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 3.6 | 3.6 | | 3.75 | | 3.6 | | 4.8 | | 4.8 | | 4.8 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 8-07 | 22-06 | | 10-06 | | 20-06 | | 19-06 | | 31-05 | | 19-06 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harvest Date | | 12-11 | 15-10 | | 29-09 | | 30-09 | | 23-10 | | 22-10 | | 28-09 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | - | 3 | | - | | - | | - | | 3 | | - | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 80 | 120 | | 80 | | 120 | | 80 | | 90 | | 120 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | 60 | | 60 | | 60 | | 60 | | 60 | | 60 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | 40 | | 40 | | 40 | | 40 | | 40 | | 40 | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 45.3 %

BR258

Table No.28A (Cont..)

| S.No. | PEDIGREE | MOISTURE % AT HARVEST | | | | | | | | GRAIN SHELLING % | | | | | | | | STAND AT HARVEST ('000/ha) | | | | | | | | |
|------------------|-----------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean | |
| 1 | H46 | 20.2 | 17.3 | 24.0 | 23.1 | 20.7 | 13.5 | 25.5 | 20.6 | 84.5 | 81.6 | 81.2 | 76.0 | 83.2 | 79.8 | 77.8 | 80.6 | 59.3 | 65.7 | 46.2 | 76.4 | 54.2 | 81.3 | 77.1 | 69.0 | |
| 2 | H47 | 20.4 | 18.0 | 29.3 | 28.0 | 21.2 | 17.0 | 24.5 | 22.6 | 84.2 | 86.1 | 77.2 | 75.6 | 77.3 | 78.0 | 70.9 | 78.5 | 51.9 | 58.3 | 37.3 | 72.2 | 45.1 | 82.6 | 77.1 | 64.5 | |
| 3 | UDMH112 | 26.7 | 18.2 | 22.3 | 29.2 | 20.8 | 16.5 | 24.5 | 22.6 | 82.5 | 82.9 | 77.1 | 73.8 | 84.6 | 78.0 | 74.6 | 79.1 | 57.4 | 63.0 | 40.0 | 76.4 | 48.6 | 82.6 | 78.5 | 67.7 | |
| 4 | UDMH113 | 21.9 | 19.0 | 23.0 | 23.4 | 20.0 | 18.0 | 25.0 | 21.5 | 82.2 | 82.1 | 78.1 | 77.0 | 85.2 | 77.8 | 78.0 | 80.0 | 63.9 | 55.6 | 23.1 | 72.2 | 44.4 | 82.6 | 79.2 | 66.3 | |
| 5 | FH3677 | 18.9 | 17.8 | 26.3 | 22.2 | 20.6 | 16.5 | 26.0 | 21.2 | 87.6 | 85.7 | 76.5 | 73.9 | 80.6 | 78.8 | 74.4 | 79.6 | 59.3 | 64.8 | 36.4 | 75.0 | 46.5 | 83.3 | 72.9 | 67.0 | |
| 6 | FH3681 | 20.8 | 18.6 | 25.7 | 23.7 | 20.3 | 19.0 | 25.0 | 21.9 | 83.8 | 86.3 | 76.3 | 72.2 | 84.6 | 78.8 | 78.7 | 80.1 | 62.0 | 28.7 | 18.7 | 72.2 | 46.5 | 80.6 | 75.7 | 61.0 | |
| 7 | FH3682 | 21.2 | 16.9 | 24.0 | 26.1 | 22.4 | 17.5 | 24.0 | 21.7 | 85.7 | 84.3 | 78.0 | 71.9 | 82.0 | 79.3 | 73.0 | 79.2 | 59.3 | 63.9 | 26.7 | 70.8 | 47.2 | 83.3 | 70.8 | 65.9 | |
| 8 | FH3684 | 19.9 | 18.8 | 27.5 | 25.2 | 23.2 | 20.0 | 24.0 | 22.7 | 85.3 | 85.9 | 74.3 | 73.7 | 77.6 | 79.0 | 77.8 | 79.1 | 57.4 | 65.7 | 54.7 | 73.6 | 47.2 | 81.9 | 75.0 | 66.8 | |
| 9 | FH3685 | 20.7 | 19.7 | 25.0 | 26.0 | 21.7 | 19.0 | 24.0 | 22.3 | 82.4 | 82.9 | 78.1 | 74.8 | 82.9 | 79.3 | 73.0 | 79.0 | 58.3 | 59.3 | 21.3 | 79.2 | 51.4 | 81.3 | 71.5 | 66.8 | |
| 10 | EHL3813 | 23.8 | 18.4 | 23.7 | 24.2 | 20.1 | 20.0 | 25.5 | 22.2 | 85.1 | 83.3 | 77.9 | 80.4 | 81.9 | 78.0 | 79.4 | 80.9 | 55.6 | 64.8 | 36.4 | 75.0 | 45.1 | 80.6 | 76.4 | 66.2 | |
| 11 | HD48 | 23.6 | 18.4 | 26.7 | 24.0 | 22.0 | 20.0 | 25.5 | 22.9 | 85.1 | 82.5 | 75.8 | 78.1 | 86.2 | 78.3 | 76.4 | 80.3 | 58.3 | 65.7 | 31.1 | 75.0 | 47.2 | 81.9 | 74.3 | 67.1 | |
| 12 | KDM111 | 23.6 | 17.1 | 26.0 | 23.7 | 22.1 | 15.5 | 25.0 | 21.8 | 88.6 | 86.6 | 77.1 | 78.8 | 75.4 | 79.3 | 83.5 | 81.3 | 57.4 | 70.4 | 62.2 | 73.6 | 45.8 | 83.3 | 75.7 | 67.7 | |
| 13 | FH3691 | 20.7 | 17.7 | 27.0 | 24.0 | 22.3 | 18.0 | 25.5 | 22.2 | 84.6 | 82.2 | 76.6 | 77.3 | 82.0 | 78.3 | 75.5 | 79.5 | 55.6 | 64.8 | 40.0 | 72.2 | 45.8 | 83.3 | 69.4 | 65.2 | |
| 14 | FH3692 | 18.8 | 18.2 | 27.3 | 24.0 | 21.3 | 16.5 | 25.5 | 21.7 | 83.0 | 84.7 | 77.8 | 73.4 | 84.7 | 78.8 | 73.6 | 79.4 | 51.9 | 57.4 | 33.8 | 75.0 | 46.5 | 81.9 | 75.7 | 64.7 | |
| 15 | FH3693 | 21.9 | 18.6 | 24.7 | 22.8 | 20.8 | 17.5 | 24.5 | 21.5 | 83.1 | 82.2 | 80.5 | 75.7 | 83.7 | 79.5 | 78.5 | 80.5 | 57.4 | 72.2 | 48.9 | 76.4 | 48.6 | 82.6 | 77.1 | 69.1 | |
| 16 | FH3700 | 23.7 | 18.6 | 24.7 | 27.9 | 22.7 | 20.0 | 25.0 | 23.2 | 85.3 | 84.8 | 78.2 | 78.5 | 77.6 | 79.8 | 77.4 | 80.2 | 60.2 | 64.8 | 37.3 | 75.0 | 45.1 | 80.6 | 78.5 | 67.4 | |
| 17 | FH3706 | 25.5 | 20.6 | 25.0 | 23.7 | 23.7 | 18.5 | 25.5 | 23.2 | 85.1 | 86.4 | 76.3 | 72.5 | 85.9 | 79.3 | 79.2 | 80.7 | 61.1 | 65.7 | 48.9 | 72.2 | 50.0 | 82.6 | 77.1 | 68.1 | |
| 18 | FH3709 | 20.3 | 18.1 | 24.7 | 22.4 | 21.7 | 16.5 | 25.5 | 21.3 | 80.7 | 80.3 | 77.7 | 78.3 | 81.9 | 79.5 | 74.1 | 78.9 | 57.4 | 64.8 | 51.6 | 77.8 | 50.7 | 82.6 | 75.0 | 68.1 | |
| 19 | FH3710 | 18.4 | 18.3 | 25.0 | 25.3 | 21.6 | 17.0 | 24.0 | 21.4 | 84.5 | 81.9 | 77.2 | 73.8 | 81.8 | 79.8 | 75.9 | 79.3 | 59.3 | 63.0 | 24.9 | 76.4 | 47.2 | 82.6 | 77.1 | 67.6 | |
| 20 | EHL3913 | 21.2 | 17.6 | 25.7 | 23.3 | 22.5 | 17.5 | 26.0 | 22.0 | 85.0 | 84.3 | 78.3 | 80.1 | 83.3 | 79.3 | 79.3 | 81.4 | 61.1 | 59.3 | 48.0 | 72.2 | 42.4 | 81.9 | 72.2 | 64.9 | |
| 21 | EHL4013 | 22.6 | 17.5 | 25.3 | 25.0 | 21.2 | 21.5 | 25.0 | 22.6 | 84.8 | 82.9 | 78.3 | 82.6 | 84.7 | 78.3 | 76.3 | 81.1 | 57.4 | 66.7 | 32.9 | 80.6 | 48.6 | 81.9 | 77.1 | 68.7 | |
| 22 | EHL4113 | 20.1 | 17.1 | 23.0 | 24.8 | 21.7 | 16.5 | 25.5 | 21.2 | 84.8 | 83.7 | 79.1 | 80.1 | 79.5 | 79.8 | 78.2 | 80.7 | 58.3 | 60.2 | 50.7 | 79.2 | 48.6 | 81.9 | 77.1 | 67.6 | |
| 23 | FH3711 | 21.2 | 18.1 | 24.7 | 22.9 | 23.2 | 17.5 | 24.5 | 21.7 | 83.3 | 82.2 | 74.5 | 81.3 | 81.9 | 78.5 | 79.3 | 80.1 | 60.2 | 67.6 | 48.9 | 73.6 | 46.5 | 82.6 | 76.4 | 67.8 | |
| 24 | FH3713 | 20.6 | 17.4 | 25.0 | 27.4 | 20.6 | 17.5 | 25.0 | 21.9 | 83.1 | 81.9 | 77.0 | 79.1 | 83.3 | 78.8 | 74.4 | 79.7 | 61.1 | 66.7 | 25.8 | 73.6 | 48.6 | 81.9 | 74.3 | 67.7 | |
| 25 | EHL4213 | 22.4 | 17.8 | 24.7 | 25.3 | 21.1 | 19.5 | 24.0 | 22.1 | 84.8 | 86.1 | 76.9 | 76.6 | 82.2 | 78.0 | 76.9 | 80.2 | 58.3 | 64.8 | 40.0 | 79.2 | 47.2 | 83.3 | 73.6 | 67.7 | |
| 26 | EHL4313 | 25.0 | 17.7 | 25.3 | 22.7 | 20.7 | 16.5 | 25.5 | 21.9 | 83.0 | 83.3 | 78.3 | 81.8 | 84.8 | 79.5 | 75.5 | 80.9 | 61.1 | 68.5 | 48.0 | 75.0 | 47.2 | 82.6 | 76.4 | 68.5 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | VIVEK HYBRID 9 | 19.1 | 18.3 | 25.7 | 25.7 | 21.8 | 16.5 | 24.0 | 21.6 | 85.1 | 88.3 | 78.5 | 78.9 | 73.1 | 79.3 | 76.5 | 79.9 | 56.5 | 64.8 | 48.9 | 76.4 | 44.4 | 82.6 | 74.3 | 66.5 | |
| 28 | VIVEK HYBRID 39 | 20.9 | 18.9 | 23.3 | 25.6 | 22.2 | 16.5 | 25.0 | 21.8 | 83.1 | 82.3 | 78.8 | 72.6 | 81.3 | 78.3 | 78.1 | 79.2 | 58.3 | 64.8 | 49.8 | 73.6 | 52.8 | 82.6 | 77.8 | 68.3 | |
| Loc. Mean | | 21.6 | 18.1 | 25.2 | 24.7 | 21.6 | 17.7 | 24.9 | 22.0 | 84.3 | 83.9 | 77.6 | 76.7 | 81.9 | 78.9 | 76.6 | 80.0 | 58.4 | 62.9 | 39.7 | 75.0 | 47.5 | 82.3 | 75.5 | 66.9 | |
| C.D. (5%) | | 1.63 | 0.98 | 3.58 | 3.57 | 2.12 | 0.40 | 1.02 | 1.50 | 1.47 | 1.98 | 2.38 | 4.34 | 3.92 | 0.21 | 2.51 | 2.44 | 7.24 | 6.79 | 21.55 | 5.48 | 6.60 | 2.07 | 3.28 | 4.22 | |
| C.V. (%) | | 4.61 | 3.31 | 8.70 | 7.06 | 6.01 | 1.38 | 2.50 | 6.47 | 1.07 | 1.44 | 1.88 | 2.76 | 2.92 | 0.16 | 2.00 | 2.88 | 7.58 | 6.60 | 33.13 | 3.56 | 8.49 | 1.53 | 2.66 | 5.52 | |
| F (Prob) | | 0.00 | 0.00 | 0.12 | 0.03 | 0.05 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.37 | 0.00 | 0.01 | 0.07 | 0.24 | 0.20 | 0.00 | 0.18 | |

Locations Rejected due to High C.V.(i.e.> 20%) : BARAPANI 33.1%

Table No.28A (Cont..)

| S.No. PEDIGREE | PLANT HEIGHT(cm) | | | | | | | | EAR HEIGHT(cm) | | | | | | | |
|--------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean |
| 1 H46 | 190.0 | 243.3 | 199.5 | 200.5 | 243.3 | 168.3 | 199.3 | 206.3 | 90.0 | 123.3 | 102.9 | 100.0 | 88.0 | 93.3 | 102.5 | 100.0 |
| 2 H47 | 203.3 | 245.0 | 216.5 | 187.5 | 253.3 | 181.7 | 207.3 | 213.5 | 81.7 | 133.3 | 107.7 | 93.5 | 83.4 | 88.3 | 97.4 | 97.9 |
| 3 UDMH112 | 208.3 | 240.0 | 219.7 | 177.5 | 252.3 | 185.0 | 225.0 | 215.4 | 113.3 | 138.3 | 110.6 | 93.0 | 101.3 | 98.3 | 96.2 | 107.3 |
| 4 UDMH113 | 208.3 | 238.3 | 205.7 | 186.5 | 252.9 | 183.3 | 187.3 | 208.9 | 96.7 | 130.0 | 102.1 | 98.5 | 97.9 | 93.3 | 91.9 | 101.5 |
| 5 FH3677 | 191.7 | 205.0 | 175.9 | 189.5 | 224.1 | 173.3 | 189.9 | 192.8 | 86.7 | 133.3 | 74.9 | 85.0 | 74.9 | 78.3 | 82.7 | 88.0 |
| 6 FH3681 | 181.7 | 190.0 | 151.6 | 167.5 | 195.3 | 165.0 | 187.3 | 176.9 | 83.3 | 88.3 | 59.0 | 83.5 | 63.2 | 85.0 | 83.0 | 77.9 |
| 7 FH3682 | 176.7 | 205.0 | 161.0 | 153.5 | 219.1 | 173.3 | 160.7 | 178.5 | 80.0 | 105.0 | 74.8 | 66.0 | 70.6 | 73.3 | 72.8 | 77.5 |
| 8 FH3684 | 176.7 | 206.7 | 167.1 | 145.5 | 208.9 | 138.3 | 199.3 | 177.5 | 76.7 | 103.3 | 80.0 | 67.5 | 68.3 | 70.0 | 92.2 | 79.7 |
| 9 FH3685 | 181.7 | 185.0 | 156.1 | 144.0 | 216.3 | 130.0 | 169.0 | 168.9 | 85.0 | 80.0 | 59.1 | 72.0 | 61.9 | 65.0 | 77.3 | 71.5 |
| 10 EHL3813 | 181.7 | 191.7 | 183.7 | 150.0 | 224.5 | 125.0 | 181.3 | 176.8 | 91.7 | 125.0 | 92.3 | 84.0 | 81.6 | 75.0 | 87.9 | 91.1 |
| 11 HD48 | 173.3 | 193.3 | 156.1 | 160.5 | 207.1 | 126.7 | 164.0 | 168.7 | 78.3 | 93.3 | 61.1 | 78.5 | 61.4 | 65.0 | 77.4 | 73.6 |
| 12 KDM111 | 181.7 | 175.0 | 151.4 | 154.5 | 183.9 | 113.3 | 161.3 | 160.2 | 90.0 | 93.3 | 82.3 | 72.0 | 71.5 | 61.7 | 82.9 | 79.1 |
| 13 FH3691 | 200.0 | 230.0 | 188.6 | 172.5 | 229.0 | 160.0 | 232.3 | 201.8 | 91.7 | 105.0 | 76.6 | 78.0 | 74.3 | 83.3 | 95.1 | 86.3 |
| 14 FH3692 | 193.3 | 240.0 | 198.3 | 163.5 | 222.1 | 175.0 | 201.2 | 199.1 | 103.3 | 153.3 | 109.3 | 88.5 | 98.5 | 101.7 | 94.5 | 107.0 |
| 15 FH3693 | 193.3 | 238.3 | 210.5 | 195.5 | 251.0 | 166.7 | 201.7 | 208.1 | 85.0 | 133.3 | 102.5 | 93.5 | 92.9 | 75.0 | 89.7 | 96.0 |
| 16 FH3700 | 200.0 | 213.3 | 185.5 | 152.5 | 239.7 | 171.7 | 191.3 | 193.4 | 96.7 | 120.0 | 85.1 | 69.5 | 86.9 | 83.3 | 89.4 | 90.1 |
| 17 FH3706 | 201.7 | 241.7 | 201.5 | 180.0 | 249.2 | 173.3 | 215.7 | 209.0 | 98.3 | 136.7 | 105.8 | 86.5 | 89.3 | 95.0 | 96.4 | 101.1 |
| 18 FH3709 | 190.0 | 175.0 | 154.9 | 150.5 | 200.8 | 131.7 | 178.3 | 168.7 | 90.0 | 85.0 | 62.2 | 72.0 | 67.8 | 66.7 | 86.7 | 75.8 |
| 19 FH3710 | 191.7 | 208.3 | 171.1 | 175.0 | 230.1 | 165.0 | 172.7 | 187.7 | 80.0 | 90.0 | 66.7 | 69.0 | 70.7 | 83.3 | 81.8 | 77.4 |
| 20 EHL3913 | 193.3 | 206.7 | 179.0 | 175.0 | 212.1 | 158.3 | 203.0 | 189.6 | 86.7 | 115.0 | 88.7 | 97.5 | 81.9 | 91.7 | 95.3 | 93.8 |
| 21 EHL4013 | 188.3 | 221.7 | 169.5 | 187.0 | 234.7 | 150.0 | 197.5 | 192.7 | 93.3 | 111.7 | 79.2 | 97.5 | 94.5 | 68.3 | 91.5 | 90.9 |
| 22 EHL4113 | 188.3 | 193.3 | 168.4 | 171.5 | 194.5 | 141.7 | 196.3 | 179.1 | 95.0 | 100.0 | 77.3 | 78.5 | 58.7 | 73.3 | 85.9 | 81.3 |
| 23 FH3711 | 190.0 | 213.3 | 170.3 | 181.5 | 226.4 | 168.3 | 184.7 | 190.6 | 90.0 | 118.3 | 78.5 | 93.5 | 78.5 | 93.3 | 82.1 | 90.6 |
| 24 FH3713 | 191.7 | 228.3 | 189.6 | 193.0 | 244.4 | 165.0 | 217.0 | 204.1 | 78.3 | 118.3 | 80.1 | 94.0 | 84.7 | 68.3 | 93.1 | 88.1 |
| 25 EHL4213 | 176.7 | 208.3 | 168.6 | 168.5 | 233.8 | 141.7 | 215.7 | 187.6 | 76.7 | 106.7 | 81.0 | 83.0 | 85.1 | 65.0 | 103.2 | 85.8 |
| 26 EHL4313 | 215.0 | 230.0 | 204.1 | 178.0 | 237.7 | 138.3 | 189.7 | 199.0 | 108.3 | 109.0 | 96.1 | 80.0 | 78.4 | 70.0 | 86.1 | 89.7 |
| CHECKS | | | | | | | | | | | | | | | | |
| 27 VIVEK HYBRID 9 | 193.3 | 218.3 | 198.5 | 170.0 | 230.1 | 158.3 | 197.7 | 195.2 | 93.3 | 111.7 | 93.9 | 85.0 | 81.9 | 80.0 | 90.4 | 90.9 |
| 28 VIVEK HYBRID 39 | 198.3 | 223.3 | 197.4 | 192.5 | 240.8 | 180.0 | 179.7 | 201.7 | 90.0 | 120.0 | 96.7 | 92.0 | 86.7 | 85.0 | 86.0 | 93.8 |
| Loc. Mean | 191.4 | 214.6 | 182.1 | 172.3 | 227.0 | 157.4 | 193.1 | 191.1 | 89.6 | 113.6 | 85.2 | 84.0 | 79.8 | 79.6 | 89.0 | 88.7 |
| C.D. (5%) | 16.13 | 26.02 | 16.40 | 13.69 | 17.11 | 6.75 | 45.14 | 11.95 | 12.88 | 20.71 | 16.11 | 8.86 | 12.45 | 5.67 | 16.07 | 8.87 |
| C.V. (%) | 5.15 | 7.41 | 5.50 | 3.87 | 4.60 | 2.62 | 14.28 | 5.93 | 8.77 | 11.14 | 11.55 | 5.14 | 9.53 | 4.35 | 11.03 | 9.47 |
| F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 |

BR260

Table No.28A (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | | | | DAYS TO 50% SILKING | | | | | | | | DAYS TO 75% DRY HUSK | | | | | | | |
|--------|------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|
| | | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean | ALMO | BAJA | BARA | KANG | POON | SRIN | UDHA | Mean |
| 1 | H46 | 55.7 | 51.7 | 53.3 | 50.5 | 49.3 | 65.7 | 54.7 | 54.4 | 57.0 | 53.7 | 54.3 | 53.0 | 53.3 | 68.7 | 59.7 | 57.1 | 99.7 | 87.3 | 110.3 | 84.5 | 88.0 | 115.0 | 94.3 | 97.0 |
| 2 | H47 | 54.7 | 50.7 | 54.3 | 51.0 | 51.7 | 61.3 | 50.7 | 53.5 | 56.0 | 52.7 | 55.3 | 54.5 | 55.7 | 64.3 | 56.0 | 56.4 | 98.3 | 86.3 | 110.7 | 86.0 | 90.7 | 107.7 | 93.3 | 96.1 |
| 3 | UDMH112 | 62.0 | 55.0 | 60.7 | 55.0 | 57.7 | 75.0 | 56.3 | 60.2 | 63.0 | 57.3 | 61.7 | 59.5 | 61.7 | 78.0 | 62.0 | 63.3 | 109.7 | 89.3 | 111.0 | 91.0 | 100.7 | 122.0 | 95.7 | 102.8 |
| 4 | UDMH113 | 57.3 | 52.7 | 55.7 | 55.5 | 57.0 | 74.3 | 54.0 | 58.1 | 58.0 | 54.7 | 56.7 | 57.5 | 60.7 | 77.3 | 59.7 | 60.6 | 103.3 | 86.0 | 110.3 | 89.0 | 97.0 | 121.3 | 94.3 | 100.2 |
| 5 | FH3677 | 53.7 | 50.3 | 51.7 | 49.5 | 48.0 | 67.7 | 50.7 | 53.1 | 54.7 | 52.7 | 52.7 | 52.0 | 51.3 | 70.7 | 56.0 | 55.7 | 99.3 | 86.0 | 110.7 | 83.5 | 87.0 | 116.0 | 93.0 | 96.5 |
| 6 | FH3681 | 56.0 | 51.0 | 56.0 | 52.0 | 55.3 | 70.3 | 53.0 | 56.2 | 58.0 | 53.3 | 57.0 | 54.5 | 59.0 | 73.3 | 58.7 | 59.1 | 104.7 | 93.7 | 110.3 | 86.0 | 98.0 | 119.7 | 92.7 | 100.7 |
| 7 | FH3682 | 55.0 | 53.0 | 57.3 | 56.0 | 54.7 | 73.0 | 53.0 | 57.4 | 56.7 | 55.0 | 58.3 | 59.0 | 59.3 | 76.0 | 58.7 | 60.4 | 99.7 | 86.0 | 110.0 | 90.5 | 93.7 | 125.0 | 93.3 | 99.7 |
| 8 | FH3684 | 56.3 | 52.7 | 56.0 | 57.0 | 58.3 | 78.0 | 55.7 | 59.1 | 58.0 | 54.7 | 57.0 | 60.0 | 63.0 | 81.0 | 60.3 | 62.0 | 102.7 | 89.3 | 111.0 | 91.5 | 99.0 | 125.7 | 94.7 | 102.0 |
| 9 | FH3685 | 58.0 | 53.7 | 56.0 | 56.5 | 59.3 | 78.3 | 55.7 | 59.6 | 60.0 | 55.7 | 57.0 | 59.0 | 63.3 | 81.3 | 61.3 | 62.5 | 104.0 | 86.7 | 110.7 | 90.5 | 98.0 | 126.3 | 93.3 | 101.4 |
| 10 | EHL3813 | 58.0 | 55.0 | 58.0 | 56.5 | 58.3 | 78.0 | 56.3 | 60.0 | 60.0 | 57.0 | 59.0 | 59.5 | 62.3 | 81.0 | 61.3 | 62.9 | 106.3 | 86.7 | 110.3 | 91.0 | 99.3 | 123.7 | 97.0 | 102.0 |
| 11 | HD48 | 58.3 | 53.3 | 56.7 | 54.5 | 55.7 | 75.3 | 56.3 | 58.6 | 59.3 | 55.3 | 57.7 | 58.0 | 59.7 | 78.3 | 61.3 | 61.4 | 109.3 | 92.3 | 110.7 | 89.5 | 98.7 | 125.3 | 95.7 | 103.1 |
| 12 | KDM111 | 54.7 | 50.7 | 51.3 | 51.0 | 49.3 | 70.3 | 50.0 | 53.9 | 55.3 | 53.0 | 52.3 | 54.0 | 52.7 | 73.3 | 55.3 | 56.6 | 99.0 | 85.0 | 110.3 | 85.5 | 86.0 | 121.0 | 92.3 | 97.0 |
| 13 | FH3691 | 56.3 | 53.0 | 57.7 | 53.0 | 52.7 | 72.3 | 52.7 | 56.8 | 56.7 | 55.3 | 58.7 | 55.5 | 56.7 | 75.3 | 57.3 | 59.4 | 106.3 | 87.3 | 110.7 | 87.0 | 92.3 | 119.0 | 79.7 | 97.5 |
| 14 | FH3692 | 55.0 | 52.7 | 54.0 | 52.5 | 51.7 | 72.3 | 52.0 | 55.7 | 57.7 | 54.7 | 55.0 | 57.0 | 55.7 | 75.3 | 57.3 | 59.0 | 99.3 | 90.3 | 110.7 | 88.5 | 88.3 | 122.7 | 93.7 | 99.1 |
| 15 | FH3693 | 58.7 | 54.0 | 59.7 | 55.0 | 59.3 | 73.7 | 56.0 | 59.5 | 59.0 | 56.0 | 60.7 | 57.5 | 63.3 | 76.7 | 61.7 | 62.1 | 103.7 | 87.3 | 110.3 | 89.0 | 98.7 | 122.0 | 95.0 | 100.9 |
| 16 | FH3700 | 55.0 | 52.7 | 55.3 | 56.0 | 59.0 | 76.3 | 54.0 | 58.3 | 56.0 | 55.0 | 56.3 | 60.5 | 62.7 | 79.3 | 60.0 | 61.4 | 102.7 | 85.3 | 110.7 | 92.0 | 97.3 | 124.3 | 96.0 | 101.2 |
| 17 | FH3706 | 60.3 | 54.7 | 58.7 | 59.0 | 58.0 | 76.3 | 56.7 | 60.5 | 61.3 | 56.7 | 59.7 | 63.0 | 62.0 | 79.3 | 62.0 | 63.4 | 104.7 | 86.3 | 110.3 | 94.5 | 97.7 | 126.7 | 93.3 | 101.9 |
| 18 | FH3709 | 54.3 | 50.3 | 54.7 | 51.0 | 52.0 | 72.3 | 50.7 | 55.0 | 55.3 | 52.7 | 55.7 | 54.5 | 56.0 | 75.3 | 56.3 | 58.0 | 98.7 | 83.3 | 110.7 | 86.0 | 88.3 | 121.3 | 94.0 | 97.5 |
| 19 | FH3710 | 54.3 | 50.3 | 54.3 | 50.5 | 49.3 | 68.3 | 49.7 | 53.8 | 55.3 | 52.3 | 55.3 | 53.0 | 53.3 | 71.3 | 54.7 | 56.5 | 96.3 | 83.7 | 110.7 | 84.5 | 88.0 | 116.7 | 91.7 | 95.9 |
| 20 | EHL3913 | 55.0 | 53.0 | 54.7 | 53.0 | 60.0 | 75.0 | 55.7 | 58.0 | 56.3 | 55.0 | 55.7 | 56.0 | 64.3 | 78.0 | 61.0 | 60.9 | 101.7 | 88.7 | 110.3 | 87.5 | 100.0 | 123.0 | 95.0 | 100.9 |
| 21 | EHL4013 | 58.3 | 52.7 | 59.7 | 51.5 | 55.7 | 78.3 | 52.3 | 58.4 | 60.0 | 54.7 | 60.7 | 55.0 | 59.7 | 81.3 | 57.7 | 61.3 | 106.3 | 88.3 | 110.3 | 86.5 | 98.0 | 127.7 | 92.3 | 101.4 |
| 22 | EHL4113 | 53.0 | 50.3 | 51.0 | 50.0 | 48.3 | 67.3 | 50.3 | 52.9 | 54.0 | 52.0 | 52.0 | 52.5 | 52.3 | 70.3 | 55.3 | 55.5 | 97.0 | 83.0 | 110.0 | 84.0 | 87.7 | 117.7 | 91.0 | 95.8 |
| 23 | FH3711 | 54.7 | 51.0 | 52.7 | 50.5 | 52.3 | 67.0 | 52.0 | 54.3 | 56.3 | 53.7 | 53.7 | 53.0 | 56.3 | 70.0 | 57.7 | 57.2 | 98.7 | 83.3 | 109.7 | 84.5 | 95.3 | 123.7 | 92.7 | 98.3 |
| 24 | FH3713 | 55.3 | 51.0 | 55.7 | 50.5 | 50.7 | 70.7 | 52.7 | 55.2 | 56.7 | 53.0 | 56.7 | 53.0 | 54.7 | 73.7 | 57.3 | 57.9 | 100.3 | 84.3 | 110.7 | 84.5 | 87.3 | 121.3 | 95.3 | 97.7 |
| 25 | EHL4213 | 55.3 | 53.3 | 55.3 | 51.5 | 52.3 | 71.0 | 55.7 | 56.4 | 56.0 | 55.3 | 56.3 | 55.5 | 56.3 | 74.0 | 61.3 | 59.3 | 107.7 | 90.3 | 110.7 | 87.0 | 96.7 | 128.7 | 94.0 | 102.1 |
| 26 | EHL4313 | 54.7 | 52.3 | 54.7 | 52.5 | 54.3 | 72.3 | 55.3 | 56.6 | 56.3 | 54.7 | 55.7 | 55.0 | 58.0 | 75.3 | 61.0 | 59.4 | 102.3 | 87.0 | 110.0 | 86.5 | 96.0 | 123.3 | 95.0 | 100.0 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | VIVEK HYBRID 9 | 55.0 | 51.0 | 52.3 | 52.5 | 53.7 | 72.3 | 52.0 | 55.5 | 56.0 | 53.0 | 53.3 | 55.0 | 57.7 | 75.3 | 57.7 | 58.3 | 98.7 | 83.0 | 110.3 | 86.5 | 93.3 | 123.3 | 95.0 | 98.6 |
| 28 | VIVEK HYBRID 39 | 55.0 | 50.7 | 53.3 | 50.5 | 51.3 | 67.3 | 51.7 | 54.3 | 56.3 | 53.0 | 54.3 | 53.0 | 55.3 | 70.3 | 57.7 | 57.1 | 106.3 | 85.3 | 110.0 | 84.5 | 88.0 | 119.7 | 94.0 | 98.3 |
| | Loc. Mean | 56.1 | 52.2 | 55.4 | 53.0 | 54.1 | 72.2 | 53.4 | 56.6 | 57.3 | 54.4 | 56.4 | 56.1 | 58.1 | 75.2 | 58.8 | 59.5 | 102.4 | 86.8 | 110.4 | 87.6 | 93.9 | 121.8 | 93.5 | 99.5 |
| | C.D. (5%) | 1.44 | 1.69 | 2.75 | 3.17 | 1.48 | 1.44 | 2.22 | 1.80 | 1.60 | 1.51 | 2.75 | 3.44 | 1.52 | 1.44 | 2.43 | 1.84 | 2.29 | 2.47 | 1.12 | 3.44 | 2.71 | 4.08 | 7.64 | 2.95 |
| | C.V. (%) | 1.57 | 1.97 | 3.04 | 2.91 | 1.67 | 1.22 | 2.54 | 3.02 | 1.71 | 1.69 | 2.98 | 2.99 | 1.60 | 1.17 | 2.52 | 2.93 | 1.37 | 1.74 | 0.62 | 1.92 | 1.76 | 2.05 | 4.99 | 2.81 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 |

TABLE No. 29

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, LUDHIANA, PANTNAGAR IN ZONAL TRIAL No. 201 DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | |
|----------------------|----------|------------------------|----|-------------|----|-------------|------|--------------|----|-------------|----|--------------------------------|------|------|------|------|--------------------------------|------|------|------|------|----|
| | | 15% MOISTURE | | | | | ZN 2 | | | | | PMH-3 | | | | | THE DHM | | | | | |
| | | DELH | R | KARN | R | LUDH | R | PANT | R | MEAN | R | DELH | KARN | LUDH | PANT | MEAN | DELH | KARN | LUDH | PANT | MEAN | |
| 1 | AH-1263 | 4068 | 18 | 8635 | 14 | 3796 | 17 | 6057 | 11 | 5500 | 18 | - | - | - | - | - | - | 1 | - | - | - | |
| 2 | AH-1264 | 6124 | 14 | 8639 | 13 | 3743 | 18 | 5685 | 13 | 6168 | 16 | - | - | - | - | - | - | 1 | - | - | - | |
| 3 | AH-1265 | 4614 | 17 | 8163 | 18 | 4137 | 16 | 5603 | 15 | 5638 | 17 | - | - | - | - | - | - | - | - | - | - | |
| 4 | AH-1266 | 5432 | 16 | 8690 | 12 | 5447 | 15 | 5471 | 17 | 6523 | 15 | - | - | - | - | - | - | 1 | - | - | - | |
| 5 | AH-1267 | 7100 | 12 | 8742 | 11 | 6631 | 14 | 5684 | 14 | 7491 | 12 | - | - | - | - | - | - | 2 | - | - | - | |
| 6 | AH-1268 | 5716 | 15 | 8898 | 10 | 6637 | 13 | 6935 | 5 | 7084 | 14 | - | - | - | 12 | - | - | 4 | - | 0 | - | |
| 7 | AH-1269 | 6229 | 13 | 8909 | 9 | 7278 | 12 | 6950 | 4 | 7472 | 13 | - | - | - | 12 | - | - | 4 | - | 0 | - | |
| 8 | JH-12082 | 7467 | 7 | 8475 | 17 | 7950 | 5 | 4647 | 18 | 7964 | 11 | - | - | 1 | - | - | - | - | 3 | - | - | |
| 9 | JH-12165 | 7724 | 6 | 10076 | 2 | 8191 | 4 | 8447 | 1 | 8664 | 3 | - | 4 | 4 | 36 | - | - | - | 17 | 6 | 22 | 6 |
| 10 | JH12059 | 8631 | 2 | 9531 | 4 | 7388 | 11 | 5736 | 12 | 8517 | 5 | - | - | - | - | - | - | 5 | 11 | - | - | 4 |
| 11 | JH-12196 | 7123 | 11 | 8572 | 16 | 8239 | 3 | 6744 | 9 | 7978 | 10 | - | - | 4 | 9 | - | - | - | - | 6 | - | - |
| 12 | JH-12035 | 7406 | 8 | 9018 | 8 | 7790 | 7 | 5534 | 16 | 8072 | 9 | - | - | - | - | - | - | - | 5 | 0 | - | - |
| 13 | JH-12077 | 8112 | 4 | 9181 | 7 | 10031 | 1 | 8011 | 3 | 9108 | 1 | - | - | 27 | 29 | 1 | - | - | 7 | 29 | 16 | 11 |
| 14 | JH-13001 | 7151 | 9 | 9296 | 5 | 9298 | 2 | 8208 | 2 | 8582 | 4 | - | - | 18 | 33 | - | - | - | 8 | 20 | 19 | 5 |
| 15 | JH-31607 | 7996 | 5 | 9186 | 6 | 7557 | 10 | 6926 | 6 | 8247 | 7 | - | - | - | 12 | - | - | - | 7 | - | 0 | 1 |
| 16 | JH-31634 | 7137 | 10 | 10102 | 1 | 7700 | 9 | 6792 | 8 | 8313 | 6 | - | 4 | - | 10 | - | - | - | 18 | - | - | 1 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | |
| 17 | PMH-3 | 9546 | 1 | 9682 | 3 | 7905 | 6 | 6192 | 10 | 9044 | 2 | - | - | - | - | - | - | 16 | 13 | 2 | - | 10 |
| 18 | DHM11 | 8260 | 3 | 8582 | 15 | 7753 | 8 | 6922 | 7 | 8198 | 8 | - | - | - | 12 | - | - | - | - | - | - | - |
| Location Mean | | 6991 | | 9021 | | 7082 | | 6475 | | 7698 | | | | | | | | | | | | |
| C.D. (5%) | | 1047 | | 722 | | 1568 | | 2427 | | 1112 | | | | | | | | | | | | |
| C.V. (%) | | 9.02 | | 4.82 | | 13.33 | | 22.56 | | - | | | | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | 0.111 | | | | | | | | | | | | | | |
| Plot Size | | 6 | | 6 | | 5.46 | | 6 | | - | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 15-07 | | 8-07 | | 8-07 | | 4-08 | | - | | | | | | | | | | | | |
| Harvest Date | | 16-10 | | 12-10 | | 19-10 | | 22-11 | | - | | | | | | | | | | | | |
| Irrigation Nos | | 2 | | 6 | | 5 | | 1 | | - | | | | | | | | | | | | |
| Fertilizer Applied N | | 120 | | 150 | | 125 | | 120 | | - | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 60 | | 60 | | 60 | | - | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | | 60 | | 30 | | 40 | | - | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): PANT 22.6 %

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Table No.29 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | MOISTURE % AT HARVEST | | | | |
|-------|------------------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|
| | | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | Mean | DELH | KARN | LUDH | PANT | Mean |
| 1 | AH-1263 | 44.0 | 51.7 | 48.3 | 48.7 | 48.2 | 47.0 | 53.7 | 49.3 | 51.7 | 50.4 | 84.3 | 87.7 | 79.3 | 83.8 | 21.2 | 21.2 | 21.1 | 25.8 | 22.3 |
| 2 | AH-1264 | 45.7 | 51.0 | 47.3 | 47.3 | 47.8 | 47.7 | 53.3 | 48.0 | 50.3 | 49.8 | 84.0 | 91.3 | 79.0 | 84.8 | 19.5 | 23.0 | 20.3 | 22.7 | 21.4 |
| 3 | AH-1265 | 46.7 | 52.3 | 49.0 | 49.3 | 49.3 | 49.3 | 54.3 | 50.0 | 52.3 | 51.5 | 86.7 | 89.0 | 81.0 | 85.6 | 21.4 | 21.2 | 22.8 | 28.7 | 23.5 |
| 4 | AH-1266 | 48.7 | 53.7 | 52.3 | 50.7 | 51.3 | 51.3 | 55.7 | 53.3 | 54.3 | 53.7 | 86.7 | 91.3 | 83.0 | 87.0 | 24.9 | 21.3 | 25.6 | 27.3 | 24.8 |
| 5 | AH-1267 | 49.3 | 52.0 | 49.3 | 50.7 | 50.3 | 53.3 | 54.7 | 50.3 | 53.7 | 53.0 | 85.3 | 89.0 | 80.3 | 84.9 | 25.1 | 22.3 | 26.4 | 27.9 | 25.4 |
| 6 | AH-1268 | 51.0 | 52.3 | 47.3 | 54.0 | 51.2 | 54.7 | 54.7 | 48.3 | 58.0 | 53.9 | 86.7 | 88.7 | 80.0 | 85.1 | 27.3 | 22.9 | 26.7 | 28.7 | 26.4 |
| 7 | AH-1269 | 50.3 | 54.0 | 48.0 | 54.0 | 51.6 | 53.7 | 56.3 | 49.0 | 58.0 | 54.3 | 88.7 | 91.0 | 80.3 | 86.7 | 24.6 | 21.9 | 25.8 | 26.9 | 24.8 |
| 8 | JH-12082 | 49.3 | 53.7 | 52.3 | 52.7 | 52.0 | 53.3 | 55.7 | 53.3 | 56.0 | 54.6 | 87.0 | 90.7 | 82.3 | 86.7 | 25.1 | 22.4 | 25.1 | 27.8 | 25.1 |
| 9 | JH-12165 | 49.7 | 54.0 | 46.7 | 50.7 | 50.3 | 53.0 | 56.0 | 47.7 | 54.0 | 52.7 | 86.0 | 89.0 | 78.0 | 84.3 | 26.2 | 22.5 | 21.9 | 27.6 | 24.5 |
| 10 | JH12059 | 48.7 | 54.3 | 49.3 | 50.7 | 50.8 | 52.7 | 56.3 | 50.3 | 53.7 | 53.3 | 88.0 | 90.3 | 81.0 | 86.4 | 27.2 | 24.1 | 25.2 | 28.2 | 26.2 |
| 11 | JH-12196 | 53.0 | 55.3 | 52.7 | 53.7 | 53.7 | 56.3 | 57.3 | 54.3 | 57.3 | 56.3 | 87.7 | 91.0 | 83.0 | 87.2 | 28.0 | 24.5 | 26.9 | 28.2 | 26.9 |
| 12 | JH-12035 | 50.0 | 52.7 | 52.0 | 51.3 | 51.5 | 53.0 | 54.7 | 53.3 | 54.3 | 53.8 | 90.3 | 90.3 | 83.0 | 87.9 | 28.1 | 23.9 | 26.1 | 27.5 | 26.4 |
| 13 | JH-12077 | 49.7 | 53.7 | 52.0 | 50.3 | 51.4 | 53.0 | 56.0 | 53.3 | 53.3 | 53.9 | 88.0 | 91.3 | 83.7 | 87.7 | 26.6 | 21.7 | 26.6 | 27.8 | 25.7 |
| 14 | JH-13001 | 49.0 | 54.3 | 52.3 | 51.7 | 51.8 | 52.7 | 56.3 | 53.7 | 55.0 | 54.4 | 90.3 | 89.7 | 83.0 | 87.7 | 28.3 | 22.9 | 29.0 | 27.1 | 26.8 |
| 15 | JH-31607 | 49.7 | 52.3 | 50.3 | 49.7 | 50.5 | 53.3 | 54.3 | 51.3 | 52.7 | 52.9 | 86.0 | 88.7 | 82.0 | 85.6 | 27.3 | 24.1 | 28.4 | 27.6 | 26.8 |
| 16 | JH-31634 | 49.3 | 54.0 | 52.7 | 51.0 | 51.8 | 53.7 | 56.0 | 54.0 | 54.3 | 54.5 | 93.3 | 89.7 | 83.0 | 88.7 | 27.7 | 23.1 | 26.7 | 28.0 | 26.4 |
| | CHECKS | | | | | | | | | | | | | | | | | | | |
| 17 | PMH-3 | 49.7 | 54.0 | 50.0 | 53.0 | 51.7 | 53.0 | 56.0 | 51.0 | 56.3 | 54.1 | 86.3 | 89.0 | 81.0 | 85.4 | 27.9 | 22.8 | 27.4 | 27.6 | 26.4 |
| 18 | DHM11 | 49.7 | 55.3 | 47.3 | 51.7 | 51.0 | 53.0 | 57.7 | 48.3 | 54.7 | 53.4 | 86.3 | 90.3 | 80.3 | 85.7 | 27.3 | 22.0 | 27.7 | 28.7 | 26.4 |
| | Loc. Mean | 49.1 | 53.4 | 50.0 | 51.2 | 50.9 | 52.4 | 55.5 | 51.1 | 54.4 | 53.4 | 87.3 | 89.9 | 81.3 | 86.2 | 25.8 | 22.6 | 25.5 | 27.4 | 25.3 |
| | C.D. (5%) | 1.80 | 1.54 | 1.12 | 2.06 | 1.97 | 1.65 | 1.64 | 1.41 | 2.25 | 2.18 | 1.41 | 1.48 | 1.62 | 2.23 | 2.59 | 0.82 | 1.01 | 2.47 | 1.98 |
| | C.V. (%) | 2.21 | 1.74 | 1.35 | 2.43 | 2.73 | 1.90 | 1.78 | 1.66 | 2.49 | 2.87 | 0.97 | 1.00 | 1.20 | 1.56 | 6.06 | 2.17 | 2.39 | 5.42 | 5.51 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |

Table No.29 (Cont..)

| S.No PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | |
|------------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|
| | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean |
| 1 AH-1263 | 82.6 | 67.9 | 80.3 | 85.5 | 79.0 | 65.0 | 60.6 | 58.0 | 51.7 | 58.8 | 170.7 | 150.0 | 180.0 | 206.7 | 176.8 | 66.7 | 96.7 | 90.7 | 84.7 |
| 2 AH-1264 | 83.5 | 68.0 | 82.6 | 86.6 | 80.2 | 65.0 | 58.3 | 58.6 | 48.3 | 57.6 | 189.3 | 175.0 | 181.7 | 244.7 | 197.7 | 83.3 | 96.7 | 109.3 | 96.4 |
| 3 AH-1265 | 80.7 | 66.1 | 80.9 | 83.4 | 77.8 | 66.7 | 59.4 | 54.3 | 49.4 | 57.5 | 178.3 | 155.0 | 181.7 | 220.0 | 183.8 | 76.7 | 98.3 | 95.0 | 90.0 |
| 4 AH-1266 | 79.4 | 66.8 | 83.3 | 82.7 | 78.1 | 65.0 | 58.9 | 62.3 | 42.8 | 57.2 | 198.3 | 186.7 | 205.0 | 241.0 | 207.8 | 86.7 | 110.0 | 114.0 | 103.6 |
| 5 AH-1267 | 80.0 | 65.9 | 87.5 | 81.1 | 78.6 | 61.7 | 58.9 | 62.9 | 45.0 | 57.1 | 195.0 | 171.7 | 211.7 | 238.7 | 204.3 | 81.7 | 120.0 | 114.3 | 105.3 |
| 6 AH-1268 | 80.1 | 65.9 | 85.6 | 83.0 | 78.6 | 66.7 | 58.9 | 67.8 | 47.8 | 60.3 | 203.3 | 163.3 | 225.0 | 238.0 | 207.4 | 78.3 | 121.7 | 116.3 | 105.4 |
| 7 AH-1269 | 81.3 | 66.0 | 82.3 | 85.9 | 78.9 | 67.8 | 62.2 | 69.6 | 44.4 | 61.0 | 201.7 | 171.7 | 223.3 | 234.3 | 207.8 | 90.0 | 118.3 | 105.3 | 104.6 |
| 8 JH-12082 | 80.7 | 68.2 | 82.6 | 82.5 | 78.5 | 67.8 | 57.2 | 70.2 | 51.7 | 61.7 | 241.7 | 176.7 | 246.7 | 235.0 | 225.0 | 78.3 | 145.0 | 109.7 | 111.0 |
| 9 JH-12165 | 82.8 | 68.7 | 85.7 | 87.2 | 81.1 | 68.3 | 57.2 | 64.1 | 48.3 | 59.5 | 230.0 | 181.7 | 265.0 | 270.0 | 236.7 | 96.7 | 128.3 | 124.7 | 116.6 |
| 10 JH12059 | 81.6 | 66.7 | 82.3 | 85.0 | 78.9 | 62.2 | 59.4 | 61.7 | 47.2 | 57.6 | 223.3 | 166.7 | 255.0 | 263.3 | 227.1 | 86.7 | 156.7 | 127.7 | 123.7 |
| 11 JH-12196 | 79.1 | 67.6 | 81.7 | 84.8 | 78.3 | 64.4 | 59.4 | 67.2 | 49.4 | 60.1 | 222.7 | 171.7 | 226.7 | 255.7 | 219.2 | 83.3 | 120.0 | 113.3 | 105.6 |
| 12 JH-12035 | 81.4 | 66.5 | 82.0 | 83.8 | 78.4 | 66.7 | 58.9 | 65.9 | 52.2 | 60.9 | 222.7 | 190.0 | 248.3 | 280.7 | 235.4 | 105.0 | 138.3 | 132.0 | 125.1 |
| 13 JH-12077 | 86.6 | 66.1 | 86.4 | 89.7 | 82.2 | 65.6 | 58.9 | 72.6 | 53.9 | 62.7 | 238.3 | 188.3 | 288.3 | 278.0 | 248.3 | 101.7 | 131.7 | 123.7 | 119.0 |
| 14 JH-13001 | 76.3 | 66.1 | 84.3 | 84.4 | 77.7 | 62.2 | 58.3 | 64.1 | 48.9 | 58.4 | 230.0 | 201.7 | 256.7 | 283.7 | 243.0 | 111.7 | 151.7 | 133.0 | 132.1 |
| 15 JH-31607 | 80.4 | 68.1 | 82.8 | 84.0 | 78.8 | 67.8 | 61.1 | 61.1 | 51.1 | 60.3 | 219.3 | 183.3 | 235.0 | 272.3 | 227.5 | 86.7 | 120.0 | 128.7 | 111.8 |
| 16 JH-31634 | 79.2 | 68.0 | 81.6 | 83.0 | 77.9 | 66.7 | 62.8 | 69.0 | 53.3 | 62.9 | 238.3 | 185.0 | 270.0 | 262.3 | 238.9 | 91.7 | 146.7 | 127.3 | 121.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 17 PMH-3 | 83.0 | 67.4 | 83.7 | 87.7 | 80.4 | 68.3 | 58.9 | 71.4 | 48.9 | 61.9 | 245.0 | 181.7 | 270.0 | 275.0 | 242.9 | 96.7 | 148.3 | 130.3 | 125.1 |
| 18 DHM11 | 77.6 | 65.9 | 85.1 | 85.4 | 78.5 | 66.1 | 57.8 | 67.2 | 49.4 | 60.1 | 235.0 | 178.3 | 278.3 | 275.0 | 241.7 | 95.0 | 146.7 | 125.7 | 122.4 |
| Loc. Mean | 80.9 | 67.0 | 83.4 | 84.7 | 79.0 | 65.8 | 59.3 | 64.9 | 49.1 | 59.8 | 215.7 | 176.6 | 236.0 | 254.1 | 220.6 | 88.7 | 127.5 | 117.8 | 111.3 |
| C.D. (5%) | 2.18 | 0.64 | 1.93 | 3.27 | 2.49 | 4.71 | 2.60 | 10.68 | 5.15 | 4.19 | 10.30 | 10.78 | 16.12 | 20.38 | 18.89 | 7.96 | 15.32 | 13.95 | 14.18 |
| C.V. (%) | 1.63 | 0.58 | 1.39 | 2.33 | 2.22 | 4.32 | 2.64 | 9.92 | 6.32 | 4.94 | 2.88 | 3.68 | 4.12 | 4.83 | 6.03 | 5.41 | 7.24 | 7.13 | 7.67 |
| F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.11 | 0.00 | 0.07 | 0.01 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table No.30 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | MOISTURE % AT HARVEST | | | | |
|------------------|-----------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|
| | | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | Mean | DELH | KARN | LUDH | PANT | Mean |
| 1 | AH-1270 | 44.3 | 49.3 | 43.0 | 46.0 | 45.7 | 46.7 | 51.3 | 44.0 | 49.0 | 47.8 | 85.0 | 83.0 | 74.0 | 80.7 | 21.6 | 21.9 | 23.5 | 27.2 | 23.5 |
| 2 | AH-1271 | 45.7 | 52.0 | 42.3 | 46.7 | 46.7 | 48.7 | 54.0 | 43.3 | 49.3 | 48.8 | 87.3 | 84.0 | 74.7 | 82.0 | 19.7 | 24.6 | 21.9 | 21.2 | 21.9 |
| 3 | AH-1272 | 44.3 | 51.0 | 42.7 | 46.3 | 46.1 | 47.7 | 53.0 | 43.7 | 49.0 | 48.3 | 85.7 | 83.0 | 75.3 | 81.3 | 19.3 | 24.7 | 21.9 | 27.0 | 23.2 |
| 4 | AH-1273 | 45.0 | 50.7 | 44.3 | 47.0 | 46.8 | 48.0 | 52.7 | 45.3 | 50.0 | 49.0 | 86.3 | 83.0 | 76.7 | 82.0 | 22.8 | 23.8 | 21.8 | 27.1 | 23.9 |
| 5 | AH-1274 | 51.0 | 52.7 | 45.7 | 50.3 | 49.9 | 54.0 | 54.7 | 46.7 | 53.0 | 52.1 | 90.7 | 85.7 | 78.0 | 84.8 | 27.6 | 24.0 | 26.4 | 28.7 | 26.7 |
| 6 | AH-1275 | 44.0 | 50.3 | 45.3 | 44.3 | 46.0 | 47.3 | 52.3 | 46.3 | 47.7 | 48.4 | 85.3 | 84.7 | 78.3 | 82.8 | 20.9 | 22.0 | 20.3 | 27.0 | 22.5 |
| 7 | AH-1276 | 46.0 | 48.7 | 44.0 | 45.0 | 45.9 | 48.3 | 50.7 | 45.0 | 48.0 | 48.0 | 85.3 | 82.0 | 75.0 | 80.8 | 21.5 | 23.8 | 22.0 | 28.3 | 23.9 |
| 8 | AH-1277 | 46.0 | 50.0 | 43.3 | 46.3 | 46.4 | 48.3 | 52.0 | 44.3 | 49.3 | 48.5 | 86.0 | 84.0 | 75.3 | 81.8 | 21.8 | 22.5 | 21.9 | 27.8 | 23.5 |
| 9 | AH-1278 | 49.7 | 51.0 | 46.0 | 48.3 | 48.8 | 53.0 | 53.0 | 47.0 | 51.3 | 51.1 | 87.7 | 82.7 | 78.7 | 83.0 | 27.2 | 23.4 | 24.8 | 27.4 | 25.7 |
| 10 | AH-1279 | 45.7 | 49.3 | 45.7 | 47.7 | 47.1 | 48.7 | 51.3 | 47.0 | 50.7 | 49.4 | 87.0 | 82.0 | 78.0 | 82.3 | 23.4 | 23.3 | 23.0 | 28.6 | 24.6 |
| 11 | AH-1280 | 47.0 | 52.0 | 46.3 | 47.0 | 48.1 | 50.3 | 54.0 | 47.3 | 50.0 | 50.4 | 86.0 | 85.3 | 77.0 | 82.8 | 23.9 | 23.4 | 23.1 | 28.6 | 24.7 |
| 12 | AH-1281 | 48.7 | 50.3 | 44.3 | 48.7 | 48.0 | 52.0 | 52.0 | 45.3 | 51.7 | 50.3 | 87.7 | 85.0 | 75.3 | 82.7 | 23.7 | 24.6 | 22.9 | 28.5 | 24.9 |
| 13 | AH-1282 | 45.0 | 51.0 | 42.3 | 47.0 | 46.3 | 48.0 | 53.0 | 43.3 | 50.0 | 48.6 | 87.0 | 83.0 | 74.3 | 81.4 | 21.5 | 28.1 | 23.8 | 25.0 | 24.6 |
| 14 | AH-1283 | 45.7 | 49.7 | 43.7 | 46.7 | 46.4 | 48.0 | 51.7 | 44.7 | 49.7 | 48.5 | 88.0 | 82.0 | 75.3 | 81.8 | 26.7 | 22.9 | 25.2 | 28.3 | 25.8 |
| 15 | JH-31605 | 47.0 | 49.3 | 43.3 | 46.7 | 46.6 | 49.7 | 52.0 | 44.3 | 49.7 | 48.9 | 86.3 | 84.7 | 75.0 | 82.0 | 25.4 | 26.3 | 26.2 | 28.9 | 26.7 |
| 16 | JH-31627 | 48.7 | 52.0 | 45.3 | 47.0 | 48.3 | 52.7 | 54.0 | 46.3 | 49.3 | 50.6 | 85.7 | 85.0 | 77.7 | 82.8 | 25.5 | 26.5 | 24.5 | 29.0 | 26.4 |
| 17 | REH2012-8 | 49.0 | 49.0 | 44.0 | 48.0 | 47.5 | 52.3 | 51.3 | 45.0 | 51.0 | 49.9 | 88.3 | 82.3 | 77.7 | 82.8 | 22.7 | 27.8 | 23.6 | 29.5 | 25.9 |
| 18 | REH2012-9 | 46.0 | 52.3 | 43.3 | 47.7 | 47.3 | 49.3 | 54.3 | 44.3 | 50.7 | 49.7 | 86.3 | 85.0 | 75.0 | 82.1 | 23.0 | 22.2 | 23.0 | 28.3 | 24.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 19 | BIO-9637 | 48.7 | 50.0 | 44.3 | 48.0 | 47.8 | 52.0 | 52.0 | 45.3 | 51.0 | 50.1 | 89.0 | 82.3 | 78.7 | 83.3 | 26.4 | 27.1 | 25.8 | 28.5 | 26.9 |
| 20 | PMH-4 | 45.0 | 50.0 | 46.0 | 47.0 | 47.0 | 48.0 | 52.3 | 47.0 | 49.7 | 49.3 | 86.7 | 82.3 | 79.0 | 82.7 | 22.4 | 27.1 | 23.0 | 28.5 | 25.2 |
| Loc. Mean | | 46.6 | 50.5 | 44.3 | 47.1 | 47.1 | 49.7 | 52.6 | 45.3 | 50.0 | 49.4 | 86.9 | 83.6 | 76.5 | 82.3 | 23.3 | 24.5 | 23.4 | 27.7 | 24.7 |
| C.D. (5%) | | 1.66 | 1.49 | 1.12 | 1.38 | 1.65 | 1.28 | 1.46 | 1.13 | 1.50 | 1.72 | 1.60 | 1.52 | 1.78 | 2.27 | 2.89 | 0.97 | 1.62 | 2.68 | 2.26 |
| C.V. (%) | | 2.15 | 1.79 | 1.54 | 1.77 | 2.47 | 1.56 | 1.68 | 1.51 | 1.81 | 2.46 | 1.11 | 1.10 | 1.41 | 1.67 | 7.48 | 2.39 | 4.18 | 5.87 | 6.44 |
| 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 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE No.31

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, LUDHIANA, IN ZONAL TRIAL No. 203 DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | |
|----------------------|------------|-------------------------------------|------|-------------|------|-------------|------|--------------|------|-------------|--------------------------------|------|------|------|------|--------------------------------|------|------|------|------|---|
| | | DELH | | | | | ZN 2 | | | | THE PMH-5 | | | | | THE PRAKASH | | | | | |
| | | R | KARN | R | LUDH | R | PANT | R | MEAN | R | DELH | KARN | LUDH | PANT | MEAN | DELH | KARN | LUDH | PANT | MEAN | |
| 1 | AH-1284 | 7470 | 5 | 8001 | 14 | 5215 | 13 | 7165 | 12 | 6895 | 11 | - | 20 | - | - | 3 | - | 1 | - | 15 | - |
| 2 | AH-1285 | 6068 | 17 | 8644 | 5 | 6027 | 6 | 6949 | 15 | 6913 | 10 | - | 30 | 15 | - | 3 | - | 10 | - | 12 | - |
| 3 | AH-1286 | 8146 | 3 | 6797 | 19 | 5920 | 7 | 6234 | 17 | 6954 | 8 | - | 2 | 13 | - | 4 | - | - | - | 0 | - |
| 4 | AH-1287 | 7899 | 4 | 8157 | 12 | 6667 | 3 | 9374 | 3 | 7575 | 3 | - | 22 | 27 | 27 | 13 | - | 3 | - | 51 | - |
| 5 | AH-1288 | 6701 | 14 | 8451 | 11 | 6085 | 5 | 9688 | 2 | 7079 | 7 | - | 27 | 16 | 31 | 6 | - | 7 | - | 56 | - |
| 6 | AH-1289 | 7102 | 10 | 8856 | 3 | 6138 | 4 | 7969 | 6 | 7365 | 4 | - | 33 | 17 | 8 | 10 | - | 12 | - | 28 | - |
| 7 | AH-1290 | 7415 | 6 | 8456 | 10 | 7281 | 2 | 7898 | 7 | 7717 | 2 | - | 27 | 39 | 7 | 15 | - | 7 | - | 27 | - |
| 8 | AH-1291 | 7206 | 7 | 8963 | 2 | 5716 | 8 | 10501 | 1 | 7295 | 5 | - | 34 | 9 | 42 | 9 | - | 14 | - | 69 | - |
| 9 | AH-1292 | 6950 | 11 | 8101 | 13 | 5395 | 10 | 8103 | 5 | 6815 | 12 | - | 22 | 3 | 10 | 2 | - | 3 | - | 30 | - |
| 10 | AH-1293 | 7169 | 8 | 8551 | 6 | 5024 | 16 | 7567 | 9 | 6915 | 9 | - | 28 | - | 3 | 3 | - | 8 | - | 22 | - |
| 11 | AH-1294 | 6692 | 15 | 8512 | 8 | 3816 | 19 | 5868 | 20 | 6340 | 17 | - | 28 | - | - | - | - | 8 | - | - | - |
| 12 | AH-1295 | 6107 | 16 | 7499 | 18 | 4690 | 17 | 6121 | 19 | 6099 | 19 | - | 13 | - | - | - | - | - | - | - | - |
| 13 | AH-1296 | 6831 | 13 | 8987 | 1 | 5445 | 9 | 8592 | 4 | 7088 | 6 | - | 35 | 4 | 17 | 6 | - | 14 | - | 38 | - |
| 14 | AH-1297 | 5585 | 20 | 8539 | 7 | 3739 | 20 | 7365 | 11 | 5954 | 20 | - | 28 | - | - | - | - | 8 | - | 19 | - |
| 15 | REH212-11 | 5879 | 19 | 8659 | 4 | 5047 | 15 | 7085 | 14 | 6528 | 15 | - | 30 | - | - | - | - | 10 | - | 14 | - |
| 16 | REH2012-12 | 7153 | 9 | 7941 | 15 | 5294 | 11 | 6834 | 16 | 6796 | 13 | - | 19 | 1 | - | 1 | - | 1 | - | 10 | - |
| 17 | DH-272 | 6901 | 12 | 7592 | 17 | 5056 | 14 | 7089 | 13 | 6516 | 16 | - | 14 | - | - | - | - | - | - | 14 | - |
| 18 | DH-273 | 6035 | 18 | 8505 | 9 | 4467 | 18 | 7617 | 8 | 6336 | 18 | - | 28 | - | 3 | - | - | 8 | - | 23 | - |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 19 | PMH-5 | 8226 | 2 | 6666 | 20 | 5236 | 12 | 7374 | 10 | 6709 | 14 | - | - | - | - | - | - | - | - | 19 | - |
| 20 | PRAKASH | 8570 | 1 | 7887 | 16 | 7912 | 1 | 6211 | 18 | 8123 | 1 | 4 | 18 | 51 | - | 21 | - | - | - | - | - |
| Location Mean | | 7005 | | 8188 | | 5509 | | 7580 | | 6901 | | | | | | | | | | | |
| C.D. (5%) | | 1075 | | 364 | | 1059 | | 2763 | | 833 | | | | | | | | | | | |
| C.V. (%) | | 9.28 | | 2.69 | | 11.62 | | 22.04 | | - | | | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | 0.088 | | | | | | | | | | | | | |
| Plot Size | | 6 | | 6 | | 5.46 | | 6 | | - | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 15-07 | | 8-07 | | 8-07 | | 4-08 | | - | | | | | | | | | | | |
| Harvest Date | | 16-10 | | 12-10 | | 19-10 | | 22-11 | | - | | | | | | | | | | | |
| Irrigation Nos | | 2 | | 6 | | 5 | | 1 | | - | | | | | | | | | | | |
| Fertilizer Applied N | | 120 | | 150 | | 125 | | 120 | | - | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 60 | | 60 | | 60 | | - | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | | 60 | | 30 | | 40 | | - | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 22.0 %

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Table No.31 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | MOISTURE % AT HARVEST | | | | |
|------------------|------------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|
| | | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | Mean | DELH | KARN | LUDH | PANT | Mean |
| 1 | AH-1284 | 47.0 | 48.7 | 43.0 | 47.3 | 46.5 | 49.3 | 50.7 | 44.0 | 50.3 | 48.6 | 82.7 | 83.0 | 75.7 | 80.4 | 23.5 | 23.9 | 24.6 | 28.2 | 25.0 |
| 2 | AH-1285 | 49.3 | 51.7 | 43.3 | 48.7 | 48.3 | 52.7 | 53.3 | 44.3 | 51.3 | 50.4 | 87.7 | 85.0 | 76.3 | 83.0 | 23.0 | 23.3 | 24.1 | 28.2 | 24.6 |
| 3 | AH-1286 | 45.3 | 47.7 | 44.0 | 46.3 | 45.8 | 48.3 | 50.7 | 45.0 | 49.3 | 48.3 | 85.3 | 83.0 | 76.0 | 81.4 | 19.9 | 24.8 | 21.6 | 28.8 | 23.8 |
| 4 | AH-1287 | 49.3 | 49.0 | 44.0 | 47.7 | 47.5 | 52.7 | 51.3 | 45.0 | 50.3 | 49.8 | 83.7 | 83.3 | 74.7 | 80.6 | 25.3 | 23.7 | 25.8 | 28.7 | 25.9 |
| 5 | AH-1288 | 49.3 | 48.0 | 44.0 | 48.3 | 47.4 | 53.7 | 50.0 | 45.0 | 51.3 | 50.0 | 86.7 | 83.0 | 75.3 | 81.7 | 25.6 | 23.9 | 25.3 | 25.7 | 25.1 |
| 6 | AH-1289 | 45.3 | 49.7 | 44.7 | 47.0 | 46.7 | 48.0 | 51.7 | 45.7 | 49.3 | 48.7 | 85.0 | 84.0 | 78.7 | 82.6 | 21.9 | 23.3 | 20.4 | 22.8 | 22.1 |
| 7 | AH-1290 | 46.3 | 47.0 | 45.3 | 48.3 | 46.8 | 48.3 | 49.0 | 46.3 | 51.3 | 48.8 | 83.7 | 81.3 | 79.0 | 81.3 | 21.3 | 23.3 | 23.5 | 28.9 | 24.2 |
| 8 | AH-1291 | 50.3 | 51.7 | 42.7 | 49.7 | 48.6 | 54.3 | 53.7 | 43.7 | 52.7 | 51.1 | 83.3 | 85.0 | 74.7 | 81.0 | 24.7 | 22.0 | 22.3 | 25.4 | 23.6 |
| 9 | AH-1292 | 42.7 | 50.0 | 43.3 | 45.3 | 45.3 | 46.7 | 52.0 | 44.3 | 48.0 | 47.8 | 79.7 | 84.0 | 74.7 | 79.4 | 22.0 | 22.3 | 19.6 | 23.1 | 21.8 |
| 10 | AH-1293 | 42.7 | 50.0 | 43.0 | 45.3 | 45.3 | 46.7 | 52.0 | 44.0 | 48.0 | 47.7 | 78.3 | 83.7 | 76.0 | 79.3 | 20.0 | 23.2 | 20.7 | 25.5 | 22.3 |
| 11 | AH-1294 | 46.0 | 49.7 | 46.0 | 48.0 | 47.4 | 49.0 | 51.7 | 47.0 | 51.0 | 49.7 | 86.3 | 83.7 | 76.0 | 82.0 | 20.6 | 24.0 | 21.8 | 28.4 | 23.7 |
| 12 | AH-1295 | 44.3 | 47.3 | 43.7 | 44.0 | 44.8 | 46.7 | 49.7 | 44.3 | 47.3 | 47.0 | 85.0 | 82.0 | 74.3 | 80.4 | 20.3 | 21.3 | 20.9 | 24.5 | 21.7 |
| 13 | AH-1296 | 45.3 | 50.7 | 43.0 | 46.3 | 46.3 | 48.3 | 52.7 | 44.0 | 48.7 | 48.4 | 84.0 | 83.7 | 74.3 | 80.7 | 21.0 | 23.9 | 23.0 | 28.0 | 24.0 |
| 14 | AH-1297 | 45.0 | 47.7 | 42.0 | 46.0 | 45.2 | 48.0 | 49.7 | 43.0 | 49.0 | 47.4 | 80.0 | 82.3 | 74.0 | 78.8 | 20.4 | 22.2 | 22.5 | 28.1 | 23.3 |
| 15 | REH212-11 | 46.7 | 50.7 | 46.0 | 47.3 | 47.7 | 49.0 | 52.7 | 47.0 | 50.3 | 49.8 | 85.0 | 85.3 | 79.0 | 83.1 | 24.9 | 21.5 | 23.8 | 28.4 | 24.6 |
| 16 | REH2012-12 | 44.3 | 49.7 | 44.0 | 46.7 | 46.2 | 47.0 | 52.3 | 45.0 | 49.7 | 48.5 | 87.0 | 84.0 | 75.3 | 82.1 | 23.6 | 24.1 | 23.0 | 28.8 | 24.9 |
| 17 | DH-272 | 42.3 | 50.0 | 44.0 | 45.7 | 45.5 | 46.3 | 52.0 | 45.0 | 48.3 | 47.9 | 78.0 | 83.7 | 75.3 | 79.0 | 20.9 | 23.0 | 20.4 | 25.0 | 22.3 |
| 18 | DH-273 | 42.3 | 48.7 | 42.3 | 44.3 | 44.4 | 46.7 | 50.7 | 43.3 | 47.3 | 47.0 | 78.3 | 83.7 | 74.7 | 78.9 | 19.7 | 25.1 | 23.1 | 26.1 | 23.5 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 19 | PMH-5 | 45.0 | 48.0 | 42.3 | 45.3 | 45.2 | 47.3 | 50.0 | 43.3 | 48.3 | 47.3 | 81.0 | 83.0 | 76.7 | 80.2 | 21.6 | 21.3 | 21.0 | 25.6 | 22.4 |
| 20 | PRAKASH | 42.7 | 48.0 | 43.0 | 44.3 | 44.5 | 46.7 | 50.3 | 44.0 | 47.7 | 47.2 | 86.0 | 82.0 | 76.0 | 81.3 | 21.7 | 21.8 | 20.6 | 28.1 | 23.1 |
| Loc. Mean | | 45.6 | 49.2 | 43.7 | 46.6 | 46.3 | 48.8 | 51.3 | 44.7 | 49.5 | 48.6 | 83.3 | 83.4 | 75.8 | 80.9 | 22.1 | 23.1 | 22.4 | 26.8 | 23.6 |
| C.D. (5%) | | 1.81 | 1.45 | 1.32 | 1.94 | 1.96 | 1.77 | 1.46 | 1.29 | 1.86 | 1.98 | 2.08 | 1.39 | 1.56 | 3.21 | 2.10 | 0.73 | 1.48 | 3.48 | 2.01 |
| C.V. (%) | | 2.40 | 1.79 | 1.83 | 2.52 | 3.00 | 2.19 | 1.72 | 1.75 | 2.28 | 2.88 | 1.51 | 1.01 | 1.24 | 2.40 | 5.74 | 1.91 | 4.00 | 7.86 | 6.03 |
| 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 | 0.18 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |

Table No.31 (Cont..)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | |
|--------|------------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|
| | | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean |
| 1 | AH-1284 | 84.6 | 67.2 | 83.3 | 84.7 | 79.9 | 63.3 | 60.0 | 61.7 | 47.8 | 58.2 | 181.7 | 183.3 | 210.0 | 252.3 | 206.8 | 75.0 | 103.3 | 111.3 | 96.6 |
| 2 | AH-1285 | 85.0 | 65.9 | 83.7 | 84.5 | 79.8 | 66.7 | 60.6 | 66.5 | 48.9 | 60.7 | 172.3 | 178.3 | 211.7 | 255.0 | 204.3 | 83.3 | 113.3 | 117.3 | 104.7 |
| 3 | AH-1286 | 87.0 | 66.3 | 84.7 | 86.3 | 81.1 | 62.8 | 61.7 | 72.0 | 49.4 | 61.5 | 192.3 | 185.0 | 210.0 | 255.7 | 210.8 | 83.3 | 116.7 | 115.7 | 105.2 |
| 4 | AH-1287 | 84.8 | 65.6 | 83.3 | 87.4 | 80.3 | 64.4 | 58.9 | 65.9 | 49.4 | 59.7 | 189.3 | 183.3 | 195.0 | 242.7 | 202.6 | 96.7 | 98.3 | 112.0 | 102.3 |
| 5 | AH-1288 | 83.1 | 66.3 | 82.1 | 86.6 | 79.5 | 67.8 | 58.3 | 69.6 | 50.0 | 61.4 | 171.7 | 178.3 | 206.7 | 243.3 | 200.0 | 83.3 | 110.0 | 107.7 | 100.3 |
| 6 | AH-1289 | 81.1 | 66.8 | 82.4 | 85.0 | 78.8 | 62.8 | 57.8 | 65.3 | 48.3 | 58.6 | 206.7 | 200.0 | 223.3 | 258.3 | 222.1 | 95.0 | 113.3 | 122.0 | 110.1 |
| 7 | AH-1290 | 87.0 | 66.9 | 87.5 | 85.0 | 81.6 | 66.7 | 60.0 | 72.6 | 48.3 | 61.9 | 179.7 | 196.7 | 213.3 | 257.7 | 211.8 | 103.3 | 135.0 | 124.7 | 121.0 |
| 8 | AH-1291 | 84.8 | 65.4 | 82.0 | 85.9 | 79.5 | 64.4 | 59.4 | 73.3 | 50.0 | 61.8 | 176.7 | 178.3 | 200.0 | 241.3 | 199.1 | 86.7 | 93.3 | 106.7 | 95.6 |
| 9 | AH-1292 | 86.7 | 66.2 | 81.2 | 86.3 | 80.1 | 60.6 | 59.4 | 70.8 | 48.9 | 59.9 | 204.0 | 193.3 | 233.3 | 265.3 | 224.0 | 86.7 | 133.3 | 124.7 | 114.9 |
| 10 | AH-1293 | 85.2 | 66.1 | 78.5 | 88.7 | 79.6 | 64.4 | 60.0 | 62.3 | 49.4 | 59.0 | 195.0 | 175.0 | 190.0 | 269.0 | 207.3 | 73.3 | 103.3 | 127.7 | 101.4 |
| 11 | AH-1294 | 85.5 | 67.9 | 80.7 | 86.2 | 80.0 | 66.1 | 60.6 | 64.1 | 48.3 | 59.8 | 189.3 | 176.7 | 208.3 | 250.0 | 206.1 | 83.3 | 123.3 | 124.7 | 110.4 |
| 12 | AH-1295 | 83.9 | 67.3 | 80.8 | 87.5 | 79.9 | 63.3 | 61.7 | 67.8 | 48.9 | 60.4 | 193.3 | 181.7 | 208.3 | 247.7 | 207.8 | 86.7 | 113.3 | 107.0 | 102.3 |
| 13 | AH-1296 | 87.8 | 67.0 | 82.6 | 88.0 | 81.3 | 63.9 | 58.3 | 61.7 | 50.0 | 58.5 | 202.0 | 176.7 | 195.0 | 252.0 | 206.4 | 83.3 | 125.0 | 115.7 | 108.0 |
| 14 | AH-1297 | 87.5 | 67.4 | 80.9 | 89.3 | 81.3 | 64.4 | 60.0 | 67.2 | 46.7 | 59.6 | 167.3 | 195.0 | 201.7 | 238.7 | 200.7 | 90.0 | 96.7 | 106.7 | 97.8 |
| 15 | REH212-11 | 85.8 | 65.0 | 80.5 | 84.2 | 78.9 | 64.4 | 57.8 | 62.9 | 48.9 | 58.5 | 208.0 | 168.3 | 221.7 | 282.0 | 220.0 | 73.3 | 111.7 | 137.7 | 107.6 |
| 16 | REH2012-12 | 85.5 | 66.0 | 85.4 | 86.2 | 80.8 | 62.2 | 59.4 | 64.7 | 50.6 | 59.2 | 195.7 | 175.0 | 196.7 | 259.3 | 206.7 | 75.0 | 113.3 | 115.3 | 101.2 |
| 17 | DH-272 | 85.3 | 67.0 | 85.0 | 85.2 | 80.6 | 63.3 | 59.4 | 56.8 | 46.7 | 56.6 | 191.7 | 175.0 | 203.3 | 253.3 | 205.8 | 75.0 | 103.3 | 109.7 | 96.0 |
| 18 | DH-273 | 82.4 | 65.9 | 80.0 | 87.5 | 78.9 | 63.9 | 61.1 | 61.1 | 47.2 | 58.3 | 201.3 | 191.7 | 228.3 | 259.7 | 220.3 | 90.0 | 121.7 | 114.0 | 108.6 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 19 | PMH-5 | 86.4 | 65.8 | 86.1 | 83.8 | 80.5 | 63.3 | 60.6 | 64.7 | 47.2 | 59.0 | 180.3 | 165.0 | 213.3 | 246.0 | 201.2 | 70.0 | 116.7 | 113.3 | 100.0 |
| 20 | PRAKASH | 86.5 | 66.7 | 86.7 | 85.1 | 81.2 | 63.9 | 60.0 | 66.5 | 48.3 | 59.7 | 200.0 | 178.3 | 228.3 | 261.3 | 217.0 | 78.3 | 125.0 | 119.0 | 107.4 |
| | Loc. Mean | 85.3 | 66.4 | 82.8 | 86.2 | 80.2 | 64.1 | 59.8 | 65.9 | 48.7 | 59.6 | 189.9 | 181.8 | 209.9 | 254.5 | 209.0 | 83.6 | 113.5 | 116.6 | 104.6 |
| | C.D. (5%) | 2.26 | 0.62 | 2.44 | 3.22 | 2.43 | 5.40 | 3.60 | 8.99 | 3.14 | 3.30 | 10.56 | 10.13 | 15.40 | 15.63 | 13.08 | 6.71 | 11.07 | 11.82 | 14.22 |
| | C.V. (%) | 1.60 | 0.57 | 1.78 | 2.26 | 2.14 | 5.10 | 3.65 | 8.26 | 3.91 | 3.91 | 3.36 | 3.37 | 4.44 | 3.71 | 4.42 | 4.86 | 5.90 | 6.13 | 8.23 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.06 | 0.49 | 0.70 | 0.68 | 0.05 | 0.42 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 |

Table No.32 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | MOISTURE % AT HARVEST | | | | |
|------------------|----------------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|
| | | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | Mean | DELH | KARN | LUDH | PANT | Mean |
| 1 | AH-1298 | 45.0 | 49.0 | 41.0 | 48.7 | 45.9 | 48.0 | 51.3 | 42.0 | 51.3 | 48.2 | 84.7 | 82.3 | 71.7 | 79.6 | 20.9 | 23.6 | 20.8 | 27.2 | 23.1 |
| 2 | AH-1299 | 46.3 | 50.0 | 43.3 | 48.7 | 47.1 | 49.3 | 52.0 | 44.3 | 51.3 | 49.3 | 86.7 | 82.3 | 74.0 | 81.0 | 26.9 | 22.6 | 26.3 | 27.8 | 25.9 |
| 3 | AH-1300 | 49.7 | 49.0 | 41.3 | 50.3 | 47.6 | 53.7 | 51.3 | 42.3 | 53.3 | 50.2 | 84.3 | 82.7 | 72.0 | 79.7 | 22.7 | 23.2 | 23.0 | 28.7 | 24.4 |
| 4 | AH-1301 | 49.7 | 50.0 | 43.0 | 48.7 | 47.8 | 54.0 | 52.0 | 44.0 | 51.7 | 50.4 | 89.0 | 82.7 | 75.0 | 82.2 | 26.0 | 23.2 | 23.0 | 28.8 | 25.2 |
| 5 | AH-1302 | 46.7 | 50.7 | 42.3 | 49.3 | 47.3 | 50.3 | 52.7 | 43.3 | 52.3 | 49.7 | 84.7 | 83.7 | 74.3 | 80.9 | 21.0 | 23.0 | 21.2 | 25.3 | 22.6 |
| 6 | AH-1303 | 49.3 | 49.0 | 44.0 | 49.7 | 48.0 | 53.7 | 51.0 | 44.7 | 52.7 | 50.5 | 86.0 | 82.7 | 74.3 | 81.0 | 21.7 | 22.9 | 21.6 | 26.9 | 23.3 |
| 7 | AH-1304 | 47.7 | 49.0 | 44.0 | 49.0 | 47.4 | 50.3 | 51.3 | 44.3 | 51.7 | 49.4 | 82.7 | 82.3 | 74.3 | 79.8 | 22.9 | 22.6 | 20.6 | 27.9 | 23.5 |
| 8 | AH-1305 | 46.0 | 49.0 | 44.3 | 50.3 | 47.4 | 49.0 | 51.0 | 45.3 | 53.3 | 49.7 | 82.3 | 82.3 | 75.0 | 79.9 | 21.8 | 21.4 | 21.9 | 29.0 | 23.5 |
| 9 | AH-1306 | 49.3 | 50.3 | 43.3 | 49.3 | 48.1 | 53.3 | 52.3 | 43.7 | 52.3 | 50.4 | 85.0 | 82.7 | 75.0 | 80.9 | 21.8 | 22.8 | 22.3 | 28.1 | 23.7 |
| 10 | AH-1307 | 48.7 | 50.3 | 43.3 | 50.7 | 48.3 | 51.3 | 52.3 | 44.3 | 53.7 | 50.4 | 84.7 | 84.0 | 73.3 | 80.7 | 23.5 | 22.3 | 23.2 | 28.4 | 24.3 |
| 11 | AH-1308 | 42.3 | 48.7 | 41.0 | 48.0 | 45.0 | 46.3 | 51.0 | 42.0 | 51.0 | 47.6 | 82.3 | 82.7 | 72.3 | 79.1 | 20.9 | 23.2 | 23.6 | 25.8 | 23.3 |
| 12 | AH-1309 | 43.3 | 49.7 | 41.7 | 46.7 | 45.3 | 46.3 | 51.7 | 42.7 | 49.3 | 47.5 | 81.0 | 82.0 | 72.7 | 78.6 | 19.5 | 22.5 | 19.8 | 26.6 | 22.1 |
| 13 | AH-1310 | 44.7 | 49.3 | 42.7 | 58.3 | 48.8 | 47.7 | 51.3 | 43.7 | 49.3 | 48.0 | 81.3 | 83.0 | 75.0 | 79.8 | 20.3 | 21.8 | 21.3 | 24.7 | 22.0 |
| 14 | AH-1311 | 46.3 | 49.0 | 43.7 | 48.3 | 46.8 | 49.3 | 51.0 | 44.7 | 51.3 | 49.1 | 84.7 | 83.3 | 74.0 | 80.7 | 19.8 | 21.3 | 21.1 | 26.1 | 22.1 |
| 15 | REH2012-14 | 50.7 | 50.0 | 42.0 | 48.3 | 47.8 | 54.3 | 52.3 | 43.0 | 52.0 | 50.4 | 88.3 | 83.7 | 71.0 | 81.0 | 25.5 | 22.3 | 23.6 | 29.5 | 25.2 |
| 16 | DH-274 | 42.0 | 49.3 | 41.0 | 47.3 | 44.9 | 45.7 | 51.7 | 42.0 | 50.3 | 47.4 | 80.3 | 81.3 | 72.7 | 78.1 | 22.3 | 22.5 | 20.0 | 27.0 | 22.9 |
| 17 | DH-275 | 43.0 | 50.0 | 40.7 | 45.0 | 44.7 | 46.7 | 52.0 | 41.7 | 48.0 | 47.1 | 81.0 | 83.0 | 71.0 | 78.3 | 20.7 | 21.8 | 20.4 | 26.3 | 22.3 |
| 18 | DH-276 | 43.3 | 49.3 | 41.7 | 45.7 | 45.0 | 47.0 | 52.0 | 42.7 | 48.7 | 47.6 | 81.0 | 82.0 | 72.3 | 78.4 | 20.1 | 23.0 | 19.1 | 26.5 | 22.1 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 19 | VIVEK HYBRID-9 | 42.7 | 48.7 | 40.7 | 45.7 | 44.4 | 46.3 | 51.0 | 41.7 | 48.7 | 46.9 | 82.0 | 82.7 | 71.0 | 78.6 | 22.3 | 23.3 | 19.0 | 27.6 | 23.0 |
| 20 | VIVEK QPM-9 | 43.3 | 48.7 | 41.0 | 45.3 | 44.6 | 46.7 | 50.7 | 42.0 | 48.7 | 47.0 | 82.3 | 81.3 | 72.0 | 78.6 | 22.3 | 24.2 | 19.3 | 27.0 | 23.2 |
| Loc. Mean | | 46.0 | 49.5 | 42.3 | 48.7 | 46.6 | 49.5 | 51.6 | 43.2 | 51.1 | 48.8 | 83.7 | 82.6 | 73.2 | 79.8 | 22.1 | 22.6 | 21.5 | 27.2 | 23.4 |
| C.D. (5%) | | 1.42 | 1.51 | 1.31 | 8.19 | 2.56 | 1.66 | 1.62 | 1.23 | 1.82 | 2.07 | 1.90 | 2.35 | 1.67 | 2.53 | 2.68 | 1.13 | 1.98 | 2.01 | 1.76 |
| C.V. (%) | | 1.86 | 1.85 | 1.87 | 10.18 | 3.88 | 2.03 | 1.90 | 1.73 | 2.16 | 2.99 | 1.37 | 1.72 | 1.38 | 1.91 | 7.33 | 3.03 | 5.56 | 4.46 | 5.31 |
| F (Prob) | | 0.00 | 0.19 | 0.00 | 0.49 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Table No.32 (Cont..)

| S.No. PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | |
|-------------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|-------------|
| | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | DELH | KARN | LUDH | PANT | Mean | KARN | LUDH | PANT | Mean |
| 1 AH-1298 | 85.4 | 66.4 | 81.6 | 86.7 | 80.0 | 63.3 | 60.6 | 69.0 | 49.4 | 60.6 | 190.0 | 183.3 | 231.7 | 262.0 | 216.8 | 80.0 | 113.3 | 121.0 | 104.8 |
| 2 AH-1299 | 87.1 | 66.5 | 80.4 | 84.1 | 79.5 | 65.0 | 61.7 | 64.7 | 48.3 | 59.9 | 145.0 | 165.0 | 200.0 | 235.0 | 186.3 | 71.7 | 96.7 | 102.7 | 90.3 |
| 3 AH-1300 | 82.4 | 65.2 | 71.0 | 86.6 | 76.3 | 63.9 | 60.0 | 67.2 | 48.9 | 60.0 | 190.0 | 180.0 | 250.0 | 258.7 | 219.7 | 80.0 | 141.7 | 118.3 | 113.3 |
| 4 AH-1301 | 86.8 | 65.9 | 76.0 | 83.1 | 77.9 | 65.6 | 58.3 | 63.5 | 48.3 | 58.9 | 151.7 | 160.0 | 201.7 | 259.0 | 193.1 | 71.7 | 106.7 | 120.3 | 99.6 |
| 5 AH-1302 | 86.8 | 66.1 | 84.2 | 82.7 | 79.9 | 63.3 | 57.2 | 69.6 | 48.9 | 59.8 | 178.3 | 181.7 | 216.7 | 243.0 | 204.9 | 83.3 | 105.0 | 101.0 | 96.4 |
| 6 AH-1303 | 87.4 | 66.0 | 84.1 | 84.7 | 80.5 | 66.1 | 60.6 | 72.0 | 49.4 | 62.0 | 181.0 | 176.7 | 208.3 | 247.0 | 203.3 | 83.3 | 111.7 | 113.0 | 102.7 |
| 7 AH-1304 | 87.3 | 66.6 | 82.0 | 83.9 | 80.0 | 66.7 | 58.9 | 68.4 | 48.3 | 60.6 | 186.0 | 175.0 | 201.7 | 246.7 | 202.3 | 81.7 | 98.3 | 113.0 | 97.7 |
| 8 AH-1305 | 81.6 | 66.6 | 85.1 | 88.8 | 80.5 | 65.0 | 59.4 | 67.8 | 50.0 | 60.6 | 171.0 | 180.0 | 236.7 | 247.7 | 208.8 | 86.7 | 125.0 | 111.3 | 107.7 |
| 9 AH-1306 | 86.4 | 65.8 | 83.3 | 83.9 | 79.9 | 61.7 | 58.9 | 70.2 | 48.3 | 59.8 | 164.0 | 183.3 | 216.7 | 255.7 | 204.9 | 83.3 | 105.0 | 112.0 | 100.1 |
| 10 AH-1307 | 85.4 | 66.0 | 81.8 | 88.3 | 80.4 | 63.3 | 61.1 | 65.9 | 49.4 | 60.0 | 176.7 | 170.0 | 208.3 | 222.0 | 194.3 | 75.0 | 103.3 | 100.0 | 92.8 |
| 11 AH-1308 | 87.3 | 65.9 | 82.8 | 86.4 | 80.6 | 63.9 | 60.0 | 67.8 | 46.7 | 59.6 | 170.0 | 183.3 | 178.3 | 248.3 | 195.0 | 81.7 | 85.0 | 112.0 | 92.9 |
| 12 AH-1309 | 82.6 | 66.3 | 83.3 | 86.2 | 79.6 | 65.0 | 58.9 | 61.1 | 48.3 | 58.3 | 161.0 | 173.3 | 198.3 | 252.3 | 196.3 | 75.0 | 105.0 | 115.3 | 98.4 |
| 13 AH-1310 | 84.1 | 65.3 | 81.0 | 87.0 | 79.3 | 62.8 | 60.0 | 65.9 | 49.4 | 59.5 | 171.3 | 163.3 | 208.3 | 252.3 | 198.8 | 78.3 | 105.0 | 115.3 | 99.6 |
| 14 AH-1311 | 82.8 | 65.8 | 76.4 | 86.9 | 78.0 | 65.6 | 59.4 | 67.2 | 50.0 | 60.5 | 166.0 | 166.7 | 210.0 | 247.0 | 197.4 | 76.7 | 108.3 | 108.7 | 97.9 |
| 15 REH2012-14 | 82.9 | 66.0 | 82.9 | 89.5 | 80.3 | 62.8 | 61.7 | 71.4 | 47.2 | 60.8 | 196.7 | 196.7 | 235.0 | 272.3 | 225.2 | 93.3 | 140.0 | 130.3 | 121.2 |
| 16 DH-274 | 86.8 | 65.6 | 79.8 | 84.7 | 79.2 | 61.7 | 62.2 | 55.6 | 41.1 | 55.1 | 165.7 | 160.0 | 190.0 | 244.3 | 190.0 | 71.7 | 105.0 | 106.0 | 94.2 |
| 17 DH-275 | 86.3 | 66.0 | 81.2 | 87.7 | 80.3 | 62.8 | 59.4 | 62.9 | 47.8 | 58.2 | 176.0 | 168.3 | 196.7 | 257.3 | 199.6 | 70.0 | 98.3 | 107.3 | 91.9 |
| 18 DH-276 | 83.3 | 66.4 | 82.3 | 88.5 | 80.1 | 62.8 | 57.8 | 59.2 | 47.2 | 56.7 | 183.3 | 161.7 | 230.0 | 255.0 | 207.5 | 65.0 | 116.7 | 111.7 | 97.8 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 19 VIVEK HYBRID-9 | 85.8 | 66.0 | 84.5 | 85.6 | 80.5 | 65.6 | 58.3 | 69.0 | 48.3 | 60.3 | 169.0 | 173.3 | 193.3 | 259.0 | 198.7 | 73.3 | 91.7 | 108.7 | 91.2 |
| 20 VIVEK QPM-9 | 81.3 | 65.6 | 86.6 | 86.6 | 80.0 | 64.4 | 60.0 | 69.0 | 48.3 | 60.4 | 168.7 | 166.7 | 200.0 | 271.0 | 201.6 | 73.3 | 96.7 | 113.7 | 94.6 |
| Loc. Mean | 85.0 | 66.0 | 81.5 | 86.1 | 79.6 | 64.1 | 59.7 | 66.4 | 48.2 | 59.6 | 173.1 | 173.4 | 210.6 | 251.8 | 202.2 | 77.8 | 107.9 | 112.1 | 99.3 |
| C.D. (5%) | 2.05 | 1.17 | 1.56 | 3.17 | 3.34 | 5.76 | 3.08 | 9.94 | 3.47 | 3.23 | 9.93 | 16.14 | 12.76 | 15.63 | 15.00 | 14.00 | 11.58 | 8.79 | 12.83 |
| C.V. (%) | 1.46 | 1.07 | 1.15 | 2.23 | 2.96 | 5.44 | 3.12 | 9.06 | 4.35 | 3.83 | 3.47 | 5.63 | 3.67 | 3.75 | 5.24 | 10.89 | 6.49 | 4.74 | 7.82 |
| F (Prob) | 0.00 | 0.57 | 0.00 | 0.00 | 0.63 | 0.93 | 0.13 | 0.16 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 |

TABLE No.33

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN ZONAL TRIAL No. 502 DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | | | |
|----------------------|----------|-------------------------------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|--------------------------------|------|------|------|------|------|--------------------------------|------|------|------|------|------|------|--|
| | | ZN 5 | | | | | | | | | | | THE HM-8 | | | | | | THE Bio-9637 | | | | | | | |
| | | AMBI | R | BANS | R | CHHI | R | GODH | R | UDAI | R | MEAN | R | AMBI | BANS | CHHI | GODH | UDAI | MEAN | AMBI | BANS | CHHI | GODH | UDAI | MEAN | |
| 1 | EH-2370 | 4129 | 20 | 2446 | 1 | 2513 | 9 | 757 | 20 | 5172 | 15 | 3004 | 19 | - | 32 | - | - | - | - | - | 24 | - | - | - | - | |
| 2 | EH-2371 | 6065 | 15 | 2298 | 2 | 2338 | 11 | 3807 | 4 | 9590 | 1 | 4820 | 2 | - | 24 | - | 43 | 59 | 9 | - | 16 | - | 36 | 83 | 19 | |
| 3 | EH-2372 | 6516 | 11 | 2168 | 4 | 3482 | 3 | 2468 | 12 | 6820 | 4 | 4291 | 8 | - | 17 | 15 | - | 13 | - | 5 | 10 | - | - | 30 | 6 | |
| 4 | EH-2373 | 5569 | 17 | 1920 | 13 | 3031 | 5 | 1778 | 17 | 8066 | 2 | 4073 | 10 | - | 3 | - | - | 34 | - | - | - | - | - | 54 | 1 | |
| 5 | EH-2374 | 6716 | 10 | 1697 | 20 | 2403 | 10 | 2239 | 15 | 6263 | 6 | 3864 | 15 | - | - | - | - | 4 | - | 8 | - | - | - | 19 | - | |
| 6 | EH-2375 | 6266 | 13 | 2237 | 3 | 2178 | 14 | 2303 | 13 | 6452 | 5 | 3887 | 14 | - | 20 | - | - | 7 | - | 1 | 13 | - | - | 23 | - | |
| 7 | WH-2001 | 7719 | 8 | 1965 | 9 | 2694 | 7 | 3423 | 7 | 7300 | 3 | 4620 | 3 | - | 6 | - | 29 | 21 | 4 | 24 | - | - | 22 | 39 | 14 | |
| 8 | WH-2002 | 7968 | 5 | 1976 | 8 | 2260 | 12 | 3450 | 6 | 6081 | 7 | 4347 | 6 | - | 6 | - | 30 | 1 | - | 28 | - | - | 23 | 16 | 7 | |
| 9 | WH-2003 | 9069 | 2 | 1887 | 16 | 2027 | 17 | 3190 | 8 | 4049 | 20 | 4044 | 12 | 6 | 1 | - | 20 | - | - | 46 | - | - | 14 | - | - | |
| 10 | WH-2004 | 5767 | 16 | 1942 | 12 | 2590 | 8 | 2188 | 16 | 4401 | 18 | 3377 | 17 | - | 4 | - | - | - | - | - | - | - | - | - | - | |
| 11 | WH-2005 | 12816 | 1 | 1834 | 18 | 2038 | 16 | 5554 | 1 | 5446 | 11 | 5537 | 1 | 50 | - | - | 109 | - | 25 | 106 | - | - | 98 | 4 | 37 | |
| 12 | WH-2006 | 8917 | 3 | 2159 | 5 | 1501 | 19 | 4364 | 3 | 5141 | 16 | 4416 | 5 | 4 | 16 | - | 64 | - | - | 43 | 9 | - | 56 | - | 9 | |
| 13 | WH-2007 | 4216 | 19 | 1963 | 10 | 2146 | 15 | 1154 | 19 | 5405 | 12 | 2977 | 20 | - | 6 | - | - | - | - | - | - | - | - | 3 | - | |
| 14 | WH-2008 | 6716 | 9 | 2075 | 6 | 2217 | 13 | 2917 | 9 | 5941 | 9 | 3973 | 13 | - | 12 | - | 10 | - | - | 8 | 5 | - | 4 | 13 | - | |
| 15 | WH-2009 | 7815 | 7 | 1957 | 11 | 2928 | 6 | 4820 | 2 | 4176 | 19 | 4339 | 7 | - | 5 | - | 81 | - | - | 26 | - | - | 72 | - | 7 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | HM-8 | 8568 | 4 | 1859 | 17 | 3032 | 4 | 2658 | 11 | 6018 | 8 | 4427 | 4 | - | - | - | - | - | - | 38 | - | - | - | 15 | 9 | |
| 17 | Bio-9637 | 6215 | 14 | 1979 | 7 | 4016 | 1 | 2802 | 10 | 5247 | 14 | 4052 | 11 | - | 6 | 32 | 5 | - | - | - | - | - | - | - | - | |
| 18 | PEHM-2 | 7916 | 6 | 1904 | 14 | 1709 | 18 | 3613 | 5 | 5355 | 13 | 4099 | 9 | - | 2 | - | 36 | - | - | 27 | - | - | 29 | 2 | 1 | |
| 19 | PMH-1 | 5568 | 18 | 1763 | 19 | 3967 | 2 | 2299 | 14 | 5480 | 10 | 3815 | 16 | - | - | 31 | - | - | - | - | - | - | - | 4 | - | |
| 20 | Navjot | 6366 | 12 | 1892 | 15 | 829 | 20 | 1378 | 18 | 5015 | 17 | 3096 | 18 | - | 2 | - | - | - | - | 2 | - | - | - | - | - | |
| Location Mean | | 7045 | | 1996 | | 2495 | | 2858 | | 5871 | | 4053 | | | | | | | | | | | | | | |
| C.D. (5%) | | 996 | | 390 | | 843 | | 609 | | 532 | | 674 | | | | | | | | | | | | | | |
| C.V. (%) | | 8.54 | | 11.82 | | 20.43 | | 12.88 | | 5.48 | | - | | | | | | | | | | | | | | |
| F (Prob) | | 0 | | 0.121 | | 0 | | 0 | | 0 | | | | | | | | | | | | | | | | |
| Plot Size | | 6 | | 4.8 | | 6 | | 4.8 | | 4.8 | | - | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 9-07 | | 6-07 | | 11-07 | | 31-07 | | 2-07 | | - | | | | | | | | | | | | | | |
| Harvest Date | | - | | 7-10 | | 12-11 | | 30-10 | | 20-10 | | - | | | | | | | | | | | | | | |
| Irrigation Nos | | - | | - | | - | | - | | 2 | | - | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 120 | | 150 | | 120 | | 100 | | 120 | | - | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 80 | | 60 | | 50 | | 90 | | - | | | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | | - | | 40 | | - | | - | | - | | | | | | | | | | | | | | |

Table No. 33 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | | MOISTURE % AT HARVEST | | | | | | | |
|--------|------------------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | AMBI | BANS | CHHI | GODH | UDAI | Mean | AMBI | BANS | CHHI | GODH | UDAI | Mean | AMBI | BANS | CHHI | GODH | UDAI | Mean | BANS | CHHI | GODH | UDAI | Mean |
| 1 | EH-2370 | 49.7 | 46.7 | 62.7 | 53.7 | 59.7 | 54.5 | 52.7 | 49.7 | 64.0 | 55.7 | 61.0 | 56.6 | 90.0 | 79.7 | 94.3 | 83.7 | 92.7 | 88.1 | 16.2 | 17.4 | 15.7 | 15.4 | 16.2 |
| 2 | EH-2371 | 44.7 | 45.7 | 63.7 | 48.3 | 56.7 | 51.8 | 47.0 | 47.7 | 65.3 | 51.0 | 58.7 | 53.9 | 83.3 | 78.3 | 99.0 | 79.3 | 89.0 | 85.8 | 16.8 | 15.2 | 16.6 | 15.4 | 16.0 |
| 3 | EH-2372 | 44.7 | 46.0 | 60.7 | 50.7 | 58.7 | 52.1 | 47.7 | 49.0 | 61.3 | 53.0 | 60.7 | 54.3 | 84.0 | 79.3 | 95.7 | 79.7 | 90.3 | 85.8 | 16.2 | 17.1 | 17.1 | 22.1 | 18.1 |
| 4 | EH-2373 | 43.7 | 46.7 | 62.3 | 47.0 | 59.0 | 51.7 | 46.3 | 49.7 | 64.0 | 49.7 | 60.7 | 54.1 | 82.3 | 79.7 | 99.0 | 76.0 | 91.7 | 85.7 | 15.6 | 18.5 | 15.8 | 16.1 | 16.5 |
| 5 | EH-2374 | 44.7 | 46.0 | 59.0 | 49.7 | 56.7 | 51.2 | 48.0 | 49.0 | 61.0 | 52.0 | 59.0 | 53.8 | 86.0 | 78.7 | 95.0 | 78.0 | 91.7 | 85.9 | 15.8 | 16.9 | 16.6 | 15.3 | 16.1 |
| 6 | EH-2375 | 45.7 | 44.3 | 61.3 | 48.0 | 60.0 | 51.9 | 49.0 | 47.7 | 63.7 | 50.7 | 62.0 | 54.6 | 83.3 | 77.7 | 100.0 | 76.7 | 93.3 | 86.2 | 15.7 | 15.6 | 17.7 | 22.1 | 17.7 |
| 7 | WH-2001 | 49.0 | 48.7 | 57.3 | 50.3 | 52.3 | 51.5 | 52.3 | 51.3 | 59.3 | 53.7 | 54.3 | 54.2 | 87.0 | 80.7 | 93.3 | 80.3 | 84.0 | 85.1 | 15.7 | 13.9 | 16.7 | 16.3 | 15.7 |
| 8 | WH-2002 | 49.7 | 45.7 | 57.7 | 51.3 | 50.3 | 50.9 | 52.7 | 48.7 | 59.3 | 54.7 | 52.0 | 53.5 | 93.0 | 79.0 | 95.7 | 81.0 | 83.0 | 86.3 | 16.1 | 16.7 | 17.2 | 15.6 | 16.4 |
| 9 | WH-2003 | 46.7 | 45.3 | 58.0 | 52.7 | 54.7 | 51.5 | 49.7 | 48.7 | 59.7 | 56.0 | 57.3 | 54.3 | 87.0 | 78.7 | 93.3 | 81.7 | 88.7 | 85.9 | 15.3 | 15.2 | 17.4 | 20.3 | 17.0 |
| 10 | WH-2004 | 46.3 | 45.3 | 56.3 | 51.0 | 51.7 | 50.1 | 49.3 | 48.3 | 57.3 | 54.3 | 54.3 | 52.7 | 86.0 | 79.0 | 95.7 | 80.3 | 85.3 | 85.3 | 15.7 | 15.5 | 18.7 | 18.2 | 17.0 |
| 11 | WH-2005 | 49.7 | 46.7 | 57.7 | 54.0 | 58.3 | 53.3 | 52.7 | 49.7 | 58.7 | 56.7 | 60.0 | 55.5 | 87.3 | 80.3 | 95.7 | 83.3 | 91.0 | 87.5 | 15.8 | 14.7 | 16.6 | 19.0 | 16.5 |
| 12 | WH-2006 | 47.3 | 46.3 | 54.0 | 51.3 | 50.0 | 49.8 | 50.0 | 49.3 | 56.0 | 53.3 | 51.7 | 52.1 | 85.0 | 78.7 | 95.0 | 80.3 | 83.3 | 84.5 | 16.0 | 14.6 | 16.6 | 19.1 | 16.6 |
| 13 | WH-2007 | 47.3 | 45.3 | 57.3 | 55.0 | 53.7 | 51.7 | 51.0 | 48.3 | 59.3 | 54.0 | 57.0 | 53.9 | 91.0 | 78.7 | 95.7 | 79.7 | 89.3 | 86.9 | 15.9 | 15.0 | 15.3 | 19.8 | 16.5 |
| 14 | WH-2008 | 49.7 | 46.7 | 55.7 | 51.0 | 50.0 | 50.6 | 52.0 | 49.7 | 57.7 | 53.3 | 52.0 | 52.9 | 87.3 | 79.3 | 93.0 | 79.0 | 85.7 | 84.9 | 16.3 | 13.8 | 18.7 | 19.7 | 17.1 |
| 15 | WH-2009 | 49.7 | 46.7 | 58.0 | 52.7 | 56.3 | 52.7 | 52.7 | 49.7 | 60.0 | 55.7 | 58.3 | 55.3 | 92.0 | 80.7 | 95.3 | 83.7 | 89.3 | 88.2 | 15.9 | 16.5 | 16.2 | 20.9 | 17.4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | HM-8 | 44.7 | 46.3 | 60.3 | 50.0 | 60.0 | 52.3 | 48.3 | 49.7 | 62.3 | 53.7 | 61.0 | 55.0 | 89.0 | 80.0 | 99.0 | 80.0 | 92.7 | 88.1 | 15.6 | 16.0 | 17.7 | 22.8 | 18.0 |
| 17 | Bio-9637 | 48.0 | 44.7 | 61.0 | 54.7 | 55.7 | 52.8 | 51.0 | 47.7 | 63.0 | 58.0 | 57.7 | 55.5 | 89.0 | 77.3 | 99.3 | 82.3 | 91.7 | 87.9 | 15.4 | 20.1 | 17.6 | 24.8 | 19.5 |
| 18 | PEHM-2 | 44.7 | 44.7 | 59.0 | 48.0 | 57.7 | 50.8 | 47.7 | 47.7 | 61.3 | 51.0 | 60.0 | 53.5 | 82.0 | 77.7 | 93.7 | 76.7 | 90.3 | 84.1 | 16.7 | 13.7 | 17.1 | 18.2 | 16.4 |
| 19 | PMH-1 | 43.7 | 46.0 | 62.0 | 48.3 | 59.7 | 51.9 | 46.0 | 49.0 | 63.7 | 51.0 | 61.0 | 54.1 | 87.0 | 79.7 | 95.3 | 77.7 | 92.7 | 86.5 | 15.8 | 17.7 | 15.7 | 22.1 | 17.8 |
| 20 | Navjot | 43.7 | 46.3 | 62.3 | 50.7 | 58.0 | 52.2 | 46.7 | 49.7 | 64.3 | 54.3 | 60.3 | 55.1 | 85.0 | 79.7 | 98.7 | 80.7 | 92.7 | 87.3 | 16.1 | 13.6 | 16.8 | 19.0 | 16.4 |
| | Loc. Mean | 46.7 | 46.0 | 59.3 | 50.9 | 56.0 | 51.8 | 49.6 | 49.0 | 61.1 | 53.6 | 58.0 | 54.2 | 86.8 | 79.1 | 96.1 | 80.0 | 89.4 | 86.3 | 15.9 | 15.9 | 16.9 | 19.1 | 16.9 |
| | C.D. (5%) | 2.45 | 1.11 | 1.57 | 2.63 | 1.98 | 3.15 | 2.84 | 1.31 | 1.53 | 3.00 | 1.79 | 3.08 | 0.85 | 1.95 | 1.25 | 3.61 | 1.61 | 3.11 | 0.55 | 1.98 | 1.52 | 0.50 | 2.40 |
| | C.V. (%) | 3.18 | 1.46 | 1.60 | 3.12 | 2.14 | 4.84 | 3.46 | 1.61 | 1.52 | 3.38 | 1.87 | 4.51 | 0.59 | 1.49 | 0.79 | 2.73 | 1.09 | 2.86 | 2.07 | 7.54 | 5.46 | 1.58 | 10.01 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 |

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Table No.33 (Cont..)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | | | | | |
|-------|------------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | AMBI | BANS | CHHI | GODH | UDAI | Mean | AMBI | BANS | CHHI | GODH | UDAI | Mean | AMBI | BANS | CHHI | GODH | UDAI | Mean | AMBI | BANS | CHHI | GODH | UDAI | Mean |
| 1 | EH-2370 | 75.0 | 62.3 | 80.3 | 84.3 | 80.5 | 76.5 | 47.8 | 52.8 | 34.4 | 10.4 | 44.4 | 38.0 | 253.9 | 112.4 | 143.3 | 140.7 | 188.3 | 167.7 | 95.4 | 45.4 | 60.0 | 42.0 | 70.0 | 62.6 |
| 2 | EH-2371 | 73.1 | 62.7 | 86.9 | 87.3 | 82.5 | 78.5 | 56.1 | 50.0 | 41.7 | 52.8 | 54.9 | 51.1 | 229.2 | 108.9 | 148.3 | 140.3 | 193.3 | 164.0 | 81.1 | 37.4 | 68.3 | 42.7 | 105.0 | 66.9 |
| 3 | EH-2372 | 73.5 | 59.8 | 78.9 | 91.3 | 84.3 | 77.6 | 56.1 | 45.1 | 43.9 | 32.6 | 60.4 | 47.6 | 232.0 | 102.1 | 143.3 | 150.0 | 201.7 | 165.8 | 91.1 | 46.3 | 65.0 | 51.7 | 85.0 | 67.8 |
| 4 | EH-2373 | 74.0 | 63.7 | 84.3 | 89.2 | 82.0 | 78.6 | 56.1 | 50.0 | 40.0 | 51.4 | 56.9 | 50.9 | 231.7 | 117.3 | 135.0 | 140.3 | 173.3 | 159.5 | 82.3 | 50.4 | 56.7 | 41.7 | 88.3 | 63.9 |
| 5 | EH-2374 | 71.3 | 62.0 | 84.0 | 90.7 | 83.4 | 78.3 | 59.4 | 47.9 | 51.1 | 54.2 | 52.1 | 52.9 | 235.5 | 107.2 | 151.7 | 146.3 | 205.0 | 169.1 | 81.9 | 40.4 | 65.0 | 46.3 | 103.3 | 67.4 |
| 6 | EH-2375 | 72.1 | 63.7 | 81.3 | 88.2 | 84.1 | 77.9 | 62.2 | 50.7 | 58.9 | 63.2 | 57.6 | 58.5 | 234.3 | 108.7 | 168.3 | 140.7 | 200.0 | 170.4 | 80.3 | 50.7 | 83.3 | 41.0 | 113.3 | 73.7 |
| 7 | WH-2001 | 70.8 | 64.7 | 86.2 | 89.9 | 81.8 | 78.7 | 67.2 | 49.3 | 52.8 | 59.7 | 61.1 | 58.0 | 263.7 | 106.9 | 128.3 | 143.3 | 168.3 | 162.1 | 97.2 | 48.8 | 61.7 | 45.0 | 90.0 | 68.5 |
| 8 | WH-2002 | 71.5 | 61.4 | 85.4 | 79.7 | 84.3 | 76.5 | 58.9 | 52.8 | 52.8 | 59.0 | 59.7 | 56.6 | 238.9 | 98.9 | 123.3 | 145.3 | 155.0 | 152.3 | 88.9 | 52.0 | 53.3 | 45.3 | 76.7 | 63.3 |
| 9 | WH-2003 | 72.2 | 62.3 | 85.8 | 80.1 | 81.3 | 76.3 | 64.4 | 47.9 | 53.3 | 31.3 | 55.6 | 50.5 | 275.9 | 112.0 | 121.7 | 140.3 | 165.0 | 163.0 | 101.3 | 40.4 | 58.3 | 42.0 | 85.0 | 65.4 |
| 10 | WH-2004 | 71.3 | 61.8 | 82.8 | 91.6 | 82.8 | 78.1 | 55.6 | 52.8 | 47.2 | 35.4 | 55.6 | 49.3 | 261.3 | 97.1 | 131.7 | 142.3 | 190.0 | 164.5 | 108.6 | 37.1 | 55.0 | 45.0 | 80.0 | 65.1 |
| 11 | WH-2005 | 72.0 | 64.1 | 81.9 | 86.6 | 81.0 | 77.1 | 72.2 | 50.7 | 41.7 | 53.5 | 62.5 | 56.1 | 297.0 | 97.2 | 130.0 | 143.0 | 163.3 | 166.1 | 138.2 | 40.5 | 63.3 | 44.0 | 73.3 | 71.9 |
| 12 | WH-2006 | 73.6 | 62.8 | 82.4 | 90.4 | 79.0 | 77.6 | 63.9 | 50.7 | 48.3 | 55.6 | 60.4 | 55.8 | 284.3 | 112.1 | 105.0 | 148.3 | 140.0 | 157.9 | 115.2 | 43.8 | 45.0 | 49.3 | 55.0 | 61.7 |
| 13 | WH-2007 | 75.6 | 59.7 | 83.1 | 88.2 | 78.1 | 76.9 | 45.6 | 52.1 | 51.1 | 15.3 | 59.0 | 44.6 | 231.6 | 97.2 | 145.0 | 136.7 | 153.3 | 152.8 | 89.5 | 33.5 | 58.3 | 39.3 | 80.0 | 60.1 |
| 14 | WH-2008 | 72.7 | 60.1 | 84.5 | 83.1 | 83.4 | 76.7 | 57.2 | 53.5 | 55.6 | 34.0 | 63.9 | 52.8 | 267.0 | 110.4 | 105.0 | 145.7 | 146.7 | 155.0 | 104.3 | 38.8 | 45.0 | 45.7 | 65.0 | 59.8 |
| 15 | WH-2009 | 72.8 | 63.6 | 82.0 | 91.5 | 80.2 | 78.0 | 62.8 | 47.2 | 51.1 | 42.4 | 52.1 | 51.1 | 258.0 | 132.0 | 123.3 | 140.3 | 168.3 | 164.4 | 96.2 | 50.5 | 55.0 | 42.0 | 76.7 | 64.1 |
| | CHECKS | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | HM-8 | 73.0 | 60.5 | 76.6 | 89.8 | 80.2 | 76.0 | 62.2 | 49.3 | 52.2 | 54.9 | 60.4 | 55.8 | 266.7 | 100.4 | 128.3 | 145.3 | 150.0 | 158.2 | 100.7 | 42.0 | 51.7 | 47.3 | 71.7 | 62.7 |
| 17 | Bio-9637 | 74.4 | 61.9 | 80.9 | 88.6 | 80.2 | 77.2 | 55.6 | 52.1 | 51.1 | 59.0 | 57.6 | 55.1 | 296.4 | 127.1 | 158.3 | 142.0 | 200.0 | 184.8 | 135.3 | 45.2 | 71.7 | 42.7 | 85.0 | 76.0 |
| 18 | PEHM-2 | 73.2 | 63.6 | 77.6 | 88.9 | 80.1 | 76.7 | 66.7 | 45.8 | 41.1 | 62.5 | 61.8 | 55.6 | 251.2 | 102.1 | 146.7 | 144.7 | 175.0 | 163.9 | 106.4 | 48.6 | 65.0 | 46.0 | 86.7 | 70.5 |
| 19 | PMH-1 | 72.4 | 61.4 | 79.9 | 90.3 | 81.9 | 77.2 | 51.7 | 47.9 | 56.1 | 50.0 | 62.5 | 53.6 | 229.1 | 122.2 | 165.0 | 136.7 | 210.0 | 172.6 | 89.2 | 40.5 | 75.0 | 38.3 | 115.0 | 71.6 |
| 20 | Navjot | 73.3 | 63.8 | 78.2 | 92.0 | 76.2 | 76.7 | 59.4 | 52.8 | 17.8 | 62.5 | 60.4 | 50.6 | 218.3 | 105.5 | 123.3 | 132.7 | 158.3 | 147.6 | 93.0 | 42.2 | 53.3 | 35.7 | 78.3 | 60.5 |
| | Loc. Mean | 72.9 | 62.3 | 82.2 | 88.1 | 81.3 | 77.3 | 59.1 | 50.1 | 47.1 | 47.0 | 58.0 | 52.2 | 252.8 | 108.9 | 136.3 | 142.3 | 175.3 | 163.1 | 98.8 | 43.7 | 60.5 | 43.7 | 84.2 | 66.2 |
| | C.D. (5%) | 2.48 | 2.49 | 3.03 | 6.47 | 0.76 | 3.28 | 6.94 | 7.26 | 9.86 | 6.43 | 5.97 | 10.53 | 21.74 | 19.09 | 15.30 | 11.69 | 23.51 | 20.95 | 13.01 | 10.51 | 12.59 | 10.83 | 16.30 | 14.39 |
| | C.V. (%) | 2.05 | 2.42 | 2.23 | 4.44 | 0.57 | 3.36 | 7.11 | 8.77 | 12.66 | 8.28 | 6.23 | 16.00 | 5.20 | 10.61 | 6.79 | 4.97 | 8.12 | 10.20 | 7.97 | 14.54 | 12.59 | 15.01 | 11.71 | 17.26 |
| | F (Prob) | 0.03 | 0.00 | 0.00 | 0.01 | 0.00 | 0.96 | 0.00 | 0.54 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.02 | 0.00 | 0.45 | 0.00 | 0.26 | 0.00 | 0.03 | 0.00 | 0.51 | 0.00 | 0.65 |

TABLE No.34

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, CHHINDWARA, GODHRA, UDAIPUR IN ZONAL TRIAL No. 503 DURING KHARIF (2013)

| SI | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | | GRAIN YIELD % SUPERIORITY | | | | | GRAIN YIELD % SUPERIORITY | | | | | |
|----------------------|-------------------------------------|-------------|------|-------------|------|-------------|------|--------------|------|-------------|---------------------------|----|-------------|------|------|---------------------------|------|------|------|------|------|
| | No | PEDIGREE | ZN 5 | | | | | OVER Prakash | | | | | OVER PEHM-2 | | | | | | | | |
| | | | AMBI | R | CHHI | R | GODH | R | UDAI | R | MEAN | R | AMBI | CHHI | GODH | UDAI | MEAN | AMBI | CHHI | GODH | UDAI |
| 1 | EH-2376 | 7696 | 4 | 2979 | 2 | 1343 | 18 | 7292 | 2 | 5444 | 3 | 15 | 293 | - | 18 | 5 | 35 | 83 | - | 56 | 37 |
| 2 | EH-2377 | 5248 | 23 | 1799 | 9 | 1466 | 15 | 6610 | 5 | 4441 | 13 | - | 138 | - | 7 | - | - | 11 | - | 42 | 12 |
| 3 | EH-2378 | 6188 | 13 | 1984 | 5 | 907 | 25 | 5443 | 12 | 4179 | 17 | - | 162 | - | - | - | 9 | 22 | - | 17 | 5 |
| 4 | EH-2379 | 6750 | 9 | 1446 | 13 | 1623 | 12 | 5636 | 9 | 4669 | 11 | 1 | 91 | - | - | - | 19 | - | 3 | 21 | 17 |
| 5 | EH-2380 | 6501 | 12 | 3157 | 1 | 2030 | 5 | 6763 | 4 | 5098 | 6 | - | 317 | - | 9 | - | 14 | 94 | 29 | 45 | 28 |
| 6 | EH-2381 | 5435 | 22 | 2867 | 3 | 1905 | 7 | 9365 | 1 | 5568 | 2 | - | 279 | - | 51 | 7 | - | 76 | 21 | 101 | 40 |
| 7 | EH-2382 | 5686 | 16 | 683 | 25 | 1350 | 17 | 5091 | 18 | 4042 | 19 | - | - | - | - | - | - | - | - | 9 | 2 |
| 8 | EH-2383 | 6061 | 14 | 1095 | 22 | 1645 | 11 | 5155 | 17 | 4287 | 15 | - | 45 | - | - | - | 7 | - | 4 | 11 | 8 |
| 9 | GWH-0702 | 5625 | 18 | 1882 | 6 | 1694 | 9 | 5258 | 15 | 4192 | 16 | - | 148 | - | - | - | - | 16 | 7 | 13 | 5 |
| 10 | GWH-0906 | 5687 | 15 | 1349 | 17 | 1424 | 16 | 3614 | 25 | 3575 | 24 | - | 78 | - | - | - | 0 | - | - | - | - |
| 11 | GYH-0652 | 5560 | 20 | 1334 | 18 | 1076 | 21 | 4549 | 22 | 3729 | 22 | - | 76 | - | - | - | - | - | - | - | - |
| 12 | GYH-0659 | 6750 | 8 | 2409 | 4 | 1950 | 6 | 6181 | 7 | 4960 | 8 | 1 | 218 | - | - | - | 19 | 48 | 24 | 33 | 25 |
| 13 | GYH-0942 | 5439 | 21 | 1157 | 21 | 990 | 23 | 4273 | 23 | 3567 | 25 | - | 53 | - | - | - | - | - | - | - | - |
| 14 | W-3001 | 6502 | 11 | 1825 | 7 | 2152 | 4 | 4265 | 24 | 4306 | 14 | - | 141 | - | - | - | 14 | 12 | 36 | - | 8 |
| 15 | W-3001 | 7061 | 7 | 1221 | 20 | 1545 | 14 | 5852 | 8 | 4819 | 9 | 6 | 61 | - | - | - | 24 | - | - | 25 | 21 |
| 16 | W-3001 | 4749 | 25 | 1421 | 14 | 1061 | 22 | 4942 | 20 | 3584 | 23 | - | 88 | - | - | - | - | - | - | 6 | - |
| 17 | W-3001 | 5563 | 19 | 1378 | 16 | 1687 | 10 | 5201 | 16 | 4150 | 18 | - | 82 | - | - | - | - | - | 7 | 12 | 4 |
| 18 | W-3001 | 7376 | 6 | 1290 | 19 | 983 | 24 | 5572 | 11 | 4643 | 12 | 10 | 70 | - | - | - | 30 | - | - | 19 | 17 |
| 19 | W-3001 | 9688 | 1 | 1479 | 12 | 2352 | 2 | 7161 | 3 | 6401 | 1 | 45 | 95 | - | 16 | 23 | 70 | - | 49 | 54 | 61 |
| 20 | W-3001 | 4937 | 24 | 1663 | 10 | 1316 | 19 | 4953 | 19 | 3735 | 21 | - | 120 | - | - | - | - | 2 | - | 6 | - |
| 21 | W-3001 | 7624 | 5 | 1811 | 8 | 2234 | 3 | 5624 | 10 | 5161 | 5 | 14 | 139 | - | - | - | 34 | 11 | 42 | 21 | 30 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 22 | Prakash | 6688 | 10 | 757 | 24 | 2680 | 1 | 6183 | 6 | 5184 | 4 | - | - | - | - | - | 18 | - | 70 | 33 | 30 |
| 23 | PEHM-2 | 5686 | 17 | 1625 | 11 | 1579 | 13 | 4663 | 21 | 3976 | 20 | - | 115 | - | - | - | - | - | - | - | - |
| 24 | HM-9 | 7813 | 3 | 1413 | 15 | 1176 | 20 | 5376 | 13 | 4788 | 10 | 17 | 87 | - | - | - | 37 | - | - | 15 | 20 |
| 25 | Vivek Hybrid-9 | 7997 | 2 | 1081 | 23 | 1882 | 8 | 5329 | 14 | 5069 | 7 | 20 | 43 | - | - | - | 41 | - | 19 | 14 | 27 |
| Location Mean | | 6412 | | 1644 | | 1602 | | 5614 | | 4543 | | | | | | | | | | | |
| C.D. (5%) | | 1258 | | 748 | | 445 | | 1056 | | 920 | | | | | | | | | | | |
| C.V. (%) | | 11.94 | | 27.68 | | 16.92 | | 11.45 | | - | | | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0 | | 0 | | - | | | | | | | | | | | |
| Plot Size | | 4.8 | | 6 | | 4.8 | | 4.8 | | - | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 9-07 | | 11-07 | | 31-07 | | 2-07 | | - | | | | | | | | | | | |
| Harvest Date | | - | | 12-11 | | 30-10 | | 20-10 | | - | | | | | | | | | | | |
| Irrigation Nos | | - | | - | | - | | 2 | | - | | | | | | | | | | | |
| Fertilizer Applied | | 120 | | 120 | | 100 | | 120 | | - | | | | | | | | | | | |
| Fertilizer Applied | | 60 | | 60 | | 50 | | 90 | | - | | | | | | | | | | | |
| Fertilizer Applied | | 40 | | 40 | | - | | - | | - | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI:27.68%

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TABLE No.34 (Cont..)

| SI No | PEDIGREE | GRAIN YIELD % SUPERIORITY OVER HM-9 | | | | | GRAIN YIELD % SUPERIORITY OVER Vivek Hybrid-9 | | | | |
|--------|----------------|-------------------------------------|------|------|------|------|---|------|------|------|------|
| | | AMBI | CHHI | GODH | UDAI | MEAN | AMBI | CHHI | GODH | UDAI | MEAN |
| 1 | EH-2376 | - | 111 | 14 | 36 | 14 | - | 176 | - | 37 | 7 |
| 2 | EH-2377 | - | 27 | 25 | 23 | - | - | 66 | - | 24 | - |
| 3 | EH-2378 | - | 40 | - | 1 | - | - | 83 | - | 2 | - |
| 4 | EH-2379 | - | 2 | 38 | 5 | - | - | 34 | - | 6 | - |
| 5 | EH-2380 | - | 123 | 73 | 26 | 6 | - | 192 | 8 | 27 | 1 |
| 6 | EH-2381 | - | 103 | 62 | 74 | 16 | - | 165 | 1 | 76 | 10 |
| 7 | EH-2382 | - | - | 15 | - | - | - | - | - | - | - |
| 8 | EH-2383 | - | - | 40 | - | - | - | 1 | - | - | - |
| 9 | GWH-0702 | - | 33 | 44 | - | - | - | 74 | - | - | - |
| 10 | GWH-0906 | - | - | 21 | - | - | - | 25 | - | - | - |
| 11 | GYH-0652 | - | - | - | - | - | - | 23 | - | - | - |
| 12 | GYH-0659 | - | 70 | 66 | 15 | 4 | - | 123 | 4 | 16 | - |
| 13 | GYH-0942 | - | - | - | - | - | - | 7 | - | - | - |
| 14 | W-3001 | - | 29 | 83 | - | - | - | 69 | 14 | - | - |
| 15 | W-3001 | - | - | 31 | 9 | 1 | - | 13 | - | 10 | - |
| 16 | W-3001 | - | 1 | - | - | - | - | 31 | - | - | - |
| 17 | W-3001 | - | - | 44 | - | - | - | 27 | - | - | - |
| 18 | W-3001 | - | - | - | 4 | - | - | 19 | - | 5 | - |
| 19 | W-3001 | 24 | 5 | 100 | 33 | 34 | 21 | 37 | 25 | 34 | 26 |
| 20 | W-3001 | - | 18 | 12 | - | - | - | 54 | - | - | - |
| 21 | W-3001 | - | 28 | 90 | 5 | 8 | - | 67 | 19 | 6 | 2 |
| CHECKS | | | | | | | | | | | |
| 22 | Prakash | - | - | 128 | 15 | 8 | - | - | 42 | 16 | 2 |
| 23 | PEHM-2 | - | 15 | 34 | - | - | - | 50 | - | - | - |
| 24 | HM-9 | - | - | - | - | - | - | 31 | - | 1 | - |
| 25 | Vivek Hybrid-9 | 2 | - | 60 | - | 6 | - | - | - | - | - |

Table No.34 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | | MOISTURE % AT HARVEST | | | |
|------------------|----------------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|
| | | AMBI | CHHI | GODH | UDAI | Mean | AMBI | CHHI | GODH | UDAI | Mean | AMBI | CHHI | GODH | UDAI | Mean | CHHI | GODH | UDAI | Mean |
| 1 | EH-2376 | 47.0 | 61.7 | 52.7 | 55.3 | 54.2 | 49.0 | 63.7 | 54.7 | 58.0 | 56.3 | 81.0 | 98.7 | 78.0 | 88.3 | 86.5 | 16.6 | 16.9 | 16.1 | 16.5 |
| 2 | EH-2377 | 40.3 | 62.0 | 45.7 | 51.7 | 49.9 | 42.7 | 63.3 | 49.3 | 54.3 | 52.4 | 78.0 | 99.3 | 77.0 | 87.3 | 85.4 | 14.8 | 18.2 | 17.6 | 16.9 |
| 3 | EH-2378 | 45.0 | 60.7 | 52.0 | 49.7 | 51.8 | 47.3 | 62.3 | 54.3 | 51.7 | 53.9 | 82.3 | 96.7 | 78.7 | 82.3 | 85.0 | 15.4 | 14.6 | 18.5 | 16.2 |
| 4 | EH-2379 | 47.0 | 56.0 | 52.3 | 48.7 | 51.0 | 49.3 | 57.0 | 54.3 | 51.7 | 53.1 | 84.3 | 93.3 | 81.7 | 82.0 | 85.3 | 13.1 | 16.4 | 18.5 | 16.0 |
| 5 | EH-2380 | 40.3 | 62.7 | 48.3 | 57.7 | 52.3 | 43.0 | 64.7 | 52.3 | 58.7 | 54.7 | 78.0 | 99.3 | 78.3 | 89.7 | 86.3 | 18.4 | 16.2 | 20.6 | 18.4 |
| 6 | EH-2381 | 42.3 | 61.0 | 47.3 | 55.7 | 51.6 | 44.3 | 63.3 | 50.0 | 57.7 | 53.8 | 75.0 | 98.7 | 77.3 | 88.0 | 84.8 | 16.9 | 17.4 | 18.1 | 17.5 |
| 7 | EH-2382 | 44.0 | 59.7 | 48.3 | 52.7 | 51.2 | 47.0 | 62.0 | 50.3 | 54.7 | 53.5 | 76.0 | 96.3 | 78.0 | 86.7 | 84.3 | 11.8 | 17.2 | 18.2 | 15.7 |
| 8 | EH-2383 | 43.3 | 59.3 | 48.3 | 54.0 | 51.3 | 46.0 | 61.3 | 50.7 | 55.3 | 53.3 | 80.0 | 95.3 | 77.7 | 86.0 | 84.8 | 13.3 | 16.7 | 18.3 | 16.1 |
| 9 | GWH-0702 | 42.0 | 56.7 | 47.3 | 48.0 | 48.5 | 45.0 | 58.3 | 52.0 | 50.0 | 51.3 | 81.0 | 96.3 | 79.3 | 86.7 | 85.8 | 13.6 | 16.7 | 20.8 | 17.0 |
| 10 | GWH-0906 | 41.3 | 54.7 | 47.7 | 49.7 | 48.3 | 43.3 | 56.7 | 50.3 | 51.7 | 50.5 | 73.3 | 90.3 | 79.7 | 83.0 | 81.6 | 11.6 | 17.0 | 20.7 | 16.4 |
| 11 | GYH-0652 | 40.0 | 58.0 | 47.3 | 53.0 | 49.6 | 42.7 | 60.0 | 50.0 | 55.0 | 51.9 | 74.0 | 98.0 | 79.3 | 86.0 | 84.3 | 14.5 | 16.3 | 21.0 | 17.3 |
| 12 | GYH-0659 | 43.0 | 60.3 | 51.7 | 56.3 | 52.8 | 46.0 | 62.0 | 54.3 | 58.3 | 55.2 | 78.0 | 97.3 | 79.0 | 88.7 | 85.8 | 16.1 | 16.0 | 18.6 | 16.9 |
| 13 | GYH-0942 | 43.0 | 56.3 | 49.0 | 50.3 | 49.7 | 45.7 | 58.3 | 54.3 | 51.7 | 52.5 | 78.3 | 93.3 | 79.3 | 81.7 | 83.2 | 12.4 | 18.7 | 18.2 | 16.4 |
| 14 | W-3001 | 45.0 | 55.7 | 49.3 | 48.3 | 49.6 | 48.0 | 57.0 | 52.7 | 50.3 | 52.0 | 78.3 | 94.0 | 81.7 | 82.3 | 84.1 | 12.3 | 17.9 | 18.0 | 16.0 |
| 15 | W-3001 | 44.7 | 57.3 | 52.0 | 48.7 | 50.7 | 47.3 | 59.3 | 52.7 | 50.7 | 52.5 | 81.3 | 98.7 | 79.0 | 83.0 | 85.5 | 14.1 | 17.9 | 19.9 | 17.3 |
| 16 | W-3001 | 45.0 | 55.7 | 53.0 | 50.3 | 51.0 | 48.3 | 57.0 | 52.7 | 52.7 | 52.7 | 84.3 | 95.3 | 79.7 | 83.3 | 85.7 | 12.8 | 16.4 | 17.8 | 15.6 |
| 17 | W-3001 | 48.0 | 56.3 | 53.0 | 48.0 | 51.3 | 51.0 | 58.3 | 55.7 | 49.0 | 53.5 | 86.0 | 94.7 | 81.0 | 81.3 | 85.8 | 12.5 | 17.4 | 17.4 | 15.8 |
| 18 | W-3001 | 40.0 | 56.3 | 48.0 | 49.3 | 48.4 | 42.7 | 58.0 | 51.0 | 52.0 | 50.9 | 80.0 | 94.0 | 79.3 | 83.0 | 84.1 | 12.2 | 16.7 | 18.3 | 15.7 |
| 19 | W-3001 | 44.3 | 54.0 | 54.0 | 48.0 | 50.1 | 47.0 | 56.0 | 56.3 | 50.0 | 52.3 | 82.0 | 93.7 | 81.7 | 82.3 | 84.9 | 13.1 | 18.1 | 15.8 | 15.7 |
| 20 | W-3001 | 43.0 | 55.3 | 47.0 | 48.7 | 48.5 | 45.7 | 56.3 | 50.0 | 50.3 | 50.6 | 78.3 | 95.7 | 77.7 | 82.0 | 83.4 | 12.8 | 16.8 | 17.3 | 15.6 |
| 21 | W-3001 | 48.0 | 58.0 | 53.3 | 54.0 | 53.3 | 51.3 | 60.0 | 55.3 | 57.0 | 55.9 | 88.0 | 93.7 | 81.0 | 87.3 | 87.5 | 15.4 | 17.2 | 19.6 | 17.4 |
| CHECKS | | | | | | | | | | | | | | | | | | | | |
| 22 | Prakash | 46.3 | 58.7 | 51.3 | 53.7 | 52.5 | 48.7 | 60.0 | 54.3 | 55.7 | 54.7 | 88.3 | 98.7 | 81.0 | 84.0 | 88.0 | 14.7 | 17.3 | 17.5 | 16.5 |
| 23 | PEHM-2 | 46.0 | 60.0 | 50.3 | 57.3 | 53.4 | 48.7 | 62.3 | 54.0 | 59.3 | 56.1 | 82.3 | 97.3 | 78.7 | 89.0 | 86.8 | 13.6 | 16.3 | 19.9 | 16.6 |
| 24 | HM-9 | 45.0 | 63.0 | 51.3 | 58.0 | 54.3 | 47.3 | 65.0 | 54.7 | 60.3 | 56.8 | 80.0 | 103.0 | 80.7 | 90.7 | 88.6 | 18.2 | 17.2 | 18.1 | 17.8 |
| 25 | Vivek Hybrid-9 | 42.0 | 58.7 | 51.0 | 48.0 | 49.9 | 44.0 | 60.3 | 52.0 | 49.3 | 51.4 | 76.0 | 95.3 | 79.3 | 81.0 | 82.9 | 10.4 | 16.3 | 20.1 | 15.6 |
| Loc. Mean | | 43.8 | 58.3 | 50.1 | 51.8 | 51.0 | 46.5 | 60.1 | 52.7 | 53.8 | 53.3 | 80.2 | 96.3 | 79.4 | 85.0 | 85.2 | 14.0 | 16.9 | 18.6 | 16.5 |
| C.D. (5%) | | 0.76 | 1.43 | 3.79 | 1.57 | 3.44 | 1.10 | 1.42 | 4.18 | 1.54 | 3.42 | 0.82 | 1.32 | 3.95 | 2.43 | 3.98 | 1.30 | 1.23 | 0.35 | 2.63 |
| C.V. (%) | | 1.05 | 1.49 | 4.61 | 1.84 | 4.79 | 1.44 | 1.44 | 4.82 | 1.75 | 4.55 | 0.62 | 0.84 | 3.03 | 1.74 | 3.31 | 5.64 | 4.41 | 1.15 | 9.72 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.83 |

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Table No.34 (Cont..)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | PLANT HEIGHT(cm) | | | | | EAR HEIGHT(cm) | | | | |
|------------------|----------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|-------------|
| | | AMBI | CHHI | GODH | UDAI | Mean | AMBI | CHHI | GODH | UDAI | Mean | AMBI | CHHI | GODH | UDAI | Mean | AMBI | CHHI | GODH | UDAI | Mean |
| 1 | EH-2376 | 74.3 | 81.3 | 88.5 | 81.0 | 81.3 | 72.9 | 46.7 | 31.9 | 46.5 | 49.5 | 268.2 | 143.3 | 135.3 | 188.3 | 183.8 | 107.7 | 63.3 | 40.0 | 96.7 | 89.2 |
| 2 | EH-2377 | 73.4 | 87.9 | 87.6 | 82.2 | 82.8 | 61.1 | 50.6 | 66.7 | 53.5 | 58.0 | 250.1 | 110.0 | 162.0 | 176.7 | 174.7 | 100.9 | 53.3 | 63.0 | 78.3 | 77.5 |
| 3 | EH-2378 | 73.1 | 84.0 | 80.9 | 81.9 | 80.0 | 63.9 | 53.3 | 42.4 | 61.8 | 55.3 | 264.6 | 110.0 | 131.7 | 188.3 | 173.7 | 108.7 | 46.7 | 33.7 | 96.7 | 84.0 |
| 4 | EH-2379 | 72.6 | 87.2 | 87.8 | 81.8 | 82.4 | 70.1 | 40.6 | 49.3 | 50.7 | 52.7 | 272.3 | 110.0 | 151.0 | 155.0 | 172.1 | 128.5 | 53.3 | 55.3 | 66.7 | 82.8 |
| 5 | EH-2380 | 73.1 | 79.9 | 86.9 | 81.5 | 80.3 | 70.1 | 54.4 | 41.0 | 56.9 | 55.6 | 257.1 | 141.7 | 150.7 | 181.7 | 182.8 | 87.5 | 60.0 | 55.3 | 81.7 | 76.4 |
| 6 | EH-2381 | 73.3 | 81.1 | 85.4 | 80.7 | 80.1 | 61.8 | 45.6 | 33.3 | 63.2 | 51.0 | 235.3 | 136.7 | 137.3 | 181.7 | 172.8 | 89.7 | 56.7 | 41.0 | 83.3 | 76.6 |
| 7 | EH-2382 | 75.8 | 80.9 | 86.5 | 82.8 | 81.5 | 60.4 | 37.8 | 37.5 | 40.3 | 44.0 | 245.1 | 106.7 | 145.0 | 178.3 | 168.8 | 89.9 | 43.3 | 51.0 | 80.0 | 71.1 |
| 8 | EH-2383 | 73.4 | 85.1 | 86.0 | 82.2 | 81.7 | 65.3 | 45.0 | 40.3 | 60.4 | 52.7 | 222.7 | 115.0 | 153.3 | 171.7 | 165.7 | 85.5 | 48.3 | 58.3 | 80.0 | 71.3 |
| 9 | GWH-0702 | 71.8 | 85.0 | 86.2 | 79.7 | 80.7 | 61.1 | 53.3 | 44.4 | 61.1 | 55.0 | 229.2 | 105.0 | 143.7 | 148.3 | 156.6 | 81.5 | 43.3 | 45.7 | 80.0 | 68.3 |
| 10 | GWH-0906 | 75.2 | 85.9 | 87.2 | 79.8 | 82.0 | 63.2 | 52.8 | 43.8 | 48.6 | 52.1 | 234.2 | 116.7 | 134.7 | 150.0 | 158.9 | 82.5 | 48.3 | 38.0 | 73.3 | 68.1 |
| 11 | GYH-0652 | 71.6 | 86.2 | 86.9 | 81.6 | 81.6 | 59.7 | 48.9 | 34.7 | 50.0 | 48.3 | 223.7 | 120.0 | 142.3 | 196.7 | 170.7 | 81.4 | 43.3 | 44.3 | 90.0 | 71.6 |
| 12 | GYH-0659 | 73.1 | 86.1 | 88.6 | 81.9 | 82.4 | 68.8 | 50.6 | 42.4 | 54.9 | 54.1 | 247.1 | 125.0 | 155.7 | 185.0 | 178.2 | 92.9 | 58.3 | 56.0 | 105.0 | 85.4 |
| 13 | GYH-0942 | 73.9 | 80.6 | 74.2 | 82.0 | 77.7 | 61.8 | 50.0 | 47.9 | 54.2 | 53.5 | 234.4 | 103.3 | 140.0 | 170.0 | 161.9 | 85.6 | 35.0 | 42.7 | 70.0 | 63.5 |
| 14 | W-3001 | 72.1 | 84.4 | 88.9 | 82.2 | 81.9 | 68.1 | 58.9 | 61.8 | 50.0 | 59.7 | 234.7 | 106.7 | 151.0 | 151.7 | 161.0 | 88.4 | 38.3 | 51.7 | 71.7 | 66.1 |
| 15 | W-3001 | 74.2 | 84.7 | 88.4 | 80.2 | 81.9 | 72.9 | 36.7 | 21.5 | 54.9 | 46.5 | 250.4 | 96.7 | 150.0 | 146.7 | 160.9 | 110.1 | 35.0 | 51.7 | 63.3 | 69.5 |
| 16 | W-3001 | 74.3 | 86.8 | 85.8 | 81.3 | 82.0 | 54.9 | 45.0 | 22.2 | 56.9 | 44.8 | 256.4 | 101.7 | 140.0 | 145.0 | 160.8 | 105.3 | 43.3 | 43.7 | 56.7 | 68.4 |
| 17 | W-3001 | 74.2 | 82.9 | 86.0 | 81.2 | 81.1 | 66.7 | 47.2 | 29.2 | 60.4 | 50.9 | 261.3 | 93.3 | 129.0 | 155.0 | 159.7 | 92.3 | 38.3 | 31.0 | 70.0 | 66.9 |
| 18 | W-3001 | 72.3 | 87.7 | 84.6 | 80.7 | 81.3 | 77.1 | 47.8 | 29.9 | 61.8 | 54.1 | 247.9 | 98.3 | 141.7 | 145.0 | 158.2 | 81.7 | 35.0 | 44.0 | 56.7 | 57.8 |
| 19 | W-3001 | 72.7 | 87.7 | 87.8 | 79.5 | 81.9 | 86.1 | 41.7 | 47.9 | 58.3 | 58.5 | 277.8 | 91.7 | 142.0 | 163.3 | 168.7 | 98.1 | 38.3 | 55.0 | 73.3 | 69.9 |
| 20 | W-3001 | 72.7 | 86.6 | 87.7 | 80.2 | 81.8 | 55.6 | 55.0 | 31.3 | 61.1 | 50.7 | 253.9 | 96.7 | 139.0 | 155.0 | 161.2 | 89.8 | 41.7 | 39.7 | 75.0 | 68.8 |
| 21 | W-3001 | 72.7 | 81.4 | 84.0 | 82.4 | 80.1 | 71.5 | 52.2 | 39.6 | 56.3 | 54.9 | 253.0 | 108.3 | 148.3 | 151.7 | 165.3 | 114.1 | 45.0 | 52.3 | 71.7 | 76.9 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 22 | Prakash | 73.4 | 86.5 | 88.0 | 81.9 | 82.4 | 65.3 | 30.6 | 31.3 | 56.9 | 46.0 | 267.3 | 101.7 | 138.7 | 158.3 | 166.5 | 107.9 | 48.3 | 41.0 | 73.3 | 76.5 |
| 23 | PEHM-2 | 74.1 | 87.0 | 88.5 | 81.5 | 82.8 | 61.8 | 41.7 | 37.5 | 46.5 | 46.9 | 263.3 | 138.3 | 150.0 | 195.0 | 186.7 | 82.3 | 55.0 | 51.7 | 110.0 | 82.4 |
| 24 | HM-9 | 73.9 | 79.6 | 82.5 | 80.8 | 79.2 | 72.9 | 39.4 | 28.5 | 55.6 | 49.1 | 260.7 | 113.3 | 132.7 | 146.7 | 163.4 | 97.8 | 48.3 | 32.7 | 51.7 | 65.9 |
| 25 | Vivek Hybrid-9 | 72.5 | 84.8 | 85.8 | 79.7 | 80.7 | 75.0 | 46.1 | 50.0 | 54.9 | 56.5 | 253.7 | 116.7 | 154.0 | 155.0 | 169.9 | 105.3 | 46.7 | 54.3 | 58.3 | 70.1 |
| Loc. Mean | | 73.3 | 84.5 | 86.0 | 81.2 | 81.3 | 66.7 | 46.9 | 39.4 | 55.0 | 52.0 | 250.6 | 112.3 | 144.0 | 165.6 | 168.1 | 95.8 | 46.7 | 46.9 | 76.5 | 73.0 |
| C.D. (5%) | | 2.94 | 3.38 | 2.99 | 0.68 | 2.98 | 9.66 | 10.54 | 5.54 | 11.22 | 10.68 | 22.61 | 15.11 | 16.86 | 24.28 | 18.79 | 14.89 | 9.44 | 17.53 | 20.12 | 18.87 |
| C.V. (%) | | 2.44 | 2.44 | 2.12 | 0.51 | 2.60 | 8.82 | 13.70 | 8.56 | 12.42 | 14.57 | 5.50 | 8.20 | 7.13 | 8.93 | 7.93 | 9.47 | 12.32 | 22.76 | 16.01 | 15.74 |
| F (Prob) | | 0.51 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.01 | 0.19 | 0.00 | 0.00 | 0.02 | 0.00 | 0.07 | 0.00 | 0.00 | 0.02 | 0.00 | 0.21 |

TABLE No.35

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN ZONAL TRIAL No.511 DURING KHARIF (2013)

| Sl No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | | |
|----------------------|-------------------------------------|-------------|------|-------------|------|-------------|--------------------------------|------|------|--------|------|------|----|
| | BANS | | UDAI | | ZN 5 | | Bio-9681 | | | PEHM-2 | | | |
| | PEDIGREE | R | R | R | MEAN | R | BANS | UDAI | MEAN | BANS | UDAI | MEAN | |
| 1 | WH-1001 | 5857 | 1 | 2905 | 23 | 5857 | 1 | 29 | - | 29 | 58 | - | 58 |
| 2 | WH-1002 | 5310 | 4 | 2613 | 24 | 5310 | 4 | 17 | - | 17 | 43 | - | 43 |
| 3 | WH-1003 | 5337 | 3 | 1867 | 25 | 5337 | 3 | 18 | - | 18 | 44 | - | 44 |
| 4 | WH-1004 | 5035 | 6 | 5268 | 11 | 5035 | 6 | 11 | 17 | 11 | 36 | 42 | 36 |
| 5 | WH-1005 | 5443 | 2 | 3377 | 22 | 5443 | 2 | 20 | - | 20 | 47 | - | 47 |
| 6 | EH-2384 | 4885 | 7 | 5558 | 8 | 4885 | 7 | 8 | 24 | 8 | 32 | 50 | 32 |
| 7 | EH-2385 | 4277 | 12 | 5258 | 12 | 4277 | 12 | - | 17 | - | 15 | 42 | 15 |
| 8 | EH-2386 | 3363 | 24 | 5564 | 7 | 3363 | 24 | - | 24 | - | - | 50 | - |
| 9 | EH-2387 | 4304 | 10 | 5038 | 14 | 4304 | 10 | - | 12 | - | 16 | 36 | 16 |
| 10 | EH-2388 | 3981 | 19 | 7497 | 1 | 3981 | 19 | - | 67 | - | 7 | 103 | 7 |
| 11 | EH-2389 | 4180 | 15 | 4803 | 17 | 4180 | 15 | - | 7 | - | 13 | 30 | 13 |
| 12 | EH-2390 | 3750 | 21 | 4558 | 18 | 3750 | 21 | - | 2 | - | 1 | 23 | 1 |
| 13 | EH-2391 | 4597 | 8 | 5652 | 4 | 4597 | 8 | 1 | 26 | 1 | 24 | 53 | 24 |
| 14 | EH-2392 | 4049 | 18 | 5597 | 6 | 4049 | 18 | - | 25 | - | 9 | 51 | 9 |
| 15 | EH-2393 | 4291 | 11 | 5257 | 13 | 4291 | 11 | - | 17 | - | 16 | 42 | 16 |
| 16 | EH-2394 | 4198 | 14 | 5422 | 9 | 4198 | 14 | - | 21 | - | 13 | 46 | 13 |
| 17 | EH-2395 | 4208 | 13 | 5935 | 2 | 4208 | 13 | - | 32 | - | 13 | 60 | 13 |
| 18 | EH-2396 | 3687 | 23 | 4985 | 15 | 3687 | 23 | - | 11 | - | - | 35 | - |
| 19 | EH-2397 | 4116 | 17 | 4854 | 16 | 4116 | 17 | - | 8 | - | 11 | 31 | 11 |
| 20 | EH-2398 | 3338 | 25 | 5384 | 10 | 3338 | 25 | - | 20 | - | - | 45 | - |
| 21 | EH-2399 | 4161 | 16 | 5660 | 3 | 4161 | 16 | - | 26 | - | 12 | 53 | 12 |
| 22 | EH-2400 | 3942 | 20 | 5600 | 5 | 3942 | 20 | - | 25 | - | 6 | 51 | 6 |
| 23 | EH-2401 | 5052 | 5 | 4001 | 20 | 5052 | 5 | 12 | - | 12 | 36 | 8 | 36 |
| CHECKS | | | | | | | | | | | | | |
| 24 | Bio-9681 | 4530 | 9 | 4489 | 19 | 4530 | 9 | - | - | - | 22 | 21 | 22 |
| 25 | PEHM-2 | 3711 | 22 | 3702 | 21 | 3711 | 22 | - | - | - | - | - | - |
| Location Mean | | 4384 | | 4834 | | 4384 | | | | | | | |
| C.D. (5%) | | 581 | | 1702 | | 581 | | | | | | | |
| C.V. (%) | | 8.07 | | 21.43 | | - | | | | | | | |
| F (Prob) | | 0 | | 0 | | | | | | | | | |
| Plot Size | | 4.8 | | 4.8 | | - | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | |
| Sowing Date | | 6-07 | | 1-07 | | - | | | | | | | |
| Harvest Date | | 7-10 | | 20-10 | | - | | | | | | | |
| Irrigation Nos | | - | | 2 | | - | | | | | | | |
| Fertilizer Applied I | | 150 | | 90 | | - | | | | | | | |
| Fertilizer Applied I | | 80 | | 60 | | - | | | | | | | |
| Fertilizer Applied I | | - | | - | | - | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : UDAI:21.43%

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Table No.35 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | | GRAIN SHELLING % | | | STAND AT HARVEST (⁰⁰⁰ /ha) | | | PLANT HEIGHT(cm) | | EAR HEIGHT(cm) | |
|------------------|----------|----------------------------|-------------|-------------|------------------------|-------------|-------------|-------------------------|-------------|-------------|--------------------------|-------------|-------------|------------------|-------------|-------------|---|-------------|-------------|---------------------|-------------|-------------------|--|
| | | BANS | UDAI | Mean | BANS | UDAI | Mean | BANS | UDAI | Mean | BANS | UDAI | Mean | BANS | UDAI | Mean | BANS | UDAI | Mean | UDAI | UDAI | | |
| 1 | WH-1001 | 48.3 | 52.7 | 50.5 | 52.0 | 55.7 | 53.8 | 79.7 | 86.3 | 83.0 | 16.9 | 20.7 | 18.8 | 72.2 | 84.2 | 78.2 | 63.9 | 60.4 | 62.2 | 178.3 | 88.3 | | |
| 2 | WH-1002 | 47.7 | 51.7 | 49.7 | 50.7 | 54.7 | 52.7 | 78.0 | 86.0 | 82.0 | 17.3 | 22.9 | 20.1 | 70.0 | 82.9 | 76.4 | 57.6 | 59.0 | 58.3 | 186.7 | 85.0 | | |
| 3 | WH-1003 | 47.3 | 53.3 | 50.3 | 50.3 | 56.0 | 53.2 | 78.0 | 85.3 | 81.7 | 17.1 | 23.6 | 20.3 | 71.4 | 81.2 | 76.3 | 61.8 | 59.0 | 60.4 | 181.7 | 86.7 | | |
| 4 | WH-1004 | 47.0 | 52.3 | 49.7 | 49.7 | 55.0 | 52.3 | 78.3 | 85.7 | 82.0 | 17.6 | 20.8 | 19.2 | 70.9 | 80.7 | 75.8 | 61.1 | 58.3 | 59.7 | 198.3 | 83.3 | | |
| 5 | WH-1005 | 46.3 | 52.3 | 49.3 | 49.3 | 55.0 | 52.2 | 78.7 | 85.3 | 82.0 | 17.4 | 19.9 | 18.7 | 70.7 | 84.8 | 77.7 | 60.4 | 61.8 | 61.1 | 185.0 | 85.0 | | |
| 6 | EH-2384 | 47.0 | 55.0 | 51.0 | 50.0 | 57.7 | 53.8 | 78.3 | 86.7 | 82.5 | 17.6 | 24.1 | 20.8 | 69.6 | 81.9 | 75.7 | 61.8 | 61.1 | 61.5 | 208.3 | 96.7 | | |
| 7 | EH-2385 | 45.3 | 52.7 | 49.0 | 48.3 | 55.7 | 52.0 | 76.0 | 85.7 | 80.8 | 16.5 | 22.9 | 19.7 | 69.7 | 81.9 | 75.8 | 59.7 | 60.4 | 60.1 | 178.3 | 93.3 | | |
| 8 | EH-2386 | 46.3 | 50.3 | 48.3 | 49.3 | 53.3 | 51.3 | 77.0 | 83.3 | 80.2 | 16.6 | 21.8 | 19.2 | 67.6 | 82.2 | 74.9 | 55.6 | 59.0 | 57.3 | 178.3 | 86.7 | | |
| 9 | EH-2387 | 46.3 | 54.3 | 50.3 | 49.3 | 56.7 | 53.0 | 76.3 | 86.3 | 81.3 | 16.2 | 24.2 | 20.2 | 67.6 | 82.9 | 75.3 | 58.3 | 63.2 | 60.8 | 178.3 | 88.3 | | |
| 10 | EH-2388 | 47.3 | 52.0 | 49.7 | 50.7 | 54.7 | 52.7 | 79.0 | 85.3 | 82.2 | 17.0 | 19.2 | 18.1 | 69.2 | 84.1 | 76.7 | 58.3 | 59.7 | 59.0 | 188.3 | 90.0 | | |
| 11 | EH-2389 | 46.3 | 46.7 | 46.5 | 49.3 | 48.7 | 49.0 | 77.0 | 83.3 | 80.2 | 16.4 | 19.8 | 18.1 | 67.8 | 80.7 | 74.2 | 56.3 | 60.4 | 58.3 | 178.3 | 81.7 | | |
| 12 | EH-2390 | 45.7 | 46.7 | 46.2 | 48.7 | 49.3 | 49.0 | 76.0 | 83.0 | 79.5 | 18.1 | 18.1 | 18.1 | 68.8 | 81.2 | 75.0 | 56.3 | 60.4 | 58.3 | 178.3 | 65.0 | | |
| 13 | EH-2391 | 47.0 | 51.7 | 49.3 | 50.0 | 54.7 | 52.3 | 78.0 | 84.7 | 81.3 | 16.8 | 24.2 | 20.5 | 69.7 | 83.9 | 76.8 | 59.0 | 60.4 | 59.7 | 198.3 | 98.3 | | |
| 14 | EH-2392 | 45.3 | 51.7 | 48.5 | 48.3 | 54.3 | 51.3 | 75.7 | 85.0 | 80.3 | 17.4 | 21.9 | 19.6 | 70.2 | 82.1 | 76.1 | 56.3 | 61.1 | 58.7 | 195.0 | 115.0 | | |
| 15 | EH-2393 | 46.3 | 53.3 | 49.8 | 49.3 | 55.7 | 52.5 | 79.0 | 85.3 | 82.2 | 17.5 | 21.5 | 19.5 | 67.7 | 80.5 | 74.1 | 59.0 | 58.3 | 58.7 | 196.7 | 111.7 | | |
| 16 | EH-2394 | 48.3 | 51.3 | 49.8 | 51.7 | 54.0 | 52.8 | 80.3 | 85.3 | 82.8 | 18.0 | 22.9 | 20.4 | 70.0 | 82.4 | 76.2 | 59.0 | 59.7 | 59.4 | 173.3 | 80.0 | | |
| 17 | EH-2395 | 45.3 | 48.0 | 46.7 | 48.3 | 50.3 | 49.3 | 77.0 | 83.7 | 80.3 | 17.5 | 21.2 | 19.3 | 67.9 | 83.8 | 75.8 | 56.9 | 60.4 | 58.7 | 183.3 | 78.3 | | |
| 18 | EH-2396 | 48.3 | 50.7 | 49.5 | 51.7 | 53.7 | 52.7 | 79.3 | 83.7 | 81.5 | 18.2 | 20.7 | 19.4 | 67.9 | 82.0 | 74.9 | 57.6 | 59.7 | 58.7 | 183.3 | 101.7 | | |
| 19 | EH-2397 | 44.7 | 51.0 | 47.8 | 47.7 | 53.3 | 50.5 | 77.3 | 83.7 | 80.5 | 17.1 | 21.3 | 19.2 | 68.7 | 81.3 | 75.0 | 59.7 | 59.7 | 59.7 | 180.0 | 85.0 | | |
| 20 | EH-2398 | 45.0 | 51.7 | 48.3 | 48.0 | 54.3 | 51.2 | 75.7 | 84.3 | 80.0 | 16.6 | 22.6 | 19.6 | 67.1 | 82.9 | 75.0 | 58.3 | 59.7 | 59.0 | 190.0 | 93.3 | | |
| 21 | EH-2399 | 45.3 | 52.7 | 49.0 | 48.3 | 55.0 | 51.7 | 76.3 | 85.7 | 81.0 | 18.2 | 23.4 | 20.8 | 69.6 | 83.4 | 76.5 | 56.9 | 60.4 | 58.7 | 190.0 | 95.0 | | |
| 22 | EH-2400 | 46.3 | 53.3 | 49.8 | 49.3 | 55.0 | 52.2 | 78.0 | 83.7 | 80.8 | 18.2 | 23.4 | 20.8 | 65.9 | 84.6 | 75.2 | 59.0 | 61.1 | 60.1 | 191.7 | 95.0 | | |
| 23 | EH-2401 | 47.3 | 53.0 | 50.2 | 50.7 | 55.7 | 53.2 | 78.0 | 85.0 | 81.5 | 17.5 | 22.0 | 19.7 | 68.8 | 81.6 | 75.2 | 56.9 | 59.7 | 58.3 | 190.0 | 96.7 | | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | Bio-9681 | 48.3 | 53.0 | 50.7 | 51.7 | 55.7 | 53.7 | 79.3 | 85.7 | 82.5 | 17.7 | 19.8 | 18.7 | 70.9 | 82.0 | 76.4 | 63.2 | 59.0 | 61.1 | 166.7 | 76.7 | | |
| 25 | PEHM-2 | 44.7 | 52.7 | 48.7 | 47.7 | 55.7 | 51.7 | 74.0 | 85.3 | 79.7 | 16.8 | 21.1 | 18.9 | 66.6 | 84.0 | 75.3 | 60.4 | 60.4 | 60.4 | 188.3 | 93.3 | | |
| Loc. Mean | | 46.5 | 51.8 | 49.1 | 49.6 | 54.4 | 52.0 | 77.6 | 84.9 | 81.3 | 17.3 | 21.7 | 19.5 | 69.0 | 82.5 | 75.8 | 58.9 | 60.1 | 59.5 | 185.8 | 90.0 | | |
| C.D. (5%) | | 1.08 | 2.22 | 3.13 | 1.21 | 2.25 | 3.22 | 1.72 | 1.95 | 2.40 | 0.49 | 1.96 | 2.67 | 1.25 | 1.60 | 3.08 | 3.36 | 2.91 | 3.73 | 20.32 | 17.06 | | |
| C.V. (%) | | 1.42 | 2.61 | 3.09 | 1.48 | 2.52 | 3.00 | 1.35 | 1.40 | 1.43 | 1.73 | 5.49 | 6.64 | 1.10 | 1.18 | 1.97 | 3.48 | 2.95 | 3.04 | 6.66 | 11.55 | | |
| F (Prob) | | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.15 | 0.00 | 0.01 | 0.16 | 0.00 | 0.00 | 0.68 | 0.00 | 0.00 | 0.64 | 0.00 | 0.37 | 0.63 | 0.07 | 0.00 | | |

TABLE No.36

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT CHHINDWARA, UDAIPUR IN ZONAI TRIAL No. 512 DURING KHARIF (2013)

| SI | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | GRAIN YIELD % SUPERIORITY | | | GRAIN YIELD % SUPERIORITY | | | GRAIN YIELD % SUPERIORITY | | | | | | |
|----------------------|-------------------------------------|--------------|------|-------------|----|-------------|---------------------------|------|------|---------------------------|------|------|---------------------------|------|------|----------------------|------|------|------|
| | No | PEDIGREE | ZN 5 | | | | OVER BIO-9681 | | | OVER PEHM-2 | | | OVER Navjot | | | OVER Vivek hybrid-21 | | | |
| CHHI | | | R | UDAI | R | MEAN | R | CHHI | UDAI | MEAN | CHHI | UDAI | MEAN | CHHI | UDAI | MEAN | CHHI | UDAI | MEAN |
| 1 | EH-2402 | 2692 | 1 | 4277 | 6 | 4277 | 6 | 24 | - | - | 124 | 46 | 46 | 184 | 68 | 68 | 229 | 51 | 51 |
| 2 | EH-2403 | 1757 | 6 | 3298 | 9 | 3298 | 9 | - | - | - | 46 | 13 | 13 | 85 | 29 | 29 | 115 | 16 | 16 |
| 3 | EH-2404 | 1079 | 11 | 3235 | 10 | 3235 | 10 | - | - | - | - | 11 | 11 | 14 | 27 | 27 | 32 | 14 | 14 |
| 4 | EH- 2405 | 1775 | 5 | 4737 | 4 | 4737 | 4 | - | 8 | 8 | 48 | 62 | 62 | 87 | 86 | 86 | 117 | 67 | 67 |
| 5 | EH-2406 | 1315 | 8 | 3858 | 8 | 3858 | 8 | - | - | - | 9 | 32 | 32 | 39 | 51 | 51 | 61 | 36 | 36 |
| 6 | EH-2407 | 1417 | 7 | 4178 | 7 | 4178 | 7 | - | - | - | 18 | 43 | 43 | 49 | 64 | 64 | 73 | 47 | 47 |
| 7 | EH-2408 | 2405 | 2 | 6980 | 1 | 6980 | 1 | 11 | 59 | 59 | 100 | 138 | 138 | 154 | 174 | 174 | 194 | 146 | 146 |
| 8 | EH-2409 | 2360 | 3 | 6443 | 2 | 6443 | 2 | 9 | 47 | 47 | 96 | 120 | 120 | 149 | 153 | 153 | 189 | 127 | 127 |
| 9 | EH-2410 | 1208 | 9 | 4996 | 3 | 4996 | 3 | - | 14 | 14 | 1 | 71 | 71 | 27 | 96 | 96 | 48 | 76 | 76 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 10 | Bio-9681 | 2174 | 4 | 4396 | 5 | 4396 | 5 | - | - | - | 81 | 50 | 50 | 129 | 72 | 72 | 166 | 55 | 55 |
| 11 | PEHM-2 | 1202 | 10 | 2927 | 11 | 2927 | 11 | - | - | - | - | - | - | 27 | 15 | 15 | 47 | 3 | 3 |
| 12 | Navjot | 949 | 12 | 2549 | 13 | 2549 | 13 | - | - | - | - | - | - | - | - | - | 16 | - | - |
| 13 | Vivek hybrid-21 | 818 | 13 | 2841 | 12 | 2841 | 12 | - | - | - | - | - | - | - | 11 | 11 | - | - | - |
| Location Mean | | 1627 | | 4209 | | 4209 | | | | | | | | | | | | | |
| C.D. (5%) | | 757 | | 1038 | | 1038 | | | | | | | | | | | | | |
| C.V. (%) | | 27.55 | | 14.59 | | - | | | | | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | - | | | | | | | | | | | | | |
| Plot Size | | 6 | | 4.8 | | - | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 11-07 | | 1-07 | | - | | | | | | | | | | | | | |
| Harvest Date | | 13-11 | | 20-10 | | - | | | | | | | | | | | | | |
| Irrigation Nos | | - | | 2 | | - | | | | | | | | | | | | | |
| Fertilizer Applied N | | 120 | | 90 | | - | | | | | | | | | | | | | |
| Fertilizer Applied P | | 60 | | 60 | | - | | | | | | | | | | | | | |
| Fertilizer Applied K | | 40 | | - | | - | | | | | | | | | | | | | |

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

BR284

Table No.36 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | DAYS TO 50% SILKING | | | DAYS TO 75% DRY HUSK | | | MOISTURE % AT HARVEST | | | GRAIN SHELLING % | | | STAND AT HARVEST (⁰⁰⁰ /ha) | | | PLANT HEIGHT(cm) | | | EAR HEIGHT(cm) | | | |
|------------------|-----------------|----------------------------|-------------|-------------|------------------------|-------------|-------------|-------------------------|-------------|-------------|--------------------------|-------------|-------------|------------------|-------------|-------------|---|-------------|-------------|------------------|--------------|--------------|----------------|-------------|-------------|--|
| | | CHHI | UDAI | Mean | CHHI | UDAI | Mean | CHHI | UDAI | Mean | CHHI | UDAI | Mean | CHHI | UDAI | Mean | CHHI | UDAI | Mean | CHHI | UDAI | Mean | CHHI | UDAI | Mean | |
| 1 | EH-2402 | 63.3 | 52.3 | 57.8 | 64.3 | 55.3 | 59.8 | 102.7 | 82.3 | 92.5 | 16.7 | 19.1 | 17.9 | 84.9 | 78.1 | 81.5 | 44.4 | 56.3 | 50.3 | 128.3 | 166.7 | 147.5 | 61.7 | 88.3 | 75.0 | |
| 2 | EH-2403 | 54.7 | 47.7 | 51.2 | 56.7 | 49.7 | 53.2 | 93.7 | 81.3 | 87.5 | 12.4 | 18.5 | 15.5 | 85.0 | 83.1 | 84.0 | 51.1 | 55.6 | 53.3 | 121.7 | 163.3 | 142.5 | 53.3 | 78.3 | 65.8 | |
| 3 | EH-2404 | 57.0 | 46.0 | 51.5 | 58.0 | 49.0 | 53.5 | 95.7 | 80.0 | 87.8 | 12.4 | 23.9 | 18.1 | 87.5 | 87.3 | 87.4 | 35.0 | 61.1 | 48.1 | 106.7 | 155.0 | 130.8 | 45.0 | 70.0 | 57.5 | |
| 4 | EH- 2405 | 62.7 | 52.3 | 57.5 | 65.0 | 55.0 | 60.0 | 99.3 | 84.3 | 91.8 | 13.3 | 21.9 | 17.6 | 86.8 | 86.2 | 86.5 | 36.7 | 56.9 | 46.8 | 118.3 | 190.0 | 154.2 | 56.7 | 103.3 | 80.0 | |
| 5 | EH-2406 | 54.7 | 45.0 | 49.8 | 56.7 | 48.3 | 52.5 | 94.0 | 79.7 | 86.8 | 13.0 | 18.8 | 15.9 | 83.6 | 85.4 | 84.5 | 46.1 | 59.7 | 52.9 | 106.7 | 170.0 | 138.3 | 45.0 | 75.0 | 60.0 | |
| 6 | EH-2407 | 63.7 | 46.7 | 55.2 | 65.3 | 49.3 | 57.3 | 96.0 | 79.7 | 87.8 | 13.0 | 19.4 | 16.2 | 78.6 | 82.9 | 80.7 | 37.2 | 59.0 | 48.1 | 121.7 | 173.3 | 147.5 | 50.0 | 76.7 | 63.3 | |
| 7 | EH-2408 | 65.0 | 52.3 | 58.7 | 67.0 | 55.3 | 61.2 | 102.7 | 85.3 | 94.0 | 18.5 | 19.7 | 19.1 | 83.0 | 83.7 | 83.3 | 42.2 | 61.1 | 51.7 | 136.7 | 176.7 | 156.7 | 51.7 | 83.3 | 67.5 | |
| 8 | EH-2409 | 67.0 | 53.0 | 60.0 | 68.7 | 55.7 | 62.2 | 99.0 | 85.0 | 92.0 | 17.2 | 21.4 | 19.3 | 79.5 | 80.9 | 80.2 | 41.1 | 59.0 | 50.1 | 133.3 | 203.3 | 168.3 | 60.0 | 101.7 | 80.8 | |
| 9 | EH-2410 | 67.3 | 53.3 | 60.3 | 68.3 | 56.0 | 62.2 | 104.3 | 84.3 | 94.3 | 16.9 | 21.4 | 19.1 | 80.2 | 87.3 | 83.7 | 28.3 | 61.1 | 44.7 | 121.7 | 178.3 | 150.0 | 60.0 | 90.0 | 75.0 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Bio-9681 | 64.7 | 53.0 | 58.8 | 66.7 | 55.3 | 61.0 | 99.3 | 84.0 | 91.7 | 14.9 | 24.6 | 19.8 | 84.9 | 84.9 | 84.9 | 44.4 | 59.7 | 52.1 | 126.7 | 176.7 | 151.7 | 53.3 | 80.0 | 66.7 | |
| 11 | PEHM-2 | 61.3 | 51.7 | 56.5 | 63.3 | 54.7 | 59.0 | 99.3 | 82.3 | 90.8 | 13.6 | 23.5 | 18.5 | 83.0 | 81.3 | 82.1 | 40.0 | 57.6 | 48.8 | 113.3 | 166.7 | 140.0 | 41.7 | 71.7 | 56.7 | |
| 12 | Navjot | 63.0 | 52.7 | 57.8 | 65.0 | 55.3 | 60.2 | 99.3 | 85.3 | 92.3 | 14.3 | 18.4 | 16.4 | 84.6 | 80.3 | 82.4 | 23.9 | 56.3 | 40.1 | 115.0 | 163.3 | 139.2 | 51.7 | 75.0 | 63.3 | |
| 13 | Vivek hybrid-21 | 57.7 | 46.3 | 52.0 | 59.7 | 49.3 | 54.5 | 94.7 | 79.3 | 87.0 | 11.7 | 17.4 | 14.5 | 85.8 | 80.8 | 83.3 | 24.4 | 61.8 | 43.1 | 101.7 | 173.3 | 137.5 | 45.0 | 76.7 | 60.8 | |
| Loc. Mean | | 61.7 | 50.2 | 55.9 | 63.4 | 52.9 | 58.2 | 98.5 | 82.5 | 90.5 | 14.5 | 20.6 | 17.5 | 83.6 | 83.2 | 83.4 | 38.1 | 58.9 | 48.5 | 119.4 | 173.6 | 146.5 | 51.9 | 82.3 | 67.1 | |
| C.D. (5%) | | 1.28 | 1.52 | 3.84 | 1.35 | 1.32 | 3.66 | 1.20 | 1.38 | 3.55 | 2.20 | 0.58 | 4.68 | 1.83 | 0.57 | 5.78 | 11.07 | 3.33 | 14.30 | 13.13 | 15.20 | 18.08 | 12.48 | 15.24 | 10.39 | |
| C.V. (%) | | 1.23 | 1.80 | 3.15 | 1.26 | 1.48 | 2.89 | 0.72 | 1.00 | 1.80 | 9.04 | 1.66 | 12.24 | 1.30 | 0.41 | 3.18 | 17.25 | 3.36 | 13.54 | 6.53 | 5.20 | 5.67 | 14.27 | 10.99 | 7.10 | |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.70 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.00 | |

TABLE No.37

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN ZONAL TRIAL No. ZTQ01 DURING KHARIF (2013)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | | | | | | | | GRAIN YIELD % SUPERIORITY | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | GRAIN YIELD % SUPERIORITY OVER | | | | | | |
|----------------------|---------------------|-------------------------------------|----|--------------|----|--------------|----|-------------|----|-------------|---------------------------|------|------|------|------|--------------------------------|------|------|------|------|--------------------------------|------|------|------|------|------|--|
| | | ZN 5 | | | | | | | | | OVER Pratap QPMHybrid-1 | | | | | HQPM-1 | | | | | HQPM-5 | | | | | | |
| | | BANS | R | CHHI | R | GODH | R | UDAI | R | MEAN | R | BANS | CHHI | GODH | UDAI | MEAN | BANS | CHHI | GODH | UDAI | MEAN | BANS | CHHI | GODH | UDAI | MEAN | |
| 1 | EHQ-103 | 1898 | 9 | 1664 | 11 | 1664 | 1 | 4470 | 13 | 3184 | 13 | - | - | 22 | - | - | - | - | 97 | - | - | 9 | - | 237 | 27 | 21 | |
| 2 | EHQ-104 | 1665 | 21 | 1410 | 15 | 1311 | 3 | 3571 | 17 | 2618 | 19 | - | - | - | - | - | - | - | 55 | - | - | - | - | 165 | 1 | - | |
| 3 | EHQ-105 | 1896 | 10 | 2049 | 7 | 736 | 13 | 5370 | 7 | 3633 | 7 | - | - | - | - | - | - | - | - | - | - | 9 | - | 49 | 52 | 38 | |
| 4 | EHQ-106 | 1965 | 5 | 1409 | 16 | 157 | 20 | 5037 | 8 | 3501 | 9 | - | - | - | - | - | - | - | - | - | - | 13 | - | - | 43 | 33 | |
| 5 | EHQ-107 | 1809 | 13 | 509 | 21 | 659 | 14 | 3301 | 21 | 2555 | 21 | - | - | - | - | - | - | - | - | - | - | 4 | - | 33 | - | - | |
| 6 | EHQ-108 | 1949 | 6 | 1420 | 14 | 970 | 8 | 3330 | 20 | 2640 | 17 | - | - | - | - | - | - | - | 15 | - | - | 12 | - | 96 | - | 0 | |
| 7 | EHQ-109 | 1888 | 11 | 1563 | 13 | 522 | 16 | 4487 | 12 | 3187 | 12 | - | - | - | - | - | - | - | - | - | - | 9 | - | 6 | 27 | 21 | |
| 8 | EHQ-110 | 1715 | 19 | 1957 | 9 | 851 | 10 | 8009 | 1 | 4862 | 4 | - | - | - | 3 | - | - | - | 1 | 7 | - | - | - | 72 | 127 | 85 | |
| 9 | EHQ-111 | 1770 | 15 | 1340 | 17 | 740 | 12 | 4053 | 15 | 2912 | 15 | - | - | - | - | - | - | - | - | - | - | 2 | - | 50 | 15 | 11 | |
| 10 | EHQ-112 | 1851 | 12 | 1329 | 18 | 226 | 19 | 4961 | 9 | 3406 | 10 | - | - | - | - | - | - | - | - | - | - | 7 | - | - | 41 | 29 | |
| 11 | EHQ-112 | 1723 | 18 | 729 | 20 | 1245 | 4 | 3975 | 16 | 2849 | 16 | - | - | - | - | - | - | - | 47 | - | - | - | - | 152 | 13 | 8 | |
| 12 | EHQ-113 | 1745 | 16 | 2580 | 5 | 1074 | 6 | 5397 | 6 | 3571 | 8 | - | - | - | - | - | - | - | 27 | - | - | 1 | - | 117 | 53 | 36 | |
| 13 | EHQ-114 | 1938 | 7 | 2057 | 6 | 1010 | 7 | 4146 | 14 | 3042 | 14 | - | - | - | - | - | - | - | 20 | - | - | 12 | - | 104 | 18 | 16 | |
| 14 | EHQ-115 | 1927 | 8 | 1933 | 10 | 355 | 18 | 7966 | 2 | 4947 | 2 | - | - | - | 3 | 2 | - | - | - | 7 | - | 11 | - | - | 126 | 88 | |
| 15 | EHQ-116 | 1702 | 20 | 793 | 19 | - | - | 3501 | 19 | 2601 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 16 | EHQ-117 | 2444 | 2 | 1999 | 8 | 872 | 9 | 4882 | 10 | 3663 | 6 | 22 | - | - | - | - | - | - | 3 | - | - | 41 | - | 77 | 38 | 39 | |
| CHECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Pratap QPM Hybrid-1 | 1998 | 4 | 3635 | 3 | 1367 | 2 | 7748 | 3 | 4873 | 3 | - | - | - | - | - | - | - | 62 | 4 | - | 15 | 38 | 177 | 120 | 85 | |
| 18 | HQPM-1 | 2575 | 1 | 3949 | 2 | 845 | 11 | 7459 | 4 | 5017 | 1 | 29 | 9 | - | - | 3 | - | - | - | - | - | 48 | 50 | 71 | 111 | 91 | |
| 19 | HQPM-5 | 1735 | 17 | 2636 | 4 | 494 | 17 | 3528 | 18 | 2632 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20 | HQPM-7 | 2039 | 3 | 4162 | 1 | 1078 | 5 | 5995 | 5 | 4017 | 5 | 2 | 14 | - | - | - | - | - | 5 | 28 | - | 18 | 58 | 118 | 70 | 53 | |
| 21 | Vivek QPM-9 | 1793 | 14 | 1608 | 12 | 620 | 15 | 4728 | 11 | 3260 | 11 | - | - | - | - | - | - | - | - | - | - | 3 | - | 25 | 34 | 24 | |
| Location Mean | | 1906 | | 1940 | | 840 | | 5044 | | 3475 | | | | | | | | | | | | | | | | | |
| C.D. (5%) | | 215 | | 901 | | 736 | | 801 | | 508 | | | | | | | | | | | | | | | | | |
| C.V. (%) | | 6.84 | | 28.13 | | 52.96 | | 9.62 | | - | | | | | | | | | | | | | | | | | |
| F (Prob) | | 0 | | 0 | | 0.018 | | 0 | | | | | | | | | | | | | | | | | | | |
| Plot Size | | 4.8 | | 6 | | 4.8 | | 4.8 | | - | | | | | | | | | | | | | | | | | |
| AGRONOMY DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sowing Date | | 6-07 | | 11-07 | | 31-07 | | 2-07 | | - | | | | | | | | | | | | | | | | | |
| Harvest Date | | 7-10 | | 13-11 | | 30-10 | | 20-10 | | - | | | | | | | | | | | | | | | | | |
| Irrigation Nos | | - | | - | | - | | 2 | | - | | | | | | | | | | | | | | | | | |
| Fertilizer Applied N | | 150 | | 120 | | 100 | | 120 | | - | | | | | | | | | | | | | | | | | |
| Fertilizer Applied P | | 80 | | 60 | | 50 | | 90 | | - | | | | | | | | | | | | | | | | | |
| Fertilizer Applied K | | - | | 40 | | - | | - | | - | | | | | | | | | | | | | | | | | |

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI 28.1 %: GODH 53.0 %

Table No.37 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | | | | | DAYS TO 50% SILKING | | | | | DAYS TO 75% DRY HUSK | | | | | MOISTURE % AT HARVEST | | | | |
|------------------|---------------------|-------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|
| | | BANS | CHHI | GODH | UDAI | Mean | BANS | CHHI | GODH | UDAI | Mean | BANS | CHHI | GODH | UDAI | Mean | BANS | CHHI | GODH | UDAI | Mean |
| 1 | EHQ-103 | 47.0 | 58.3 | 50.0 | 52.7 | 52.0 | 50.0 | 60.0 | 52.0 | 54.7 | 54.2 | 77.3 | 94.7 | 79.5 | 96.3 | 87.0 | 15.5 | 13.9 | 16.2 | 17.9 | 15.9 |
| 2 | EHQ-104 | 46.0 | 55.0 | 49.7 | 51.3 | 50.5 | 49.0 | 56.7 | 52.7 | 53.3 | 52.9 | 74.3 | 95.7 | 80.0 | 92.3 | 85.6 | 16.2 | 14.2 | 16.6 | 16.9 | 16.0 |
| 3 | EHQ-105 | 43.3 | 57.7 | 52.3 | 52.0 | 51.3 | 46.3 | 59.7 | 54.3 | 54.0 | 53.6 | 74.3 | 95.7 | 81.7 | 93.0 | 86.2 | 15.4 | 13.4 | 16.0 | 20.1 | 16.2 |
| 4 | EHQ-106 | 45.7 | 59.0 | 53.7 | 51.3 | 52.4 | 48.3 | 59.0 | 55.7 | 53.3 | 54.1 | 75.3 | 97.3 | 85.0 | 93.3 | 87.8 | 16.0 | 12.7 | 16.2 | 18.5 | 15.8 |
| 5 | EHQ-107 | 46.0 | 61.3 | 61.0 | 58.7 | 56.8 | 49.0 | 62.3 | 67.0 | 60.7 | 59.8 | 77.7 | 100.7 | 81.0 | 94.7 | 88.5 | 15.9 | 4.5 | - | 17.3 | 12.5 |
| 6 | EHQ-108 | 44.3 | 57.3 | 50.7 | 51.7 | 51.0 | 47.3 | 58.7 | 52.7 | 53.7 | 53.1 | 73.0 | 95.7 | 81.7 | 94.7 | 86.2 | 16.0 | 14.8 | 18.2 | 17.2 | 16.6 |
| 7 | EHQ-109 | 43.0 | 56.7 | 47.0 | 51.7 | 49.6 | 46.0 | 58.3 | 50.0 | 54.0 | 52.1 | 74.0 | 91.3 | 77.3 | 94.3 | 84.3 | 15.6 | 12.2 | 16.5 | 20.8 | 16.3 |
| 8 | EHQ-110 | 44.7 | 55.3 | 48.0 | 57.7 | 51.4 | 47.7 | 57.0 | 50.7 | 59.3 | 53.7 | 72.7 | 95.3 | 77.7 | 95.7 | 85.3 | 15.9 | 12.7 | 16.7 | 21.1 | 16.6 |
| 9 | EHQ-111 | 44.3 | 56.7 | 51.7 | 52.3 | 51.3 | 47.3 | 57.7 | 53.7 | 54.0 | 53.2 | 73.0 | 96.3 | 80.0 | 93.7 | 85.8 | 15.5 | 14.7 | 15.4 | 19.4 | 16.2 |
| 10 | EHQ-112 | 46.0 | 57.7 | 51.0 | 51.7 | 51.6 | 48.3 | 59.7 | 53.3 | 54.0 | 53.8 | 76.3 | 99.7 | 81.0 | 93.7 | 87.7 | 15.8 | 12.6 | 17.1 | 19.4 | 16.2 |
| 11 | EHQ-112 | 46.3 | 59.7 | 51.7 | 53.0 | 52.7 | 49.3 | 61.0 | 56.0 | 55.0 | 55.3 | 75.3 | 93.3 | 80.7 | 90.3 | 84.9 | 15.7 | 13.0 | 18.2 | 19.2 | 16.5 |
| 12 | EHQ-113 | 44.0 | 58.0 | 53.0 | 51.7 | 51.7 | 47.0 | 59.0 | 54.7 | 53.3 | 53.5 | 75.7 | 96.3 | 80.7 | 92.3 | 86.3 | 16.0 | 12.6 | 16.7 | 18.6 | 16.0 |
| 13 | EHQ-114 | 42.7 | 56.7 | 52.7 | 52.0 | 51.0 | 45.7 | 57.3 | 55.3 | 54.3 | 53.2 | 73.7 | 96.7 | 84.3 | 93.7 | 87.1 | 16.0 | 14.3 | 16.8 | 19.6 | 16.7 |
| 14 | EHQ-115 | 46.0 | 55.3 | 48.7 | 51.3 | 50.3 | 49.0 | 56.3 | 51.0 | 53.7 | 52.5 | 76.3 | 90.7 | 82.7 | 93.3 | 85.8 | 15.5 | 13.6 | 16.2 | 16.1 | 15.4 |
| 15 | EHQ-116 | 45.7 | 61.0 | 54.0 | 55.3 | 54.0 | 48.7 | 62.3 | 56.5 | 56.7 | 56.0 | 74.7 | 99.3 | 87.0 | 95.3 | 89.1 | 15.6 | 15.5 | - | 19.9 | 17.0 |
| 16 | EHQ-117 | 43.7 | 57.0 | 52.7 | 51.3 | 51.2 | 46.7 | 58.0 | 54.7 | 54.0 | 53.3 | 72.3 | 96.0 | 88.0 | 94.7 | 87.8 | 15.8 | 13.6 | 18.2 | 19.1 | 16.7 |
| CHECKS | | | | | | | | | | | | | | | | | | | | | |
| 17 | Pratap QPM Hybrid-1 | 46.0 | 64.0 | 57.0 | 55.7 | 55.7 | 49.0 | 65.7 | 58.7 | 57.3 | 57.7 | 75.7 | 102.7 | 84.0 | 94.3 | 89.2 | 16.4 | 16.5 | 16.4 | 17.8 | 16.8 |
| 18 | HQPM-1 | 43.3 | 64.0 | 59.7 | 57.0 | 56.0 | 46.3 | 65.3 | 63.0 | 58.7 | 58.3 | 73.7 | 103.0 | 80.7 | 96.3 | 88.4 | 16.0 | 19.3 | 16.2 | 24.4 | 19.0 |
| 19 | HQPM-5 | 46.3 | 63.3 | 53.5 | 57.7 | 55.2 | 49.3 | 65.0 | 55.5 | 60.0 | 57.5 | 77.0 | 102.3 | 80.5 | 91.3 | 87.8 | 15.3 | 18.5 | 17.2 | 18.9 | 17.5 |
| 20 | HQPM-7 | 47.7 | 64.7 | 57.7 | 57.7 | 56.9 | 49.0 | 66.3 | 59.0 | 59.0 | 58.3 | 76.3 | 102.7 | 82.7 | 95.7 | 89.3 | 16.0 | 17.9 | 16.2 | 20.8 | 17.7 |
| 21 | Vivek QPM-9 | 45.0 | 54.7 | 50.0 | 51.3 | 50.3 | 48.0 | 56.3 | 52.0 | 53.3 | 52.4 | 73.7 | 95.0 | 79.3 | 89.7 | 84.4 | 16.5 | 12.4 | 15.8 | 15.1 | 14.9 |
| Loc. Mean | | 45.1 | 58.7 | 52.6 | 53.6 | 52.5 | 48.0 | 60.1 | 55.2 | 55.5 | 54.7 | 74.9 | 97.2 | 81.7 | 93.7 | 86.9 | 15.8 | 13.9 | 16.7 | 18.9 | 16.3 |
| C.D. (5%) | | 1.56 | 1.44 | 5.69 | 1.70 | 2.79 | 1.39 | 1.17 | 5.91 | 1.73 | 3.07 | 1.59 | 1.29 | 6.01 | 1.06 | 3.32 | 0.44 | 1.46 | 1.18 | 0.42 | 2.39 |
| C.V. (%) | | 2.10 | 1.49 | 6.55 | 1.93 | 3.75 | 1.76 | 1.18 | 6.49 | 1.88 | 3.97 | 1.28 | 0.80 | 4.46 | 0.69 | 2.70 | 1.68 | 6.33 | 4.06 | 1.36 | 10.36 |
| 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 | 0.08 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |

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Table No.37 (Cont..)

| S.No. | PEDIGREE | GRAIN SHELLING % | | | | | STAND AT HARVEST ('000/ha) | | | | | PLANT HEIGHT(cm) | | | | EAR HEIGHT(cm) | | | |
|------------------|---------------------|------------------|-------------|-------------|-------------|-------------|----------------------------|-------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|----------------|-------------|-------------|-------------|
| | | BANS | CHHI | GODH | UDAI | Mean | BANS | CHHI | GODH | UDAI | Mean | CHHI | GODH | UDAI | Mean | CHHI | GODH | UDAI | Mean |
| 1 | EHQ-103 | 65.3 | 87.9 | 78.1 | 80.4 | 77.9 | 47.9 | 36.7 | 20.8 | 58.3 | 53.1 | 116.7 | 152.5 | 178.3 | 149.2 | 51.7 | 52.5 | 95.0 | 73.3 |
| 2 | EHQ-104 | 64.7 | 86.7 | 76.7 | 80.8 | 77.2 | 47.2 | 49.4 | 30.6 | 55.6 | 51.4 | 123.3 | 142.7 | 140.0 | 135.3 | 53.3 | 41.7 | 71.7 | 62.5 |
| 3 | EHQ-105 | 64.6 | 82.0 | 74.2 | 80.6 | 75.3 | 54.9 | 38.9 | 18.8 | 57.6 | 56.3 | 130.0 | 148.3 | 168.3 | 148.9 | 51.7 | 50.3 | 80.0 | 65.8 |
| 4 | EHQ-106 | 63.6 | 82.1 | - | 80.8 | 75.5 | 52.8 | 26.7 | 17.4 | 54.2 | 53.5 | 141.7 | 150.7 | 178.3 | 156.9 | 61.7 | 50.7 | 86.7 | 74.2 |
| 5 | EHQ-107 | 65.9 | 75.9 | - | 78.6 | 73.4 | 49.3 | 13.9 | 8.3 | 34.7 | 42.0 | 103.3 | 147.5 | 115.0 | 121.9 | 40.0 | 49.0 | 46.7 | 43.3 |
| 6 | EHQ-108 | 63.4 | 87.4 | 75.0 | 80.6 | 76.6 | 52.1 | 32.2 | 38.9 | 45.1 | 48.6 | 125.0 | 138.0 | 176.7 | 146.6 | 58.3 | 41.7 | 86.7 | 72.5 |
| 7 | EHQ-109 | 63.2 | 83.7 | 65.0 | 80.5 | 73.1 | 50.7 | 44.4 | 32.6 | 61.1 | 55.9 | 118.3 | 148.7 | 146.7 | 137.9 | 50.0 | 49.0 | 60.0 | 55.0 |
| 8 | EHQ-110 | 61.6 | 81.7 | 73.9 | 81.2 | 74.6 | 52.1 | 42.2 | 29.9 | 63.2 | 57.6 | 133.3 | 149.7 | 171.7 | 151.6 | 55.0 | 52.3 | 78.3 | 66.7 |
| 9 | EHQ-111 | 65.8 | 87.4 | 66.9 | 79.9 | 75.0 | 49.3 | 36.1 | 27.8 | 67.4 | 58.3 | 133.3 | 141.7 | 163.3 | 146.1 | 65.0 | 42.3 | 73.3 | 69.2 |
| 10 | EHQ-112 | 64.8 | 89.5 | 76.5 | 80.1 | 77.7 | 47.2 | 25.6 | 9.0 | 52.8 | 50.0 | 123.3 | 133.7 | 168.3 | 141.8 | 56.7 | 58.3 | 85.0 | 70.8 |
| 11 | EHQ-112 | 64.2 | 85.8 | 69.4 | 80.8 | 75.0 | 52.1 | 26.7 | 27.1 | 50.0 | 51.0 | 103.3 | 143.3 | 185.0 | 143.9 | 46.7 | 43.3 | 93.3 | 70.0 |
| 12 | EHQ-113 | 65.2 | 81.4 | 71.6 | 80.7 | 74.7 | 49.3 | 45.6 | 28.5 | 59.0 | 54.2 | 131.7 | 144.0 | 171.7 | 149.1 | 46.7 | 48.3 | 81.7 | 64.2 |
| 13 | EHQ-114 | 63.8 | 84.9 | 75.6 | 79.8 | 76.0 | 54.9 | 40.0 | 34.0 | 43.1 | 49.0 | 121.7 | 144.0 | 171.7 | 145.8 | 56.7 | 40.3 | 75.0 | 65.8 |
| 14 | EHQ-115 | 66.0 | 87.7 | 58.8 | 79.8 | 73.1 | 47.2 | 43.3 | 25.0 | 62.5 | 54.9 | 101.7 | 134.0 | 141.7 | 125.8 | 40.0 | 35.0 | 68.3 | 54.2 |
| 15 | EHQ-116 | 66.8 | 80.7 | - | 80.8 | 76.1 | 47.9 | 13.3 | 6.3 | 56.3 | 52.1 | 110.0 | 142.0 | 171.7 | 141.2 | 48.3 | 42.0 | 71.7 | 60.0 |
| 16 | EHQ-117 | 66.3 | 85.3 | 67.5 | 80.2 | 74.8 | 52.1 | 35.6 | 17.4 | 61.1 | 56.6 | 136.7 | 137.3 | 183.3 | 152.4 | 55.0 | 44.3 | 80.0 | 67.5 |
| CHECKS | | | | | | | | | | | | | | | | | | | |
| 17 | Pratap QPM Hybrid-1 | 64.9 | 82.1 | 69.2 | 81.5 | 74.4 | 49.3 | 52.8 | 23.6 | 61.1 | 55.2 | 130.0 | 141.7 | 185.0 | 152.2 | 46.7 | 37.3 | 75.0 | 60.8 |
| 18 | HQPM-1 | 68.7 | 82.0 | 71.0 | 81.5 | 75.8 | 55.6 | 54.4 | 28.5 | 56.3 | 55.9 | 126.7 | 135.7 | 160.0 | 140.8 | 48.3 | 39.3 | 73.3 | 60.8 |
| 19 | HQPM-5 | 60.7 | 80.0 | 70.6 | 79.9 | 72.8 | 45.8 | 27.8 | 12.5 | 54.2 | 50.0 | 140.0 | 155.0 | 155.0 | 150.0 | 61.7 | 55.5 | 75.0 | 68.3 |
| 20 | HQPM-7 | 64.8 | 81.4 | 75.0 | 80.1 | 75.3 | 47.9 | 41.7 | 19.4 | 54.9 | 51.4 | 138.3 | 143.0 | 181.7 | 154.3 | 55.0 | 45.0 | 76.7 | 65.8 |
| 21 | Vivek QPM-9 | 63.9 | 75.9 | 70.0 | 80.6 | 72.6 | 51.4 | 47.8 | 13.9 | 48.6 | 50.0 | 120.0 | 142.3 | 170.0 | 144.1 | 50.0 | 55.7 | 81.7 | 65.8 |
| Loc. Mean | | 64.7 | 83.4 | 71.4 | 80.4 | 75.1 | 50.3 | 36.9 | 22.4 | 55.1 | 52.7 | 124.2 | 143.6 | 165.9 | 144.6 | 52.3 | 46.4 | 76.9 | 64.6 |
| C.D. (5%) | | 1.57 | 1.82 | 7.77 | 0.49 | 4.48 | 3.75 | 12.49 | 21.99 | 9.74 | 12.55 | 16.87 | 15.50 | 29.67 | 18.85 | 12.23 | 16.35 | 15.09 | 15.05 |
| C.V. (%) | | 1.47 | 1.32 | 6.08 | 0.37 | 4.21 | 4.52 | 20.51 | 59.52 | 10.71 | 11.42 | 8.23 | 6.54 | 10.84 | 7.90 | 14.17 | 21.36 | 11.89 | 11.17 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.00 | 0.00 | 0.18 | 0.00 | 0.68 | 0.00 | 0.32 | 0.00 | 0.06 | 0.01 | 0.25 | 0.00 | 0.06 |

Locations Rejected due to High C.V.(i.e.> 20%) : GODHRA 59.5%

TABLE No.38
PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN IVT TRIAL No. 62 DURING KHARIF (2012)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER THE | | | | |
|----------|--------------|------------------------|----|------------------------------------|------|------|-------|-------|
| | | 15% MOISTURE | | BIO 9637 | HM 8 | HM 9 | HM 10 | PMH 4 |
| | | SRIN | R | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | Meghan-G | 6745 | 4 | 18 | 19 | 21 | 13 | - |
| 2 | FMH-603 | 6354 | 9 | 11 | 12 | 14 | 6 | - |
| 3 | Rasi-3033 | 5868 | 31 | 3 | 4 | 5 | - | - |
| 4 | Rasi-588 | 5362 | 67 | - | - | - | - | - |
| 5 | AMH-455 | 6030 | 19 | 6 | 7 | 8 | 1 | - |
| 6 | NMH-1281 | 6497 | 5 | 14 | 15 | 16 | 9 | - |
| 7 | NMH-1276 | 6030 | 20 | 6 | 7 | 8 | 1 | - |
| 8 | Bisco X 2711 | 5492 | 61 | - | - | - | - | - |
| 9 | NMH 1588 | 5600 | 51 | - | - | 0 | - | - |
| 10 | TI8334 | 5470 | 63 | - | - | - | - | - |
| 11 | IJ8533 | 5953 | 24 | 4 | 5 | 6 | - | - |
| 12 | DKC9108 | 5729 | 40 | 0 | 1 | 2 | - | - |
| 13 | VAMH 08014 | 5972 | 22 | 5 | 6 | 7 | 0 | - |
| 14 | JKMH 4511 | 5511 | 56 | - | - | - | - | - |
| 15 | S6850 | 5950 | 26 | 4 | 5 | 6 | - | - |
| 16 | S6790 | 6477 | 7 | 13 | 15 | 16 | 9 | - |
| 17 | BH-411036 | 5951 | 25 | 4 | 5 | 6 | - | - |
| 18 | KH-7647 | 5266 | 71 | - | - | - | - | - |
| 19 | KMH-25K45 | 5153 | 74 | - | - | - | - | - |
| 20 | KMH-7148 | 5450 | 65 | - | - | - | - | - |
| 21 | KMH-3110 | 6067 | 18 | 6 | 7 | 8 | 2 | - |
| 22 | KMH-6681 | 5665 | 44 | - | 0 | 1 | - | - |
| 23 | QMH-2966 | 6337 | 10 | 11 | 12 | 13 | 6 | - |
| 24 | EHL 111 | 5197 | 73 | - | - | - | - | - |
| 25 | EHL 2211 | 5555 | 54 | - | - | - | - | - |
| 26 | EHL 2311 | 5266 | 70 | - | - | - | - | - |

BR290

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER THE | | | | |
|----------|--------------------|------------------------|----|------------------------------------|------|------|-------|-------|
| | | 15% MOISTURE | | BIO 9637 | HM 8 | HM 9 | HM 10 | PMH 4 |
| | | SRIN | R | SRIN | SRIN | SRIN | SRIN | SRIN |
| 27 | NMH-1277 | 5790 | 36 | 1 | 2 | 3 | - | - |
| 28 | DAS MH-302 | 5024 | 75 | - | - | - | - | - |
| 29 | PRO 387 | 5197 | 72 | - | - | - | - | - |
| 30 | BIO 719 | 5435 | 66 | - | - | - | - | - |
| 31 | DAS MH-303 | 5358 | 68 | - | - | - | - | - |
| 32 | X35B403 | 6324 | 11 | 11 | 12 | 13 | 6 | - |
| 33 | CMH 10-529 | 5661 | 45 | - | 0 | 1 | - | - |
| 34 | BAUMH-2011-04 | 6276 | 12 | 10 | 11 | 12 | 5 | - |
| 35 | BAUMH-2011-13 | 5778 | 37 | 1 | 2 | 3 | - | - |
| 36 | LTH-21 | 5883 | 30 | 3 | 4 | 5 | - | - |
| 37 | CMH 10-473 | 6230 | 13 | 9 | 10 | 11 | 4 | - |
| 38 | X35B410 | 5467 | 64 | - | - | - | - | - |
| 39 | REH 2011-03 | 5503 | 58 | - | - | - | - | - |
| 40 | EC-3164 | 5854 | 33 | 3 | 4 | 5 | - | - |
| 41 | CMH 10-485 | 6072 | 17 | 6 | 7 | 8 | 2 | - |
| 42 | DH-12-01 | 5906 | 27 | 3 | 4 | 6 | - | - |
| 43 | CMH 10-486 | 6480 | 6 | 14 | 15 | 16 | 9 | - |
| 44 | REH 2011-4 | 5861 | 32 | 3 | 4 | 5 | - | - |
| 45 | AH 1209 | 5819 | 35 | 2 | 3 | 4 | - | - |
| 46 | AH 1210 | 5671 | 43 | - | 0 | 1 | - | - |
| 47 | JH 31583 | 5636 | 47 | - | - | 1 | - | - |
| 48 | JH 31598 | 5611 | 50 | - | - | 0 | - | - |
| 49 | JH 31599 | 5493 | 60 | - | - | - | - | - |
| 50 | HKH 334 | 6957 | 2 | 22 | 23 | 24 | 17 | - |
| 51 | HKH 335 | 6805 | 3 | 19 | 20 | 22 | 14 | - |
| 52 | HKH 336 | 6081 | 16 | 7 | 8 | 9 | 2 | - |
| 53 | Bio 9637 (Filler) | 5749 | 38 | 1 | 2 | 3 | - | - |
| 54 | HM-4 (Filler) | 5899 | 29 | 3 | 4 | 5 | - | - |
| 55 | Synthetics-1 | 5906 | 28 | 3 | 4 | 6 | - | - |

| SI No | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER THE | | | | |
|----------------------|------------------------|----|------------------------------------|------|----------------|-------|-------|
| | 15% MOISTURE | | BIO 9637 | HM 8 | HM 9 | HM 10 | PMH 4 |
| | SRIN | R | SRIN | SRIN | SRIN | SRIN | SRIN |
| 56 MMH 12-4 | 5852 | 34 | 3 | 3 | 5 | - | - |
| 57 MMH 12-5 | 5502 | 59 | - | - | - | - | - |
| 58 MMH 12-6 | 5616 | 49 | - | - | 0 | - | - |
| 59 MMH 12-7 | 5505 | 57 | - | - | - | - | - |
| 60 MMH 12-8 | 6012 | 21 | 5 | 6 | 7 | 1 | - |
| 61 VARANASI H12-1 | 5689 | 42 | - | 1 | 2 | - | - |
| 62 DHM 117 | 6358 | 8 | 11 | 12 | 14 | 7 | - |
| 63 QMH-2910 | 5567 | 53 | - | - | - | - | - |
| 64 BH-411001 | 5335 | 69 | - | - | - | - | - |
| 65 Safal X-260 | 5551 | 55 | - | - | - | - | - |
| 66 KNMH 4201 | 6219 | 14 | 9 | 10 | 11 | 4 | - |
| 67 KNMH 4202 | 6095 | 15 | 7 | 8 | 9 | 2 | - |
| 68 KNMH 4203 | 5745 | 39 | 1 | 2 | 3 | - | - |
| 69 KNMH 4204 | 5616 | 48 | - | - | 0 | - | - |
| 70 KNMH 4205 | 5474 | 62 | - | - | - | - | - |
| CHECKS | | | | | | | |
| 71 BIO 9637 | 5708 | 41 | - | 1 | 2 | - | - |
| 72 HM 8 | 5655 | 46 | - | - | 1 | - | - |
| 73 HM 9 | 5596 | 52 | - | - | - | - | - |
| 74 HM 10 | 5967 | 23 | 5 | 6 | 7 | - | - |
| 75 PMH 4 | 7053 | 1 | 24 | 25 | 26 | 18 | - |
| Location Mean | 5824 | | AGRONOMY DATA | | Sowing Date | 15-04 | |
| C.D. (5%) | 556 | | | | Harvest Date | 4-10 | |
| C.V. (%) | 5.92 | | | | Irrigation Nos | 3 | |
| F (Prob) | 0 | | Fertilizer Applied N P K | | 90 | 60 | 40 |
| Plot Size | 4.8 | | | | | | |

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Table No.38 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|-------|--------------|-------------|-------------|-------------|------------|------------|-------------------------------|------------|------------|
| | | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST | HEIGHT(cm) | HEIGHT(cm) |
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN (⁰⁰⁰ /ha) | SRIN | SRIN |
| 1 | Meghan-G | 90.3 | 93.0 | 132.7 | 15.5 | 79.0 | 81.9 | 170.0 | 70.0 |
| 2 | FMH-603 | 87.0 | 90.0 | 134.3 | 15.5 | 78.0 | 81.3 | 135.0 | 48.3 |
| 3 | Rasi-3033 | 91.7 | 94.3 | 142.7 | 17.5 | 77.8 | 81.9 | 173.3 | 80.0 |
| 4 | Rasi-588 | 93.3 | 96.3 | 144.0 | 17.5 | 77.3 | 83.3 | 129.7 | 63.3 |
| 5 | AMH-455 | 87.3 | 90.3 | 135.0 | 15.5 | 78.0 | 81.9 | 150.0 | 50.0 |
| 6 | NMH-1281 | 91.7 | 94.3 | 145.0 | 18.5 | 77.8 | 81.9 | 185.0 | 80.0 |
| 7 | NMH-1276 | 91.0 | 94.0 | 134.0 | 15.5 | 78.0 | 81.3 | 160.0 | 70.0 |
| 8 | Bisco X 2711 | 92.7 | 95.7 | 141.3 | 17.5 | 77.3 | 81.9 | 188.3 | 88.3 |
| 9 | NMH 1588 | 92.7 | 95.7 | 142.7 | 17.5 | 77.5 | 81.9 | 180.0 | 90.0 |
| 10 | TI8334 | 93.7 | 96.3 | 145.3 | 19.0 | 78.0 | 81.9 | 190.0 | 101.7 |
| 11 | IJ8533 | 92.3 | 95.3 | 142.3 | 17.5 | 77.5 | 83.3 | 206.7 | 90.0 |
| 12 | DKC9108 | 86.0 | 88.7 | 136.0 | 16.0 | 78.0 | 83.3 | 160.0 | 70.0 |
| 13 | VAMH 08014 | 92.7 | 95.3 | 142.3 | 18.5 | 78.0 | 82.6 | 188.3 | 88.3 |
| 14 | JKMH 4511 | 93.3 | 96.3 | 140.7 | 17.5 | 79.0 | 83.3 | 156.7 | 65.0 |
| 15 | S6850 | 95.7 | 98.7 | 107.3 | 18.5 | 78.8 | 82.6 | 170.0 | 80.0 |
| 16 | S6790 | 96.0 | 99.0 | 141.3 | 19.0 | 78.0 | 81.9 | 150.0 | 68.3 |
| 17 | BH-411036 | 95.3 | 97.7 | 142.3 | 18.5 | 78.8 | 82.6 | 178.3 | 88.3 |
| 18 | KH-7647 | 90.3 | 93.3 | 140.7 | 17.5 | 77.8 | 81.9 | 146.7 | 80.0 |
| 19 | KMH-25K45 | 90.3 | 93.3 | 140.7 | 17.5 | 77.3 | 82.6 | 180.0 | 80.0 |
| 20 | KMH-7148 | 90.0 | 93.0 | 141.7 | 17.5 | 77.8 | 81.9 | 188.3 | 70.0 |
| 21 | KMH-3110 | 94.0 | 96.7 | 142.3 | 19.0 | 76.8 | 82.6 | 180.0 | 90.0 |
| 22 | KMH-6681 | 87.0 | 90.0 | 140.0 | 16.5 | 77.3 | 83.3 | 173.3 | 70.0 |
| 23 | QMH-2966 | 94.7 | 97.7 | 141.0 | 18.0 | 77.3 | 82.6 | 180.0 | 93.3 |
| 24 | EHL 111 | 90.7 | 93.7 | 138.0 | 15.5 | 78.0 | 82.6 | 170.0 | 76.7 |
| 25 | EHL 2211 | 93.0 | 96.0 | 141.7 | 19.0 | 77.8 | 82.6 | 185.0 | 80.0 |
| 26 | EHL 2311 | 87.7 | 90.3 | 137.7 | 15.5 | 78.3 | 83.3 | 155.0 | 71.7 |
| 27 | NMH-1277 | 90.0 | 93.0 | 136.0 | 17.5 | 77.8 | 81.3 | 168.3 | 90.0 |

| S.No. | PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|-------|--------------------|-------------|-------------|-------------|------------|------------|-------------------------------|------------|------------|
| | | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST | HEIGHT(cm) | HEIGHT(cm) |
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN (⁰⁰⁰ /ha) | SRIN | SRIN |
| 28 | DAS MH-302 | 93.7 | 96.7 | 139.3 | 17.5 | 77.3 | 83.3 | 161.7 | 80.0 |
| 29 | PRO 387 | 93.0 | 96.0 | 142.0 | 18.5 | 79.3 | 81.9 | 155.0 | 73.3 |
| 30 | BIO 719 | 95.3 | 98.0 | 144.0 | 19.0 | 78.3 | 83.3 | 165.0 | 80.0 |
| 31 | DAS MH-303 | 95.7 | 98.7 | 146.0 | 19.0 | 78.3 | 81.9 | 150.0 | 60.0 |
| 32 | X35B403 | 95.0 | 98.0 | 140.7 | 16.5 | 79.3 | 79.9 | 185.0 | 90.0 |
| 33 | CMH 10-529 | 93.7 | 96.7 | 143.0 | 17.5 | 78.5 | 83.3 | 155.0 | 70.0 |
| 34 | BAUMH-2011-04 | 87.0 | 90.0 | 139.3 | 16.5 | 79.3 | 81.9 | 128.3 | 63.3 |
| 35 | BAUMH-2011-13 | 91.7 | 94.7 | 139.7 | 17.5 | 78.5 | 83.3 | 135.0 | 58.3 |
| 36 | LTH-21 | 89.0 | 91.7 | 142.7 | 17.5 | 77.3 | 83.3 | 158.3 | 63.3 |
| 37 | CMH 10-473 | 94.3 | 97.0 | 144.3 | 19.0 | 78.5 | 81.9 | 161.7 | 80.0 |
| 38 | X35B410 | 92.3 | 95.3 | 143.0 | 17.5 | 78.8 | 82.6 | 183.3 | 83.3 |
| 39 | REH 2011-03 | 90.7 | 93.3 | 142.7 | 18.5 | 77.3 | 83.3 | 156.7 | 70.0 |
| 40 | EC-3164 | 87.0 | 90.0 | 140.3 | 15.0 | 78.8 | 83.3 | 185.0 | 75.0 |
| 41 | CMH 10-485 | 96.0 | 99.0 | 140.7 | 17.5 | 78.0 | 82.6 | 166.7 | 71.7 |
| 42 | DH-12-01 | 94.3 | 97.3 | 144.0 | 17.5 | 78.3 | 82.6 | 145.0 | 71.7 |
| 43 | CMH 10-486 | 95.7 | 98.3 | 145.3 | 19.0 | 77.8 | 81.9 | 145.0 | 68.3 |
| 44 | REH 2011-4 | 94.3 | 97.3 | 144.7 | 17.5 | 78.0 | 83.3 | 160.0 | 61.7 |
| 45 | AH 1209 | 92.0 | 95.0 | 139.3 | 17.0 | 78.0 | 81.9 | 150.0 | 80.0 |
| 46 | AH 1210 | 88.7 | 91.7 | 139.0 | 17.5 | 79.0 | 83.3 | 145.0 | 71.7 |
| 47 | JH 31583 | 90.7 | 93.7 | 142.0 | 18.5 | 78.8 | 82.6 | 166.7 | 73.3 |
| 48 | JH 31598 | 91.0 | 93.7 | 143.3 | 18.5 | 78.0 | 82.6 | 166.7 | 80.0 |
| 49 | JH 31599 | 91.3 | 94.3 | 144.3 | 18.5 | 77.5 | 82.6 | 161.7 | 76.7 |
| 50 | HKH 334 | 92.7 | 95.7 | 140.3 | 17.0 | 78.0 | 81.9 | 163.3 | 73.3 |
| 51 | HKH 335 | 91.3 | 94.3 | 139.0 | 17.0 | 79.0 | 81.9 | 158.3 | 73.3 |
| 52 | HKH 336 | 92.3 | 95.3 | 142.3 | 18.5 | 78.8 | 83.3 | 153.3 | 75.0 |
| 53 | Bio 9637 (Filler) | 94.3 | 97.3 | 143.0 | 17.0 | 77.8 | 80.6 | 168.3 | 78.3 |
| 54 | HM-4 (Filler) | 96.3 | 99.3 | 141.7 | 17.0 | 78.0 | 83.3 | 138.3 | 60.0 |
| 55 | Synthetics-1 | 96.0 | 98.0 | 142.0 | 17.5 | 78.3 | 82.6 | 163.3 | 75.0 |

BR294

| S.No. PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|-------------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|
| | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST | HEIGHT(cm) | HEIGHT(cm) |
| | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 56 MMH 12-4 | 92.3 | 95.3 | 139.0 | 17.0 | 77.8 | 81.9 | 163.3 | 80.0 |
| 57 MMH 12-5 | 92.0 | 95.0 | 140.0 | 17.0 | 78.0 | 82.6 | 175.0 | 90.0 |
| 58 MMH 12-6 | 95.7 | 98.3 | 143.3 | 18.5 | 77.8 | 81.9 | 178.3 | 95.0 |
| 59 MMH 12-7 | 96.3 | 99.3 | 145.0 | 18.5 | 78.0 | 82.6 | 156.7 | 78.3 |
| 60 MMH 12-8 | 96.0 | 99.0 | 145.0 | 19.0 | 78.0 | 82.6 | 176.7 | 93.3 |
| 61 VARANASI H12-1 | 97.0 | 100.0 | 145.3 | 19.5 | 79.0 | 83.3 | 185.0 | 96.7 |
| 62 DHM 117 | 97.0 | 99.7 | 145.7 | 20.5 | 78.0 | 83.3 | 180.0 | 86.7 |
| 63 QMH-2910 | 96.3 | 99.3 | 143.7 | 17.5 | 79.0 | 82.6 | 171.7 | 80.0 |
| 64 BH-411001 | 90.0 | 93.0 | 143.0 | 19.5 | 78.0 | 82.6 | 158.3 | 76.7 |
| 65 Safal X-260 | 86.0 | 88.7 | 144.0 | 19.5 | 77.8 | 83.3 | 165.0 | 73.3 |
| 66 KNMH 4201 | 86.0 | 89.0 | 139.7 | 15.5 | 78.0 | 82.6 | 181.7 | 83.3 |
| 67 KNMH 4202 | 88.3 | 91.3 | 142.7 | 19.0 | 77.8 | 83.3 | 198.3 | 95.0 |
| 68 KNMH 4203 | 94.7 | 97.7 | 146.0 | 19.5 | 78.0 | 83.3 | 191.7 | 90.0 |
| 69 KNMH 4204 | 98.3 | 101.0 | 146.0 | 20.0 | 78.5 | 83.3 | 185.0 | 95.0 |
| 70 KNMH 4205 | 98.3 | 101.3 | 146.7 | 20.5 | 78.0 | 82.6 | 165.0 | 75.0 |
| CHECKS | | | | | | | | |
| 71 BIO 9637 | 96.7 | 99.3 | 146.0 | 19.5 | 78.5 | 83.3 | 210.0 | 103.3 |
| 72 HM 8 | 96.3 | 99.3 | 145.3 | 18.5 | 79.0 | 81.9 | 160.0 | 80.0 |
| 73 HM 9 | 93.3 | 96.3 | 140.3 | 16.5 | 79.3 | 82.6 | 156.7 | 80.0 |
| 74 HM 10 | 92.0 | 95.0 | 139.7 | 17.5 | 78.0 | 83.3 | 170.0 | 80.0 |
| 75 PMH 4 | 86.0 | 88.3 | 137.3 | 16.0 | 78.8 | 82.6 | 160.0 | 71.7 |
| Loc. Mean | 92.5 | 95.3 | 141.2 | 17.8 | 78.1 | 82.6 | 166.9 | 77.8 |
| C.D. (5%) | 2.30 | 2.36 | 11.25 | 0.44 | 0.29 | 1.95 | 13.72 | 9.02 |
| C.V. (%) | 1.54 | 1.53 | 4.94 | 1.53 | 0.23 | 1.46 | 5.09 | 7.19 |
| F (Prob) | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 |

TABLE No. 39
PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN IVT TRIAL No. 63 DURING KHARIF (2012)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | GRAIN YIELD % SUPERIORITY OVER | |
|----------|---------------|--|----|--------------------------------|---------|
| | | ZN1 | | JH-3459 | Prakash |
| | | SRIN | R | SRIN | SRIN |
| 1 | GAWMH-2 | 7056 | 3 | 18 | 4 |
| 2 | GYH-9842 | 6589 | 7 | 10 | - |
| 3 | KMH-7021 | 5260 | 27 | - | - |
| 4 | FH 3605 | 6246 | 12 | 4 | - |
| 5 | FH 3609 | 5834 | 16 | - | - |
| 6 | FH 3626 | 6372 | 11 | 6 | - |
| 7 | EH-2223 | 5279 | 25 | - | - |
| 8 | EH-2212 | 6374 | 10 | 6 | - |
| 9 | REH 2011-1 | 5173 | 29 | - | - |
| 10 | Filler-13 | 5009 | 31 | - | - |
| 11 | CMH-10-537 | 5619 | 19 | - | - |
| 12 | CMH-10-484 | 5048 | 30 | - | - |
| 13 | REH 2011-2 | 4766 | 32 | - | - |
| 14 | CMH-10-527 | 5718 | 18 | - | - |
| 15 | CMH-10-531 | 5938 | 15 | - | - |
| 16 | Filler-12 | 6969 | 4 | 16 | 2 |
| 17 | BAUMH-2011-07 | 5553 | 21 | - | - |
| 18 | BAUMH-2011-05 | 5527 | 22 | - | - |
| 19 | BIO 6008 | 6521 | 8 | 9 | - |
| 20 | AH-1205 | 7368 | 1 | 23 | 8 |
| 21 | AH-1206 | 5268 | 26 | - | - |
| 22 | AH-1207 | 5242 | 28 | - | - |
| 23 | AH-1208 | 5289 | 24 | - | - |
| 24 | JH 31602 | 6803 | 6 | 14 | - |
| 25 | JH 31603 | 5362 | 23 | - | - |

BR296

| SI | No | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | GRAIN YIELD % SUPERIORITY OVER | |
|----|----------------------|--|----|--------------------------------|---------|
| | | SRIN | R | JH-3459 | Prakash |
| | | ZN1 | | | |
| | | PEDIGREE | | SRIN | SRIN |
| 26 | PRAKASH(Filler) | 7146 | 2 | 19 | 5 |
| 27 | JH 3459 (Filler) | 5975 | 14 | - | - |
| 28 | HKH 333 | 5617 | 20 | - | - |
| 29 | HKH 331 | 5829 | 17 | - | - |
| 30 | HKH 332 | 6405 | 9 | 7 | - |
| | CHECKS | | | | |
| 31 | JH-3459 | 5991 | 13 | - | - |
| 32 | Prakash | 6803 | 5 | 14 | - |
| | Location Mean | 5936 | | | |
| | C.D. (5%) | 1009 | | | |
| | C.V. (%) | 10.41 | | | |
| | F (Prob) | 0 | | | |
| | Plot Size | 4.8 | | | |
| | AGRONOMY DATA | | | | |
| | Sowing Date | 15-04 | | | |
| | Harvest Date | 3-10 | | | |
| | Irrigation Nos | 3 | | | |
| | Fertilizer Applied N | 90 | | | |
| | Fertilizer Applied P | 60 | | | |
| | Fertilizer Applied K | 40 | | | |

Table No.39 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|-------|------------------|-------------|-------------|--------------|-------------|-------------|------------------|--------------|-------------|
| | | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST('000/ha) | HEIGHT(cm) | HEIGHT(cm) |
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | GAWMH-2 | 74.0 | 77.0 | 129.0 | 16.5 | 79.3 | 83.3 | 203.3 | 105.0 |
| 2 | GYH-9842 | 75.0 | 78.0 | 124.0 | 15.5 | 78.3 | 83.3 | 166.7 | 83.3 |
| 3 | KMH-7021 | 73.3 | 76.3 | 121.7 | 15.5 | 77.0 | 82.6 | 150.0 | 71.7 |
| 4 | FH 3605 | 74.3 | 77.3 | 124.0 | 17.5 | 77.3 | 83.3 | 153.3 | 75.0 |
| 5 | FH 3609 | 76.0 | 79.0 | 126.0 | 17.5 | 78.0 | 83.3 | 176.7 | 76.7 |
| 6 | FH 3626 | 77.0 | 80.0 | 126.0 | 15.5 | 78.3 | 81.9 | 170.0 | 81.7 |
| 7 | EH-2223 | 75.3 | 78.3 | 128.7 | 18.5 | 77.0 | 82.6 | 181.7 | 95.0 |
| 8 | EH-2212 | 75.3 | 78.3 | 126.3 | 16.5 | 77.3 | 83.3 | 175.0 | 68.3 |
| 9 | REH 2011-1 | 78.3 | 81.3 | 130.3 | 18.5 | 77.8 | 80.6 | 193.3 | 105.0 |
| 10 | Filler-13 | 75.7 | 78.7 | 126.3 | 16.5 | 77.8 | 82.6 | 175.0 | 85.0 |
| 11 | CMH-10-537 | 76.0 | 79.0 | 130.0 | 16.5 | 77.8 | 83.3 | 166.7 | 78.3 |
| 12 | CMH-10-484 | 77.3 | 80.3 | 128.3 | 17.5 | 77.3 | 82.6 | 168.3 | 76.7 |
| 13 | REH 2011-2 | 78.7 | 81.7 | 131.0 | 17.5 | 77.8 | 82.6 | 180.0 | 95.0 |
| 14 | CMH-10-527 | 79.0 | 82.0 | 129.0 | 18.5 | 77.8 | 83.3 | 175.0 | 86.7 |
| 15 | CMH-10-531 | 77.7 | 80.7 | 133.7 | 16.5 | 77.8 | 82.6 | 178.3 | 88.3 |
| 16 | Filler-12 | 74.0 | 77.0 | 124.0 | 16.5 | 78.0 | 83.3 | 163.3 | 80.0 |
| 17 | BAUMH-2011-07 | 78.3 | 81.3 | 129.3 | 17.5 | 78.5 | 81.3 | 173.3 | 86.7 |
| 18 | BAUMH-2011-05 | 78.0 | 81.0 | 120.3 | 18.5 | 77.3 | 83.3 | 135.0 | 66.7 |
| 19 | BIO 6008 | 79.0 | 82.0 | 128.0 | 16.5 | 77.8 | 83.3 | 181.7 | 76.7 |
| 20 | AH-1205 | 74.7 | 77.7 | 125.7 | 16.5 | 78.0 | 82.6 | 161.7 | 70.0 |
| 21 | AH-1206 | 79.0 | 82.0 | 130.3 | 16.5 | 79.3 | 83.3 | 173.3 | 83.3 |
| 22 | AH-1207 | 76.7 | 79.7 | 129.0 | 16.5 | 79.3 | 80.6 | 165.0 | 76.7 |
| 23 | AH-1208 | 77.0 | 80.0 | 129.0 | 16.5 | 78.8 | 83.3 | 188.3 | 93.3 |
| 24 | JH 31602 | 78.3 | 81.3 | 126.3 | 16.5 | 78.3 | 82.6 | 168.3 | 86.7 |
| 25 | JH 31603 | 76.3 | 79.3 | 122.7 | 16.5 | 78.3 | 83.3 | 178.3 | 90.0 |
| 26 | PRAKASH(Filler) | 76.0 | 79.0 | 124.7 | 15.5 | 78.8 | 81.9 | 160.0 | 80.0 |
| 27 | JH 3459 (Filler) | 79.0 | 82.0 | 125.0 | 18.0 | 78.3 | 81.9 | 195.0 | 93.3 |
| 28 | HKH 333 | 79.3 | 82.3 | 129.3 | 18.0 | 78.0 | 82.6 | 173.3 | 95.0 |
| 29 | HKH 331 | 81.0 | 84.0 | 130.0 | 17.5 | 77.3 | 81.9 | 168.3 | 80.0 |
| 30 | HKH 332 | 79.3 | 82.3 | 128.7 | 17.5 | 78.3 | 83.3 | 175.0 | 100.0 |
| | CHECKS | | | | | | | | |
| 31 | JH-3459 | 80.3 | 83.3 | 125.7 | 17.5 | 78.0 | 81.9 | 175.0 | 95.0 |
| 32 | Prakash | 78.0 | 81.0 | 123.3 | 16.5 | 78.3 | 82.6 | 190.0 | 100.0 |
| | Loc. Mean | 77.1 | 80.1 | 127.1 | 17.0 | 78.0 | 82.7 | 173.1 | 85.2 |
| | C.D. (5%) | 2.85 | 2.85 | 5.28 | 0.20 | 0.19 | 1.77 | 17.14 | 12.81 |
| | C.V. (%) | 2.27 | 2.18 | 2.55 | 0.72 | 0.15 | 1.31 | 6.07 | 9.22 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 |

BR298

TABLE No.40
PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN IVT TRIAL No. 64 DURING KHARIF (2012)

| No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER | |
|----|----------------------|------------------------|----|--------------------------------|----------------|
| | | 15% MOISTURE | | Vivek QPM 9 | Vivek Hybrid 9 |
| | | SRIN | R | SRIN | SRIN |
| 1 | FH 3583 | 8296 | 1 | 55 | 33 |
| 2 | FH 3594 | 5568 | 11 | 4 | - |
| 3 | FQH 93 | 5752 | 5 | 8 | - |
| 4 | DH-238 | 5651 | 9 | 6 | - |
| 5 | DH-241 | 5996 | 4 | 12 | - |
| 6 | DH-242 | 5437 | 14 | 2 | - |
| 7 | DH-244 | 5730 | 7 | 7 | - |
| 8 | DH-248 | 6621 | 2 | 24 | 6 |
| 9 | DH-262 | 5614 | 10 | 5 | - |
| 10 | DH-263 | 5539 | 12 | 4 | - |
| 11 | REH 2011-7 | 5661 | 8 | 6 | - |
| 12 | REH 2011-8 | 5144 | 18 | - | - |
| 13 | AH 1201 | 5747 | 6 | 7 | - |
| 14 | AH 1202 | 5410 | 15 | 1 | - |
| 15 | AH 1203 | 5531 | 13 | 3 | - |
| 16 | AH 1204 | 5396 | 16 | 1 | - |
| | CHECKS | | | | |
| 17 | Vivek QPM 9 | 5350 | 17 | - | - |
| 18 | Vivek Hybrid 9 | 6224 | 3 | 16 | - |
| | Location Mean | 5815 | | | |
| | C.D. (5%) | 904 | | | |
| | C.V. (%) | 9.36 | | | |
| | F (Prob) | 0 | | | |
| | Plot Size | 4.8 | | | |
| | AGRONOMY DATA | | | | |
| | Sowing Date | 12-04 | | | |
| | Harvest Date | 25-09 | | | |
| | Irrigation Nos | 3 | | | |
| | Fertilizer Applied N | 90 | | | |
| | Fertilizer Applied P | 60 | | | |
| | Fertilizer Applied K | 40 | | | |

Table No.40 (Cont..)

| S.No. PEDIGREE | DAYS TO 50% POLLEN SHED | DAYS TO 50% SILKING | DAYS TO 75% DRY HUSK | MOISTURE % AT HARVEST | GRAIN SHELLING % | STAND AT HARVEST (⁰⁰⁰ /ha) | PLANT HEIGHT(cm) | EAR HEIGHT(cm) |
|-------------------|----------------------------|------------------------|-------------------------|--------------------------|---------------------|--|---------------------|-------------------|
| | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 FH 3583 | 72.0 | 75.0 | 126.3 | 18.5 | 77.0 | 83.3 | 188.3 | 98.3 |
| 2 FH 3594 | 71.7 | 74.3 | 119.7 | 18.0 | 78.0 | 82.6 | 166.7 | 81.7 |
| 3 FQH 93 | 67.0 | 69.3 | 120.0 | 15.0 | 77.8 | 82.6 | 153.3 | 60.0 |
| 4 DH-238 | 68.0 | 70.0 | 128.0 | 15.5 | 79.0 | 81.9 | 153.3 | 65.0 |
| 5 DH-241 | 69.3 | 72.0 | 126.0 | 14.5 | 79.8 | 75.7 | 145.0 | 61.7 |
| 6 DH-242 | 70.3 | 73.3 | 119.0 | 19.0 | 79.3 | 81.9 | 161.7 | 78.3 |
| 7 DH-244 | 66.7 | 68.7 | 125.7 | 17.5 | 79.0 | 81.9 | 145.0 | 71.7 |
| 8 DH-248 | 70.0 | 72.7 | 127.7 | 14.5 | 79.3 | 82.6 | 150.0 | 70.0 |
| 9 DH-262 | 68.3 | 70.3 | 122.7 | 16.5 | 79.0 | 83.3 | 145.0 | 68.3 |
| 10 DH-263 | 72.0 | 74.3 | 127.0 | 17.5 | 78.5 | 82.6 | 158.3 | 76.7 |
| 11 REH 2011-7 | 72.3 | 75.0 | 129.7 | 15.5 | 78.8 | 82.6 | 150.0 | 65.0 |
| 12 REH 2011-8 | 71.7 | 74.3 | 128.0 | 19.0 | 78.8 | 81.9 | 158.3 | 71.7 |
| 13 AH 1201 | 71.0 | 73.7 | 126.7 | 17.5 | 78.5 | 83.3 | 150.0 | 71.7 |
| 14 AH 1202 | 70.7 | 73.0 | 129.7 | 16.5 | 78.8 | 83.3 | 148.3 | 70.0 |
| 15 AH 1203 | 71.7 | 74.3 | 129.7 | 16.5 | 78.3 | 81.9 | 153.3 | 73.3 |
| 16 AH 1204 | 69.3 | 71.7 | 126.0 | 15.0 | 78.0 | 83.3 | 143.3 | 63.3 |
| CHECKS | | | | | | | | |
| 17 Vivek QPM 9 | 66.3 | 68.7 | 120.7 | 14.0 | 78.0 | 81.9 | 135.0 | 56.7 |
| 18 Vivek Hybrid 9 | 65.0 | 68.0 | 121.0 | 12.0 | 78.3 | 83.3 | 136.7 | 68.3 |
| Loc. Mean | 69.6 | 72.1 | 125.2 | 16.3 | 78.5 | 82.3 | 152.3 | 70.6 |
| C.D. (5%) | 3.61 | 3.80 | 5.12 | 0.53 | 0.61 | 5.41 | 11.06 | 9.58 |
| C.V. (%) | 3.12 | 3.17 | 2.47 | 1.97 | 0.47 | 3.96 | 4.38 | 8.17 |
| F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 |

BR300

TABLE No.41
PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN AVT-1 TRIAL No. 66 DURING KHARIF (2012)

| SI | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER | | |
|----------------------|------------------------|-------------|--------------------------------|----------|------|
| | 15% MOISTURE | | PMH 4 | BIO 9637 | |
| | ZN 1 | | | | |
| No | PEDIGREE | SRIN | R | SRIN | SRIN |
| 1 | EHL 161708 (Hyb) | 4706 | 10 | - | - |
| 2 | X35A189 | 4950 | 8 | - | - |
| 3 | B 53 | 5698 | 3 | - | 14 |
| 4 | X35A194 | 4180 | 12 | - | - |
| 5 | MCH 47 | 5930 | 1 | 3 | 19 |
| 6 | PRO-383 | 5583 | 5 | - | 12 |
| 7 | JH 31522 | 4988 | 6 | - | 0 |
| 8 | JH 31470 | 4804 | 9 | - | - |
| 9 | SeedTech 2324(Filler) | 5633 | 4 | - | 13 |
| 10 | BIO-9681(Filler) | 3769 | 13 | - | - |
| 11 | Bio 9637(Filler) | 4638 | 11 | - | - |
| CHECKS | | | | | |
| 12 | PMH 4 | 5784 | 2 | - | 16 |
| 13 | BIO 9637 | 4978 | 7 | - | - |
| Location Mean | | 5049 | | | |
| C.D. (5%) | | 482 | | | |
| C.V. (%) | | 5.65 | | | |
| F (Prob) | | 0 | | | |
| Plot Size | | 9.6 | | | |
| AGRONOMY DATA | | | | | |
| Sowing Date | | 15-04 | | | |
| Harvest Date | | 3-10 | | | |
| Irrigation Nos | | 3 | | | |
| Fertilizer Applied N | | 90 | | | |
| Fertilizer Applied P | | 60 | | | |
| Fertilizer Applied K | | 40 | | | |

Table No. 41 (Cont..)

| S.No. PEDIGREE | DAYS TO 50% POLLEN SHED | DAYS TO 50% SILKING | DAYS TO 75% DRY HUSK | MOISTURE % AT HARVEST | GRAIN SHELLING % | STAND AT HARVEST (⁰⁰⁰ /ha) | PLANT HEIGHT(cm) | EAR HEIGHT(cm) |
|-------------------------|----------------------------|------------------------|-------------------------|--------------------------|---------------------|--|---------------------|-------------------|
| | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 EHL 161708 (Hyb) | 83.7 | 86.7 | 136.7 | 14.0 | 78.3 | 82.6 | 140.0 | 70.0 |
| 2 X35A189 | 87.0 | 89.7 | 139.7 | 16.5 | 77.5 | 82.3 | 185.0 | 86.7 |
| 3 B 53 | 89.0 | 91.7 | 142.3 | 17.5 | 78.3 | 83.0 | 200.0 | 96.7 |
| 4 X35A194 | 89.7 | 92.3 | 143.3 | 18.5 | 78.3 | 83.3 | 205.0 | 100.0 |
| 5 MCH 47 | 85.3 | 88.0 | 136.3 | 14.5 | 78.8 | 83.0 | 173.3 | 68.3 |
| 6 PRO-383 | 89.3 | 92.0 | 144.0 | 18.5 | 77.3 | 83.0 | 170.0 | 88.3 |
| 7 JH 31522 | 88.3 | 91.0 | 140.7 | 17.5 | 78.5 | 82.6 | 181.7 | 85.0 |
| 8 JH 31470 | 87.3 | 90.3 | 139.7 | 18.0 | 78.8 | 82.3 | 198.3 | 105.0 |
| 9 SeedTech 2324(Filler) | 90.0 | 93.0 | 142.3 | 17.5 | 78.3 | 83.3 | 178.3 | 93.3 |
| 10 BIO-9681(Filler) | 87.3 | 90.3 | 138.7 | 15.5 | 78.3 | 83.0 | 185.0 | 96.7 |
| 11 Bio 9637(Filler) | 87.3 | 89.3 | 142.0 | 14.0 | 79.3 | 82.6 | 181.7 | 95.0 |
| CHECKS | | | | | | | | |
| 12 PMH 4 | 87.0 | 90.0 | 139.0 | 16.0 | 78.8 | 83.0 | 161.7 | 83.3 |
| 13 BIO 9637 | 88.0 | 91.0 | 138.0 | 17.5 | 78.8 | 83.3 | 171.7 | 83.3 |
| Loc. Mean | 87.6 | 90.4 | 140.2 | 16.6 | 78.4 | 82.9 | 179.4 | 88.6 |
| C.D. (5%) | 2.87 | 2.70 | 4.67 | 0.47 | 0.16 | 1.04 | 15.02 | 18.49 |
| C.V. (%) | 1.94 | 1.77 | 1.98 | 1.67 | 0.12 | 0.74 | 4.97 | 12.39 |
| F (Prob) | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 0.46 | 0.00 | 0.01 |

TABLE No. 42
PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN AVT-1 TRIAL No. 67 DURING KHARIF (2012)

| Sl No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | GRAIN YIELD % SUPERIORITY OVER | |
|----------------------|------------|--|---|--------------------------------|-----------------|
| | | SRIN | R | Prakash SRIN | JH 3459 SRIN |
| 1 | JH 31485 | 5936 | 6 | - | - |
| 2 | DAS-MH-501 | 7508 | 2 | 4 | 12 |
| 3 | Bisco 2238 | 5516 | 8 | - | - |
| 4 | K 21 | 6595 | 5 | - | - |
| 5 | FH 3548 | 7955 | 1 | 10 | 19 |
| 6 | CMH10-525 | 5695 | 7 | - | - |
| CHECKS | | | | | |
| 7 | Prakash | 7223 | 3 | - | 8 |
| 8 | JH 3459 | 6688 | 4 | - | - |
| Location Mean | | 6640 | | | |
| C.D. (5%) | | 433 | | | |
| C.V. (%) | | 3.69 | | | |
| F (Prob) | | 0 | | | |
| Plot Size | | 9.6 | | | |
| AGRONOMY DATA | | | | | |
| Sowing Date | | 15-04 | | | |
| Harvest Date | | 28-09 | | | |
| Irrigation Nos | | 3 | | | |
| Fertilizer Applied N | | 90 | | | |
| Fertilizer Applied P | | 60 | | | |
| Fertilizer Applied K | | 40 | | | |

Table No.42 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|-------|------------------|-------------|-------------|--------------|-------------|-------------|-----------------------------------|--------------|-------------|
| | | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST (⁰ 000/ha) | HEIGHT(cm) | HEIGHT(cm) |
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | JH 31485 | 75.3 | 78.0 | 129.3 | 16.5 | 79.3 | 83.0 | 190.0 | 101.7 |
| 2 | DAS-MH-501 | 73.3 | 75.7 | 117.0 | 16.5 | 77.5 | 82.6 | 163.3 | 56.7 |
| 3 | Bisco 2238 | 76.0 | 79.0 | 118.3 | 13.5 | 78.3 | 83.0 | 160.0 | 60.0 |
| 4 | K 21 | 73.3 | 76.3 | 123.3 | 16.5 | 78.8 | 82.3 | 170.0 | 80.0 |
| 5 | FH 3548 | 73.0 | 76.0 | 122.7 | 16.5 | 78.3 | 82.3 | 193.3 | 78.3 |
| 6 | CMH10-525 | 74.3 | 76.3 | 126.0 | 15.5 | 78.0 | 82.6 | 155.0 | 71.7 |
| | CHECKS | | | | | | | | |
| 7 | Prakash | 74.0 | 76.3 | 124.0 | 15.5 | 79.3 | 83.0 | 206.7 | 93.3 |
| 8 | JH 3459 | 76.7 | 79.3 | 126.0 | 15.5 | 78.8 | 82.6 | 140.0 | 76.7 |
| | Loc. Mean | 74.5 | 77.1 | 123.3 | 15.8 | 78.5 | 82.7 | 172.3 | 77.3 |
| | C.D. (5%) | 2.44 | 2.37 | 5.89 | - | 0.33 | 1.60 | 6.37 | 6.58 |
| | C.V. (%) | 1.87 | 1.75 | 2.73 | - | 0.24 | 1.10 | 2.11 | 4.86 |
| | F (Prob) | 0.04 | 0.02 | 0.01 | - | 0.00 | 0.94 | 0.00 | 0.00 |

TABLE No.43
PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN AVT-1 TRIAL No. 68 DURING KHARIF (2012)

| SI No | PEDIGREE | GRAIN YIELD (kg/ha) AT 15% MOISTURE | | GRAIN YIELD % SUPERIORITY OVER | |
|----------------------|----------------|--|---|--------------------------------|---------------------|
| | | SRIN | R | Vivek Hybrid 9 SRIN | Vivek QPM 9 SRIN |
| 1 | FH 3556 | 5604 | 8 | - | - |
| 2 | FH 3554 | 8643 | 1 | 36 | 27 |
| 3 | FH 3558 | 6256 | 5 | - | - |
| 4 | FH 3555 | 6142 | 6 | - | - |
| 5 | K 75 | 6519 | 3 | 2 | - |
| 6 | DH-230 | 5845 | 7 | - | - |
| CHECKS | | | | | |
| 7 | Vivek Hybrid 9 | 6378 | 4 | - | - |
| 8 | Vivek QPM 9 | 6787 | 2 | 6 | - |
| Location Mean | | 6522 | | | |
| C.D. (5%) | | 283 | | | |
| C.V. (%) | | 2.46 | | | |
| F (Prob) | | 0 | | | |
| Plot Size | | 9.6 | | | |
| AGRONOMY DATA | | | | | |
| Sowing Date | | 12-04 | | | |
| Harvest Date | | 22-09 | | | |
| Irrigation Nos | | 3 | | | |
| Fertilizer Applied N | | 90 | | | |
| Fertilizer Applied P | | 60 | | | |
| Fertilizer Applied K | | 40 | | | |

Table No.43 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | DAYS TO 50% SILKING | DAYS TO 75% DRY HUSK | MOISTURE % AT HARVEST | GRAIN SHELLING % | STAND AT HARVEST (⁰⁰⁰ /ha) | PLANT HEIGHT(cm) | EAR HEIGHT(cm) |
|-------|------------------|----------------------------|------------------------|-------------------------|--------------------------|---------------------|--|---------------------|-------------------|
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | FH 3556 | 75.7 | 78.0 | 129.0 | 21.0 | 77.2 | 83.3 | 148.3 | 63.3 |
| 2 | FH 3554 | 69.7 | 72.0 | 123.7 | 13.5 | 78.0 | 82.6 | 145.0 | 71.7 |
| 3 | FH 3558 | 73.3 | 75.3 | 124.7 | 15.5 | 78.3 | 83.3 | 173.3 | 81.7 |
| 4 | FH 3555 | 71.0 | 73.7 | 127.3 | 16.5 | 78.3 | 82.3 | 150.0 | 70.0 |
| 5 | K 75 | 71.7 | 74.3 | 122.0 | 17.5 | 78.8 | 83.3 | 168.3 | 66.7 |
| 6 | DH-230 | 71.0 | 73.7 | 127.3 | 16.5 | 78.8 | 82.3 | 158.3 | 80.0 |
| | CHECKS | | | | | | | | |
| 7 | Vivek Hybrid 9 | 67.0 | 69.7 | 123.7 | 15.5 | 76.0 | 83.3 | 150.0 | 70.0 |
| 8 | Vivek QPM 9 | 65.0 | 67.7 | 122.7 | 15.0 | 77.3 | 82.6 | 150.0 | 68.3 |
| | Loc. Mean | 70.5 | 73.0 | 125.0 | 16.4 | 77.8 | 82.9 | 155.4 | 71.5 |
| | C.D. (5%) | 4.72 | 4.84 | 4.35 | 1.02 | 0.66 | 1.29 | 6.76 | 6.30 |
| | C.V. (%) | 3.82 | 3.78 | 1.99 | 3.56 | 0.49 | 0.89 | 2.48 | 5.04 |
| | F (Prob) | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 |

BR306

TABLE No.44
PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN AVT-2 TRIAL No.70 DURING KHARIF (2012)

| No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER | | |
|----------------------|-----------------------|------------------------|----|--------------------------------|-------|-------|
| | | 15% MOISTURE | | BIO 9637 | PMH 4 | |
| | | SRIN | R | SRIN | SRIN | |
| 1 | JH 31404 | 4264 | 25 | - | - | |
| 2 | BH41009 | 4358 | 22 | - | - | |
| 3 | BIO 151 | 4404 | 20 | - | 0 | |
| 4 | BIO-688 | 4436 | 16 | - | 1 | |
| 5 | Bisco 2668 | 4627 | 4 | 3 | 5 | |
| 6 | CMH08-350 | 4405 | 19 | - | 0 | |
| 7 | IMH-666 | 4493 | 12 | - | 2 | |
| 8 | B 63 | 4418 | 18 | - | 0 | |
| 9 | JKMH-7004 | 4491 | 13 | - | 2 | |
| 10 | KDMH 176 | 4793 | 1 | 6 | 9 | |
| 11 | NMH-1242 | 4423 | 17 | - | 0 | |
| 12 | P3396 | 4509 | 10 | 0 | 2 | |
| 13 | PFMH-96 I 41 | 4313 | 24 | - | - | |
| 14 | PFMH-96 N 46 | 4515 | 9 | 0 | 3 | |
| 15 | S6217 | 4690 | 2 | 4 | 7 | |
| 16 | S6304 | 4441 | 15 | - | 1 | |
| 17 | TITAN | 4557 | 8 | 1 | 3 | |
| 18 | X35A173 | 4343 | 23 | - | - | |
| 19 | X35A174 | 4580 | 7 | 2 | 4 | |
| 20 | YUVRAJ GOLD | 4611 | 5 | 2 | 5 | |
| 21 | SeedTech 2324(Filler) | 4588 | 6 | 2 | 4 | |
| 22 | Bio 9681(Filler) | 4488 | 14 | - | 2 | |
| 23 | Bio 9637(Filler) | 4642 | 3 | 3 | 5 | |
| CHECKS | | | | | | |
| 24 | BIO 9637 | 4501 | 11 | - | 2 | |
| 25 | PMH 4 | 4403 | 21 | - | - | |
| Location Mean | | 4492 | | AGRONOMY DATA | | |
| C.D. (5%) | | 312 | | Sowing Date | 15-04 | |
| C.V. (%) | | 4.23 | | Harvest Date | 5-10 | |
| F (Prob) | | 0.171 | | Irrigation Nos | 3 | |
| Plot Size | | 14.4 | | Fertilizer Applied N P K | 90 | 60 40 |

Table No.44 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|------------------|-----------------------|-------------|-------------|--------------|-------------|-------------|------------------|--------------|-------------|
| | | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST('000/ha) | HEIGHT(cm) | HEIGHT(cm) |
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | JH 31404 | 88.3 | 91.3 | 140.0 | 21.5 | 78.3 | 82.6 | 206.7 | 106.7 |
| 2 | BH41009 | 92.3 | 94.7 | 142.7 | 22.0 | 77.8 | 82.9 | 210.0 | 100.0 |
| 3 | BIO 151 | 91.7 | 94.3 | 144.3 | 22.0 | 77.3 | 82.4 | 180.0 | 100.0 |
| 4 | BIO-688 | 90.3 | 93.3 | 141.0 | 20.0 | 77.8 | 83.1 | 171.7 | 71.7 |
| 5 | Bisco 2668 | 93.0 | 96.0 | 146.3 | 23.5 | 77.0 | 83.3 | 171.7 | 80.0 |
| 6 | CMH08-350 | 93.0 | 96.0 | 145.7 | 23.0 | 77.3 | 83.3 | 200.0 | 98.3 |
| 7 | IMH-666 | 94.3 | 97.3 | 143.3 | 21.5 | 78.8 | 83.3 | 178.3 | 105.0 |
| 8 | B 63 | 90.7 | 93.0 | 144.0 | 22.5 | 77.5 | 82.9 | 170.0 | 83.3 |
| 9 | JKMH-7004 | 87.7 | 90.3 | 138.7 | 20.5 | 78.8 | 82.4 | 170.0 | 60.0 |
| 10 | KDMH 176 | 93.7 | 96.7 | 145.7 | 21.5 | 78.3 | 82.2 | 165.0 | 95.0 |
| 11 | NMH-1242 | 84.7 | 87.7 | 138.0 | 20.5 | 78.0 | 82.9 | 138.3 | 55.0 |
| 12 | P3396 | 87.3 | 90.3 | 140.7 | 21.5 | 78.0 | 83.3 | 148.3 | 56.7 |
| 13 | PFMH-96 I 41 | 85.0 | 87.3 | 137.0 | 20.0 | 79.3 | 83.1 | 150.0 | 60.0 |
| 14 | PFMH-96 N 46 | 91.0 | 93.7 | 139.7 | 20.0 | 78.3 | 82.2 | 141.7 | 50.0 |
| 15 | S6217 | 90.3 | 93.3 | 146.0 | 23.0 | 76.8 | 83.1 | 153.3 | 81.7 |
| 16 | S6304 | 89.3 | 92.3 | 145.0 | 22.0 | 77.8 | 83.3 | 165.0 | 85.0 |
| 17 | TITAN | 87.3 | 90.3 | 139.7 | 21.5 | 78.3 | 82.2 | 141.7 | 55.0 |
| 18 | X35A173 | 90.3 | 89.3 | 142.7 | 22.0 | 78.0 | 82.9 | 185.0 | 80.0 |
| 19 | X35A174 | 91.0 | 94.0 | 146.3 | 23.0 | 77.8 | 83.3 | 160.0 | 73.3 |
| 20 | YUVRAJ GOLD | 92.7 | 95.3 | 135.7 | 19.5 | 78.3 | 83.1 | 155.0 | 65.0 |
| 21 | SeedTech 2324(Filler) | 90.0 | 92.7 | 143.0 | 22.0 | 78.0 | 83.3 | 198.3 | 106.7 |
| 22 | Bio 9681(Filler) | 89.7 | 92.7 | 133.0 | 18.0 | 79.5 | 82.9 | 180.0 | 80.0 |
| 23 | Bio 9637(Filler) | 90.3 | 93.3 | 141.0 | 20.0 | 78.0 | 82.9 | 186.7 | 95.0 |
| CHECKS | | | | | | | | | |
| 24 | BIO 9637 | 87.7 | 90.7 | 141.0 | 21.5 | 78.0 | 82.4 | 200.0 | 100.0 |
| 25 | PMH 4 | 92.0 | 94.3 | 136.0 | 18.5 | 78.8 | 82.6 | 171.7 | 71.7 |
| Loc. Mean | | 90.1 | 92.8 | 141.5 | 21.2 | 78.0 | 82.9 | 171.9 | 80.6 |
| C.D. (5%) | | 0.87 | 2.47 | 0.91 | 0.69 | 0.37 | 0.96 | 5.86 | 4.51 |
| C.V. (%) | | 0.59 | 1.62 | 0.39 | 1.98 | 0.29 | 0.71 | 2.08 | 3.41 |
| F (Prob) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 |

TABLE No.45
PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT AND PLANTED
IN 2013 KHARIF AT SRINAGAR IN AVT-2 TRIAL No.71 DURING KHARIF (2012)

| SI | No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER | |
|----|----|----------------------|------------------------|---|--------------------------------|---------|
| | | | 15% MOISTURE | | Prakash | JH 3459 |
| | | | ZN 1 | | | |
| | | | SRIN | R | SRIN | SRIN |
| | 1 | FH 3513 | 5590 | 3 | - | 18 |
| | 2 | HKH-317 | 5678 | 2 | - | 20 |
| | 3 | SUN VAAMAN | 5286 | 4 | - | 12 |
| | 4 | BIO 9637(Filler) | 4787 | 5 | - | 1 |
| | | CHECKS | | | | |
| | 5 | Prakash | 5847 | 1 | - | 23 |
| | 6 | JH 3459 | 4739 | 6 | - | - |
| | | Location Mean | 5321 | | | |
| | | C.D. (5%) | 236 | | | |
| | | C.V. (%) | 2.93 | | | |
| | | F (Prob) | 0 | | | |
| | | Plot Size | 14.4 | | | |
| | | AGRONOMY DATA | | | | |
| | | Sowing Date | 15-04 | | | |
| | | Harvest Date | 28-09 | | | |
| | | Irrigation Nos | 3 | | | |
| | | Fertilizer Applied N | 90 | | | |
| | | Fertilizer Applied P | 60 | | | |
| | | Fertilizer Applied K | 40 | | | |

Table No.45 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% POLLEN SHED | DAYS TO 50% SILKING | DAYS TO 75% DRY HUSK | MOISTURE % AT HARVEST | GRAIN SHELLING % | STAND AT HARVEST (⁰ 000/ha) | PLANT HEIGHT(cm) | EAR HEIGHT(cm) |
|-------|-----------------------------|----------------------------|------------------------|-------------------------|--------------------------|---------------------|---|---------------------|-------------------|
| | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | FH 3513 | 77.5 | 80.5 | 130.3 | 14.5 | 78.8 | 83.2 | 157.5 | 78.8 |
| 2 | HKH-317 | 78.5 | 81.0 | 130.0 | 13.5 | 78.3 | 83.0 | 166.3 | 76.3 |
| 3 | SUN VAAMAN | 77.3 | 80.0 | 133.3 | 17.0 | 76.0 | 83.2 | 167.5 | 68.8 |
| 4 | BIO 9637(Filler) CHECKS | 79.8 | 82.3 | 133.3 | 17.5 | 77.3 | 83.2 | 207.5 | 112.5 |
| 5 | Prakash | 75.5 | 78.5 | 125.0 | 12.5 | 79.8 | 82.1 | 166.3 | 82.5 |
| 6 | JH 3459 | 75.5 | 78.0 | 129.3 | 16.5 | 78.0 | 83.2 | 153.8 | 78.8 |
| | Loc. Mean | 77.3 | 80.0 | 130.2 | 15.3 | 78.0 | 83.0 | 169.8 | 82.9 |
| | C.D. (5%) | 1.56 | 1.88 | 3.89 | 0.25 | 0.16 | 0.56 | 9.29 | 3.97 |
| | C.V. (%) | 1.34 | 1.56 | 1.98 | 1.09 | 0.14 | 0.45 | 3.63 | 3.18 |
| | F (Prob) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |

TABLE No.46
PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2012 KHARIF EXPERIMENT
AND PLANTED IN 2013 KHARIF AT SRINAGAR IN AVT-2 TRIAL No.72 DURING KHARIF (2012)

| SI | No | PEDIGREE | GRAIN YIELD (kg/ha) AT | | GRAIN YIELD % SUPERIORITY OVER | |
|----|----|----------------------|------------------------|---|--------------------------------|-------------|
| | | | 15% MOISTURE | | Vivek Hybrid 9 | Vivek QPM 9 |
| | | | ZN 1 | | | |
| | | | SRIN | R | SRIN | SRIN |
| | 1 | FH 3525 | 5773 | 2 | 12 | 6 |
| | 2 | KH-9888 | 4867 | 6 | - | - |
| | 3 | FH 3510 | 4644 | 7 | - | - |
| | 4 | Prakash(Filler) | 6453 | 1 | 26 | 19 |
| | 5 | JH 3459(Filler) | 5192 | 4 | 1 | - |
| | | CHECKS | | | | |
| | 6 | Vivek Hybrid 9 | 5140 | 5 | - | - |
| | 7 | Vivek QPM 9 | 5426 | 3 | 6 | - |
| | | Location Mean | 5356 | | | |
| | | C.D. (5%) | 301 | | | |
| | | C.V. (%) | 3.77 | | | |
| | | F (Prob) | 0 | | | |
| | | Plot Size | 14.4 | | | |
| | | AGRONOMY DATA | | | | |
| | | Sowing Date | 15-04 | | | |
| | | Harvest Date | 28-09 | | | |
| | | Irrigation Nos | 3 | | | |
| | | Fertilizer Applied N | 90 | | | |
| | | Fertilizer Applied P | 60 | | | |
| | | Fertilizer Applied K | 40 | | | |

Table No.46 (Cont..)

| S.No. | PEDIGREE | DAYS TO 50% | DAYS TO 50% | DAYS TO 75% | MOISTURE % | GRAIN | STAND AT | PLANT | EAR |
|-------|------------------|-------------|-------------|--------------|-------------|-------------|-----------------------------------|--------------|-------------|
| | | POLLEN SHED | SILKING | DRY HUSK | AT HARVEST | SHELLING % | HARVEST (⁰ 000/ha) | HEIGHT(cm) | HEIGHT(cm) |
| | | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN | SRIN |
| 1 | FH 3525 | 73.8 | 76.3 | 133.5 | 20.5 | 77.0 | 83.0 | 167.5 | 72.5 |
| 2 | KH-9888 | 66.3 | 68.5 | 122.8 | 16.5 | 77.3 | 83.0 | 148.8 | 68.8 |
| 3 | FH 3510 | 71.8 | 74.3 | 128.8 | 18.5 | 77.8 | 83.0 | 147.5 | 67.5 |
| 4 | Prakash(Filler) | 72.8 | 75.0 | 130.8 | 17.0 | 78.8 | 82.8 | 188.8 | 107.5 |
| 5 | JH 3459(Filler) | 76.0 | 78.8 | 134.3 | 18.5 | 78.0 | 83.0 | 157.5 | 80.0 |
| | CHECKS | | | | | | | | |
| 6 | Vivek Hybrid 9 | 69.0 | 72.0 | 127.3 | 15.5 | 78.0 | 83.0 | 157.5 | 70.0 |
| 7 | Vivek QPM 9 | 64.0 | 66.8 | 121.0 | 14.0 | 77.8 | 83.2 | 151.3 | 58.8 |
| | Loc. Mean | 70.5 | 73.1 | 128.3 | 17.2 | 77.8 | 83.0 | 159.8 | 75.0 |
| | C.D. (5%) | 5.81 | 5.92 | 6.48 | 0.35 | 0.23 | 0.69 | 5.65 | 7.17 |
| | C.V. (%) | 5.54 | 5.45 | 3.40 | 1.37 | 0.20 | 0.56 | 2.38 | 6.44 |
| | F (Prob) | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.98 | 0.00 | 0.00 |

Breeder Seed Production

Breeder Seed Production

A total of 60.33 quintal of breeder seed of maize hybrids and OPVs was indented by Department of Agriculture and cooperation, Ministry of Agriculture, GOI and allocated to the twelve AICRP centres. 15 OPVs and parental lines of 17 hybrids were included in the breeder seed programme. AS per BSP IV, 63.65 quintals of breeder seed has been produced as on March 4, 2014. Of these, eight OPVs and parental lines of nine hybrids are being produced in the current rabi season (2013-14). Variety-wise breeder seed production status is given below.

Centre-wise breeder seed production status during 2013-14

| S. No. | Parental line/varieties | DAC indent | Actual allotment as per BSP-I target | Actual production | Production surplus/deficit over BSP-I target | Remarks* |
|------------------------------|---|------------|--------------------------------------|-------------------|--|------------|
| VPKAS, Almora | | | | | | |
| 1 | Vivek Maize Hybrid 39 (V-373) (F) | 0.03 | 0.03 | 0.03 | | |
| 2 | Vivek Maize Hybrid 39 (CM-212) (M) | 0.01 | 0.01 | 0.04 | 0.03 | |
| 3 | Vivek Maize Hybrid 33 (FH 3352) (V-372)(F) | 0.04 | 0.04 | 0.10 | 0.06 | |
| 4 | Vivek Maize Hybrid 33 (CM212)(M) | 0.02 | 0.02 | 0.04 | 0.02 | |
| 5 | Vivek QPM-9 (FQH 4567) (VQL1) (F) | 0.03 | 0.03 | 1.90 | 1.87 | |
| 6 | Vivek QPM-9 (VQL2) (M) | 0.01 | 0.01 | 0.01 | | |
| 7 | Vivek Maize Hybrid-17 (FH-3186) (CM-153)(F) | 1.50 | 1.50 | 1.75 | 0.25 | |
| 8 | Vivek Maize Hybrid-17 (FH-3186) (CM-212)(M) | 0.50 | 0.50 | 0.50 | | |
| GBPU&T,Pant nagar | | | | | | |
| 9 | Kanchan | 0.17 | 0.17 | 2.00 | 1.83 | |
| 10 | Sonari (Shweta) | 0.04 | 0.04 | 0.05 | 0.01 | |
| 11 | Amar (D-941) | 0.20 | 0.20 | 2.00 | 1.80 | |
| PAU Ludhiana | | | | | | |
| 12 | PMH 4 (LM-5) (F) | 0.42 | 0.42 | 1.00 | 0.58 | |
| 13 | PMH 4 (LM-16) (M) | 0.13 | 0.13 | 0.15 | 0.02 | |
| 14 | PMH 5 (JH 3110) (LM16) (F) | 0.42 | 0.42 | 0.45 | 0.03 | |
| 15 | PHM-5 (LM18) (M) | 0.13 | 0.13 | 0.15 | 0.02 | |
| 16 | PMH-3 (JH 10704) (LM-17) (F) | 0.42 | 0.42 | 0.80 | 0.38 | |
| 17 | PMH-3 (JH 10704) (LM-14) (M) | 0.13 | 0.13 | 20.00 | 19.87 | |
| 18 | Vijay Composite | 0.10 | 0.10 | 0.20 | 0.10 | |
| CCS HAU, Uchani | | | | | | |
| 19 | HQPM-4 (HKI-193-2) (F) | 4.50 | 4.50 | | | Rabi 13-14 |
| 20 | HQPM-4 (HKI-161) (M) | 1.50 | 1.50 | 1.65 | 0.15 | |
| 21 | HM-10 (HKH-1200) (HKI 1128) (M) | 1.20 | 1.20 | 0.22 | -0.98 | Rabi 13-14 |
| 22 | HM-10 (HKH-1200)(HKI 193-2)(F) | 2.30 | 2.30 | | | Rabi 13-14 |
| 23 | HQPM-7 (HKI 161) (M) | 1.20 | 1.20 | 1.65 | 0.45 | |
| 24 | HQPM-7 (HKI 193-1) (F) | 0.50 | 0.50 | 1.10 | 0.60 | |
| 25 | HQPM-5 (HKI-163) (F) | 4.30 | 4.30 | | | Rabi 13-14 |
| 26 | HQPM-5 (HKI-161) (M) | 1.40 | 1.40 | 1.60 | 0.20 | |
| 27 | HM-4 (HKI-1105) (F) | 0.37 | 0.37 | 0.05 | -0.32 | Rabi 13-14 |

BSP2

| S. No. | Parental line/varieties | DAC indent | Actual allotment as per BSP-I target | Actual production | Production surplus/deficit over BSP-I target | Remarks* |
|-----------------------------|---|--------------|--------------------------------------|-------------------|--|------------|
| 28 | HM-4 (HKI-323) (M) | 0.13 | 0.13 | 0.10 | -0.3 | Rabi 13-14 |
| 29 | HM-8 (HKI-1105) (F) | 0.15 | 0.15 | 0.10 | -0.05 | Rabi 13-14 |
| 30 | HM-8 (HKI-161) (M) | 0.05 | 0.05 | 1.6 | 0.11 | |
| 31 | HQPM-1 (HKI-193) (F) | 4.15 | 4.15 | 4.15 | | |
| 32 | HQPM-1 (HKI-163) (M) | 2.05 | 2.05 | 0.16 | -1.89 | Rabi 13-14 |
| IARI, Delhi | | | | | | |
| 33 | Pusa Extra Early Hybrid 34Makka -5 (CM-150) F | 1.04 | 1.04 | | | Rabi 13-14 |
| 34 | Pusa Extra Early Hybrid Makka -5 (CM-151)M | 0.52 | 0.52 | | | Rabi 13-14 |
| 35 | Pusa Composite-3 (Composite-85134) | 1.27 | 1.27 | 0.85 | -0.42 | Rabi 13-14 |
| 36 | Pusa Composite-4 (Composite-8551) | 0.30 | 0.30 | 1.45 | 1.15 | |
| MPUA&T, Udaipur | | | | | | |
| 37 | Pratap Hybrid Maize-1 (EI-116) (F) | 3.00 | 3.00 | | | Rabi 13-14 |
| 38 | Pratap Hybrid Maize-1 (EI-364) (M) | 1.50 | 1.50 | | | Rabi 13-14 |
| 39 | Pratap Makka-4 (EC-1108) | 2.00 | 2.00 | | | Rabi 13-14 |
| 40 | Pratap Makka-5 (EC-3116) | 2.00 | 2.00 | | | Rabi 13-14 |
| MPUA&T, Banswara | | | | | | |
| 41 | Pratap Kanchan-2 WC-236(Y) | 1.00 | 1.00 | | | Rabi 13-14 |
| RAU, Dholi | | | | | | |
| 42 | Shaktiman-2 (CML-176) (M) | 0.65 | 0.65 | | | Rabi 13-14 |
| 43 | Shaktiman-2 (CML-186) (F) | 0.35 | 0.35 | | | Rabi 13-14 |
| CSUA&T, Kanpur | | | | | | |
| 44 | Azad Kamal (R 9803) | 0.20 | 0.20 | | | |
| JNKVV, Chhindwara | | | | | | |
| 45 | Jawahar Makai-216 (JM-216) | 12.00 | 12.00 | 12.40 | 0.40 | |
| 46 | Jawahar Composite Makka-12 (JM-12) | 1.00 | 1.00 | | | |
| | BAU, Ranchi | | | | | |
| 47 | Birsa Makkai-1 | 2.30 | 2.30 | | | Rabi 13-14 |
| 48 | Birsa Makkai-2 | 2.00 | 2.00 | | | Rabi 13-14 |
| UASB Mandya | | | | | | |
| 49 | NAC 6004 | 1.10 | 1.10 | | | Rabi 13-14 |
| | TOTAL | 60.33 | 60.33 | 63.65 | | |

*programme taken up in rabi 2013-14

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Maize Agronomy Trial (MAT)

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AGRONOMY

Summary

During *Kharif* 2013 the major agronomic research areas were tillage and crop establishment, nutrient management especially site specific nutrient management (SSNM), quantification of nutrients requirement of different released promising maize hybrids, development of suitable intercrop and planting system under rainfed conditions, water management in spring maize and weed management in maize and maize based cropping systems under different agro-ecologies.

Evaluation of pre-release hybrids under varying nutrient levels

A total of thirty five pre-release hybrids of different maturity groups were evaluated with ten national checks under three nutrient levels (N:P₂O₅:K₂O kg/ha) i.e. 100:40:40, 150:50:60 and 200:60:80 for extra early and early maturity hybrids however, medium and late maturing hybrids were evaluated with 150:50:60, 200:65:80, 250:80:100 nutrient levels at 17 centers of all the five maize growing zones of the country. Hybrids of different maturity group responded differentially to varying nutrient levels in different agro-ecologies of the country. The hybrids of extra early maturity group responded up to 150:50:60 Kg/ha N:P₂O₅:K₂O at two locations (Ranchi and Vagari), upto 200:60:80 at five locations (Almora, Dholi, Kolhapur, Chhindwara and Godhara). However, the early maturing hybrids responded to N:P₂O₅:K₂O levels up to 150:50:60 kg/ha at two locations (Bhubaneswar and Ranchi) and 200:60:80 kg/ha at three locations (Almora, Bajaura and Karimnagar). While the medium maturity group hybrids responded up to 150:50:60 Kg/ha N:P₂O₅:K₂O at only one location (Bahraich) and 200:65:80 at two locations (Kangra and Hyderabad). The late maturity group hybrids responded up to 150:50:60 Kg/ha N:P₂O₅:K₂O at one location (Kangra) and 250:80:100 at three locations (Bhubaneswar, Karimnagar and Hyderabad).

Effect of planting systems and intercropping with and without residue retention under rain-fed conditions

Planting of maize in Paired row (84:50cm) resulted higher yield over to uniform row planting (67cm) at Srinagar, Ambikapur, Banswara and Udaipur. Retention of residue@ 5t/ha as mulch gave significant positive effect on maize yield attributes and yield at Bajaura, Srinagar, Ranchi, Ambikapur, Banswara and Udaipur. Under intercropping situation of maize with legume crops differential response was observed at different locations *viz*; improvement in maize yield was found with intercropping of soybean compared to black gram at Bajaura, Ambikapur, Udaipur and black gram compared to soybean at Ranchi and Banswara.

Nutrient management in maize-wheat-green gram cropping system under different tillage practices

Planting of maize under permanent bed gave significantly higher yield at Karnal, Delhi and Dholi locations by 13.2, 30.7 and 10.3 percent, respectively over conventional till planting. However, the method of conventional till planting gave highest yield at Pantnagar by 14.3 and 17.6 per cent over permanent bed and zero till planting, respectively. These results suggest that there is no universal planting method which is found suitable for various agro-ecologies. Hence, the site specific conservation agriculture based tillage interventions are essentially required for sustaining the higher yield of maize-wheat-green gram cropping system.

Among the nutrient management practices, nutrient expert based site-specific nutrient management (SSNM) gave significantly higher yield at Banswara, Delhi and Dholi which was at par to the RDF. However, the application of RDF at Karnal and Pantnagar locations gave highest yield which was at par to SSNM. These studies suggest that the nutrient expert based SSNM practice is giving at par or

superior yield at various locations of the country and also found suitable for balanced nutrient prescriptions of the soil.

Nutrient management in maize-chickpea/mustard cropping system under different tillage practices under limited moisture conditions

The zero till planting of maize out yielded at Delhi by 7.6 and 28.3 per cent over conventional tillage and permanent bed, respectively. However, tillage practices could not made any significant effect on the maize productivity/yield at Chhindwara. Among the nutrient management practices, nutrient expert based SSNM gave significantly higher yield at Delhi location which was at par to the RDF. However, the SSNM gave 21.2 percent higher yields over to conventional fertilization practices (RDF) at Chhindwara.

Nutrient requirement of maize hybrids under different cropping systems

This trial was conducted at seven locations under maize-wheat system. Among the nutrient management practices, SSNM based on the nutrient expert gave 5.8, 2.2, 7.1, 13.3 and 14.5 per cent higher yield of maize over recommended fertilizer practices (RDF) at Jhabua, Banswara, Udaipur, Bajaura and Kanpur locations, respectively. However, the nutrient expert based SSNM practice of fertilizer management remained statistically at par to RDF at four locations *i.e.* Delhi, Karnal, Ludhiana and Banswara. Among the various maize hybrids tested, CMH-08-350 out-yielded at Jhabua while it remained at par to CMH-08-292 at Banswara and Ranchi over to others hybrids. The PMH-1 maize hybrid gave significantly higher yield over to others hybrids and which remained at par to PMH-3 at Ludhiana and Bajaura locations. At Karnal location the HQPM-1 maize hybrid gave significantly higher yield which remained on par with PMH-3 and PMH-4 maize hybrids. However, at Udaipur and Delhi centres PMH-3 maize hybrid out-yielded to all other tested maize hybrids.

In maize-chickpea system, 15.0 and 16.2 per cent higher grain yield of maize was obtained with SSNM at Kanpur and Bahraich locations, respectively over RDF. Among the various maize hybrids tested, CHM-08-292 out yielded over to all tested maize hybrids at both the locations which remained at par to PMH-4 maize hybrid at Kanpur and CMH-08-287 and PMH-1 maize hybrids at Bahraich. The adoption of SSNM gave 9.6 and 18.0 per cent higher maize grain yield over RDF at Ambikapur and Chhindwara locations in maize-mustard cropping sequence. At both the locations, PMH-3 maize hybrid out-yielded to all other maize hybrids which remained at par to PMH-1 hybrid at Ambikapur

The application of RDF in rice-maize system at Hyderabad gave significantly higher yield, which remained at par with SSNM based nutrient management. However, among the tested maize hybrids the PMH-1 gave significantly higher yield over to other hybrids except CMH-08-292 which remained at par with this. Among the maize hybrids tested as single crop under rainfed conations at two locations, CMH-08-287 gave significantly higher yield at Arbhavi while PMH-1 out-yielded at Karimnagar but remained at par with CMH-08-292. The SSNM based nutrient management practices resulted significantly higher yield at Arbhavi while it remained statistically same with RDF.

Water management in spring maize

The grain yield and irrigation water use of spring maize was affected remarkably with residue mulch and irrigation treatments. Residue mulch had significantly higher grain yield under most water management options except farmers practice. Precision irrigation practices saved upto 66 % irrigation water compared to farmers practice. In terms of maize yield, drip irrigation at 45 KPa with residue mulch was as

good as flood irrigation with water saving of 4232 m³/ha wherein the irrigation water productivity increased from 1.59 to 4.37 m³/ha.

Weed management strategies for diverse weed flora in maize based cropping systems

Pre-emergence application of Atrazine @ 1.0 kg/ha was found the most effective weed management treatment at Chhindwara (3.4 t/ha) and Jhabua (4.7 t/ha). While, at Arbhavi, pre-emergence application of Pendimethalin @1.0 kg/ha as followed by one hand weeding at 25 DAS was found the best treatment in controlling the complex weed flora and getting highest yield of maize (6.4t/ha).

Tillage, residue management and mulching in maize systems

The highest maize yield (5.02 t/ha) was observed under zero tillage management with crop residue retention in maize-wheat cropping system at Udaipur, which was 18.8 and 38.4 % significantly higher over bed planting and conventional tillage.

AGRONOMY**Detailed information for Agronomy section of AICRP report 2013**

The AICRP trials conducted in different zones on maize agronomy is summarized in the summary table below. Summary of coordinated agronomy trials 2013

| Name of The Zone | Name of The Centre | Trial Allotted | Result reported | Trial failed / not conducted |
|------------------|--------------------|----------------|-----------------|--|
| ZONE -I | Bajaura | 6 | 6 | - |
| | Kangra | 3 | 3 | - |
| | Almora | 3 | 2 | Not conducted SSNM trial |
| | Srinagar | 2 | 2 | - |
| | Udhampur | - | - | - |
| ZONE-II | Delhi | 4 | 4 | - |
| | Karnal | 2 | 2 | - |
| | Ludhiana | 2 | 1 | Spring maize trial on drip was conducted at BISA. |
| | Pantnagar | 2 | 1 | Failed |
| | Kanpur | 1 | 1 | |
| ZONE-III | Bhubaneswar | 2 | 2 | |
| | Dholi | 3 | 2 | |
| | Ranchi | 4 | 4 | - |
| | Varanasi | 1 | 1 | - |
| | Bahraich | 3 | 3 | |
| ZONE-IV | Arbhavi | 2 | 2 | - |
| | Hyderabad | 3 | 3 | - |
| | Karimnagar | 3 | 3 | - |
| | Kolhapur | 1 | 1 | - |
| | Vagarai | 3 | 2 | Not reported data of MAT II |
| ZONE-V | Ambikapur | 2 | 2 | - |
| | Banswara | 6 | 5 | One trial has been rejected due to poor population |
| | Chhindwara | 4 | 4 | |
| | Godhra | 2 | 2 | |
| | Jhabua | 1 | 1 | - |
| | Udaipur | 4 | 4 | - |

AGRONOMY

Salient achievements

The salient achievements of AICRP trials on maize agronomy conducted during kharif, 2013 at different centers across the country are summarized here. The major focused areas of the research trials were response of pre-release hybrids to nutrients, tillage study in relation to hybrids and nutrient management including site specific nutrient management, planting systems and intercropping and residue interactions under rain-fed conditions, water management in spring maize, weed management in maize and maize based cropping systems under different agro-ecologies.

Evaluation of pre release hybrids under varying nutrient levels:

The hybrids of different maturity groups were evaluated under three levels of nutrient i.e. 100:40:40, 150:50:60 and 200:60:80 kg/ha N: P₂O₅: K₂O. for early and extra early maturity while for medium and late maturity group the nutrient levels were 150:50:60, 200:65:80, 250:80:100 in all the zones.

Among the late maturing hybrids, in Zone I out of thirteen only two (PFMH-97157, P3580) at Bajaura, and four (HTMH-5106, MCH-45, PRO-384, GK-3103) at Kangra, in Zone III out of nine only four (CMH-08-381, CMH-09-464, P-3580 & Orbit) at Bahraich, in Zone IV out of twelve only two (P3580, HTMH-5106) at Hyderabad and four (CMH-08-381, P3580, MCH-46 & HTMH-5106) at Karimnagar, in Zone V out of nine only one (CP-333) at Udaipur were found significantly superior over to the best check of the respective locations. While, among medium maturity group the performance of hybrids in zone I out of three only one (EHL-161708) at Bajaura & Kangra, in zone III out of three only one (X-35A-189) at Bahraich, in zone IV out of six only two (PRO-383, JH-31470) at Arbhavi and in zone V out of three none were found significantly superior over to the best check of respective locations. Among early maturity hybrids, in zone I out of seven only five (K-21, DAS-MH-501, Bisco2238, EHL-162508, KNMH-4010141) at Almora and three (DAS-MH-501, Bisco-2238, EHL-162508) at Bajaura, in zone III out of four only two (DAS-MH-501, EHL-162508) at Bhubaneswar and Ranchi, in zone IV out of seven only five (K-21, DAS-MH-501, Bisco-2238, EHL-162508, KNMH-4010141) at Arbhavi and four (K-21, DAS-MH-501, EHL-162508, KNMH-4010141) at Karimnagar, in zone V out seven only one (DAS-MH-501) at Godhra and one (Bisco-2238) at Chhindwara were found significantly superior over to the best checks of respective locations.

Among extra early maturity hybrids, in zone I out of five only three (K-75, FH-3554, FH3556) at Bajaura, in zone III out of five, only two (K-75, FH-3558) at Dholi and two (K-75, FH-3554) at Ranchi, in zone IV out of three only one (FH-3556) at Vagarai, in zone V out five only one (FH-3554) at Ambikapur and two (FH-3555, FH-3554) at Godhra were found significantly superior over to the best checks of respective locations.

Late maturity hybrids responded up to 250:80:100 kg/ha N: P₂O₅: K₂O level at 5, 150:50:60 at 1 location out of 7 centers. The late maturity hybrids responded up to N: P₂O₅: K₂O levels of 250:80:100 Kg/ha at Bajaura (Zone I), Bahraich (Zone III), Hyderabad, Karimnagar (Zone IV) and upto 150:50:60 at Kangra (Zone I) centre. However, in Zone V at Udaipur centre late maturity hybrids didn't respond significantly.

The significant response of medium maturity hybrids to N: P₂O₅: K₂O level was up to 200:65:80 kg/ha at Bajaura, Kangra (Zone I), Hyderabad (Zone IV) and upto 250:80:100 at Bahraich (Zone III) and Arbhavi, (Zone IV). However, at Varanasi (Zone III) and at Chhindwara (Zone V) centre medium maturity hybrids didn't respond significantly.

The response of early maturing hybrids was up to 150:50:60 Kg/ha N: P₂O₅: K₂O at Bajaura (Zone I), Bhubaneswar, Ranchi (Zone III), whereas, the response was upto 200:60:80 Kg/ha N: P₂O₅: K₂O at Almora (Zone I) and Karimnagar (Zone IV). However, in Zone V at Godhra centre early maturity hybrids didn't respond significantly.

In extra early maturity hybrids, the response to different N: P₂O₅: K₂O level was recorded up to 150:50:60 kg/ha at Bajaura (Zone I), Ranchi (Zone III) and upto 200:60:80 kg/ha at Almora (Zone I), Dholi (Zone III), Kolhapur and Vagarai (Zone IV) centres.

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Table 1: Relative performance of pre-release extra early maturing hybrids at different NPK levels in Zone I.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Stover yield (kg/ha) | Plants (⁰⁰⁰ /ha) | Cobs (⁰⁰⁰ /ha) |
|--|--------------------|---------------------|---------|----------------------------|---------------------------------|-------------------------------|
| | | Almora | Bajaura | Almora | Bajaura | Bajaura |
| 100:40:40 | K-75 | 6701 | 9760 | 14630 | 73.2 | 77.0 |
| | FH-3554 | 7507 | 9273 | 14877 | 80.3 | 77.8 |
| | FH-3556 | 8343 | 10380 | 15309 | 81.9 | 78.7 |
| | Vivek QPM 9 (C) | 8451 | 7323 | 13395 | 63.9 | 61.1 |
| | Vivek Hybrid 9 (C) | 9314 | 8840 | 15679 | 81.9 | 81.5 |
| 150:50:60 | K-75 | 8677 | 11950 | 17037 | 74.1 | 76.5 |
| | FH-3554 | 9432 | 11597 | 16790 | 78.7 | 78.7 |
| | FH-3556 | 9646 | 11390 | 16951 | 78.2 | 77.8 |
| | Vivek QPM 9 (C) | 9009 | 8020 | 16605 | 66.7 | 65.7 |
| | Vivek Hybrid 9 (C) | 9605 | 9463 | 17901 | 70.6 | 74.0 |
| 200:60:80 | K-75 | 9909 | 12250 | 18519 | 79.6 | 80.5 |
| | FH-3554 | 11231 | 12320 | 20309 | 82.8 | 81.9 |
| | FH-3556 | 11371 | 11627 | 20062 | 81.9 | 78.2 |
| | Vivek QPM 9 (C) | 11323 | 9093 | 19259 | 65.9 | 64.9 |
| | Vivek Hybrid 9 (C) | 10873 | 10357 | 20123 | 77.8 | 77.2 |
| Location mean | | 9426.1 | 10242.9 | 17163.0 | 75.8 | 75.4 |
| C.D.(5%) AiBj-AiBk | | 1064.6 | 1542.0 | 2881.3 | 5.0 | 5.9 |
| C.D.(5%) AiBk-AjBk | | 1252.5 | 1559.3 | 3345.9 | 7.2 | 5.8 |
| F(5%) | | n.s. | n.s. | n.s. | s | n.s. |
| 100:40:40 | | 8063 | 9115 | 14778 | 76.2 | 75.2 |
| 150:50:60 | | 9274 | 10484 | 17057 | 73.7 | 74.5 |
| 200:60:80 | | 10941 | 11129 | 19654 | 77.6 | 76.6 |
| C.D.(5%) Ai-Aj | | 833.2 | 748.9 | 2185.9 | 5.7 | 2.5 |
| C.V.(%) Error A | | 8.7 | 7.2 | 12.6 | 7.5 | 3.2 |
| F(5%) | | s | s | s | n.s. | n.s. |
| K-75 | | 8429 | 11320 | 16728 | 75.6 | 78.0 |
| FH-3554 | | 9390 | 11063 | 17325 | 80.6 | 79.5 |
| FH-3556 | | 9787 | 11132 | 17440 | 80.7 | 78.2 |
| Vivek QPM 9 (C) | | 9594 | 8146 | 16420 | 65.5 | 63.9 |
| Vivek Hybrid 9 (C) | | 9930 | 9553 | 17901 | 76.8 | 77.5 |
| C.D.(5%)Bi-Bj | | 614.7 | 890.3 | 1663.5 | 2.9 | 3.4 |
| C.V.(%)ErrorB | | 6.7 | 8.9 | 10.0 | 3.9 | 4.7 |
| F(5%) | | s | s | n.s. | s | s |

Cont...

A-9

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plant height (cm) | | Days to 50% silking | |
|--|--------------------|-------------------|---------|---------------------|---------|
| | | Almora | Bajaura | Almora | Bajaura |
| 100:40:40 | K-75 | 200.1 | 190.7 | 54.3 | 55.7 |
| | FH-3554 | 191.4 | 193.3 | 54.0 | 53.3 |
| | FH-3556 | 176.0 | 179.3 | 54.3 | 55.7 |
| | Vivek QPM 9 (C) | 194.3 | 194.7 | 50.0 | 51.7 |
| | Vivek Hybrid 9 (C) | 192.7 | 187.0 | 50.3 | 52.0 |
| 150:50:60 | K-75 | 211.9 | 193.7 | 53.0 | 55.3 |
| | FH-3554 | 208.1 | 189.3 | 53.3 | 52.7 |
| | FH-3556 | 190.5 | 180.0 | 53.3 | 55.3 |
| | Vivek QPM 9 (C) | 196.6 | 195.0 | 52.3 | 51.7 |
| | Vivek Hybrid 9 (C) | 203.3 | 186.3 | 50.0 | 51.7 |
| 200:60:80 | K-75 | 217.7 | 192.3 | 52.0 | 54.7 |
| | FH-3554 | 213.3 | 200.0 | 51.7 | 53.7 |
| | FH-3556 | 198.3 | 185.0 | 52.3 | 54.7 |
| | Vivek QPM 9 (C) | 210.9 | 203.0 | 50.0 | 51.3 |
| | Vivek Hybrid 9 (C) | 204.0 | 196.3 | 48.7 | 51.3 |
| Location mean | | 200.6 | 191.1 | 52.0 | 53.4 |
| C.D.(5%) AiBj-AiBk | | 11.3 | 11.6 | 1.6 | 1.2 |
| C.D.(5%) AiBk-AjBk | | 16.4 | 12.0 | 1.8 | 1.5 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. |

| | | | | |
|-----------------|-------|-------|------|------|
| 100:40:40 | 190.9 | 189.0 | 52.6 | 53.7 |
| 150:50:60 | 202.1 | 188.9 | 52.4 | 53.3 |
| 200:60:80 | 208.9 | 195.3 | 50.9 | 53.1 |
| C.D.(5%) Ai-Aj | 13.2 | 6.2 | 1.2 | 1.0 |
| C.V.(%) Error A | 6.5 | 3.2 | 2.2 | 1.9 |
| F(5%) | s | n.s. | s | n.s. |

| | | | | |
|--------------------|-------|-------|------|------|
| K-75 | 209.9 | 192.2 | 53.1 | 55.2 |
| FH-3554 | 204.3 | 194.2 | 53.0 | 53.2 |
| FH-3556 | 188.3 | 181.4 | 53.3 | 55.2 |
| Vivek QPM 9 (C) | 200.6 | 197.6 | 50.8 | 51.6 |
| Vivek Hybrid 9 (C) | 200.0 | 189.9 | 49.7 | 51.7 |
| C.D.(5%)Bi-Bj | 6.5 | 6.7 | 0.9 | 0.7 |
| C.V.(%)ErrorB | 3.4 | 3.6 | 1.8 | 1.4 |
| F(5%) | s | s | s | s |

Table 2: Relative performance of pre-release extra early maturing hybrids at different NPK levels in Zone III.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | | Cobs ('000/ha) | |
|--|--------------------|---------------------|--------|-------------------------|----------------------------|------------------|--------|--------------------|--------|
| | | Dholi | Ranchi | Dholi | Ranchi | Dholi | Ranchi | Dholi | Ranchi |
| 100:40:40 | K-75 | 5893 | 5438 | 8511 | 8526 | 78.9 | 62.8 | 81.1 | 61.1 |
| | FH-3556 | 5626 | 5296 | 8667 | 7949 | 78.4 | 66.9 | 80.9 | 64.2 |
| | FH-3558 | 6249 | 5504 | 9000 | 8325 | 79.8 | 68.3 | 82.4 | 65.8 |
| | Vivek QPM 9 (C) | 5385 | 4731 | 7778 | 7234 | 79.8 | 65.6 | 80.0 | 63.1 |
| | Vivek Hybrid 9 (C) | 5770 | 4234 | 8800 | 6163 | 79.8 | 65.8 | 80.0 | 64.4 |
| 150:50:60 | K-75 | 6729 | 6404 | 9600 | 10226 | 79.1 | 70.6 | 81.8 | 67.8 |
| | FH-3556 | 6369 | 6544 | 9444 | 9987 | 78.2 | 68.9 | 79.3 | 66.1 |
| | FH-3558 | 7071 | 6171 | 10511 | 9996 | 80.2 | 67.8 | 80.9 | 65.0 |
| | Vivek QPM 9 (C) | 5794 | 5585 | 8333 | 8439 | 79.6 | 65.3 | 82.4 | 63.6 |
| | Vivek Hybrid 9 (C) | 6415 | 5046 | 9956 | 7449 | 79.3 | 65.8 | 81.1 | 63.6 |
| 200:60:80 | K-75 | 7404 | 6732 | 11489 | 10943 | 79.6 | 65.0 | 82.7 | 65.0 |
| | FH-3556 | 6959 | 6985 | 9511 | 10864 | 79.3 | 66.7 | 82.4 | 66.7 |
| | FH-3558 | 8211 | 6321 | 11956 | 10394 | 79.1 | 67.8 | 83.1 | 67.8 |
| | Vivek QPM 9 (C) | 6532 | 6153 | 8667 | 10202 | 78.7 | 67.2 | 82.2 | 67.2 |
| | Vivek Hybrid 9 (C) | 7271 | 6186 | 10133 | 9332 | 80.0 | 65.3 | 83.1 | 65.0 |
| Location mean | 6511.9 | 5822.1 | 9490.4 | 9068.5 | 79.3 | 66.6 | 81.6 | 65.1 | |
| C.D.(5%) AiBj-AiBk | 150.1 | 885.5 | 223.4 | 1474.5 | 1.4 | 4.7 | 3.4 | 5.0 | |
| C.D.(5%) AiBk-AjBk | 174.9 | 960.8 | 258.9 | 1936.4 | 1.5 | 8.0 | 3.7 | 8.2 | |
| F(5%) | s | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. | |

| | | | | | | | | |
|-----------------|-------|-------|-------|--------|------|------|------|------|
| 100:40:40 | 5785 | 5041 | 8551 | 7639 | 79.3 | 65.9 | 80.9 | 63.7 |
| 150:50:60 | 6475 | 5950 | 9569 | 9220 | 79.3 | 67.7 | 81.1 | 65.2 |
| 200:60:80 | 7275 | 6476 | 10351 | 10347 | 79.3 | 66.4 | 82.7 | 66.3 |
| C.D.(5%) Ai-Aj | 114.8 | 558.4 | 168.6 | 1446.8 | 0.8 | 6.9 | 2.3 | 6.9 |
| C.V.(%) Error A | 1.7 | 9.5 | 1.8 | 15.7 | 1.0 | 10.2 | 2.8 | 10.4 |
| F(5%) | s | s | s | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | |
|--------------------|------|-------|-------|-------|------|------|------|------|
| K-75 | 6675 | 6191 | 9867 | 9898 | 79.2 | 66.1 | 81.9 | 64.6 |
| FH-3556 | 6318 | 6275 | 9207 | 9600 | 78.7 | 67.5 | 80.9 | 65.6 |
| FH-3558 | 7177 | 5999 | 10489 | 9572 | 79.7 | 68.0 | 82.1 | 66.2 |
| Vivek QPM 9 (C) | 5904 | 5490 | 8259 | 8625 | 79.3 | 66.0 | 81.6 | 64.6 |
| Vivek Hybrid 9 (C) | 6486 | 5155 | 9630 | 7648 | 79.7 | 65.6 | 81.4 | 64.4 |
| C.D.(5%)Bi-Bj | 86.6 | 511.3 | 129.0 | 851.3 | 0.8 | 2.7 | 1.9 | 2.9 |
| C.V.(%)ErrorB | 1.4 | 9.0 | 1.4 | 9.6 | 1.1 | 4.2 | 2.4 | 4.6 |
| F(5%) | s | s | s | s | n.s. | n.s. | n.s. | n.s. |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plant height (cm) | | Days of 50% tasseling | Days of 50% silking | | Net return (Rs/ha) | B:C ratio |
|--|--------------------|-------------------|--------|-----------------------------|---------------------|--------|--------------------------|-----------|
| | | Dholi | Ranchi | Dholi | Dholi | Ranchi | Ranchi | Ranchi |
| 100:40:40 | K-75 | 172.6 | 225.7 | 46.3 | 49.3 | 50.3 | 41568 | 2.0 |
| | FH-3556 | 153.1 | 215.1 | 44.3 | 47.7 | 51.0 | 39821 | 1.9 |
| | FH-3558 | 172.0 | 217.0 | 43.3 | 46.0 | 51.0 | 42179 | 2.0 |
| | Vivek QPM 9 (C) | 182.0 | 220.2 | 44.7 | 47.3 | 52.0 | 33434 | 1.6 |
| | Vivek Hybrid 9 (C) | 181.3 | 209.7 | 44.3 | 47.3 | 51.0 | 28292 | 1.3 |
| 150:50:60 | K-75 | 186.0 | 233.8 | 47.3 | 50.7 | 50.7 | 51671 | 2.3 |
| | FH-3556 | 172.4 | 223.6 | 45.3 | 48.0 | 50.3 | 52478 | 2.3 |
| | FH-3558 | 181.6 | 237.3 | 44.3 | 46.3 | 50.3 | 48419 | 2.1 |
| | Vivek QPM 9 (C) | 184.5 | 221.9 | 44.7 | 47.0 | 49.3 | 41562 | 1.8 |
| | Vivek Hybrid 9 (C) | 184.0 | 217.1 | 44.7 | 47.7 | 49.3 | 35304 | 1.5 |
| 200:60:80 | K-75 | 194.1 | 234.1 | 47.3 | 49.7 | 49.3 | 53017 | 2.2 |
| | FH-3556 | 175.2 | 224.0 | 46.3 | 49.0 | 50.0 | 56583 | 2.3 |
| | FH-3558 | 183.2 | 238.1 | 43.7 | 46.3 | 49.0 | 49106 | 2.0 |
| | Vivek QPM 9 (C) | 185.1 | 239.4 | 45.3 | 47.0 | 50.0 | 46755 | 1.9 |
| | Vivek Hybrid 9 (C) | 187.2 | 217.6 | 45.3 | 47.0 | 49.0 | 46176 | 1.9 |
| Location mean | | 179.6 | 225.0 | 45.2 | 47.8 | 50.2 | 44424.3 | 1.9 |
| C.D.(5%) AiBj-AiBk | | 1.6 | 19.0 | 1.1 | 1.2 | 1.0 | 9843.0 | 0.4 |
| C.D.(5%) AiBk-AjBk | | 1.8 | 24.3 | 1.3 | 1.2 | 2.5 | 10730.3 | 0.5 |
| F(5%) | | s | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|-----------------|-------|-------|------|------|------|--------|------|
| 100:40:40 | 172.2 | 217.5 | 44.6 | 47.5 | 51.1 | 37059 | 1.8 |
| 150:50:60 | 181.7 | 226.7 | 45.3 | 47.9 | 50.0 | 45887 | 2.0 |
| 200:60:80 | 185.0 | 230.6 | 45.6 | 47.8 | 49.5 | 50327 | 2.0 |
| C.D.(5%) Ai-Aj | 1.2 | 17.6 | 0.9 | 0.5 | 2.3 | 6298.0 | 0.3 |
| C.V.(%) Error A | 0.7 | 7.7 | 1.9 | 1.1 | 4.6 | 14.0 | 14.2 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | | | |
|--------------------|-------|-------|------|------|------|--------|------|
| K-75 | 184.2 | 231.2 | 47.0 | 49.9 | 50.1 | 48752 | 2.1 |
| FH-3556 | 166.9 | 220.9 | 45.3 | 48.2 | 50.4 | 49627 | 2.2 |
| FH-3558 | 178.9 | 230.8 | 43.8 | 46.2 | 50.1 | 46568 | 2.0 |
| Vivek QPM 9 (C) | 183.9 | 227.2 | 44.9 | 47.1 | 50.4 | 40584 | 1.8 |
| Vivek Hybrid 9 (C) | 184.2 | 214.8 | 44.8 | 47.3 | 49.8 | 36590 | 1.6 |
| C.D.(5%)Bi-Bj | 0.9 | 11.0 | 0.6 | 0.7 | 0.6 | 5682.8 | 0.2 |
| C.V.(%)ErrorB | 0.5 | 5.0 | 1.4 | 1.4 | 1.2 | 13.1 | 13.2 |
| F(5%) | s | s | s | s | n.s. | s | s |

Table 3: Relative performance of pre-release extra early maturing hybrids at different NPK levels in Zone IV.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | | Stover yield (kg/ha) | Cobs (⁰⁰⁰ /ha) |
|--|--------------------|------------------------|---------|----------------------|---------|----------------------------|-------------------------------|
| | | Kolhapur | Vagarai | Kolhapur | Vagarai | Vagarai | Vagarai |
| 100:40:40 | FH-3556 | 3647 | 5997 | 4444 | 6750 | 10417 | 63.4 |
| | Vivek QPM 9 (C) | 4031 | 4324 | 4869 | 4931 | 8433 | 50.0 |
| | Vivek Hybrid 9 (C) | 3813 | 4578 | 4604 | 5395 | 9995 | 56.0 |
| 150:50:60 | FH-3556 | 4154 | 6707 | 5051 | 7594 | 10396 | 64.4 |
| | Vivek QPM 9 (C) | 4590 | 5588 | 5536 | 6435 | 8914 | 48.6 |
| | Vivek Hybrid 9 (C) | 4759 | 4926 | 5747 | 5855 | 10182 | 57.2 |
| 200:60:80 | FH-3556 | 4868 | 6646 | 5924 | 7826 | 10660 | 63.0 |
| | Vivek QPM 9 (C) | 5154 | 5979 | 6227 | 6737 | 8912 | 48.1 |
| | Vivek Hybrid 9 (C) | 5233 | 5026 | 6282 | 5873 | 10204 | 57.4 |
| Location mean | | 4472.1 | 5530.2 | 5409.4 | 6377.5 | 9790.3 | 56.5 |
| C.D.(5%) AiBj-AiBk | | 401.3 | 610.8 | 477.3 | 417.0 | 1890.0 | 2.2 |
| C.D.(5%) AiBk-AjBk | | 606.7 | 700.8 | 707.8 | 497.4 | 2259.6 | 2.2 |
| F(5%) | | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | |
|-----------------|-------|-------|-------|-------|--------|------|
| 100:40:40 | 3830 | 4966 | 4639 | 5692 | 9615 | 56.5 |
| 150:50:60 | 4501 | 5740 | 5444 | 6628 | 9831 | 56.7 |
| 200:60:80 | 5085 | 5884 | 6144 | 6812 | 9925 | 56.2 |
| C.D.(5%) Ai-Aj | 515.4 | 499.6 | 596.5 | 367.6 | 1673.1 | 1.4 |
| C.V.(%) Error A | 8.8 | 6.9 | 8.4 | 4.4 | 13.1 | 1.9 |
| F(5%) | s | s | s | s | n.s. | n.s. |

| | | | | | | |
|--------------------|-------|-------|-------|-------|--------|------|
| FH-3556 | 4223 | 6450 | 5140 | 7390 | 10491 | 63.6 |
| Vivek QPM 9 (C) | 4592 | 5297 | 5544 | 6034 | 8753 | 48.9 |
| Vivek Hybrid 9 (C) | 4602 | 4844 | 5544 | 5708 | 10127 | 56.9 |
| C.D.(5%)Bi-Bj | 231.7 | 352.6 | 275.6 | 240.8 | 1091.2 | 1.2 |
| C.V.(%)ErrorB | 5.0 | 6.2 | 5.0 | 3.7 | 10.9 | 2.1 |
| F(5%) | s | s | s | s | s | s |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plants (⁰ 000/ha) | | Plant height (cm) | | Days to 50% tasseling | Days to 50% silking | |
|--|--------------------|----------------------------------|---------|----------------------|---------|-----------------------------|---------------------|----------|
| | | Kolhapur | Vagarai | Kolhapur | Vagarai | Vagarai | Vagarai | Kolhapur |
| 100:40:40 | FH-3556 | 62.2 | 65.5 | 115.7 | 139.3 | 47.3 | 50.0 | 56.0 |
| | Vivek QPM 9 (C) | 58.9 | 53.0 | 129.7 | 142.6 | 44.0 | 47.7 | 56.7 |
| | Vivek Hybrid 9 (C) | 63.8 | 58.6 | 129.3 | 146.5 | 44.7 | 48.0 | 55.7 |
| 150:50:60 | FH-3556 | 61.3 | 65.3 | 128.0 | 142.4 | 47.0 | 49.7 | 56.0 |
| | Vivek QPM 9 (C) | 66.7 | 52.1 | 136.7 | 147.4 | 46.7 | 48.7 | 56.0 |
| | Vivek Hybrid 9 (C) | 66.4 | 58.3 | 136.3 | 147.7 | 44.3 | 47.7 | 56.0 |
| 200:60:80 | FH-3556 | 64.7 | 64.6 | 133.0 | 146.5 | 47.3 | 49.7 | 55.3 |
| | Vivek QPM 9 (C) | 64.2 | 49.8 | 150.7 | 148.3 | 45.3 | 47.7 | 55.7 |
| | Vivek Hybrid 9 (C) | 64.9 | 58.3 | 146.7 | 151.7 | 44.0 | 47.7 | 55.3 |
| Location mean | | 63.7 | 58.4 | 134.0 | 145.8 | 45.6 | 48.5 | 55.9 |
| C.D.(5%) AiBj-AiBk | | 6.4 | 1.8 | 16.8 | 4.9 | 1.2 | 1.1 | 2.6 |
| C.D.(5%) AiBk-AjBk | | 9.6 | 2.1 | 19.7 | 4.7 | 1.1 | 1.8 | 3.1 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|-----------------|------|------|-------|-------|------|------|------|
| 100:40:40 | 61.6 | 59.0 | 124.9 | 142.8 | 45.3 | 48.6 | 56.1 |
| 150:50:60 | 64.8 | 58.6 | 133.7 | 145.8 | 46.0 | 48.7 | 56.0 |
| 200:60:80 | 64.6 | 57.6 | 143.4 | 148.8 | 45.6 | 48.3 | 55.4 |
| C.D.(5%) Ai-Aj | 8.1 | 1.5 | 14.4 | 2.5 | 0.6 | 1.6 | 2.3 |
| C.V.(%) Error A | 9.8 | 2.0 | 8.2 | 1.3 | 1.0 | 2.5 | 3.2 |
| F(5%) | n.s. | n.s. | n.s. | s | n.s. | n.s. | n.s. |

| | | | | | | | |
|--------------------|------|------|-------|-------|------|------|------|
| FH-3556 | 62.7 | 65.1 | 125.6 | 142.7 | 47.2 | 49.8 | 55.8 |
| Vivek QPM 9 (C) | 63.3 | 51.6 | 139.0 | 146.1 | 45.3 | 48.0 | 56.1 |
| Vivek Hybrid 9 (C) | 65.0 | 58.4 | 137.4 | 148.6 | 44.3 | 47.8 | 55.7 |
| C.D.(5%)Bi-Bj | 3.7 | 1.0 | 9.7 | 2.8 | 0.7 | 0.6 | 1.5 |
| C.V.(%)ErrorB | 5.6 | 1.7 | 7.0 | 1.9 | 1.4 | 1.3 | 2.6 |
| F(5%) | n.s. | s | s | s | s | s | n.s. |

Table 4: Relative performance of pre-release extra early maturing hybrids at different NPK levels in Zone V.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Stover yield (kg/ha) | | Plants (⁰⁰⁰ /ha) | |
|--|--------------------|------------------------|--------|-------------------------|--------|---------------------------------|--------|
| | | Ambikapur | Godhra | Ambikapur | Godhra | Ambikapur | Godhra |
| 100:40:40 | K-75 | 4104 | 4800 | 6000 | 5333 | 63.6 | 66.2 |
| | FH-3555 | 4296 | 4578 | 6311 | 5378 | 63.6 | 58.2 |
| | FH3554 | 4845 | 4800 | 7124 | 5644 | 64.2 | 61.8 |
| | Vivek QPM 9 (C) | 3955 | 3600 | 5778 | 4444 | 65.1 | 61.3 |
| | Vivek Hybrid 9 (C) | 4740 | 4000 | 6956 | 4711 | 62.4 | 61.3 |
| 150:50:60 | K-75 | 5683 | 4578 | 8305 | 5422 | 63.1 | 60.0 |
| | FH-3555 | 4776 | 6000 | 6995 | 6933 | 64.2 | 59.6 |
| | FH3554 | 5606 | 5511 | 8241 | 6222 | 64.4 | 62.7 |
| | Vivek QPM 9 (C) | 4493 | 3733 | 6616 | 4622 | 63.1 | 59.1 |
| | Vivek Hybrid 9 (C) | 5073 | 5067 | 7440 | 5911 | 63.8 | 63.6 |
| 200:60:80 | K-75 | 6135 | 5511 | 9235 | 6400 | 62.9 | 60.9 |
| | FH-3555 | 5301 | 8044 | 7754 | 9111 | 63.1 | 61.8 |
| | FH3554 | 6282 | 7022 | 9387 | 8133 | 64.9 | 59.1 |
| | Vivek QPM 9 (C) | 4819 | 5689 | 7530 | 6844 | 63.3 | 63.1 |
| | Vivek Hybrid 9 (C) | 5454 | 5333 | 8000 | 6222 | 63.6 | 60.4 |
| Location mean | | 5037.4 | 5217.8 | 7444.9 | 6088.9 | 63.7 | 61.3 |
| C.D.(5%) AiBj-AiBk | | 834.7 | 598.0 | 1367.4 | 653.4 | 3.0 | 4.4 |
| C.D.(5%) AiBk-AjBk | | 824.7 | 648.1 | 1388.8 | 699.9 | 3.2 | 5.2 |
| F(5%) | | n.s. | s | n.s. | s | n.s. | s |

| | | | | | | |
|-----------------|-------|-------|--------|--------|------|------|
| 100:40:40 | 4388 | 4356 | 6433.7 | 5102.2 | 63.8 | 61.8 |
| 150:50:60 | 5126 | 4978 | 7519.4 | 5822.2 | 63.7 | 61.0 |
| 200:60:80 | 5598 | 6320 | 8381.4 | 7342.2 | 63.6 | 61.1 |
| C.D.(5%) Ai-Aj | 361.0 | 375.8 | 677.4 | 395.6 | 1.8 | 3.5 |
| C.V.(%) Error A | 7.1 | 7.1 | 9.0 | 6.4 | 2.7 | 5.6 |
| F(5%) | s | s | s | s | n.s. | n.s. |

| | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|
| K-75 | 5308 | 4963 | 7847 | 5719 | 63.2 | 62.4 |
| FH-3555 | 4791 | 6207 | 7020 | 7141 | 63.6 | 59.9 |
| FH3554 | 5577 | 5778 | 8251 | 6667 | 64.5 | 61.2 |
| Vivek QPM 9 (C) | 4422 | 4341 | 6641 | 5304 | 63.9 | 61.2 |
| Vivek Hybrid 9 (C) | 5089 | 4800 | 7465 | 5615 | 63.3 | 61.8 |
| C.D.(5%)Bi-Bj | 481.9 | 345.3 | 789.5 | 377.2 | 1.8 | 2.5 |
| C.V.(%)ErrorB | 9.8 | 6.8 | 10.9 | 6.4 | 2.8 | 4.2 |
| F(5%) | s | s | s | s | n.s. | n.s. |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Cobs (*000/ha) | | Plant height (cm) | | Days to 50% silking | | Net return (Rs./ha) | B:C ratio |
|--|--------------------|-------------------|--------|----------------------|--------|---------------------|--------|---------------------------|--------------|
| | | Ambikapur | Godhra | Ambikapur | Godhra | Ambikapur | Godhra | Ambikapur | |
| 100:40:40 | K-75 | 63.0 | 66.2 | 191.6 | 155.0 | 50.7 | 51.7 | 26498 | 1.2 |
| | FH-3555 | 62.0 | 58.7 | 160.9 | 146.7 | 50.7 | 52.3 | 28964 | 1.4 |
| | FH3554 | 64.9 | 63.1 | 197.2 | 145.0 | 50.7 | 51.0 | 34969 | 1.6 |
| | Vivek QPM 9 (C) | 62.1 | 64.9 | 199.0 | 156.7 | 49.0 | 49.3 | 24683 | 1.2 |
| | Vivek Hybrid 9 (C) | 62.9 | 61.3 | 198.6 | 155.0 | 48.3 | 48.7 | 33940 | 1.6 |
| 150:50:60 | K-75 | 64.7 | 61.3 | 204.8 | 161.7 | 51.0 | 51.3 | 42446 | 1.8 |
| | FH-3555 | 62.5 | 59.6 | 197.6 | 155.0 | 50.7 | 52.7 | 32024 | 1.4 |
| | FH3554 | 65.4 | 61.8 | 210.8 | 148.3 | 51.0 | 49.0 | 41616 | 1.8 |
| | Vivek QPM 9 (C) | 62.3 | 61.3 | 203.4 | 166.7 | 48.7 | 47.7 | 28717 | 1.2 |
| | Vivek Hybrid 9 (C) | 65.5 | 64.9 | 208.4 | 155.0 | 49.3 | 47.7 | 35296 | 1.5 |
| 200:60:80 | K-75 | 64.9 | 60.9 | 222.9 | 168.3 | 51.0 | 50.7 | 46055 | 1.8 |
| | FH-3555 | 63.2 | 63.1 | 201.2 | 155.0 | 52.3 | 50.3 | 36343 | 1.4 |
| | FH3554 | 66.7 | 59.6 | 216.0 | 170.0 | 50.7 | 51.3 | 47422 | 1.9 |
| | Vivek QPM 9 (C) | 64.9 | 64.9 | 206.7 | 163.3 | 49.3 | 47.3 | 30722 | 1.2 |
| | Vivek Hybrid 9 (C) | 66.2 | 60.4 | 214.9 | 165.0 | 49.3 | 47.3 | 38031 | 1.5 |
| Location mean | | 64.1 | 62.1 | 202.3 | 157.8 | 50.2 | 49.9 | 35181.7 | 1.5 |
| C.D.(5%) AiBj-AiBk | | 2.9 | 5.2 | 25.4 | 7.6 | 1.4 | 0.8 | 9699.2 | 0.4 |
| C.D.(5%) AiBk-AjBk | | 2.7 | 5.1 | 27.2 | 7.1 | 1.8 | 0.8 | 9551.8 | 0.4 |
| F(5%) | | n.s. | n.s. | n.s. | s | n.s. | s | n.s. | n.s. |

| | | | | | | | | |
|-----------------|------|------|-------|-------|------|------|--------|------|
| 100:40:40 | 63.0 | 62.8 | 189.5 | 151.7 | 49.9 | 50.6 | 29811 | 1.4 |
| 150:50:60 | 64.1 | 61.8 | 205.0 | 157.3 | 50.1 | 49.7 | 36020 | 1.5 |
| 200:60:80 | 65.2 | 61.8 | 212.3 | 164.3 | 50.5 | 49.4 | 39715 | 1.6 |
| C.D.(5%) Ai-Aj | 0.8 | 2.1 | 15.3 | 2.2 | 1.3 | 0.5 | 4119.5 | 0.2 |
| C.V.(%) Error A | 1.3 | 3.3 | 7.5 | 1.4 | 2.6 | 1.0 | 11.6 | 10.8 |
| F(5%) | s | n.s. | s | s | n.s. | s | s | n.s. |

| | | | | | | | | |
|--------------------|------|------|-------|-------|------|------|--------|------|
| K-75 | 64.2 | 62.8 | 206.4 | 161.7 | 50.9 | 51.2 | 38333 | 1.6 |
| FH-3555 | 62.6 | 60.4 | 186.6 | 152.2 | 51.2 | 51.8 | 32443 | 1.4 |
| FH3554 | 65.7 | 61.5 | 208.0 | 154.4 | 50.8 | 50.4 | 41336 | 1.8 |
| Vivek QPM 9 (C) | 63.1 | 63.7 | 203.0 | 162.2 | 49.0 | 48.1 | 28041 | 1.2 |
| Vivek Hybrid 9 (C) | 64.9 | 62.2 | 207.3 | 158.3 | 49.0 | 47.9 | 35756 | 1.5 |
| C.D.(5%)Bi-Bj | 1.7 | 3.0 | 14.7 | 4.4 | 0.8 | 0.4 | 5599.8 | 0.2 |
| C.V.(%)ErrorB | 2.7 | 5.0 | 7.4 | 2.9 | 1.7 | 0.9 | 16.4 | 16.0 |
| F(5%) | s | n.s. | s | s | s | s | s | s |

Table 5: Relative performance of pre-release early maturing hybrids at different NPK levels in Zone I.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Stover yield (kg/ha) | Plants (⁰ 000/ha) | Cobs (⁰ 000/ha) |
|--|--------------|------------------------|---------|----------------------------|----------------------------------|--------------------------------|
| | | Almora | Bajaura | Almora | Bajaura | Bajaura |
| 100:40:40 | K-21 | 5972 | 8453 | 9074 | 75.8 | 73.8 |
| | DAS-MH-501 | 6744 | 10460 | 15062 | 77.2 | 75.8 |
| | Bisco 2238 | 6649 | 9730 | 12284 | 82.7 | 81.4 |
| | EHL 162508 | 5283 | 9387 | 13951 | 81.4 | 79.4 |
| | KNMH-4010141 | 7555 | 7663 | 15864 | 80.5 | 75.2 |
| | PMH 5 (C) | 1601 | 7913 | 3272 | 82.5 | 80.5 |
| | Prakash (C) | 2698 | 6027 | 5370 | 79.9 | 77.5 |
| 150:50:60 | K-21 | 7473 | 9560 | 12160 | 79.7 | 79.4 |
| | DAS-MH-501 | 8386 | 11543 | 18210 | 79.1 | 78.6 |
| | Bisco 2238 | 7781 | 10530 | 13889 | 82.2 | 80.2 |
| | EHL 162508 | 8288 | 11683 | 17531 | 82.4 | 80.3 |
| | KNMH-4010141 | 8444 | 10070 | 17654 | 82.5 | 78.0 |
| | PMH 5 (C) | 2687 | 8710 | 5802 | 82.5 | 81.4 |
| | Prakash (C) | 4707 | 7017 | 8889 | 80.8 | 80.2 |
| 200:60:80 | K-21 | 10075 | 10283 | 15556 | 81.9 | 78.6 |
| | DAS-MH-501 | 9514 | 11423 | 18951 | 80.0 | 80.2 |
| | Bisco 2238 | 9527 | 11037 | 13765 | 81.9 | 80.5 |
| | EHL 162508 | 9570 | 11527 | 18642 | 80.0 | 78.6 |
| | KNMH-4010141 | 10060 | 9923 | 19444 | 81.4 | 75.8 |
| | PMH 5 (C) | 3560 | 9583 | 7654 | 83.0 | 82.2 |
| | Prakash (C) | 5564 | 9123 | 8765 | 80.5 | 78.3 |
| Location mean | | 6768.5 | 9602.2 | 12942.4 | 80.9 | 78.9 |
| C.D.(5%) AiBj-AiBk | | 671.7 | 1427.4 | 1582.9 | 3.9 | 4.5 |
| C.D.(5%) AiBk-AjBk | | 760.9 | 1523.0 | 1569.5 | 3.7 | 5.3 |
| F(5%) | | s | n.s. | s | n.s. | n.s. |
| 100:40:40 | | 5215 | 8519 | 10697 | 80.0 | 77.7 |
| 150:50:60 | | 6824 | 9873 | 13448 | 81.3 | 79.7 |
| 200:60:80 | | 8267 | 10414 | 14683 | 81.2 | 79.2 |
| C.D.(5%) Ai-Aj | | 451.4 | 781.2 | 581.7 | 0.8 | 3.3 |
| C.V.(%) Error A | | 7.8 | 9.5 | 5.2 | 1.1 | 4.9 |
| F(5%) | | s | s | s | s | n.s. |
| K-21 | | 7840 | 9432 | 12263 | 79.1 | 77.3 |
| DAS-MH-501 | | 8215 | 11142 | 17407 | 78.8 | 78.2 |
| Bisco 2238 | | 7986 | 10432 | 13313 | 82.3 | 80.7 |
| EHL 162508 | | 7714 | 10866 | 16708 | 81.3 | 79.4 |
| KNMH-4010141 | | 8686 | 9219 | 17654 | 81.5 | 76.3 |
| PMH 5 (C) | | 2616 | 8736 | 5576 | 82.7 | 81.4 |
| Prakash (C) | | 4323 | 7389 | 7675 | 80.4 | 78.7 |
| C.D.(5%)Bi-Bj | | 387.8 | 824.1 | 913.9 | 2.3 | 2.6 |
| C.V.(%)ErrorB | | 6.0 | 9.0 | 7.4 | 2.9 | 3.5 |
| F(5%) | | s | s | s | s | s |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plant height (cm) | | Days to 50% silking | |
|--|--------------|----------------------|---------|---------------------|---------|
| | | Almora | Bajaura | Almora | Bajaura |
| 100:40:40 | K-21 | 191.5 | 234.3 | 55.0 | 56.0 |
| | DAS-MH-501 | 225.0 | 231.3 | 55.7 | 56.0 |
| | Bisco 2238 | 200.5 | 224.0 | 52.7 | 55.7 |
| | EHL 162508 | 224.1 | 237.7 | 57.0 | 57.7 |
| | KNMH-4010141 | 227.3 | 235.7 | 57.3 | 57.0 |
| | PMH 5 (C) | 200.8 | 220.7 | 56.0 | 56.0 |
| | Prakash (C) | 193.4 | 207.0 | 57.7 | 55.3 |
| 150:50:60 | K-21 | 234.5 | 236.7 | 55.0 | 54.7 |
| | DAS-MH-501 | 248.9 | 244.3 | 56.0 | 56.3 |
| | Bisco 2238 | 220.4 | 219.7 | 53.0 | 55.3 |
| | EHL 162508 | 252.4 | 246.0 | 55.0 | 57.3 |
| | KNMH-4010141 | 249.5 | 231.7 | 58.7 | 57.0 |
| | PMH 5 (C) | 224.1 | 223.0 | 57.3 | 55.7 |
| | Prakash (C) | 228.9 | 218.0 | 57.0 | 55.3 |
| 200:60:80 | K-21 | 243.4 | 225.7 | 54.0 | 55.3 |
| | DAS-MH-501 | 247.1 | 239.3 | 54.3 | 55.7 |
| | Bisco 2238 | 213.5 | 214.7 | 52.0 | 54.7 |
| | EHL 162508 | 254.3 | 241.3 | 57.0 | 57.3 |
| | KNMH-4010141 | 253.5 | 236.7 | 58.3 | 56.7 |
| | PMH 5 (C) | 228.1 | 222.0 | 55.3 | 55.0 |
| | Prakash (C) | 230.4 | 210.7 | 57.0 | 54.7 |
| Location mean | | 228.2 | 228.6 | 55.8 | 55.9 |
| C.D.(5%) AiBj-AiBk | | 17.2 | 7.5 | 1.2 | 1.4 |
| C.D.(5%) AiBk-AjBk | | 28.9 | 10.1 | 1.2 | 1.6 |
| F(5%) | | n.s. | s | s | n.s. |

| | | | | |
|-----------------|-------|-------|------|------|
| 100:40:40 | 209.0 | 227.2 | 55.9 | 56.2 |
| 150:50:60 | 237.0 | 231.3 | 56.0 | 56.0 |
| 200:60:80 | 238.6 | 227.2 | 55.4 | 55.6 |
| C.D.(5%) Ai-Aj | 24.4 | 7.4 | 0.4 | 1.0 |
| C.V.(%) Error A | 12.5 | 3.8 | 0.9 | 2.0 |
| F(5%) | s | n.s. | s | n.s. |

| | | | | |
|---------------|-------|-------|------|------|
| K-21 | 223.1 | 232.2 | 54.7 | 55.3 |
| DAS-MH-501 | 240.3 | 238.3 | 55.3 | 56.0 |
| Bisco 2238 | 211.5 | 219.4 | 52.6 | 55.2 |
| EHL 162508 | 243.6 | 241.7 | 56.3 | 57.4 |
| KNMH-4010141 | 243.5 | 234.7 | 58.1 | 56.9 |
| PMH 5 (C) | 217.7 | 221.9 | 56.2 | 55.6 |
| Prakash (C) | 217.6 | 211.9 | 57.2 | 55.1 |
| C.D.(5%)Bi-Bj | 10.0 | 4.4 | 0.7 | 0.8 |
| C.V.(%)ErrorB | 4.6 | 2.0 | 1.3 | 1.5 |
| F(5%) | s | s | s | s |

Table 6: Relative performance of pre-release early maturing hybrids at different NPK levels in Zone III.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | | Stover yield (kg/ha) | | Plants (^{'000} /ha) | |
|--|-------------|------------------------|--------|----------------------|--------|----------------------------|--------|----------------------------------|--------|
| | | Bhubnesh. | Ranchi | Bhubnesh. | Ranchi | Bhubnesh. | Ranchi | Bhubnesh. | Ranchi |
| 100:40:40 | DAS-MH-501 | 4667 | 5911 | 6000 | 8994 | 53.8 | 66.4 | | |
| | EHL 162508 | 5022 | 6018 | 6400 | 9504 | 54.4 | 65.6 | | |
| | Prakash (C) | 3622 | 4385 | 4489 | 7031 | 54.2 | 65.3 | | |
| | PMH 5 (C) | 3978 | 4359 | 5044 | 7140 | 54.2 | 67.8 | | |
| 150:50:60 | DAS-MH-501 | 5000 | 6971 | 6178 | 10205 | 53.1 | 68.3 | | |
| | EHL 162508 | 5244 | 7083 | 6733 | 11049 | 54.4 | 65.6 | | |
| | Prakash (C) | 4111 | 5207 | 5067 | 8300 | 54.0 | 66.9 | | |
| | PMH 5 (C) | 4578 | 5488 | 5622 | 8685 | 53.8 | 65.8 | | |
| 200:60:80 | DAS-MH-501 | 5222 | 7466 | 6622 | 10951 | 53.6 | 67.8 | | |
| | EHL 162508 | 5489 | 7570 | 6956 | 11405 | 53.3 | 66.7 | | |
| | Prakash (C) | 4333 | 5622 | 5289 | 9420 | 54.0 | 66.7 | | |
| | PMH 5 (C) | 4578 | 5854 | 5733 | 9236 | 52.7 | 66.7 | | |
| Location mean | | 4653.7 | 5994.3 | 5844.4 | 9326.6 | 53.8 | 66.6 | | |
| C.D.(5%) AiBj-AiBk | | 221.7 | 1008.0 | 274.5 | 1520.6 | 1.9 | 4.7 | | |
| C.D.(5%) AiBk-AjBk | | 269.3 | 1037.8 | 327.5 | 1555.4 | 2.1 | 4.4 | | |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | | |

| | | | | | | |
|-----------------|-------|-------|-------|-------|------|------|
| 100:40:40 | 4322 | 5168 | 5483 | 8167 | 54.2 | 66.3 |
| 150:50:60 | 4733 | 6187 | 5900 | 9560 | 53.8 | 66.7 |
| 200:60:80 | 4906 | 6628 | 6150 | 10253 | 53.4 | 66.9 |
| C.D.(5%) Ai-Aj | 192.4 | 575.0 | 229.8 | 848.1 | 1.3 | 1.6 |
| C.V.(%) Error A | 3.6 | 8.5 | 3.5 | 8.0 | 2.1 | 2.1 |
| F(5%) | s | s | s | s | n.s. | n.s. |

| | | | | | | |
|---------------|-------|-------|-------|-------|------|------|
| DAS-MH-501 | 4963 | 6783 | 6267 | 10050 | 53.5 | 67.5 |
| EHL 162508 | 5252 | 6890 | 6696 | 10653 | 54.1 | 65.9 |
| Prakash (C) | 4022 | 5071 | 4948 | 8250 | 54.1 | 66.3 |
| PMH 5 (C) | 4378 | 5234 | 5467 | 8354 | 53.6 | 66.8 |
| C.D.(5%)Bi-Bj | 128.0 | 582.0 | 158.5 | 877.9 | 1.1 | 2.7 |
| C.V.(%)ErrorB | 2.8 | 9.8 | 2.7 | 9.5 | 2.1 | 4.1 |
| F(5%) | s | s | s | s | n.s. | n.s. |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Cobs (⁰⁰⁰ /ha) | | Plant height (cm) | | Days to 50% silking | | Net return (Rs/ha) | B:C ratio |
|--|-------------|-------------------------------|--------|----------------------|--------|---------------------|--------|--------------------------|--------------|
| | | Bhubnesh | Ranchi | Bhubnesh | Ranchi | Bhubnesh | Ranchi | Ranchi | Ranchi |
| 100:40:40 | DAS-MH-501 | 54.0 | 63.6 | 140.2 | 230.6 | 52.3 | 53.0 | 47081 | 2.2 |
| | EHL 162508 | 54.4 | 63.9 | 133.6 | 238.9 | 51.7 | 55.0 | 48352 | 2.3 |
| | Prakash (C) | 54.2 | 63.6 | 136.7 | 199.4 | 51.3 | 53.0 | 29615 | 1.4 |
| | PMH 5 (C) | 54.4 | 66.4 | 148.3 | 203.7 | 49.0 | 53.0 | 29424 | 1.4 |
| 150:50:60 | DAS-MH-501 | 53.3 | 66.7 | 163.0 | 229.7 | 52.3 | 52.7 | 57449 | 2.5 |
| | EHL 162508 | 54.4 | 63.9 | 145.5 | 243.1 | 51.0 | 51.7 | 58878 | 2.6 |
| | Prakash (C) | 54.2 | 66.1 | 146.5 | 215.4 | 49.0 | 51.7 | 37333 | 1.6 |
| | PMH 5 (C) | 53.8 | 65.6 | 149.4 | 214.7 | 47.7 | 53.7 | 40526 | 1.8 |
| 200:60:80 | DAS-MH-501 | 53.8 | 66.9 | 166.6 | 231.9 | 52.3 | 53.3 | 61336 | 2.5 |
| | EHL 162508 | 53.3 | 66.1 | 150.7 | 237.0 | 52.0 | 51.3 | 62545 | 2.5 |
| | Prakash (C) | 54.2 | 66.1 | 151.7 | 231.3 | 49.7 | 49.3 | 40589 | 1.6 |
| | PMH 5 (C) | 52.9 | 65.6 | 154.1 | 217.4 | 48.7 | 51.3 | 43041 | 1.7 |
| Location mean | | 53.9 | 65.4 | 148.9 | 224.4 | 50.6 | 52.4 | 46347.4 | 2.0 |
| C.D.(5%) AiBj-AiBk | | 1.8 | 5.6 | 6.0 | 20.0 | 1.8 | 1.0 | 11306.3 | 0.5 |
| C.D.(5%) AiBk-AjBk | | 2.0 | 5.6 | 7.5 | 21.1 | 1.7 | 2.0 | 11676.6 | 0.5 |
| F(5%) | | n.s. | n.s. | s | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | | |
|-----------------|------|------|-------|-------|------|------|--------|------|
| 100:40:40 | 54.3 | 64.4 | 139.7 | 218.1 | 51.1 | 53.5 | 38618 | 1.8 |
| 150:50:60 | 53.9 | 65.6 | 151.1 | 225.7 | 50.0 | 52.4 | 48547 | 2.1 |
| 200:60:80 | 53.6 | 66.2 | 155.8 | 229.4 | 50.7 | 51.3 | 51878 | 2.1 |
| C.D.(5%) Ai-Aj | 1.2 | 2.7 | 5.5 | 12.3 | 0.8 | 1.9 | 6517.0 | 0.3 |
| C.V.(%) Error A | 2.0 | 3.7 | 3.2 | 4.8 | 1.3 | 3.1 | 12.4 | 13.1 |
| F(5%) | n.s. | n.s. | s | n.s. | s | n.s. | s | n.s. |

| | | | | | | | | |
|---------------|------|------|-------|-------|------|------|--------|------|
| DAS-MH-501 | 53.7 | 65.7 | 156.6 | 230.7 | 52.3 | 53.0 | 55289 | 2.4 |
| EHL 162508 | 54.1 | 64.6 | 143.3 | 239.7 | 51.6 | 52.7 | 56592 | 2.5 |
| Prakash (C) | 54.2 | 65.3 | 145.0 | 215.4 | 50.0 | 51.3 | 35846 | 1.6 |
| PMH 5 (C) | 53.7 | 65.8 | 150.6 | 211.9 | 48.4 | 52.7 | 37664 | 1.6 |
| C.D.(5%)Bi-Bj | 1.0 | 3.3 | 3.5 | 11.6 | 1.0 | 0.6 | 6527.7 | 0.3 |
| C.V.(%)ErrorB | 1.9 | 5.0 | 2.3 | 5.2 | 2.1 | 1.1 | 14.2 | 13.8 |
| F(5%) | n.s. | n.s. | s | s | s | s | s | s |

Table 7: Relative performance of pre-release early maturing hybrids at different NPK levels in Zone IV.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (Kg/ha) | | Cob yield (kg/ha) | | Fodder yield (kg/ha) | Plants (⁰ 000/ha) |
|--|--------------|------------------------|------------|----------------------|------------|----------------------------|----------------------------------|
| | | Arbhavi | Karimnagar | Arbhavi | Karimnagar | Arbhavi | Arbhavi |
| 100:40:40 | K-21 | 6281 | 5882 | 9556 | 8483 | 6622 | 51.3 |
| | DAS-MH-501 | 5664 | 6992 | 9022 | 10096 | 7644 | 51.3 |
| | Bisco 2238 | 6765 | 5612 | 10133 | 8994 | 6511 | 61.6 |
| | FH-3548 | 5405 | 6299 | 8756 | 9520 | 6711 | 54.2 |
| | KNMH-4010141 | 5880 | 7015 | 9156 | 10804 | 7311 | 53.3 |
| | Prakash (C) | 3416 | 5085 | 5156 | 7455 | 3111 | 51.8 |
| | PMH 5 (C) | 1261 | 5424 | 1978 | 8323 | 3000 | 55.8 |
| 150:50:60 | K-21 | 6036 | 6581 | 9200 | 9834 | 6178 | 51.1 |
| | DAS-MH-501 | 5662 | 7173 | 9200 | 11268 | 8022 | 49.3 |
| | Bisco 2238 | 6505 | 6005 | 9911 | 9323 | 6156 | 57.6 |
| | FH-3548 | 5319 | 6818 | 8711 | 9862 | 7756 | 57.3 |
| | KNMH-4010141 | 6127 | 7738 | 9511 | 11598 | 6844 | 54.4 |
| | Prakash (C) | 3244 | 5251 | 4911 | 7960 | 3222 | 61.8 |
| | PMH 5 (C) | 1454 | 5722 | 2400 | 8691 | 3022 | 50.4 |
| 200:60:80 | K-21 | 6978 | 6763 | 10622 | 10071 | 7556 | 52.2 |
| | DAS-MH-501 | 6690 | 7491 | 10356 | 11589 | 7711 | 51.3 |
| | Bisco 2238 | 7000 | 6731 | 10622 | 9777 | 6978 | 61.8 |
| | FH-3548 | 5616 | 6852 | 9022 | 10601 | 8333 | 57.8 |
| | KNMH-4010141 | 6551 | 7903 | 10089 | 11765 | 8044 | 58.9 |
| | Prakash (C) | 3073 | 5900 | 4489 | 8133 | 2956 | 56.9 |
| | PMH 5 (C) | 1297 | 6435 | 2133 | 9449 | 2707 | 48.4 |
| Location mean | | 5058.2 | 6460.7 | 7854.0 | 9695.1 | 6018.8 | 54.7 |
| C.D.(5%) AiBj-AiBk | | 1226.9 | 921.9 | 1957.5 | 1457.5 | 1171.5 | 7.4 |
| C.D.(5%) AiBk-AjBk | | 1251.5 | 984.9 | 1972.6 | 1431.9 | 1315.4 | 7.6 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| 100:40:40 | | 4953 | 6044 | 7679 | 9096 | 5844 | 54.2 |
| 150:50:60 | | 4907 | 6470 | 7692 | 9791 | 5886 | 54.6 |
| 200:60:80 | | 5315 | 6868 | 8190 | 10198 | 6326 | 55.3 |
| C.D.(5%) Ai-Aj | | 543.3 | 507.2 | 805.8 | 496.2 | 766.6 | 3.3 |
| C.V.(%) Error A | | 12.5 | 9.2 | 12.0 | 6.0 | 14.9 | 7.1 |
| F(5%) | | n.s. | s | n.s. | s | n.s. | n.s. |
| K-21 | | 6432 | 6409 | 9793 | 9463 | 6785 | 51.6 |
| DAS-MH-501 | | 6005 | 7219 | 9526 | 10984 | 7793 | 50.7 |
| Bisco 2238 | | 6757 | 6116 | 10222 | 9365 | 6548 | 60.3 |
| FH-3548 | | 5447 | 6656 | 8830 | 9994 | 7600 | 56.4 |
| KNMH-4010141 | | 6186 | 7552 | 9585 | 11389 | 7400 | 55.6 |
| Prakash (C) | | 3244 | 5412 | 4852 | 7849 | 3096 | 56.8 |
| PMH 5 (C) | | 1337 | 5860 | 2170 | 8821 | 2910 | 51.6 |
| C.D.(5%)Bi-Bj | | 708.3 | 532.3 | 1130.2 | 841.5 | 676.3 | 4.3 |
| C.V.(%)ErrorB | | 14.6 | 8.6 | 15.0 | 9.1 | 11.7 | 8.2 |
| F(5%) | | s | s | s | s | s | s |

Cont...

A-21

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Cobs (*000/ha) | Plant height (cm) | | Days to 50% tasseling | Days to 50% silking | |
|--|--------------|-------------------|----------------------|------------|--------------------------|---------------------|------------|
| | | Arbhavi | Arbhavi | Karimnagar | Karimnagar | Arbhavi | Karimnagar |
| 100:40:40 | K-21 | 50.0 | 173.7 | 191.7 | 49.0 | 54.0 | 51.0 |
| | DAS-MH-501 | 51.3 | 182.0 | 224.3 | 49.7 | 60.7 | 51.7 |
| | Bisco 2238 | 59.1 | 164.7 | 192.3 | 48.0 | 53.3 | 50.0 |
| | FH-3548 | 60.2 | 154.0 | 177.7 | 49.7 | 58.3 | 51.7 |
| | KNMH-4010141 | 53.3 | 192.0 | 202.7 | 51.3 | 60.3 | 53.3 |
| | Prakash (C) | 45.3 | 157.3 | 187.0 | 48.7 | 54.7 | 51.3 |
| | PMH 5 (C) | 41.6 | 149.3 | 188.3 | 46.7 | 55.7 | 48.7 |
| 150:50:60 | K-21 | 50.4 | 167.7 | 202.3 | 48.7 | 56.7 | 51.0 |
| | DAS-MH-501 | 51.6 | 182.7 | 225.7 | 49.7 | 60.7 | 51.7 |
| | Bisco 2238 | 57.6 | 167.3 | 206.3 | 47.7 | 54.3 | 49.7 |
| | FH-3548 | 57.6 | 151.3 | 186.0 | 48.7 | 57.7 | 50.7 |
| | KNMH-4010141 | 53.3 | 184.7 | 219.0 | 50.0 | 62.3 | 52.0 |
| | Prakash (C) | 44.9 | 144.7 | 192.3 | 47.3 | 54.7 | 49.3 |
| | PMH 5 (C) | 44.0 | 156.3 | 192.0 | 46.7 | 54.7 | 48.7 |
| 200:60:80 | K-21 | 52.7 | 176.7 | 205.3 | 48.3 | 55.3 | 50.3 |
| | DAS-MH-501 | 50.7 | 185.3 | 235.7 | 48.7 | 59.3 | 50.7 |
| | Bisco 2238 | 58.0 | 167.0 | 214.0 | 47.3 | 55.3 | 49.3 |
| | FH-3548 | 60.0 | 148.7 | 188.3 | 48.7 | 56.7 | 50.7 |
| | KNMH-4010141 | 51.6 | 190.7 | 229.0 | 49.7 | 59.3 | 51.7 |
| | Prakash (C) | 47.1 | 147.7 | 192.7 | 47.0 | 54.3 | 49.0 |
| | PMH 5 (C) | 45.3 | 155.3 | 207.3 | 46.0 | 55.7 | 48.0 |
| Location mean | | 51.7 | 166.6 | 202.9 | 48.4 | 56.9 | 50.5 |
| C.D.(5%) AiBj-AiBk | | 7.6 | 11.6 | 16.2 | 1.4 | 4.1 | 1.5 |
| C.D.(5%) AiBk-AjBk | | 8.1 | 12.1 | 16.4 | 1.7 | 4.4 | 1.8 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| 100:40:40 | | 51.6 | 167.6 | 194.9 | 49.0 | 56.7 | 51.1 |
| 150:50:60 | | 51.3 | 165.0 | 203.4 | 48.4 | 57.3 | 50.4 |
| 200:60:80 | | 52.2 | 167.3 | 210.3 | 48.0 | 56.6 | 50.0 |
| C.D.(5%) Ai-Aj | | 4.2 | 5.7 | 6.8 | 1.1 | 2.3 | 1.1 |
| C.V.(%) Error A | | 9.5 | 4.0 | 3.9 | 2.8 | 4.7 | 2.6 |
| F(5%) | | n.s. | n.s. | s | n.s. | n.s. | n.s. |
| K-21 | | 51.0 | 172.7 | 199.8 | 48.7 | 55.3 | 50.8 |
| DAS-MH-501 | | 51.2 | 183.3 | 228.6 | 49.3 | 60.2 | 51.3 |
| Bisco 2238 | | 58.2 | 166.3 | 204.2 | 47.7 | 54.3 | 49.7 |
| FH-3548 | | 59.3 | 151.3 | 184.0 | 49.0 | 57.6 | 51.0 |
| KNMH-4010141 | | 52.7 | 189.1 | 216.9 | 50.3 | 60.7 | 52.3 |
| Prakash (C) | | 45.8 | 149.9 | 190.7 | 47.7 | 54.6 | 49.9 |
| PMH 5 (C) | | 43.6 | 153.7 | 195.9 | 46.4 | 55.3 | 48.4 |
| C.D.(5%)Bi-Bj | | 4.4 | 6.7 | 9.4 | 0.8 | 2.4 | 0.9 |
| C.V.(%)ErrorB | | 8.8 | 4.2 | 4.8 | 1.8 | 4.3 | 1.8 |
| F(5%) | | s | s | s | s | s | s |

Table 8: Relative performance of pre-release early maturing hybrids at different NPK levels in Zone V.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Stover yield (kg/ha) | Plants ('000/ha) | |
|--|-------------|------------------------|------------|-------------------------|------------------|------------|
| | | Godhra | Chhindwara | Godhra | Godhra | Chhindwara |
| 100:40:40 | K-21 | 3644 | 2793 | 5067 | 61.3 | 54.8 |
| | DAS-MH-501 | 4711 | 3296 | 5333 | 64.9 | 58.5 |
| | Bisco 2238 | 3511 | 3437 | 4356 | 62.2 | 54.4 |
| | EHL 162508 | 3822 | 3056 | 4711 | 60.0 | 55.2 |
| | JH 31485 | 4000 | 2570 | 4578 | 59.1 | 54.4 |
| | Prakash (C) | 3822 | 3004 | 4400 | 59.6 | 56.7 |
| | PMH 5 (C) | 4000 | 3119 | 4578 | 59.6 | 53.3 |
| 150:50:60 | K-21 | 4089 | 3104 | 5111 | 64.0 | 54.1 |
| | DAS-MH-501 | 5600 | 3474 | 6356 | 61.3 | 54.8 |
| | Bisco 2238 | 3689 | 3911 | 4489 | 58.2 | 55.9 |
| | EHL 162508 | 4089 | 3248 | 5289 | 60.0 | 54.8 |
| | JH 31485 | 4356 | 3107 | 5111 | 57.8 | 55.2 |
| | Prakash (C) | 3600 | 3419 | 4267 | 63.1 | 54.4 |
| | PMH 5 (C) | 4133 | 3148 | 4933 | 58.2 | 56.3 |
| 200:60:80 | K-21 | 4444 | 3222 | 5378 | 60.0 | 57.8 |
| | DAS-MH-501 | 5733 | 3944 | 6711 | 59.6 | 59.6 |
| | Bisco 2238 | 4711 | 4181 | 5733 | 57.3 | 58.1 |
| | EHL 162508 | 5244 | 3585 | 6311 | 60.4 | 55.2 |
| | JH 31485 | 3867 | 3363 | 4978 | 58.7 | 56.3 |
| | Prakash (C) | 3778 | 3611 | 4711 | 66.7 | 55.2 |
| | PMH 5 (C) | 4089 | 3622 | 4933 | 60.0 | 55.9 |
| Location mean | | 4234.9 | 3343.6 | 5111.1 | 60.6 | 55.8 |
| C.D.(5%) AiBj-AiBk | | 941.1 | 623.9 | 984.8 | 5.8 | 2.6 |
| C.D.(5%) AiBk-AjBk | | 992.2 | 720.7 | 948.6 | 6.0 | 3.3 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | s |
| 100:40:40 | | 3930 | 3039 | 4717 | 61.0 | 55.3 |
| 150:50:60 | | 4222 | 3344 | 5079 | 60.4 | 55.1 |
| 200:60:80 | | 4552 | 3647 | 5537 | 60.4 | 56.9 |
| C.D.(5%) Ai-Aj | | 490.0 | 443.5 | 271.3 | 2.7 | 2.4 |
| C.V.(%) Error A | | 13.5 | 15.5 | 6.2 | 5.3 | 5.0 |
| F(5%) | | n.s. | s | s | n.s. | n.s. |
| K-21 | | 4059 | 3040 | 5185 | 61.8 | 55.6 |
| DAS-MH-501 | | 5348 | 3572 | 6133 | 61.9 | 57.7 |
| Bisco 2238 | | 3970 | 3843 | 4859 | 59.3 | 56.2 |
| EHL 162508 | | 4385 | 3296 | 5437 | 60.1 | 55.1 |
| JH 31485 | | 4074 | 3014 | 4889 | 58.5 | 55.3 |
| Prakash (C) | | 3733 | 3344 | 4459 | 63.1 | 55.4 |
| PMH 5 (C) | | 4074 | 3296 | 4815 | 59.3 | 55.2 |
| C.D.(5%)Bi-Bj | | 543.3 | 360.2 | 568.6 | 3.4 | 1.5 |
| C.V.(%)ErrorB | | 13.4 | 11.3 | 11.6 | 5.8 | 2.8 |
| F(5%) | | s | s | s | n.s. | s |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Cobs (⁰ 000/ha) | | Plant height (cm) | | Days to 50% silking | |
|--|-------------|--------------------------------|------------|----------------------|------------|---------------------|------------|
| | | Godhra | Chhindwara | Godhra | Chhindwara | Godhra | Chhindwara |
| 100:40:40 | K-21 | 62.2 | 52.6 | 168.3 | 147.0 | 53.7 | 63.0 |
| | DAS-MH-501 | 64.9 | 53.3 | 171.0 | 164.0 | 56.3 | 69.0 |
| | Bisco 2238 | 62.2 | 53.0 | 161.7 | 159.0 | 54.7 | 62.7 |
| | EHL 162508 | 60.0 | 53.7 | 168.3 | 170.0 | 56.7 | 63.0 |
| | JH 31485 | 59.1 | 51.9 | 153.3 | 156.7 | 54.3 | 62.3 |
| | Prakash (C) | 59.6 | 52.6 | 150.0 | 174.7 | 54.7 | 62.7 |
| | PMH 5 (C) | 59.6 | 53.3 | 166.7 | 175.7 | 55.3 | 62.3 |
| 150:50:60 | K-21 | 64.0 | 55.2 | 162.0 | 150.0 | 54.0 | 63.0 |
| | DAS-MH-501 | 60.4 | 54.1 | 168.7 | 178.7 | 56.7 | 67.3 |
| | Bisco 2238 | 58.2 | 53.7 | 151.0 | 179.7 | 56.7 | 60.3 |
| | EHL 162508 | 60.4 | 56.3 | 164.3 | 171.0 | 57.7 | 62.3 |
| | JH 31485 | 58.7 | 53.7 | 165.0 | 165.7 | 54.7 | 62.7 |
| | Prakash (C) | 62.2 | 55.6 | 158.7 | 154.3 | 55.0 | 61.7 |
| | PMH 5 (C) | 60.0 | 54.1 | 163.3 | 173.0 | 52.7 | 61.3 |
| 200:60:80 | K-21 | 60.0 | 54.4 | 165.0 | 164.3 | 53.3 | 62.7 |
| | DAS-MH-501 | 59.6 | 54.8 | 181.7 | 182.0 | 56.0 | 65.7 |
| | Bisco 2238 | 57.3 | 55.6 | 170.0 | 179.7 | 54.7 | 60.0 |
| | EHL 162508 | 61.3 | 56.7 | 165.0 | 178.7 | 56.0 | 62.0 |
| | JH 31485 | 58.7 | 54.1 | 163.3 | 166.3 | 54.7 | 61.0 |
| | Prakash (C) | 66.7 | 56.7 | 151.7 | 173.0 | 56.7 | 61.7 |
| | PMH 5 (C) | 60.0 | 55.6 | 160.0 | 172.3 | 55.7 | 61.3 |
| Location mean | 60.7 | 54.3 | 163.3 | 168.4 | 55.2 | 62.8 | |
| C.D.(5%) AiBj-AiBk | 6.1 | 3.6 | 11.0 | 7.9 | 0.9 | 1.5 | |
| C.D.(5%) AiBk-AjBk | 6.4 | 3.4 | 11.8 | 8.4 | 0.9 | 1.5 | |
| F(5%) | n.s. | n.s. | s | s | s | n.s. | |

| | | | | | | |
|-----------------|------|------|-------|-------|------|------|
| 100:40:40 | 61.1 | 52.9 | 162.8 | 163.9 | 55.1 | 63.6 |
| 150:50:60 | 60.6 | 54.7 | 161.9 | 167.5 | 55.3 | 62.7 |
| 200:60:80 | 60.5 | 55.4 | 165.2 | 173.8 | 55.3 | 62.0 |
| C.D.(5%) Ai-Aj | 3.0 | 0.8 | 6.1 | 4.4 | 0.4 | 0.4 |
| C.V.(%) Error A | 5.7 | 1.8 | 4.4 | 3.0 | 0.9 | 0.8 |
| F(5%) | n.s. | s | n.s. | s | n.s. | s |

| | | | | | | |
|---------------|------|------|-------|-------|------|------|
| K-21 | 62.1 | 54.1 | 165.1 | 153.8 | 53.7 | 62.9 |
| DAS-MH-501 | 61.6 | 54.1 | 173.8 | 174.9 | 56.3 | 67.3 |
| Bisco 2238 | 59.3 | 54.1 | 160.9 | 172.8 | 55.3 | 61.0 |
| EHL 162508 | 60.6 | 55.6 | 165.9 | 173.2 | 56.8 | 62.4 |
| JH 31485 | 58.8 | 53.2 | 160.6 | 162.9 | 54.6 | 62.0 |
| Prakash (C) | 62.8 | 54.9 | 153.4 | 167.3 | 55.4 | 62.0 |
| PMH 5 (C) | 59.9 | 54.3 | 163.3 | 173.7 | 54.6 | 61.7 |
| C.D.(5%)Bi-Bj | 3.5 | 2.1 | 6.4 | 4.6 | 0.5 | 0.9 |
| C.V.(%)ErrorB | 6.1 | 4.0 | 4.1 | 2.8 | 0.9 | 1.5 |
| F(5%) | n.s. | n.s. | s | s | s | s |

Table 9: Relative performance of pre-release medium maturing hybrids at different NPK levels in Zone I.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Stover yield (kg/ha) | Plants (^{'000} /ha) | | Cobs (^{'000} /ha) | |
|--|--------------|------------------------|--------|----------------------------|----------------------------------|--------|--------------------------------|--------|
| | | Bajaura | Kangra | Kangra | Bajaura | Kangra | Bajaura | Kangra |
| 150:50:60 | EHL-161708 | 10703 | 8455 | 15972 | 82.4 | 69.8 | 78.3 | 68.2 |
| | PMH 4(C) | 10500 | 6634 | 16130 | 80.6 | 60.9 | 79.2 | 60.3 |
| | BIO 9637 (C) | 10213 | 4301 | 10574 | 78.8 | 33.5 | 74.6 | 39.5 |
| 200:65:80 | EHL-161708 | 13697 | 7933 | 16730 | 82.4 | 70.1 | 82.0 | 64.1 |
| | PMH 4(C) | 11933 | 7666 | 17898 | 76.4 | 60.0 | 76.4 | 57.4 |
| | BIO 9637 (C) | 11927 | 5135 | 11679 | 80.1 | 42.0 | 78.3 | 45.5 |
| 250:80:100 | EHL-161708 | 13540 | 8225 | 15940 | 80.1 | 71.3 | 78.7 | 68.8 |
| | PMH 4(C) | 12127 | 7244 | 15783 | 81.3 | 58.4 | 77.0 | 59.3 |
| | BIO 9637 (C) | 12313 | 6134 | 14362 | 80.6 | 37.2 | 76.9 | 42.3 |
| Location mean | | 11883.7 | 6858.5 | 15007.6 | 80.3 | 55.9 | 77.9 | 56.2 |
| C.D.(5%) AiBj-AiBk | | 1283.9 | 530.0 | 829.5 | 5.4 | 5.8 | 5.5 | 5.4 |
| C.D.(5%) AiBk-AjBk | | 1543.7 | 563.4 | 1718.9 | 5.9 | 5.6 | 5.5 | 6.1 |
| F(5%) | | n.s. | s | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------------|--------|-------|--------|------|------|------|------|
| 150:50:60 | 10472 | 6463 | 14225 | 80.6 | 54.7 | 77.4 | 56.0 |
| 200:65:80 | 12519 | 6911 | 15435 | 79.7 | 57.3 | 78.9 | 55.7 |
| 250:80:100 | 12660 | 7201 | 15362 | 80.7 | 55.7 | 77.5 | 56.8 |
| C.D.(5%) Ai-Aj | 1148.5 | 366.7 | 1588.2 | 4.0 | 3.0 | 3.2 | 4.4 |
| C.V.(%) Error A | 7.4 | 4.1 | 8.1 | 3.8 | 4.1 | 3.1 | 5.9 |
| F(5%) | s | s | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|---------------|-------|-------|-------|------|------|------|------|
| EHL-161708 | 12647 | 8204 | 16214 | 81.6 | 70.4 | 79.7 | 67.0 |
| PMH 4(C) | 11520 | 7181 | 16603 | 79.4 | 59.8 | 77.5 | 59.0 |
| BIO 9637 (C) | 11484 | 5190 | 12205 | 79.8 | 37.6 | 76.6 | 42.4 |
| C.D.(5%)Bi-Bj | 741.3 | 306.0 | 478.9 | 3.1 | 3.3 | 3.2 | 3.1 |
| C.V.(%)ErrorB | 6.1 | 4.3 | 3.1 | 3.8 | 5.8 | 4.0 | 5.4 |
| F(5%) | s | s | s | n.s. | s | n.s. | s |

Cont...

A-25

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plant height (cm) | | Days to 50% Silking | | Net return (Rs /ha) | B:C ratio |
|--|--------------|----------------------|--------|---------------------|--------|------------------------|-----------|
| | | Bajaura | Kangra | Bajaura | Kangra | Kangra | Kangra |
| 150:50:60 | EHL-161708 | 194.7 | 198.0 | 58.3 | 56.3 | 87500 | 4.5 |
| | PMH 4(C) | 208.0 | 217.3 | 55.3 | 53.7 | 69567 | 3.8 |
| | BIO 9637 (C) | 237.7 | 241.0 | 58.7 | 57.3 | 36519 | 2.5 |
| 200:65:80 | EHL-161708 | 199.3 | 197.7 | 58.7 | 56.3 | 81667 | 4.0 |
| | PMH 4(C) | 211.3 | 207.0 | 55.3 | 54.0 | 81037 | 4.0 |
| | BIO 9637 (C) | 245.0 | 246.7 | 58.7 | 55.7 | 44848 | 2.7 |
| 250:80:100 | EHL-161708 | 207.7 | 200.0 | 58.7 | 56.7 | 81271 | 3.8 |
| | PMH 4(C) | 210.7 | 215.0 | 55.3 | 52.3 | 71180 | 3.5 |
| | BIO 9637 (C) | 246.3 | 254.0 | 57.7 | 56.7 | 57597 | 3.0 |
| Location mean | | 217.9 | 219.6 | 57.4 | 55.4 | 67909.6 | 3.5 |
| C.D.(5%) AiBj-AiBk | | 8.6 | 13.4 | 1.6 | 2.0 | 5849.2 | 0.2 |
| C.D.(5%) AiBk-AjBk | | 11.7 | 23.9 | 1.4 | 1.8 | 7676.4 | 0.3 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | s | s |

| | | | | | | |
|-----------------|-------|-------|------|------|--------|------|
| 150:50:60 | 213.4 | 218.8 | 57.4 | 55.8 | 64529 | 3.6 |
| 200:65:80 | 218.6 | 217.1 | 57.6 | 55.3 | 69184 | 3.6 |
| 250:80:100 | 221.6 | 223.0 | 57.2 | 55.2 | 70016 | 3.4 |
| C.D.(5%) Ai-Aj | 9.4 | 21.4 | 0.7 | 0.9 | 6080.6 | 0.2 |
| C.V.(%) Error A | 3.3 | 7.4 | 0.9 | 1.2 | 6.8 | 5.2 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|---------------|-------|-------|------|------|--------|-----|
| EHL-161708 | 200.6 | 198.6 | 58.6 | 56.4 | 83479 | 4.1 |
| PMH 4(C) | 210.0 | 213.1 | 55.3 | 53.3 | 73928 | 3.8 |
| BIO 9637 (C) | 243.0 | 247.2 | 58.3 | 56.6 | 46321 | 2.7 |
| C.D.(5%)Bi-Bj | 4.9 | 7.7 | 0.9 | 1.1 | 3377.1 | 0.1 |
| C.V.(%)ErrorB | 2.2 | 3.4 | 1.5 | 2.0 | 4.8 | 3.5 |
| F(5%) | s | s | s | s | s | s |

Table 10: Relative performance of pre-release medium maturing hybrids at different NPK levels in Zone III.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | Stover yield (kg/ha) | Plants (⁰⁰⁰ /ha) | | Cobs (⁰⁰⁰ /ha) | |
|--|--------------|------------------------|----------|----------------------|----------------------------|---------------------------------|----------|-------------------------------|----------|
| | | Bahraich | Varanasi | Bahraich | Bahraich | Bahraich | Varanasi | Bahraich | Varanasi |
| 150:50:60 | X35A189 | 4944 | 6889 | 6875 | 2003 | 83.3 | 37.2 | 89.6 | 37.2 |
| | PMH 4(C) | 4688 | 6267 | 6618 | 1853 | 82.6 | 38.6 | 89.6 | 38.9 |
| | BIO 9637 (C) | 4750 | 5489 | 6611 | 1877 | 82.6 | 38.6 | 88.9 | 38.9 |
| 200:65:80 | X35A189 | 5681 | 7333 | 7799 | 2252 | 82.6 | 38.9 | 89.6 | 38.6 |
| | PMH 4(C) | 5444 | 6000 | 7576 | 2147 | 82.6 | 38.3 | 86.8 | 37.5 |
| | BIO 9637 (C) | 5229 | 5378 | 7174 | 2410 | 82.6 | 37.2 | 88.2 | 36.9 |
| 250:80:100 | X35A189 | 6438 | 7533 | 8750 | 2573 | 83.3 | 39.7 | 91.7 | 40.0 |
| | PMH 4(C) | 6007 | 7156 | 8243 | 2397 | 82.6 | 39.2 | 91.0 | 39.2 |
| | BIO 9637 (C) | 5826 | 5911 | 7993 | 2410 | 83.3 | 38.6 | 83.3 | 39.7 |
| Location mean | | 5445.2 | 6439.5 | 7515.4 | 2213.5 | 82.9 | 38.5 | 88.7 | 38.5 |
| C.D.(5%) AiBj-AiBk | | 88.1 | 1424.2 | 125.5 | 86.8 | 1.8 | 2.3 | 3.6 | 2.1 |
| C.D.(5%) AiBk-AjBk | | 90.3 | 1353.5 | 140.4 | 80.3 | 1.6 | 3.4 | 3.2 | 2.9 |
| F(5%) | | s | n.s. | s | s | n.s. | n.s. | s | n.s. |

| | | | | | | | | |
|-----------------|------|-------|------|------|------|------|------|------|
| 150:50:60 | 4794 | 6215 | 6701 | 1911 | 82.9 | 38.1 | 89.4 | 38.3 |
| 200:65:80 | 5451 | 6237 | 7516 | 2270 | 82.6 | 38.1 | 88.2 | 37.7 |
| 250:80:100 | 6090 | 6867 | 8329 | 2460 | 83.1 | 39.2 | 88.7 | 39.6 |
| C.D.(5%) Ai-Aj | 55.5 | 706.0 | 97.4 | 38.5 | 0.6 | 2.9 | 1.2 | 2.4 |
| C.V.(%) Error A | 0.8 | 8.4 | 1.0 | 1.3 | 0.6 | 5.7 | 1.1 | 4.7 |
| F(5%) | s | n.s. | s | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | |
|---------------|------|-------|------|------|------|------|------|------|
| X35A189 | 5688 | 7252 | 7808 | 2276 | 83.1 | 38.6 | 90.3 | 38.6 |
| PMH 4(C) | 5380 | 6474 | 7479 | 2132 | 82.6 | 38.7 | 89.1 | 38.5 |
| BIO 9637 (C) | 5269 | 5593 | 7259 | 2232 | 82.9 | 38.1 | 86.8 | 38.5 |
| C.D.(5%)Bi-Bj | 50.9 | 822.3 | 72.5 | 50.1 | 1.0 | 1.3 | 2.1 | 1.2 |
| C.V.(%)ErrorB | 0.9 | 12.4 | 0.9 | 2.2 | 1.2 | 3.3 | 2.3 | 3.0 |
| F(5%) | s | s | s | s | n.s. | n.s. | s | n.s. |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plant height (cm) | | Days to 50% tasseling | Days to 50% silking | Nitrogen uptake (kg/ha) | Potassium uptake (kg/ha) | Phosphorus uptake (kg/ha) |
|--|--------------|----------------------|----------|-----------------------------|---------------------------|-------------------------------|--------------------------------|---------------------------------|
| | | Bahraich | Varanasi | Varanasi | | Bahraich | | |
| 150:50:60 | X35A189 | 175.3 | 216.0 | 47.3 | 50.3 | 131.1 | 34.6 | 19.8 |
| | PMH 4(C) | 181.7 | 204.7 | 46.7 | 50.0 | 124.5 | 32.9 | 18.8 |
| | BIO 9637 (C) | 161.7 | 227.7 | 49.3 | 53.7 | 126.1 | 34.6 | 19.0 |
| 200:65:80 | X35A189 | 182.3 | 219.7 | 47.7 | 51.3 | 144.1 | 39.8 | 22.8 |
| | PMH 4(C) | 191.3 | 211.0 | 47.0 | 51.0 | 144.5 | 38.2 | 21.8 |
| | BIO 9637 (C) | 196.7 | 235.3 | 48.7 | 52.3 | 138.7 | 36.6 | 20.9 |
| 250:80:100 | X35A189 | 198.0 | 218.0 | 47.7 | 51.3 | 170.8 | 45.1 | 25.8 |
| | PMH 4(C) | 196.0 | 211.3 | 47.3 | 50.7 | 159.4 | 42.1 | 24.1 |
| | BIO 9637 (C) | 209.3 | 222.7 | 48.7 | 52.7 | 154.6 | 40.8 | 23.3 |
| Location mean | | 188.0 | 218.5 | 47.8 | 51.5 | 143.8 | 38.3 | 21.8 |
| C.D.(5%) AiBj-AiBk | | 1.3 | 12.2 | 1.0 | 1.3 | 6.5 | 1.2 | 0.3 |
| C.D.(5%) AiBk-AjBk | | 1.9 | 13.8 | 1.3 | 1.3 | 7.6 | 1.6 | 0.4 |
| F(5%) | | s | n.s. | n.s. | n.s. | s | s | s |

| | | | | | | | |
|-----------------|-------|-------|------|------|-------|------|------|
| 150:50:60 | 172.9 | 216.1 | 47.8 | 51.3 | 127.2 | 34.1 | 19.2 |
| 200:65:80 | 190.1 | 222.0 | 47.8 | 51.6 | 142.4 | 38.2 | 21.8 |
| 250:80:100 | 201.1 | 217.3 | 47.9 | 51.6 | 161.6 | 42.7 | 24.4 |
| C.D.(5%) Ai-Aj | 1.6 | 9.8 | 1.1 | 0.9 | 5.5 | 1.3 | 0.2 |
| C.V.(%) Error A | 0.7 | 3.4 | 1.7 | 1.3 | 2.9 | 2.6 | 0.8 |
| F(5%) | s | n.s. | n.s. | n.s. | s | s | s |

| | | | | | | | |
|---------------|-------|-------|------|------|-------|------|------|
| X35A189 | 185.2 | 217.9 | 47.6 | 51.0 | 148.7 | 39.9 | 22.8 |
| PMH 4(C) | 189.7 | 209.0 | 47.0 | 50.6 | 142.8 | 37.7 | 21.6 |
| BIO 9637 (C) | 189.2 | 228.6 | 48.9 | 52.9 | 139.8 | 37.4 | 21.1 |
| C.D.(5%)Bi-Bj | 0.8 | 7.0 | 0.6 | 0.7 | 3.8 | 0.7 | 0.2 |
| C.V.(%)ErrorB | 0.4 | 3.1 | 1.2 | 1.4 | 2.6 | 1.7 | 0.9 |
| F(5%) | s | s | s | s | s | s | s |

Cont...

Table 11: Relative performance of pre-release medium maturing hybrids at different NPK levels in Zone IV.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | | Straw yield (kg/ha) | |
|--|--------------|------------------------|-----------|----------------------|-----------|------------------------|-----------|
| | | Arbhavi | Hyderabad | Arbhavi | Hyderabad | Arbhavi | Hyderabad |
| 150:50:60 | X35A189 | 5937 | 6167 | 9444 | 9546 | 6000 | 7282 |
| | P3377 | 6112 | 6900 | 9156 | 9990 | 6733 | 8059 |
| | PRO 383 | 8821 | 6703 | 14267 | 8880 | 10444 | 8103 |
| | JH 31470 | 8542 | 7202 | 13778 | 12543 | 10400 | 9946 |
| | PMH 4(C) | 6178 | 7540 | 9200 | 11100 | 6889 | 9524 |
| | BIO 9637 (C) | 5808 | 7400 | 9467 | 10878 | 7022 | 8214 |
| 200:65:80 | X35A189 | 8584 | 6904 | 13178 | 10656 | 7867 | 7925 |
| | P3377 | 6874 | 7959 | 10444 | 11100 | 7956 | 8458 |
| | PRO 383 | 9321 | 7677 | 15022 | 9768 | 13578 | 8170 |
| | JH 31470 | 9473 | 8340 | 14889 | 13098 | 11689 | 9724 |
| | PMH 4(C) | 6521 | 8405 | 9622 | 11655 | 7000 | 9835 |
| | BIO 9637 (C) | 6924 | 7703 | 11044 | 10878 | 7956 | 8480 |
| 250:80:100 | X35A189 | 8656 | 7402 | 13200 | 11766 | 8289 | 9146 |
| | P3377 | 8398 | 8059 | 12089 | 11766 | 7822 | 9213 |
| | PRO 383 | 9464 | 7835 | 15444 | 11100 | 14733 | 9080 |
| | JH 31470 | 9339 | 8285 | 14933 | 13542 | 13422 | 10123 |
| | PMH 4(C) | 7640 | 8266 | 11422 | 12432 | 8889 | 10279 |
| | BIO 9637 (C) | 7544 | 7577 | 11756 | 11322 | 8267 | 9368 |
| Location mean | | 7785.4 | 7573.5 | 12130.9 | 11223.3 | 9164.2 | 8940.4 |
| C.D.(5%) AiBj-AiBk | | 2060.5 | 603.9 | 3298.4 | 1624.7 | 1852.1 | 737.6 |
| C.D.(5%) AiBk-AjBk | | 1908.5 | 755.8 | 3182.3 | 1616.0 | 2075.5 | 805.4 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| | | | | | | | |
| 150:50:60 | | 6900 | 6985 | 10885 | 10490 | 7915 | 8521 |
| 200:65:80 | | 7950 | 7831 | 12367 | 11193 | 9341 | 8765 |
| 250:80:100 | | 8507 | 7904 | 13141 | 11988 | 10237 | 9535 |
| C.D.(5%) Ai-Aj | | 335.2 | 529.5 | 1065.5 | 663.0 | 1237.8 | 454.9 |
| C.V.(%) Error A | | 4.7 | 7.6 | 9.5 | 6.4 | 14.6 | 5.5 |
| F(5%) | | s | s | s | s | s | s |
| | | | | | | | |
| X35A189 | | 7726 | 6824 | 11941 | 10656 | 7385 | 8118 |
| P3377 | | 7128 | 7639 | 10563 | 10952 | 7504 | 8577 |
| PRO 383 | | 9202 | 7405 | 14911 | 9916 | 12919 | 8451 |
| JH 31470 | | 9118 | 7942 | 14533 | 13061 | 11837 | 9931 |
| PMH 4(C) | | 6780 | 8070 | 10081 | 11729 | 7593 | 9879 |
| BIO 9637 (C) | | 6759 | 7560 | 10756 | 11026 | 7748 | 8688 |
| C.D.(5%)Bi-Bj | | 1189.6 | 348.7 | 1904.3 | 938.0 | 1069.3 | 425.9 |
| C.V.(%)ErrorB | | 15.9 | 4.8 | 16.3 | 8.7 | 12.1 | 4.9 |
| F(5%) | | s | s | s | s | s | s |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plants (⁰⁰⁰ /ha) | | Cobs (⁰⁰⁰ /ha) | | Plant height (cm) | |
|--|--------------|---------------------------------|-----------|-------------------------------|-----------|----------------------|-----------|
| | | Arbhavi | Hyderabad | Arbhavi | Hyderabad | Arbhavi | Hyderabad |
| 150:50:60 | X35A189 | 58.7 | 60.6 | 55.8 | 61.9 | 161.7 | 170.0 |
| | P3377 | 54.9 | 61.1 | 54.7 | 58.2 | 176.3 | 217.7 |
| | PRO 383 | 57.3 | 60.6 | 56.0 | 59.3 | 170.7 | 183.3 |
| | JH 31470 | 56.0 | 64.8 | 58.4 | 64.6 | 189.0 | 221.7 |
| | PMH 4(C) | 59.1 | 64.2 | 52.0 | 61.5 | 160.7 | 210.0 |
| | BIO 9637 (C) | 53.3 | 61.9 | 52.4 | 60.2 | 184.0 | 207.3 |
| 200:65:80 | X35A189 | 61.8 | 63.0 | 60.4 | 64.4 | 176.0 | 199.3 |
| | P3377 | 54.7 | 63.0 | 53.3 | 59.3 | 201.3 | 192.7 |
| | PRO 383 | 53.8 | 62.2 | 53.8 | 62.2 | 175.7 | 189.0 |
| | JH 31470 | 55.6 | 64.8 | 58.0 | 66.4 | 199.0 | 230.7 |
| | PMH 4(C) | 55.6 | 66.8 | 53.8 | 61.9 | 167.3 | 213.3 |
| | BIO 9637 (C) | 52.7 | 64.8 | 52.0 | 64.4 | 194.7 | 212.7 |
| 250:80:100 | X35A189 | 60.0 | 61.9 | 58.9 | 65.5 | 184.3 | 216.0 |
| | P3377 | 55.3 | 61.3 | 54.7 | 65.9 | 205.0 | 211.0 |
| | PRO 383 | 57.1 | 63.7 | 57.8 | 64.4 | 179.3 | 201.3 |
| | JH 31470 | 57.8 | 64.4 | 57.3 | 69.3 | 201.7 | 232.7 |
| | PMH 4(C) | 57.1 | 62.4 | 55.6 | 62.2 | 173.7 | 212.3 |
| | BIO 9637 (C) | 56.7 | 64.4 | 54.0 | 63.9 | 193.0 | 231.3 |
| Location mean | | 56.5 | 63.1 | 55.5 | 63.1 | 183.0 | 208.5 |
| C.D.(5%) AiBj-AiBk | | 6.9 | 4.8 | 5.0 | 5.5 | 14.8 | 26.6 |
| C.D.(5%) AiBk-AjBk | | 7.1 | 8.0 | 6.2 | 6.5 | 21.3 | 28.5 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------------|------|------|------|------|-------|-------|
| 150:50:60 | 56.6 | 62.2 | 54.9 | 60.9 | 173.7 | 201.7 |
| 200:65:80 | 55.7 | 64.1 | 55.2 | 63.1 | 185.7 | 206.3 |
| 250:80:100 | 57.3 | 63.0 | 56.4 | 65.2 | 189.5 | 217.4 |
| C.D.(5%) Ai-Aj | 3.4 | 6.8 | 4.2 | 4.2 | 16.8 | 15.5 |
| C.V.(%) Error A | 6.4 | 11.6 | 8.2 | 7.2 | 9.9 | 8.0 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|---------------|------|------|------|------|-------|-------|
| X35A189 | 60.1 | 61.9 | 58.4 | 63.9 | 174.0 | 195.1 |
| P3377 | 55.0 | 61.8 | 54.2 | 61.1 | 194.2 | 207.1 |
| PRO 383 | 56.1 | 62.2 | 55.9 | 61.9 | 175.2 | 191.2 |
| JH 31470 | 56.4 | 64.7 | 57.9 | 66.7 | 196.6 | 228.3 |
| PMH 4(C) | 57.3 | 64.5 | 53.8 | 61.9 | 167.2 | 211.9 |
| BIO 9637 (C) | 54.2 | 63.7 | 52.8 | 62.8 | 190.6 | 217.1 |
| C.D.(5%)Bi-Bj | 4.0 | 2.7 | 2.9 | 3.2 | 8.6 | 15.3 |
| C.V.(%)ErrorB | 7.4 | 4.5 | 5.4 | 5.2 | 4.9 | 7.6 |
| F(5%) | n.s. | n.s. | s | s | s | s |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Days to 50% tasseling | Days to 50% silking | |
|--|--------------|-----------------------|---------------------|-----------|
| | | Hyderabad | Arbhavi | Hyderabad |
| 150:50:60 | X35A189 | 60.0 | 63.0 | 62.0 |
| | P3377 | 59.7 | 63.7 | 61.7 |
| | PRO 383 | 60.0 | 62.7 | 62.0 |
| | JH 31470 | 60.3 | 65.0 | 62.3 |
| | PMH 4(C) | 60.0 | 62.0 | 62.0 |
| | BIO 9637 (C) | 60.0 | 65.0 | 62.0 |
| 200:65:80 | X35A189 | 56.3 | 61.7 | 58.3 |
| | P3377 | 56.3 | 62.7 | 58.3 |
| | PRO 383 | 56.3 | 62.7 | 58.3 |
| | JH 31470 | 57.0 | 62.0 | 59.0 |
| | PMH 4(C) | 56.0 | 61.7 | 58.0 |
| | BIO 9637 (C) | 56.3 | 65.0 | 58.3 |
| 250:80:100 | X35A189 | 56.0 | 61.0 | 58.0 |
| | P3377 | 56.3 | 61.3 | 58.3 |
| | PRO 383 | 56.7 | 61.7 | 58.7 |
| | JH 31470 | 56.3 | 64.0 | 58.3 |
| | PMH 4(C) | 56.0 | 60.3 | 58.0 |
| | BIO 9637 (C) | 56.0 | 65.0 | 58.0 |
| Location mean | | 57.5 | 62.8 | 59.5 |
| C.D.(5%) AiBj-AiBk | | 1.7 | 2.3 | 1.7 |
| C.D.(5%) AiBk-AjBk | | 1.7 | 2.3 | 1.7 |
| F(5%) | | n.s. | n.s. | n.s. |

| | | | |
|-----------------|------|------|------|
| 150:50:60 | 60.0 | 63.6 | 62.0 |
| 200:65:80 | 56.4 | 62.6 | 58.4 |
| 250:80:100 | 56.2 | 62.2 | 58.2 |
| C.D.(5%) Ai-Aj | 0.7 | 1.1 | 0.7 |
| C.V.(%) Error A | 1.4 | 1.9 | 1.3 |
| F(5%) | s | n.s. | s |

| | | | |
|---------------|------|------|------|
| X35A189 | 57.4 | 61.9 | 59.4 |
| P3377 | 57.4 | 62.6 | 59.4 |
| PRO 383 | 57.7 | 62.3 | 59.7 |
| JH 31470 | 57.9 | 63.7 | 59.9 |
| PMH 4(C) | 57.3 | 61.3 | 59.3 |
| BIO 9637 (C) | 57.4 | 65.0 | 59.4 |
| C.D.(5%)Bi-Bj | 1.0 | 1.3 | 1.0 |
| C.V.(%)ErrorB | 1.8 | 2.2 | 1.7 |
| F(5%) | n.s. | s | n.s. |

Table 12: Relative performance of pre-release medium maturing hybrids at different NPK levels in Zone V.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | Plants (^{'000} /ha) | Cobs (^{'000} /ha) | Plant height (cm) | Days to 50% silking |
|--|--------------|------------------------|----------------------------------|--------------------------------|----------------------|------------------------|
| | | | | | | |
| 150:50:60 | EH-1974 | 3085 | 55.2 | 50.4 | 164.0 | 69.7 |
| | PMH 4(C) | 3256 | 57.0 | 47.4 | 186.3 | 69.0 |
| | BIO 9637 (C) | 3285 | 56.7 | 52.6 | 166.0 | 71.0 |
| 200:65:80 | EH-1974 | 3122 | 57.4 | 51.9 | 175.7 | 69.3 |
| | PMH 4(C) | 3311 | 57.0 | 49.3 | 188.0 | 66.0 |
| | BIO 9637 (C) | 3681 | 58.9 | 54.8 | 169.7 | 70.0 |
| 250:80:100 | EH-1974 | 3163 | 58.9 | 53.3 | 177.3 | 69.7 |
| | PMH 4(C) | 3496 | 58.5 | 51.9 | 186.3 | 65.0 |
| | BIO 9637 (C) | 3719 | 57.0 | 57.8 | 174.7 | 69.7 |
| Location mean | | 3346.5 | 57.4 | 52.1 | 176.4 | 68.8 |
| C.D.(5%) AiBj-AiBk | | 723.3 | 2.2 | 6.9 | 16.0 | 1.7 |
| C.D.(5%) AiBk-AjBk | | 919.2 | 2.9 | 6.0 | 17.4 | 2.2 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | |
|-----------------|-------|------|------|-------|------|
| 150:50:60 | 3209 | 56.3 | 50.1 | 172.1 | 69.9 |
| 200:65:80 | 3372 | 57.8 | 52.0 | 177.8 | 68.4 |
| 250:80:100 | 3459 | 58.1 | 54.3 | 179.4 | 68.1 |
| C.D.(5%) Ai-Aj | 713.0 | 2.3 | 2.1 | 11.7 | 1.7 |
| C.V.(%) Error A | 16.3 | 3.0 | 3.0 | 5.1 | 1.9 |
| F(5%) | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | |
|---------------|-------|------|------|-------|------|
| EH-1974 | 3123 | 57.2 | 51.9 | 172.3 | 69.6 |
| PMH 4(C) | 3354 | 57.5 | 49.5 | 186.9 | 66.7 |
| BIO 9637 (C) | 3562 | 57.5 | 55.1 | 170.1 | 70.2 |
| C.D.(5%)Bi-Bj | 417.6 | 1.3 | 4.0 | 9.2 | 1.0 |
| C.V.(%)ErrorB | 12.1 | 2.1 | 7.5 | 5.1 | 1.4 |
| F(5%) | n.s. | n.s. | s | s | s |

Table 13: Relative performance of pre-release late maturing hybrids at different NPK levels in Zone I.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Stover yield (kg/ha) | Plants (^{'000} /ha) | | Cobs (^{'000} /ha) | |
|--|--------------------|------------------------|--------|----------------------------|----------------------------------|--------|--------------------------------|--------|
| | | Bajaura | Kangra | Kangra | Bajaura | Kangra | Bajaura | Kangra |
| 150:50:60 | HTMH 5106 | 9667 | 8338 | 18472 | 83.0 | 69.0 | 82.6 | 64.0 |
| | HTMH 5402 | 9507 | 5461 | 17593 | 81.3 | 69.9 | 79.2 | 60.6 |
| | PFMH-97 I 57(AMAR) | 10253 | 7755 | 18657 | 76.8 | 68.2 | 75.0 | 54.7 |
| | MCH-45 | 8843 | 8104 | 18287 | 82.6 | 74.1 | 83.3 | 67.3 |
| | P3580(X35A180) | 8633 | 5882 | 17824 | 81.6 | 67.3 | 79.6 | 58.1 |
| | PRO 385 | 7283 | 5779 | 17083 | 82.3 | 64.0 | 80.6 | 59.8 |
| | PRO 384 | 8067 | 7795 | 18704 | 81.3 | 65.7 | 80.6 | 60.6 |
| | MCH-46 | 7600 | 6677 | 17546 | 80.5 | 66.5 | 77.1 | 60.6 |
| | GK 3103 | 8797 | 8681 | 17269 | 82.6 | 62.3 | 80.6 | 54.7 |
| | PMH 1 (C) | 7727 | 6600 | 17407 | 77.4 | 47.1 | 74.0 | 45.5 |
| | PMH 3 (C) | 8823 | 7885 | 17546 | 79.5 | 64.8 | 77.4 | 58.9 |
| | Seedtech-2324 (C) | 8987 | 7774 | 16898 | 79.5 | 58.9 | 77.5 | 54.7 |
| | BIO-9681 (C) | 7857 | 4711 | 16111 | 76.4 | 46.3 | 74.0 | 42.9 |
| 200:65:80 | HTMH 5106 | 11637 | 7454 | 17130 | 82.3 | 59.8 | 82.3 | 57.2 |
| | HTMH 5402 | 11960 | 5630 | 16343 | 82.6 | 42.1 | 80.6 | 40.4 |
| | PFMH-97 I 57(AMAR) | 12597 | 7505 | 18102 | 77.5 | 57.2 | 75.4 | 48.8 |
| | MCH-45 | 12220 | 8229 | 18287 | 80.9 | 61.4 | 82.0 | 57.2 |
| | P3580(X35A180) | 13083 | 6160 | 18194 | 81.6 | 58.9 | 80.3 | 54.7 |
| | PRO 385 | 11703 | 6286 | 17454 | 82.3 | 52.2 | 82.4 | 51.3 |
| | PRO 384 | 12480 | 8006 | 17731 | 83.0 | 61.4 | 81.3 | 53.9 |
| | MCH-46 | 12467 | 6943 | 18148 | 81.6 | 62.3 | 82.3 | 58.9 |
| | GK 3103 | 11180 | 7972 | 19028 | 78.8 | 70.7 | 76.1 | 58.9 |
| | PMH 1 (C) | 10300 | 5364 | 16806 | 77.5 | 49.7 | 74.3 | 46.3 |
| | PMH 3 (C) | 10000 | 7582 | 19722 | 80.9 | 66.5 | 77.5 | 59.8 |
| | Seedtech-2324 (C) | 10407 | 5440 | 16944 | 79.5 | 46.3 | 78.8 | 45.5 |
| | BIO-9681 (C) | 10090 | 4032 | 14907 | 72.2 | 61.4 | 70.9 | 44.6 |
| 250:80:100 | HTMH 5106 | 12958 | 7263 | 17222 | 81.6 | 72.4 | 82.0 | 61.4 |
| | HTMH 5402 | 12010 | 5653 | 16806 | 81.3 | 69.9 | 79.9 | 57.2 |
| | PFMH-97 I 57(AMAR) | 13550 | 6911 | 17731 | 80.9 | 64.8 | 77.8 | 46.3 |
| | MCH-45 | 13230 | 8255 | 19537 | 81.3 | 64.8 | 80.9 | 61.4 |
| | P3580(X35A180) | 14663 | 6633 | 17037 | 82.0 | 61.4 | 81.3 | 55.6 |
| | PRO 385 | 13663 | 5998 | 16991 | 82.6 | 69.9 | 81.3 | 62.3 |
| | PRO 384 | 13760 | 8308 | 19722 | 82.3 | 62.3 | 82.0 | 59.8 |
| | MCH-46 | 15207 | 6502 | 17824 | 81.9 | 74.1 | 82.7 | 65.7 |
| | GK 3103 | 14490 | 7966 | 18611 | 82.3 | 62.3 | 81.6 | 57.2 |
| | PMH 1 (C) | 12350 | 4414 | 14491 | 81.6 | 47.1 | 80.3 | 44.6 |
| | PMH 3 (C) | 13057 | 6114 | 16806 | 81.9 | 59.8 | 81.0 | 48.0 |
| | Seedtech-2324 (C) | 14023 | 4818 | 15463 | 83.0 | 48.8 | 81.6 | 47.1 |
| | BIO-9681 (C) | 12130 | 4588 | 15926 | 82.0 | 60.6 | 81.7 | 46.3 |

Cont...

| | Grain yield (kg/ha) | | Stover yield (kg/ha) | Plants ('000/ha) | | Cobs ('000/ha) | |
|--------------------|---------------------|--------|----------------------|------------------|--------|----------------|--------|
| | Bajaura | Kangra | Kangra | Bajaura | Kangra | Bajaura | Kangra |
| Location mean | 11211.7 | 6704.3 | 17496.4 | 80.8 | 61.3 | 79.5 | 54.7 |
| C.D.(5%) AiBj-AiBk | 1110.2 | 450.8 | 1401.0 | 4.6 | 6.2 | 5.6 | 5.6 |
| C.D.(5%) AiBk-AjBk | 1218.3 | 465.7 | 1525.6 | 4.5 | 6.3 | 5.8 | 6.4 |
| F(5%) | s | s | s | n.s. | s | n.s. | s |

| | | | | | | | |
|-----------------|-------|-------|-------|------|------|------|------|
| 150:50:60 | 8619 | 7034 | 17646 | 80.4 | 63.4 | 78.6 | 57.1 |
| 200:65:80 | 11548 | 6662 | 17600 | 80.1 | 57.7 | 78.8 | 52.1 |
| 250:80:100 | 13469 | 6417 | 17244 | 81.9 | 62.9 | 81.1 | 54.8 |
| C.D.(5%) Ai-Aj | 609.7 | 177.7 | 743.9 | 1.0 | 2.3 | 2.1 | 3.7 |
| C.V.(%) Error A | 8.6 | 4.2 | 6.8 | 2.0 | 6.0 | 4.3 | 10.6 |
| F(5%) | s | s | n.s. | s | s | n.s. | s |

| | | | | | | | |
|--------------------|-------|-------|-------|------|------|------|------|
| HTMH 5106 | 11420 | 7685 | 17608 | 82.3 | 67.1 | 82.3 | 60.9 |
| HTMH 5402 | 11159 | 5581 | 16914 | 81.7 | 60.6 | 79.9 | 52.7 |
| PFMH-97 I 57(AMAR) | 12133 | 7390 | 18164 | 78.4 | 63.4 | 76.1 | 49.9 |
| MCH-45 | 11431 | 8196 | 18704 | 81.6 | 66.8 | 82.1 | 62.0 |
| P3580(X35A180) | 12127 | 6225 | 17685 | 81.7 | 62.6 | 80.4 | 56.1 |
| PRO 385 | 10883 | 6021 | 17176 | 82.4 | 62.0 | 81.4 | 57.8 |
| PRO 384 | 11436 | 8036 | 18719 | 82.2 | 63.1 | 81.3 | 58.1 |
| MCH-46 | 11758 | 6708 | 17839 | 81.4 | 67.6 | 80.7 | 61.7 |
| GK 3103 | 11489 | 8206 | 18302 | 81.3 | 65.1 | 79.4 | 57.0 |
| PMH 1 (C) | 10126 | 5459 | 16235 | 78.8 | 48.0 | 76.2 | 45.5 |
| PMH 3 (C) | 10627 | 7194 | 18025 | 80.8 | 63.7 | 78.6 | 55.6 |
| Seedtech-2324 (C) | 11139 | 6011 | 16435 | 80.7 | 51.3 | 79.3 | 49.1 |
| BIO-9681 (C) | 10026 | 4444 | 15648 | 76.9 | 56.1 | 75.5 | 44.6 |
| C.D.(5%)Bi-Bj | 641.0 | 260.3 | 808.9 | 2.6 | 3.6 | 3.3 | 3.2 |
| C.V.(%)ErrorB | 6.1 | 4.1 | 4.9 | 3.5 | 6.2 | 4.4 | 6.3 |
| F(5%) | s | s | s | s | s | s | s |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plant height (cm) | | Days to 50% silking | | Net returns (Rs/ha) | B:C ratio |
|--|--------------------|----------------------|--------|---------------------|--------|---------------------------|--------------|
| | | Bajaura | Kangra | Bajaura | Kangra | Kangra | Kangra |
| 150:50:60 | HTMH 5106 | 247.0 | 266.0 | 61.3 | 58.7 | 90707 | 4.6 |
| | HTMH 5402 | 246.3 | 258.7 | 62.7 | 61.3 | 60392 | 3.6 |
| | PFMH-97 I 57(AMAR) | 229.3 | 236.7 | 59.3 | 57.7 | 85197 | 4.4 |
| | MCH-45 | 244.3 | 259.7 | 62.7 | 62.7 | 91378 | 4.7 |
| | P3580(X35A180) | 283.3 | 296.7 | 64.7 | 64.7 | 68341 | 3.7 |
| | PRO 385 | 237.3 | 261.0 | 61.7 | 59.7 | 59353 | 3.4 |
| | PRO 384 | 240.7 | 253.3 | 60.3 | 59.0 | 85679 | 4.4 |
| | MCH-46 | 248.3 | 271.7 | 63.3 | 61.3 | 72473 | 3.9 |
| | GK 3103 | 216.3 | 256.7 | 60.7 | 58.3 | 88695 | 4.5 |
| | PMH 1 (C) | 258.7 | 276.7 | 61.0 | 59.7 | 64798 | 3.6 |
| | PMH 3 (C) | 259.7 | 282.3 | 64.3 | 60.7 | 82887 | 4.3 |
| | Seedtech-2324 (C) | 219.7 | 246.7 | 62.3 | 60.3 | 80313 | 4.2 |
| | BIO-9681 (C) | 221.0 | 249.0 | 60.0 | 53.3 | 50306 | 3.0 |
| 200:65:80 | HTMH 5106 | 242.7 | 276.0 | 61.7 | 60.0 | 76247 | 3.8 |
| | HTMH 5402 | 238.7 | 262.0 | 62.7 | 62.3 | 54624 | 3.0 |
| | PFMH-97 I 57(AMAR) | 236.3 | 251.3 | 60.7 | 57.7 | 73115 | 3.7 |
| | MCH-45 | 259.3 | 265.0 | 62.3 | 62.0 | 87347 | 4.0 |
| | P3580(X35A180) | 287.7 | 323.0 | 64.3 | 65.3 | 66496 | 3.9 |
| | PRO 385 | 249.0 | 275.7 | 60.7 | 59.7 | 66459 | 4.2 |
| | PRO 384 | 245.3 | 263.3 | 60.3 | 59.3 | 80819 | 3.6 |
| | MCH-46 | 266.7 | 273.0 | 64.0 | 63.7 | 70921 | 3.6 |
| | GK 3103 | 237.7 | 258.7 | 60.3 | 56.0 | 86080 | 4.2 |
| | PMH 1 (C) | 262.7 | 296.7 | 60.3 | 57.3 | 56104 | 3.1 |
| | PMH 3 (C) | 276.0 | 285.7 | 62.7 | 61.7 | 83396 | 4.1 |
| | Seedtech-2324 (C) | 237.3 | 244.0 | 61.0 | 60.3 | 53780 | 3.0 |
| | BIO-9681 (C) | 235.3 | 248.7 | 55.3 | 55.0 | 39470 | 2.5 |
| 250:80:100 | HTMH 5106 | 237.0 | 256.3 | 60.7 | 61.7 | 72226 | 3.5 |
| | HTMH 5402 | 251.0 | 261.3 | 61.7 | 62.7 | 57066 | 3.0 |
| | PFMH-97 I 57(AMAR) | 229.3 | 241.0 | 60.0 | 56.0 | 71260 | 3.5 |
| | MCH-45 | 253.7 | 257.3 | 62.3 | 61.7 | 87865 | 4.0 |
| | P3580(X35A180) | 294.7 | 315.0 | 64.0 | 65.7 | 63941 | 3.2 |
| | PRO 385 | 258.3 | 259.3 | 60.7 | 61.3 | 60835 | 3.1 |
| | PRO 384 | 230.7 | 264.7 | 61.7 | 59.7 | 88719 | 4.1 |
| | MCH-46 | 265.7 | 285.3 | 64.3 | 64.3 | 67339 | 3.3 |
| | GK 3103 | 249.3 | 258.3 | 59.3 | 61.3 | 83353 | 3.9 |
| | PMH 1 (C) | 276.7 | 281.0 | 60.3 | 61.0 | 39622 | 2.4 |
| | PMH 3 (C) | 285.7 | 292.3 | 62.3 | 61.7 | 65010 | 3.3 |
| | Seedtech-2324 (C) | 247.3 | 253.0 | 61.7 | 61.3 | 45033 | 2.6 |
| | BIO-9681 (C) | 241.3 | 275.7 | 56.7 | 54.0 | 43540 | 2.5 |

Cont...

| | Plant height (cm) | | Days to 50% silking | | Net return (Rs/ha) | B:C ratio |
|--------------------|-------------------|--------|---------------------|--------|--------------------|-----------|
| | Bajaura | Kangra | Bajaura | Kangra | Kangra | Kangra |
| Location mean | 249.9 | 267.7 | 61.4 | 60.3 | 69773.9 | 3.6 |
| C.D.(5%) AiBj-AiBk | 9.7 | 21.7 | 1.8 | 2.2 | 8102.5 | 0.3 |
| C.D.(5%) AiBk-AjBk | 10.4 | 23.9 | 2.0 | 2.5 | 9618.5 | 0.4 |
| F(5%) | s | n.s. | s | s | s | s |

| | | | | | | |
|-----------------|-------|-------|------|------|--------|------|
| 150:50:60 | 242.5 | 262.7 | 61.9 | 59.8 | 75425 | 4.0 |
| 200:65:80 | 251.9 | 271.0 | 61.3 | 60.0 | 68835 | 3.6 |
| 250:80:100 | 255.4 | 269.3 | 61.2 | 60.9 | 65062 | 3.3 |
| C.D.(5%) Ai-Aj | 4.8 | 12.0 | 1.1 | 1.4 | 5830.6 | 0.2 |
| C.V.(%) Error A | 3.1 | 7.1 | 2.8 | 3.7 | 13.3 | 10.1 |
| F(5%) | s | n.s. | n.s. | n.s. | s | s |

| | | | | | | |
|--------------------|-------|-------|------|------|--------|-----|
| HTMH 5106 | 242.2 | 266.1 | 61.2 | 60.1 | 79727 | 4.0 |
| HTMH 5402 | 245.3 | 260.7 | 62.3 | 62.1 | 57361 | 3.2 |
| PFMH-97 I 57(AMAR) | 231.7 | 243.0 | 60.0 | 57.1 | 76524 | 3.9 |
| MCH-45 | 252.4 | 260.7 | 62.4 | 62.1 | 88863 | 4.2 |
| P3580(X35A180) | 288.6 | 311.6 | 64.3 | 65.2 | 66259 | 3.6 |
| PRO 385 | 248.2 | 265.3 | 61.0 | 60.2 | 62216 | 3.5 |
| PRO 384 | 238.9 | 260.4 | 60.8 | 59.3 | 85072 | 4.0 |
| MCH-46 | 260.2 | 276.7 | 63.9 | 63.1 | 70244 | 3.6 |
| GK 3103 | 234.4 | 257.9 | 60.1 | 58.6 | 86043 | 4.2 |
| PMH 1 (C) | 266.0 | 284.8 | 60.6 | 59.3 | 53508 | 3.0 |
| PMH 3 (C) | 273.8 | 286.8 | 63.1 | 61.3 | 77097 | 3.9 |
| Seedtech-2324 (C) | 234.8 | 247.9 | 61.7 | 60.7 | 59708 | 3.3 |
| BIO-9681 (C) | 232.6 | 257.8 | 57.3 | 54.1 | 44438 | 2.7 |
| C.D.(5%)Bi-Bj | 5.6 | 12.5 | 1.0 | 1.3 | 4678.0 | 0.2 |
| C.V.(%)ErrorB | 2.4 | 5.0 | 1.7 | 2.3 | 7.1 | 5.0 |
| F(5%) | s | s | s | s | s | s |

Table 14: Relative performance of pre-release late maturing hybrids at different NPK levels in Zone III.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | | Stover yield (kg/ha) |
|--|-------------------|------------------------|-----------|----------------------|-----------|-------------------------|
| | | Bahraich | Bhubnesh. | Bahraich | Bhubnesh. | Bahraich |
| 150:50:60 | CMH 08-381 | 5708 | 5422 | 7764 | 6933 | 2287 |
| | CMH 08-381 (G) | 5854 | 5422 | 8111 | 6911 | 2346 |
| | CMH 09-464 | 5188 | 5289 | 7257 | 6556 | 2086 |
| | P3580(X35A180) | 5264 | 5200 | 7257 | 6644 | 2108 |
| | Orbit | 5563 | 4911 | 7674 | 6222 | 2293 |
| | PMH 1 (C) | 4354 | 6467 | 6090 | 8244 | 1770 |
| | PMH 3 (C) | 4215 | 5844 | 5889 | 7444 | 1707 |
| | Seedtech-2324 (C) | 4306 | 5244 | 6014 | 6689 | 1731 |
| | BIO-9681 (C) | 3993 | 4533 | 5590 | 5800 | 1629 |
| 200:65:80 | CMH 08-381 | 6292 | 5933 | 8563 | 7600 | 2519 |
| | CMH 08-381 (G) | 7222 | 5667 | 9819 | 7200 | 2892 |
| | CMH 09-464 | 6347 | 5556 | 8750 | 6956 | 2542 |
| | P3580(X35A180) | 6521 | 5556 | 8917 | 7067 | 2614 |
| | Orbit | 6653 | 5333 | 9090 | 6756 | 2663 |
| | PMH 1 (C) | 5264 | 6622 | 7222 | 8489 | 2096 |
| | PMH 3 (C) | 5521 | 6711 | 7694 | 8356 | 2247 |
| | Seedtech-2324 (C) | 5646 | 5733 | 7813 | 7267 | 2307 |
| | BIO-9681 (C) | 4896 | 5578 | 7125 | 7089 | 1914 |
| 250:80:100 | CMH 08-381 | 6583 | 6111 | 8910 | 7800 | 2636 |
| | CMH 08-381 (G) | 8021 | 6067 | 10854 | 7622 | 3491 |
| | CMH 09-464 | 7201 | 6089 | 9882 | 7511 | 2873 |
| | P3580(X35A180) | 7236 | 6378 | 9792 | 8044 | 2927 |
| | Orbit | 7083 | 5844 | 9667 | 7378 | 2766 |
| | PMH 1 (C) | 5764 | 7333 | 7917 | 9333 | 2353 |
| | PMH 3 (C) | 6278 | 6778 | 8701 | 8489 | 2515 |
| | Seedtech-2324 (C) | 6618 | 6133 | 9083 | 7756 | 2653 |
| | BIO-9681 (C) | 5806 | 5667 | 8007 | 7200 | 2303 |
| Location mean | 5903.5 | 5830.5 | 8127.8 | 7383.5 | 2380.3 | |
| C.D.(5%) AiBj-AiBk | 116.9 | 386.6 | 209.1 | 471.7 | 150.7 | |
| C.D.(5%) AiBk-AjBk | 119.6 | 394.7 | 225.1 | 481.8 | 149.6 | |
| F(5%) | s | n.s. | s | n.s. | s | |
| 150:50:60 | 4938 | 5370 | 6850 | 6827 | 1995 | |
| 200:65:80 | 6040 | 5854 | 8333 | 7420 | 2422 | |
| 250:80:100 | 6732 | 6267 | 9201 | 7904 | 2724 | |
| C.D.(5%) Ai-Aj | 48.2 | 156.9 | 112.4 | 192.1 | 48.5 | |
| C.V.(%) Error A | 1.1 | 3.6 | 1.8 | 3.4 | 2.7 | |
| F(5%) | s | s | s | s | s | |
| CMH 08-381 | 6194 | 5822 | 8412 | 7444 | 2481 | |
| CMH 08-381 (G) | 7032 | 5719 | 9595 | 7244 | 2910 | |
| CMH 09-464 | 6245 | 5644 | 8630 | 7007 | 2500 | |
| P3580(X35A180) | 6340 | 5711 | 8655 | 7252 | 2550 | |
| Orbit | 6433 | 5363 | 8810 | 6785 | 2574 | |
| PMH 1 (C) | 5127 | 6807 | 7076 | 8689 | 2073 | |
| PMH 3 (C) | 5338 | 6444 | 7428 | 8096 | 2156 | |
| Seedtech-2324 (C) | 5523 | 5704 | 7637 | 7237 | 2230 | |
| BIO-9681 (C) | 4898 | 5259 | 6907 | 6696 | 1949 | |
| C.D.(5%) Bi-Bj | 67.5 | 223.2 | 120.7 | 272.3 | 87.0 | |
| C.V.(%) Error B | 1.2 | 4.0 | 1.6 | 3.9 | 3.9 | |
| F(5%) | s | s | s | s | s | |

Cont...

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Plants (⁰ 00/ha) | | Cobs (⁰ 00/ha) | | Plant height (cm) | |
|--|-------------------|---------------------------------|-----------|-------------------------------|-----------|----------------------|-----------|
| | | Bahraich | Bhubnesh. | Bahraich | Bhubnesh. | Bahraich | Bhubnesh. |
| 150:50:60 | CMH 08-381 | 81.9 | 52.0 | 88.2 | 52.2 | 169.0 | 156.9 |
| | CMH 08-381 (G) | 82.6 | 54.7 | 89.6 | 55.1 | 181.0 | 172.6 |
| | CMH 09-464 | 81.3 | 52.4 | 91.7 | 52.4 | 185.0 | 171.8 |
| | P3580(X35A180) | 81.9 | 52.7 | 87.5 | 52.9 | 183.0 | 181.5 |
| | Orbit | 81.3 | 51.8 | 88.9 | 51.8 | 157.0 | 149.4 |
| | PMH 1 (C) | 82.6 | 52.4 | 85.4 | 52.4 | 183.0 | 159.8 |
| | PMH 3 (C) | 82.6 | 53.1 | 87.5 | 53.1 | 182.3 | 176.7 |
| | Seedtech-2324 (C) | 81.9 | 52.4 | 84.7 | 52.4 | 187.7 | 143.0 |
| 200:65:80 | BIO-9681 (C) | 81.9 | 52.4 | 83.3 | 52.4 | 174.7 | 147.5 |
| | CMH 08-381 | 82.6 | 53.1 | 89.6 | 53.1 | 176.7 | 173.4 |
| | CMH 08-381 (G) | 82.6 | 51.6 | 91.7 | 51.8 | 195.0 | 175.4 |
| | CMH 09-464 | 81.9 | 52.9 | 89.6 | 52.9 | 195.3 | 178.3 |
| | P3580(X35A180) | 83.3 | 50.9 | 89.6 | 50.9 | 196.7 | 180.0 |
| | Orbit | 82.6 | 51.3 | 88.2 | 51.3 | 168.3 | 152.2 |
| | PMH 1 (C) | 82.6 | 51.6 | 88.2 | 51.6 | 196.0 | 176.5 |
| | PMH 3 (C) | 82.6 | 52.4 | 88.2 | 52.4 | 197.3 | 181.6 |
| 250:80:100 | Seedtech-2324 (C) | 82.6 | 52.4 | 89.6 | 52.4 | 199.0 | 153.0 |
| | BIO-9681 (C) | 82.6 | 54.2 | 87.5 | 54.4 | 190.0 | 150.2 |
| | CMH 08-381 | 83.3 | 51.8 | 90.3 | 52.0 | 186.0 | 188.1 |
| | CMH 08-381 (G) | 83.3 | 52.7 | 93.8 | 52.7 | 211.0 | 171.2 |
| | CMH 09-464 | 83.3 | 51.6 | 93.1 | 51.8 | 214.0 | 185.6 |
| | P3580(X35A180) | 82.6 | 53.1 | 90.3 | 53.1 | 215.0 | 203.8 |
| | Orbit | 82.6 | 52.7 | 86.8 | 52.7 | 176.3 | 166.6 |
| | PMH 1 (C) | 82.6 | 54.7 | 89.6 | 55.1 | 204.0 | 212.3 |
| Location mean | PMH 3 (C) | 83.3 | 52.0 | 88.2 | 52.0 | 206.0 | 211.1 |
| | Seedtech-2324 (C) | 82.6 | 53.3 | 89.6 | 53.6 | 204.7 | 162.1 |
| | BIO-9681 (C) | 83.3 | 52.4 | 87.5 | 52.4 | 197.7 | 167.7 |
| Location mean | | 82.6 | 52.5 | 88.8 | 52.6 | 190.1 | 172.2 |
| C.D.(5%) AiBj-AiBk | | 2.0 | 2.5 | 3.4 | 2.4 | 1.7 | 7.5 |
| C.D.(5%) AiBk-AjBk | | 2.1 | 2.5 | 3.7 | 2.4 | 1.8 | 7.5 |
| F(5%) | | n.s. | n.s. | n.s. | s | s | s |

| | | | | | | |
|-----------------|------|------|------|------|-------|-------|
| 150:50:60 | 82.0 | 52.7 | 87.4 | 52.8 | 178.1 | 162.1 |
| 200:65:80 | 82.6 | 52.3 | 89.1 | 52.3 | 190.5 | 168.9 |
| 250:80:100 | 83.0 | 52.7 | 89.9 | 52.8 | 201.6 | 185.4 |
| C.D.(5%) Ai-Aj | 0.8 | 0.8 | 1.9 | 0.9 | 1.0 | 2.6 |
| C.V.(%) Error A | 1.3 | 2.1 | 2.8 | 2.3 | 0.7 | 2.0 |
| F(5%) | n.s. | n.s. | s | n.s. | s | s |

| | | | | | | |
|-------------------|------|------|------|------|-------|-------|
| CMH 08-381 | 82.6 | 52.3 | 89.4 | 52.4 | 177.2 | 172.8 |
| CMH 08-381 (G) | 82.9 | 53.0 | 91.7 | 53.2 | 195.7 | 173.1 |
| CMH 09-464 | 82.2 | 52.3 | 91.4 | 52.4 | 198.1 | 178.6 |
| P3580(X35A180) | 82.6 | 52.2 | 89.1 | 52.3 | 198.2 | 188.4 |
| Orbit | 82.2 | 51.9 | 88.0 | 51.9 | 167.2 | 156.1 |
| PMH 1 (C) | 82.6 | 52.9 | 87.7 | 53.0 | 194.3 | 182.8 |
| PMH 3 (C) | 82.9 | 52.5 | 88.0 | 52.5 | 195.2 | 189.8 |
| Seedtech-2324 (C) | 82.4 | 52.7 | 88.0 | 52.8 | 197.1 | 152.7 |
| BIO-9681 (C) | 82.6 | 53.0 | 86.1 | 53.1 | 187.4 | 155.2 |
| C.D.(5%)Bi-Bj | 1.2 | 1.4 | 2.0 | 1.4 | 1.0 | 4.4 |
| C.V.(%)ErrorB | 1.5 | 2.9 | 2.4 | 2.7 | 0.5 | 2.7 |
| F(5%) | n.s. | n.s. | s | n.s. | s | s |

Cont....

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Days to 50% Silking | Nitrogen uptake (kg/ha) | Potassium uptake (kg/ha) | Phosphorus uptake (kg/ha) |
|--|-------------------|------------------------|-------------------------------|--------------------------------|---------------------------------|
| | | Bhubnesh. | Bahraich | | |
| 150:50:60 | CMH 08-381 | 57.3 | 151.5 | 40.0 | 22.9 |
| | CMH 08-381 (G) | 59.0 | 155.4 | 41.1 | 23.5 |
| | CMH 09-464 | 56.0 | 149.2 | 36.4 | 20.8 |
| | P3580(X35A180) | 57.3 | 139.7 | 36.9 | 21.1 |
| | Orbit | 55.0 | 147.7 | 39.0 | 21.7 |
| | PMH 1 (C) | 56.0 | 115.6 | 30.5 | 17.5 |
| | PMH 3 (C) | 57.0 | 111.8 | 29.5 | 16.9 |
| | Seedtech-2324 (C) | 54.7 | 114.6 | 30.3 | 17.3 |
| 200:65:80 | BIO-9681 (C) | 54.3 | 106.1 | 28.0 | 16.0 |
| | CMH 08-381 | 56.0 | 167.1 | 44.1 | 25.2 |
| | CMH 08-381 (G) | 56.0 | 165.0 | 50.6 | 28.9 |
| | CMH 09-464 | 56.0 | 168.5 | 44.5 | 25.4 |
| | P3580(X35A180) | 57.0 | 173.2 | 45.8 | 26.1 |
| | Orbit | 55.3 | 176.6 | 46.7 | 26.7 |
| | PMH 1 (C) | 54.0 | 139.7 | 36.9 | 21.1 |
| | PMH 3 (C) | 56.7 | 146.8 | 38.8 | 22.2 |
| 250:80:100 | Seedtech-2324 (C) | 54.0 | 149.7 | 39.6 | 22.6 |
| | BIO-9681 (C) | 52.7 | 129.9 | 34.3 | 19.6 |
| | CMH 08-381 | 56.7 | 174.7 | 46.1 | 26.4 |
| | CMH 08-381 (G) | 57.0 | 212.8 | 56.2 | 32.1 |
| | CMH 09-464 | 55.0 | 191.1 | 50.5 | 28.8 |
| | P3580(X35A180) | 55.0 | 192.0 | 50.7 | 29.0 |
| | Orbit | 54.0 | 187.8 | 49.6 | 28.4 |
| | PMH 1 (C) | 53.0 | 153.3 | 40.5 | 23.1 |
| PMH 3 (C) | 54.7 | 166.8 | 44.0 | 25.2 | |
| Seedtech-2324 (C) | 54.0 | 175.7 | 46.4 | 26.5 | |
| BIO-9681 (C) | 52.7 | 154.1 | 40.7 | 23.3 | |
| Location mean | | 55.4 | 156.2 | 41.4 | 23.6 |
| C.D.(5%) AiBj-AiBk | | 1.3 | 16.7 | 0.8 | 0.6 |
| C.D.(5%) AiBk-AjBk | | 2.0 | 16.7 | 0.8 | 0.7 |
| F(5%) | | s | n.s. | s | s |
| 150:50:60 | | 56.3 | 132.4 | 34.6 | 19.7 |
| 200:65:80 | | 55.3 | 157.4 | 42.4 | 24.2 |
| 250:80:100 | | 54.7 | 178.7 | 47.2 | 27.0 |
| C.D.(5%) Ai-Aj | | 1.6 | 5.8 | 0.3 | 0.3 |
| C.V.(%) Error A | | 3.9 | 4.9 | 1.0 | 1.7 |
| F(5%) | | n.s. | s | s | s |
| CMH 08-381 | | 56.7 | 164.4 | 43.4 | 24.8 |
| CMH 08-381 (G) | | 57.3 | 177.7 | 49.3 | 28.2 |
| CMH 09-464 | | 55.7 | 169.6 | 43.8 | 25.0 |
| P3580(X35A180) | | 56.4 | 168.3 | 44.5 | 25.4 |
| Orbit | | 54.8 | 170.7 | 45.1 | 25.6 |
| PMH 1 (C) | | 54.3 | 136.2 | 36.0 | 20.6 |
| PMH 3 (C) | | 56.1 | 141.8 | 37.4 | 21.4 |
| Seedtech-2324 (C) | | 54.2 | 146.7 | 38.7 | 22.1 |
| BIO-9681 (C) | | 53.2 | 130.1 | 34.4 | 19.6 |
| C.D.(5%)Bi-Bj | | 0.7 | 9.6 | 0.5 | 0.4 |
| C.V.(%)ErrorB | | 1.4 | 6.5 | 1.2 | 1.6 |
| F(5%) | | s | s | s | s |

Table 15: Relative performance of pre-release late maturing hybrids at different NPK levels in Zone IV.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | | Cob yield (kg/ha) | | Straw yield (kg/ha) | Plants (⁰ 000/ha) |
|--|-------------------|------------------------|------------|----------------------|------------|------------------------|----------------------------------|
| | | Hyderabad | Karimnagar | Hyderabad | Karimnagar | Hyderabad | Hyderabad |
| 150:50:60 | Laxmi 333 | 7060 | 8582 | 10212 | 11158 | 8392 | 63.9 |
| | CMH 08-381 | 6549 | 9791 | 9768 | 12531 | 7592 | 65.0 |
| | P 4546 | 6860 | 9599 | 9324 | 11644 | 8858 | 59.1 |
| | P3580(X35A180) | 8325 | 10222 | 10212 | 12913 | 8791 | 65.5 |
| | PRO 385 | 7703 | 8715 | 9102 | 11133 | 8525 | 58.2 |
| | MCH-46 | 8125 | 10011 | 9990 | 11793 | 8880 | 55.9 |
| | S 6668 | 7215 | 9264 | 8547 | 11424 | 8192 | 64.2 |
| | HTMH 5106 | 8125 | 10137 | 11100 | 12684 | 8569 | 65.0 |
| | PMH 1 (C) | 6194 | 8619 | 8103 | 10236 | 7992 | 56.2 |
| | PMH 3 (C) | 6860 | 8471 | 9324 | 10693 | 8569 | 58.8 |
| | Seedtech-2324 (C) | 7326 | 7703 | 8658 | 9469 | 8725 | 60.2 |
| | BIO-9681 (C) | 7592 | 6133 | 7326 | 7422 | 8147 | 66.2 |
| 200:65:80 | Laxmi 333 | 8614 | 8883 | 9324 | 11529 | 9679 | 63.9 |
| | CMH 08-381 | 8281 | 9812 | 10656 | 12642 | 9524 | 61.3 |
| | P 4546 | 8836 | 9756 | 9990 | 12269 | 10012 | 65.7 |
| | P3580(X35A180) | 9590 | 10443 | 11766 | 13678 | 10256 | 64.6 |
| | PRO 385 | 8991 | 9427 | 13986 | 11289 | 9613 | 65.5 |
| | MCH-46 | 9435 | 10092 | 13986 | 12464 | 9946 | 64.8 |
| | S 6668 | 8325 | 9512 | 12432 | 12042 | 9746 | 66.4 |
| | HTMH 5106 | 9901 | 10188 | 13875 | 12889 | 9812 | 65.3 |
| | PMH 1 (C) | 8414 | 9267 | 11100 | 11131 | 9835 | 64.6 |
| | PMH 3 (C) | 8325 | 8752 | 12099 | 11276 | 9502 | 60.6 |
| | Seedtech-2324 (C) | 8858 | 8545 | 11322 | 10355 | 9368 | 65.7 |
| | BIO-9681 (C) | 9280 | 6340 | 9324 | 7558 | 9502 | 61.3 |
| 250:80:100 | Laxmi 333 | 9790 | 9385 | 13542 | 12122 | 10967 | 62.6 |
| | CMH 08-381 | 8902 | 10209 | 12876 | 13309 | 9590 | 65.9 |
| | P 4546 | 9701 | 10142 | 12432 | 12649 | 10589 | 65.0 |
| | P3580(X35A180) | 10367 | 11384 | 14097 | 14324 | 11611 | 63.0 |
| | PRO 385 | 9835 | 9862 | 14874 | 12009 | 10212 | 63.5 |
| | MCH-46 | 9746 | 10734 | 11766 | 13116 | 10478 | 61.1 |
| | S 6668 | 9613 | 9991 | 12654 | 12307 | 10434 | 64.8 |
| | HTMH 5106 | 10168 | 10928 | 13542 | 13386 | 11300 | 61.3 |
| | PMH 1 (C) | 9102 | 9486 | 11100 | 11720 | 10434 | 64.2 |
| | PMH 3 (C) | 9013 | 9128 | 11322 | 11807 | 9879 | 62.8 |
| | Seedtech-2324 (C) | 9546 | 9084 | 12210 | 11524 | 9946 | 58.8 |
| | BIO-9681 (C) | 9835 | 8412 | 10656 | 9809 | 10168 | 59.3 |

Cont...

A-40

| | Grain yield (kg/ha) | | Cob yield (kg/ha) | | Straw yield (kg/ha) | Plants ('000/ha) |
|--------------------|------------------------|------------|----------------------|------------|------------------------|---------------------|
| | Hyderabad | Karimnagar | Hyderabad | Karimnagar | Hyderabad | Hyderabad |
| Location mean | 8622.2 | 9361.3 | 11183.3 | 11675.1 | 9545.4 | 62.8 |
| C.D.(5%) AiBj-AiBk | 705.3 | 1244.4 | 2360.7 | 1071.0 | 777.3 | 5.2 |
| C.D.(5%) AiBk-AjBk | 765.8 | 1289.0 | 4037.6 | 1114.0 | 761.2 | 6.0 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | s |

| | | | | | | |
|-----------------|-------|-------|--------|-------|-------|------|
| 150:50:60 | 7328 | 8937 | 9306 | 11092 | 8436 | 61.5 |
| 200:65:80 | 8904 | 9251 | 11655 | 11594 | 9733 | 64.1 |
| 250:80:100 | 9635 | 9895 | 12589 | 12340 | 10467 | 62.7 |
| C.D.(5%) Ai-Aj | 374.0 | 510.6 | 3407.7 | 451.6 | 166.5 | 3.5 |
| C.V.(%) Error A | 6.6 | 8.3 | 46.6 | 5.9 | 2.7 | 8.5 |
| F(5%) | s | s | n.s. | s | s | n.s. |

| | | | | | | |
|-------------------|-------|-------|--------|-------|-------|------|
| Laxmi 333 | 8488 | 8950 | 11026 | 11603 | 9679 | 63.5 |
| CMH 08-381 | 7911 | 9937 | 11100 | 12828 | 8902 | 64.1 |
| P 4546 | 8466 | 9832 | 10582 | 12187 | 9820 | 63.3 |
| P3580(X35A180) | 9427 | 10683 | 12025 | 13638 | 10219 | 64.4 |
| PRO 385 | 8843 | 9335 | 12654 | 11477 | 9450 | 62.4 |
| MCH-46 | 9102 | 10279 | 11914 | 12458 | 9768 | 60.6 |
| S 6668 | 8384 | 9589 | 11211 | 11924 | 9457 | 65.1 |
| HTMH 5106 | 9398 | 10418 | 12839 | 12987 | 9894 | 63.9 |
| PMH 1 (C) | 7903 | 9124 | 10101 | 11029 | 9420 | 61.6 |
| PMH 3 (C) | 8066 | 8784 | 10915 | 11258 | 9317 | 60.8 |
| Seedtech-2324 (C) | 8577 | 8444 | 10730 | 10450 | 9346 | 61.6 |
| BIO-9681 (C) | 8902 | 6961 | 9102 | 8263 | 9272 | 62.2 |
| C.D.(5%)Bi-Bj | 407.2 | 718.5 | 1363.0 | 618.4 | 448.8 | 3.0 |
| C.V.(%)ErrorB | 5.0 | 8.1 | 12.9 | 5.6 | 5.0 | 5.1 |
| F(5%) | s | s | s | s | s | n.s. |

Cont...

A-41

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Cobs (⁰ 00/ha) | Plant height (cm) | | Days to 50% tasseling | | Days to 50% silking | |
|--|-------------------|-------------------------------|----------------------|--------|-----------------------|--------|---------------------|--------|
| | | Hyderabad | Hyderabad | Karim. | Hyderabad | Karim. | Hyderabad | Karim. |
| 150:50:60 | Laxmi 333 | 59.1 | 181.0 | 182.7 | 62.0 | 52.3 | 64.0 | 54.3 |
| | CMH 08-381 | 58.6 | 175.7 | 217.0 | 61.7 | 54.0 | 63.7 | 56.0 |
| | P 4546 | 57.1 | 178.7 | 200.3 | 62.3 | 55.7 | 64.3 | 57.7 |
| | P3580(X35A180) | 59.7 | 224.0 | 201.7 | 61.3 | 54.3 | 63.3 | 56.3 |
| | PRO 385 | 54.6 | 196.3 | 203.0 | 60.7 | 52.7 | 63.7 | 54.7 |
| | MCH-46 | 53.1 | 173.3 | 216.7 | 60.7 | 54.3 | 63.7 | 56.3 |
| | S 6668 | 55.5 | 183.7 | 204.7 | 62.0 | 56.7 | 65.0 | 58.7 |
| | HTMH 5106 | 62.8 | 201.7 | 191.0 | 61.3 | 51.7 | 64.3 | 53.7 |
| | PMH 1 (C) | 54.4 | 190.0 | 220.7 | 61.3 | 53.7 | 63.3 | 55.7 |
| | PMH 3 (C) | 60.2 | 219.7 | 220.3 | 61.3 | 55.7 | 63.3 | 57.7 |
| | Seedtech-2324 (C) | 57.5 | 181.7 | 186.0 | 62.0 | 54.3 | 64.0 | 56.3 |
| | BIO-9681 (C) | 58.4 | 192.3 | 189.7 | 61.7 | 53.0 | 63.7 | 55.0 |
| 200:65:80 | Laxmi 333 | 60.2 | 182.3 | 196.7 | 57.7 | 52.7 | 59.7 | 54.7 |
| | CMH 08-381 | 59.1 | 204.0 | 218.3 | 58.0 | 55.3 | 60.0 | 57.3 |
| | P 4546 | 64.2 | 187.7 | 200.7 | 58.0 | 56.0 | 60.0 | 58.0 |
| | P3580(X35A180) | 65.0 | 233.3 | 234.3 | 56.3 | 54.0 | 59.3 | 56.0 |
| | PRO 385 | 64.2 | 221.0 | 215.3 | 56.7 | 52.3 | 59.7 | 54.3 |
| | MCH-46 | 65.5 | 202.7 | 221.3 | 58.3 | 55.7 | 60.3 | 57.7 |
| | S 6668 | 63.7 | 190.0 | 207.3 | 57.7 | 56.7 | 59.7 | 58.7 |
| | HTMH 5106 | 64.8 | 209.7 | 194.7 | 57.7 | 52.0 | 59.7 | 54.0 |
| | PMH 1 (C) | 61.7 | 203.0 | 222.0 | 57.0 | 53.0 | 59.0 | 55.0 |
| | PMH 3 (C) | 62.8 | 221.7 | 234.0 | 57.3 | 54.7 | 59.3 | 56.7 |
| | Seedtech-2324 (C) | 59.1 | 191.3 | 213.0 | 58.0 | 51.7 | 60.0 | 53.7 |
| | BIO-9681 (C) | 59.7 | 206.7 | 209.7 | 57.3 | 50.7 | 59.3 | 52.7 |
| 250:80:100 | Laxmi 333 | 61.1 | 190.3 | 197.7 | 57.7 | 53.3 | 59.7 | 55.3 |
| | CMH 08-381 | 63.3 | 210.3 | 227.7 | 58.7 | 55.7 | 60.7 | 57.7 |
| | P 4546 | 67.3 | 198.3 | 211.3 | 58.3 | 56.0 | 60.3 | 58.0 |
| | P3580(X35A180) | 65.7 | 235.0 | 238.0 | 57.3 | 53.3 | 59.3 | 55.3 |
| | PRO 385 | 65.0 | 230.7 | 221.7 | 56.7 | 50.7 | 59.7 | 52.7 |
| | MCH-46 | 63.3 | 213.0 | 224.7 | 56.7 | 56.7 | 59.7 | 58.7 |
| | S 6668 | 66.8 | 197.0 | 235.7 | 57.7 | 52.3 | 60.7 | 54.3 |
| | HTMH 5106 | 70.8 | 225.7 | 196.7 | 56.7 | 52.7 | 59.7 | 54.7 |
| | PMH 1 (C) | 60.2 | 217.0 | 232.3 | 58.3 | 51.7 | 60.3 | 53.7 |
| | PMH 3 (C) | 62.8 | 226.3 | 249.0 | 57.3 | 54.0 | 59.3 | 56.0 |
| | Seedtech-2324 (C) | 59.7 | 200.0 | 221.7 | 57.0 | 51.7 | 59.0 | 53.7 |
| | BIO-9681 (C) | 59.9 | 213.3 | 212.0 | 58.0 | 50.3 | 60.0 | 52.3 |

Cont...

| | Cobs (⁰ 000/ha) | Plant height (cm) | | Days to 50% tasseling | | Days to 50% silking | |
|--------------------|--------------------------------|----------------------|------------|-----------------------|------------|---------------------|------------|
| | Hyderabad | Hyderabad | Karimnagar | Hyderabad | Karimnagar | Hyderabad | Karimnagar |
| Location mean | 61.3 | 203.0 | 213.0 | 58.9 | 53.6 | 61.1 | 55.6 |
| C.D.(5%) AiBj-AiBk | 6.2 | 26.9 | 31.5 | 1.5 | 2.8 | 1.5 | 2.8 |
| C.D.(5%) AiBk-AjBk | 6.4 | 38.9 | 30.9 | 1.6 | 2.9 | 1.6 | 3.0 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------------|------|-------|-------|------|------|------|------|
| 150:50:60 | 57.6 | 191.5 | 202.8 | 61.5 | 54.0 | 63.9 | 56.0 |
| 200:65:80 | 62.5 | 204.4 | 213.9 | 57.5 | 53.7 | 59.7 | 55.7 |
| 250:80:100 | 63.8 | 213.1 | 222.4 | 57.5 | 53.2 | 59.9 | 55.2 |
| C.D.(5%) Ai-Aj | 2.5 | 29.9 | 7.3 | 0.6 | 1.1 | 0.6 | 1.3 |
| C.V.(%) Error A | 6.2 | 22.5 | 5.2 | 1.5 | 3.1 | 1.4 | 3.6 |
| F(5%) | s | n.s. | s | s | n.s. | s | n.s. |

| | | | | | | | |
|-------------------|------|-------|-------|------|------|------|------|
| Laxmi 333 | 60.1 | 184.6 | 192.3 | 59.1 | 52.8 | 61.1 | 54.8 |
| CMH 08-381 | 60.3 | 196.7 | 221.0 | 59.4 | 55.0 | 61.4 | 57.0 |
| P 4546 | 62.8 | 188.2 | 204.1 | 59.6 | 55.9 | 61.6 | 57.9 |
| P3580(X35A180) | 63.5 | 230.8 | 224.7 | 58.3 | 53.9 | 60.7 | 55.9 |
| PRO 385 | 61.3 | 216.0 | 213.3 | 58.0 | 51.9 | 61.0 | 53.9 |
| MCH-46 | 60.6 | 196.3 | 220.9 | 58.6 | 55.6 | 61.2 | 57.6 |
| S 6668 | 62.0 | 190.2 | 215.9 | 59.1 | 55.2 | 61.8 | 57.2 |
| HTMH 5106 | 66.2 | 212.3 | 194.1 | 58.6 | 52.1 | 61.2 | 54.1 |
| PMH 1 (C) | 58.8 | 203.3 | 225.0 | 58.9 | 52.8 | 60.9 | 54.8 |
| PMH 3 (C) | 61.9 | 222.6 | 234.4 | 58.7 | 54.8 | 60.7 | 56.8 |
| Seedtech-2324 (C) | 58.8 | 191.0 | 206.9 | 59.0 | 52.6 | 61.0 | 54.6 |
| BIO-9681 (C) | 59.3 | 204.1 | 203.8 | 59.0 | 51.3 | 61.0 | 53.3 |
| C.D.(5%)Bi-Bj | 3.6 | 15.5 | 18.2 | 0.9 | 1.6 | 0.9 | 1.6 |
| C.V.(%)ErrorB | 6.2 | 8.1 | 9.1 | 1.6 | 3.2 | 1.5 | 3.1 |
| F(5%) | s | s | s | s | s | n.s. | s |

Table 16: Relative performance of pre-release late maturing hybrids at different NPK levels in Zone V.

| N:P ₂ O ₅ :K ₂ O (kg/ha) | Hybrids | Grain yield (kg/ha) | Plants (⁰ 000/ha) | Cobs (⁰ 000/ha) | Days to 50% tasseling | Days to 50% silking | Plant height (cm) |
|--|--------------------|------------------------|----------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------------|
| | | | | | | | |
| 150:50:60 | PFMH-97 I 57(AMAR) | 957 | 52.7 | 36.7 | 49.0 | 55.0 | 245.5 |
| | CP 333 | 6026 | 64.0 | 65.3 | 51.0 | 58.0 | 230.0 |
| | P4546 | 4933 | 63.3 | 62.7 | 49.3 | 55.0 | 250.0 |
| | P3580(X35A180) | 4838 | 64.0 | 63.3 | 51.0 | 58.0 | 270.3 |
| | MCH-46 | 4640 | 65.3 | 62.0 | 53.0 | 58.0 | 258.0 |
| | PMH 1 (C) | 4334 | 54.0 | 61.3 | 53.0 | 58.0 | 260.0 |
| | PMH 3 (C) | 4521 | 61.7 | 61.5 | 50.0 | 55.3 | 257.0 |
| | Seedtech-2324 (C) | 1238 | 55.3 | 43.3 | 52.0 | 56.0 | 228.0 |
| | BIO-9681 (C) | 4744 | 58.2 | 63.2 | 47.0 | 52.0 | 246.3 |
| 200:65:80 | PFMH-97 I 57(AMAR) | 1027 | 53.7 | 37.3 | 48.8 | 55.0 | 253.0 |
| | CP 333 | 6226 | 63.5 | 66.0 | 50.8 | 58.0 | 233.0 |
| | P4546 | 5134 | 63.7 | 65.0 | 48.8 | 55.0 | 253.0 |
| | P3580(X35A180) | 5032 | 64.2 | 64.7 | 50.0 | 58.0 | 272.8 |
| | MCH-46 | 4729 | 64.0 | 62.7 | 52.8 | 58.0 | 260.0 |
| | PMH 1 (C) | 4424 | 53.8 | 62.0 | 52.8 | 58.0 | 263.0 |
| | PMH 3 (C) | 4715 | 62.2 | 63.3 | 49.8 | 55.0 | 260.0 |
| | Seedtech-2324 (C) | 1264 | 55.7 | 44.0 | 51.8 | 56.0 | 230.8 |
| | BIO-9681 (C) | 4997 | 58.2 | 63.8 | 46.8 | 52.0 | 250.5 |
| 250:80:100 | PFMH-97 I 57(AMAR) | 1116 | 53.2 | 36.0 | 48.0 | 55.0 | 253.0 |
| | CP 333 | 6336 | 62.7 | 65.3 | 50.5 | 58.0 | 233.0 |
| | P4546 | 5228 | 63.7 | 62.0 | 48.0 | 55.0 | 252.0 |
| | P3580(X35A180) | 5165 | 62.7 | 62.8 | 51.3 | 58.0 | 273.0 |
| | MCH-46 | 4827 | 64.0 | 61.3 | 52.0 | 58.0 | 259.8 |
| | PMH 1 (C) | 4533 | 52.8 | 60.7 | 52.3 | 58.0 | 263.0 |
| | PMH 3 (C) | 4820 | 62.3 | 62.0 | 48.5 | 55.5 | 260.0 |
| | Seedtech-2324 (C) | 1301 | 57.5 | 43.8 | 51.0 | 56.0 | 230.3 |
| | BIO-9681 (C) | 5031 | 58.5 | 63.0 | 46.0 | 52.0 | 252.0 |
| Location mean | 4153.1 | 59.8 | 58.0 | 50.2 | 56.1 | 251.7 | |
| C.D.(5%) AiBj-AiBk | 601.7 | 3.8 | 4.6 | 1.7 | 3.0 | 10.4 | |
| C.D.(5%) AiBk-AjBk | 635.6 | 4.5 | 4.8 | 1.8 | 3.2 | 11.6 | |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | |
| 150:50:60 | 4026 | 59.8 | 57.7 | 50.6 | 56.1 | 249.4 | |
| 200:65:80 | 4172 | 59.9 | 58.8 | 50.2 | 56.1 | 252.9 | |
| 250:80:100 | 4262 | 59.7 | 57.4 | 49.7 | 56.2 | 252.9 | |
| C.D.(5%) Ai-Aj | 290.9 | 2.7 | 2.0 | 0.9 | 1.4 | 6.3 | |
| C.V.(%) Error A | 12.1 | 7.8 | 6.1 | 3.1 | 4.2 | 4.4 | |
| F(5%) | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | |
| PFMH-97 I 57(AMAR) | 1033 | 53.2 | 36.7 | 48.6 | 55.0 | 250.5 | |
| CP 333 | 6196 | 63.4 | 65.6 | 50.8 | 58.0 | 232.0 | |
| P4546 | 5098 | 63.6 | 63.2 | 48.7 | 55.0 | 251.7 | |
| P3580(X35A180) | 5012 | 63.6 | 63.6 | 50.8 | 58.0 | 272.0 | |
| MCH-46 | 4732 | 64.4 | 62.0 | 52.6 | 58.0 | 259.3 | |
| PMH 1 (C) | 4430 | 53.6 | 61.3 | 52.7 | 58.0 | 262.0 | |
| PMH 3 (C) | 4686 | 62.1 | 62.3 | 49.4 | 55.3 | 259.0 | |
| Seedtech-2324 (C) | 1268 | 56.2 | 43.7 | 51.6 | 56.0 | 229.7 | |
| BIO-9681 (C) | 4924 | 58.3 | 63.3 | 46.6 | 52.0 | 249.6 | |
| C.D.(5%)Bi-Bj | 347.4 | 2.2 | 2.7 | 1.0 | 1.8 | 6.0 | |
| C.V.(%)ErrorB | 10.3 | 4.5 | 5.7 | 2.4 | 3.8 | 2.9 | |
| F(5%) | s | s | s | s | s | s | |

Table 17: Effect of planting systems and intercropping with and without residue retention on early maturing maize hybrids -wheat cropping system under rainfed conditions at Bajaura.

| Residue level | Row arrangement | Intercrops | Grain yield (kg/ha) | Inter crop seed yield (kg/ha) | Maize Equivalent yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|------------------|-----------------|------------|---------------------|-------------------------------|--------------------------------|------------------|----------------|-------------------|
| Residue | Equal row | Soybean | 8147 | 17.4 | 8207 | 58.8 | 58.4 | 190.3 |
| | | Black gram | 6827 | 734.0 | 8657 | 59.3 | 58.2 | 178.0 |
| | Paired row | Soybean | 7330 | 19.1 | 7400 | 53.6 | 53.0 | 187.3 |
| | | Black gram | 6917 | 523.3 | 8220 | 55.8 | 55.5 | 187.0 |
| No Residue | Equal row | Soybean | 5270 | 30.2 | 5373 | 56.0 | 55.3 | 171.7 |
| | | Black gram | 4573 | 703.0 | 6333 | 58.7 | 58.0 | 174.7 |
| | Paired row | Soybean | 6617 | 36.0 | 6743 | 59.9 | 45.2 | 189.7 |
| | | Black gram | 6180 | 458.0 | 7326.7 | 56.0 | 56.2 | 184.0 |
| Mean of location | | | 6482.5 | 315.1 | 7282.5 | 57.3 | 55.0 | 182.8 |

| | | | | | | |
|----------------------------------|-------|-------|-------|------|------|-------|
| Residue (5T/ha as surface mulch) | 7305 | 323.5 | 8121 | 56.9 | 56.3 | 185.7 |
| No Residue (Clean fields) | 5660 | 306.8 | 6444 | 57.7 | 53.7 | 180.0 |
| C. D. at (5%) | 585.8 | 39.1 | 570.4 | 4.4 | 8.4 | 7.8 |
| Significance | S | N.S. | S | N.S. | N.S. | N.S. |

| | | | | | | |
|------------------------|-------|-------|-------|------|------|-------|
| Equal row at 67cm | 6204 | 371.2 | 7143 | 58.2 | 57.5 | 178.7 |
| Paired rows (84:50 cm) | 6761 | 259.1 | 7423 | 56.3 | 52.5 | 187.0 |
| C. D. at (5%) | 585.8 | 39.1 | 570.4 | 4.4 | 8.4 | 7.8 |
| Significance | N.S. | S | N.S. | N.S. | N.S. | S |

| | | | | | | |
|--------------------------|-------|-------|-------|------|------|-------|
| Soybean (Shiwalik) | 6841 | 25.7 | 6931 | 57.1 | 53.0 | 184.8 |
| Black Gram (Palampur 93) | 6124 | 604.6 | 7634 | 57.4 | 57.0 | 180.9 |
| C. D. at (5%) | 585.8 | 39.1 | 570.4 | 4.4 | 8.4 | 7.8 |
| Significance | S | S | S | N.S. | N.S. | N.S. |

Treatment details:

Main plot: Residue levels

R1 Residue (5T/ha as surface mulch)

R2 No Residue (Clean fields)

Sub plot: Row arrangement

ER Equal row at 67cm

PR Paired rows (84:50 cm)

Sub-sub plot: Intercrops

IC1 Soybean (Shiwalik)

IC2 Black Gram (Palampur 93)

Table 18: Effect of planting systems and intercropping with and without residue retention under rainfed conditions on crop performance at Ranchi.

| Row arrangement | Intercropping | Residue level | Maize | | | | | |
|------------------|---------------|---------------|---------------------|----------------------|------------------|----------------|-------------------|---------------------|
| | | | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
| Equal row | Soybean | No residue | 5023 | 8052 | 65.4 | 64.6 | 238.0 | 57.3 |
| | | Residue | 5453 | 8481 | 65.0 | 64.4 | 244.9 | 58.3 |
| | Black gram | No residue | 5784 | 9367 | 66.7 | 65.8 | 245.6 | 57.3 |
| | | Residue | 6910 | 10517 | 66.9 | 65.8 | 247.6 | 57.3 |
| Paired row | Soybean | No residue | 6234 | 9793 | 67.5 | 66.3 | 232.3 | 58.0 |
| | | Residue | 6191 | 9899 | 67.3 | 66.7 | 245.3 | 56.0 |
| | Black gram | No residue | 5780 | 9175 | 66.3 | 65.4 | 235.6 | 57.0 |
| | | Residue | 6274 | 10536 | 65.8 | 65.8 | 246.6 | 55.0 |
| Mean of location | | | 5956.1 | 9477.6 | 66.4 | 65.6 | 242.0 | 57.0 |

| | | | | | | |
|------------------------|-------|-------|------|------|-------|------|
| Equal rows at 67 cm | 5793 | 9104 | 66.0 | 65.2 | 244.0 | 57.6 |
| Paired rows (84:50 cm) | 6120 | 9851 | 66.7 | 66.0 | 239.9 | 56.5 |
| C. D. at (5%) | 403.5 | 578.9 | 2.9 | 2.9 | 10.0 | 0.9 |
| Significance | N.S. | S | N.S. | N.S. | N.S. | S |

| | | | | | | |
|--------------------|-------|-------|------|------|-------|------|
| Maize + Soybean | 5725 | 9056 | 66.3 | 65.5 | 240.1 | 57.4 |
| Maize + Black gram | 6187 | 9899 | 66.4 | 65.7 | 243.8 | 56.7 |
| C. D. at (5%) | 403.5 | 578.9 | 2.9 | 2.9 | 10.0 | 0.9 |
| Significance | S | S | N.S. | N.S. | N.S. | N.S. |

| | | | | | | |
|------------------------------------|-------|-------|------|------|-------|------|
| Clean field | 5705 | 9097 | 66.5 | 65.5 | 237.9 | 57.4 |
| Residue retention as mulch (5t/ha) | 6207 | 9858 | 66.3 | 65.7 | 246.1 | 56.7 |
| C. D. at (5%) | 403.5 | 578.9 | 2.9 | 2.9 | 10.0 | 0.9 |
| Significance | S | S | N.S. | N.S. | N.S. | N.S. |

Treatment details:

Main plot: Row arrangement

- M1 Equal rows at 67 cm
M2 Paired rows (84:50 cm)

Sub-sub plot: Residue level

- R1 Clean field
R2 Residue retention as mulch (5t/ha)

Sub plot: Plant intercropping

- S1 Maize + Soybean
S2 Maize + Black gram

Cont...

| Row arrangement | Intercropping | Residue level | Yield attributes of the intercrop/s | | | | | |
|------------------|---------------|---------------|-------------------------------------|-------------|-----------|-------------------|-------------|--------------------|
| | | | Branches /plant | Pods /plant | Seed /pod | Plant height (cm) | Seed /plant | Seed yield (kg/ha) |
| Equal row | Soybean | No residue | 3.5 | 21.6 | 2.1 | 64.3 | 50.9 | 712 |
| | | Residue | 4.3 | 26.3 | 2.5 | 66.1 | 61.9 | 866 |
| | Black gram | No residue | 4.1 | 12.3 | 4.8 | 42.3 | 72.6 | 406 |
| | | Residue | 4.9 | 14.9 | 5.7 | 42.7 | 87.9 | 492 |
| Paired row | Soybean | No residue | 3.9 | 24.2 | 2.3 | 64.5 | 57.2 | 801 |
| | | Residue | 4.3 | 26.6 | 2.5 | 68.1 | 62.7 | 878 |
| | Black gram | No residue | 4.8 | 14.6 | 5.6 | 41.3 | 86.1 | 482 |
| | | Residue | 5.7 | 17.3 | 6.7 | 43.2 | 102.2 | 572 |
| Mean of location | | | 4.5 | 19.7 | 4.0 | 54.1 | 72.7 | 651.3 |

| | | | | | | |
|------------------------|-----|------|-----|------|------|------|
| Equal rows at 67 cm | 4.2 | 18.8 | 3.8 | 53.9 | 68.3 | 619 |
| Paired rows (84:50 cm) | 4.7 | 20.7 | 4.3 | 54.3 | 77.1 | 683 |
| C. D. at (5%) | 0.2 | 0.8 | 0.3 | 2.5 | 4.4 | 27.0 |
| Significance | S | S | S | N.S. | S | S |

| | | | | | | |
|--------------------|-----|------|-----|------|------|-------|
| Maize + Soybean | 4.0 | 24.7 | 2.4 | 65.8 | 58.2 | 814.2 |
| Maize + Black gram | 4.9 | 14.8 | 5.7 | 42.4 | 87.2 | 488.3 |
| C. D. at (5%) | 0.2 | 0.8 | 0.3 | 2.5 | 4.4 | 27.0 |
| Significance | S | S | S | S | S | S |

| | | | | | | |
|------------------------------------|-----|------|-----|------|------|------|
| Clean field | 4.1 | 18.2 | 3.7 | 53.1 | 66.7 | 600 |
| Residue retention as mulch (5t/ha) | 4.8 | 21.3 | 4.4 | 55.0 | 78.7 | 702 |
| C. D. at (5%) | 0.2 | 0.8 | 0.3 | 2.5 | 4.4 | 27.0 |
| Significance | S | S | S | N.S. | S | S |

Cont...

| Row arrangement | Intercrop | Residue level | Maize equivalent yield of intercrops (kg/ha) | System productivity (kg/ha) | Intercrop straw yield (kg/ha) | System net return (Rs/ha) | System B:C ratio |
|------------------|------------|---------------|--|-----------------------------|-------------------------------|---------------------------|------------------|
| Equal row | Soybean | No residue | 1100 | 6124 | 1765 | 37983 | 1.2 |
| | | Residue | 1338 | 6791 | 2172 | 43477 | 1.3 |
| | Black gram | No residue | 1145 | 6929 | 2081 | 48500 | 1.6 |
| | | Residue | 1387 | 8298 | 2546 | 62161 | 1.9 |
| Paired row | Soybean | No residue | 1238 | 7472 | 2001 | 53485 | 1.7 |
| | | Residue | 1357 | 7547 | 2204 | 52287 | 1.5 |
| | Black gram | No residue | 1359 | 7139 | 2492 | 50798 | 1.6 |
| | | Residue | 1612 | 7886 | 2979 | 57533 | 1.7 |
| Mean of location | | | 1317.2 | 7273.3 | 2280.1 | 50778.0 | 1.6 |

| | | | | | |
|------------------------|------|-------|-------|--------|-----|
| Equal rows at 67 cm | 1243 | 7035 | 2141 | 48030 | 1.5 |
| Paired rows (84:50 cm) | 1392 | 7511 | 2419 | 53526 | 1.6 |
| C. D. at (5%) | 70.3 | 438.9 | 134.2 | 4926.0 | 0.2 |
| Significance | S | S | S | S | S |

| | | | | | |
|--------------------|--------|--------|--------|---------|-----|
| Maize + Soybean | 1258.3 | 6983.7 | 2035.7 | 46808.2 | 1.4 |
| Maize + Black gram | 1376.1 | 7563.0 | 2524.5 | 54747.8 | 1.7 |
| C. D. at (5%) | 70.3 | 438.9 | 134.2 | 4926.0 | 0.2 |
| Significance | S | S | S | S | S |

| | | | | | |
|------------------------------------|------|-------|-------|--------|------|
| Clean field | 1211 | 6916 | 2085 | 47691 | 1.5 |
| Residue retention as mulch (5t/ha) | 1424 | 7631 | 2475 | 53865 | 1.6 |
| C. D. at (5%) | 70.3 | 438.9 | 134.2 | 4926.0 | 0.2 |
| Significance | S | S | S | S | N.S. |

Cont...

| Row arrangement | Intercrop | Residue level | Maize | | | Intercrops | | |
|------------------|------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | N uptake (kg/ha) | P uptake (kg/ha) | K uptake (kg/ha) | N uptake (kg/ha) | P uptake (kg/ha) | K uptake (kg/ha) |
| Equal row | Soybean | No residue | 134.9 | 21.9 | 120.0 | 53.1 | 6.0 | 12.9 |
| | | Residue | 144.4 | 23.5 | 127.0 | 63.2 | 7.1 | 15.1 |
| | Black gram | No residue | 153.4 | 24.9 | 137.0 | 30.5 | 4.0 | 11.7 |
| | | Residue | 173.0 | 28.2 | 151.1 | 36.5 | 4.7 | 13.9 |
| Paired row | Soybean | No residue | 161.5 | 26.2 | 142.8 | 59.1 | 6.6 | 14.2 |
| | | Residue | 163.0 | 26.4 | 144.9 | 63.9 | 7.2 | 15.2 |
| | Black gram | No residue | 149.2 | 24.2 | 132.4 | 35.8 | 4.6 | 13.7 |
| | | Residue | 165.7 | 26.8 | 150.0 | 41.8 | 5.3 | 15.9 |
| Mean of location | | | 155.6 | 25.2 | 138.1 | 48.0 | 5.7 | 14.1 |

| | | | | | | |
|------------------------|-------|------|-------|------|-----|------|
| Equal rows at 67 cm | 151.4 | 24.6 | 133.8 | 45.9 | 5.4 | 13.4 |
| Paired rows (84:50 cm) | 159.9 | 25.9 | 142.5 | 50.2 | 5.9 | 14.8 |
| C. D. at (5%) | 6.7 | 1.1 | 5.6 | 1.8 | 0.2 | 0.6 |
| Significance | S | S | S | S | S | S |

| | | | | | | |
|--------------------|-------|------|-------|------|-----|------|
| Maize + Soybean | 151.0 | 24.5 | 133.7 | 59.8 | 6.7 | 14.4 |
| Maize + Black gram | 160.3 | 26.0 | 142.6 | 36.2 | 4.7 | 13.8 |
| C. D. at (5%) | 6.7 | 1.1 | 5.6 | 1.8 | 0.2 | 0.6 |
| Significance | S | S | S | S | S | N.S. |

| | | | | | | |
|------------------------------------|-------|------|-------|------|-----|------|
| Clean field | 149.7 | 24.3 | 133.1 | 44.6 | 5.3 | 13.2 |
| Residue retention as mulch (5t/ha) | 161.5 | 26.2 | 143.2 | 51.4 | 6.1 | 15.0 |
| C. D. at (5%) | 6.7 | 1.1 | 5.6 | 1.8 | 0.2 | 0.6 |
| Significance | S | S | S | S | S | S |

Table 19: Effect of planting systems and intercropping with and without residue retention under rain-fed conditions at Ambikapur.

| Row arrangement | Intercrop | Residue level | Maize | | | | | |
|------------------|------------|---------------|---------------------|----------------------|------------------|----------------|-------------------|---------------------|
| | | | Grain yield (kg/ha) | Fodder yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
| Equal row | Soybean | No residue | 4001 | 5521 | 72.8 | 72.8 | 223.7 | 49.3 |
| | | Residue | 5638 | 7725 | 72.3 | 72.3 | 229.0 | 49.7 |
| | Black Gram | No residue | 4623 | 6241 | 72.3 | 72.3 | 219.3 | 49.7 |
| | | Residue | 6095 | 8289 | 72.8 | 72.8 | 225.7 | 49.3 |
| Paired row | Soybean | No residue | 6426 | 8868 | 71.7 | 71.7 | 222.2 | 49.3 |
| | | Residue | 6841 | 9646 | 72.8 | 72.8 | 229.1 | 49.3 |
| | Black Gram | No residue | 4954 | 6986 | 72.6 | 72.6 | 219.4 | 50.0 |
| | | Residue | 5265 | 7582 | 72.6 | 72.6 | 223.4 | 49.7 |
| Mean of location | | | 5480.4 | 7607.1 | 72.5 | 72.5 | 224.0 | 49.5 |

| | | | | | | |
|------------------------|-------|-------|------|------|-------|------|
| Equal rows at 67 cm | 5089 | 6944 | 72.6 | 72.6 | 224.4 | 49.5 |
| Paired rows (84:50 cm) | 5872 | 8270 | 72.4 | 72.4 | 223.6 | 49.6 |
| C. D. at (5%) | 461.9 | 631.1 | 1.2 | 1.2 | 9.0 | 0.7 |
| Significance | S | S | N.S. | N.S. | N.S. | N.S. |

| | | | | | | |
|--------------------|-------|-------|------|------|-------|------|
| Maize + Soybean | 5727 | 7940 | 72.4 | 72.4 | 226.0 | 49.4 |
| Maize + Black Gram | 5234 | 7274 | 72.6 | 72.6 | 222.0 | 49.7 |
| C. D. at (5%) | 461.9 | 631.1 | 1.2 | 1.2 | 9.0 | 0.7 |
| Significance | S | S | N.S. | N.S. | N.S. | N.S. |

| | | | | | | |
|---------------------------------------|-------|-------|------|------|-------|------|
| Clean cultivation | 5001 | 6904 | 72.3 | 72.3 | 221.2 | 49.6 |
| Residue retention as mulch (5 ton/ha) | 5960 | 8310 | 72.6 | 72.6 | 226.8 | 49.5 |
| C. D. at (5%) | 461.9 | 631.1 | 1.2 | 1.2 | 9.0 | 0.7 |
| Significance | S | S | N.S. | N.S. | N.S. | N.S. |

Treatment details:

Main plot: Row arrangement

D1 Equal rows at 67 cm

D2 Paired rows (84:50 cm)

Sub-sub plot: Residue level

M0 Clean cultivation

M1 Residue retention as mulch (5 ton/ ha)

Sub plot: Intercropping

S1 Maize + Soybean

S2 Maize + Black Gram

Cont...

| Row arrangement | Intercrop | Residue level | Intercrops | | | | | |
|------------------|------------|---------------|--------------------|----------------|-----------|------------|-------------|-------------------|
| | | | Seed yield (kg/ha) | Branches/plant | Seeds/pod | Pods/plant | Seeds/plant | Plant height (cm) |
| Equal row | Soybean | No residue | 662 | 3.7 | 2.7 | 18.7 | 183.4 | 57.5 |
| | | Residue | 687 | 3.8 | 2.7 | 20.3 | 209.8 | 65.5 |
| | Black Gram | No residue | 541 | 4.7 | 5.2 | 11.4 | 290.4 | 47.4 |
| | | Residue | 552 | 5.1 | 5.6 | 11.6 | 332.4 | 51.6 |
| Paired row | Soybean | No residue | 712 | 4.6 | 2.8 | 21.4 | 273.2 | 67.5 |
| | | Residue | 728 | 4.9 | 2.9 | 22.1 | 314.5 | 71.1 |
| | Black Gram | No residue | 564 | 5.2 | 5.4 | 12.4 | 345.4 | 49.4 |
| | | Residue | 571 | 5.3 | 5.8 | 13.7 | 416.7 | 55.5 |
| Mean of location | | | 627.0 | 4.7 | 4.1 | 16.5 | 295.7 | 58.2 |

| | | | | | | |
|------------------------|------|-----|------|------|-------|------|
| Equal rows at 67 cm | 611 | 4.3 | 4.1 | 15.5 | 254.0 | 55.5 |
| Paired rows (84:50 cm) | 644 | 5.0 | 4.2 | 17.4 | 337.4 | 60.9 |
| C. D. at (5%) | 42.1 | 0.3 | 0.2 | 1.8 | 52.2 | 2.3 |
| Significance | N.S. | S | N.S. | S | S | S |

| | | | | | | |
|--------------------|------|-----|-----|------|-------|------|
| Maize + Soybean | 697 | 4.2 | 2.8 | 20.7 | 245.2 | 65.4 |
| Maize + Black Gram | 557 | 5.1 | 5.5 | 12.3 | 346.2 | 51.0 |
| C. D. at (5%) | 42.1 | 0.3 | 0.2 | 1.8 | 52.2 | 2.3 |
| Significance | S | S | S | S | S | S |

| | | | | | | |
|---------------------------------------|------|------|-----|------|-------|------|
| Clean cultivation | 620 | 4.5 | 4.0 | 16.0 | 273.1 | 55.5 |
| Residue retention as mulch (5 ton/ha) | 634 | 4.8 | 4.3 | 17.0 | 318.3 | 61.0 |
| C. D. at (5%) | 42.1 | 0.3 | 0.2 | 1.8 | 52.2 | 2.3 |
| Significance | N.S. | N.S. | S | N.S. | N.S. | S |

Cont...

| Row arrangement. | Intercrop | Residue level | Maize equivalent yield (kg/ha) | System productivity (kg/ha) | Net return of system (Rs/ha) | B:C ratio of system |
|------------------|------------|---------------|--------------------------------|-----------------------------|------------------------------|---------------------|
| Equal row | Soybean | No residue | 1444 | 5445 | 33028 | 1.1 |
| | | Residue | 1498 | 7137 | 49985 | 1.6 |
| | Black Gram | No residue | 1575 | 6198 | 43041 | 1.6 |
| | | Residue | 1607 | 7701 | 57848 | 1.9 |
| Paired row | Soybean | No residue | 1554 | 7980 | 62105 | 2.1 |
| | | Residue | 1588 | 8429 | 64819 | 2.1 |
| | Black Gram | No residue | 1640 | 6594 | 47552 | 1.7 |
| | | Residue | 1660 | 6925 | 48795 | 1.6 |
| Mean of location | | | 1570.6 | 7051.0 | 50896.8 | 1.7 |

| | | | | |
|------------------------|-------|-------|--------|-----|
| Equal rows at 67 cm | 1531 | 6620 | 45976 | 1.5 |
| Paired rows (84:50 cm) | 1610 | 7482 | 55818 | 1.9 |
| C. D. at (5%) | 108.1 | 438.5 | 5077.7 | 0.2 |
| Significance | N.S. | S | S | S |

| | | | | |
|--------------------|-------|-------|--------|------|
| Maize + Soybean | 1521 | 7247 | 52484 | 1.7 |
| Maize + Black Gram | 1620 | 6855 | 49309 | 1.7 |
| C. D. at (5%) | 108.1 | 438.5 | 5077.7 | 0.2 |
| Significance | N.S. | N.S. | N.S. | N.S. |

| | | | | |
|---------------------------------------|-------|-------|--------|------|
| Clean cultivation | 1553 | 6554 | 46432 | 1.6 |
| Residue retention as mulch (5 ton/ha) | 1588 | 7548 | 55362 | 1.8 |
| C. D. at (5%) | 108.1 | 438.5 | 5077.7 | 0.2 |
| Significance | N.S. | S | S | N.S. |

Cont...

Table 20: Effect of planting systems and intercropping with and without residue retention under rain-fed conditions at Banswara.

| Row arrangement | Intercropping | Residue level | Maize yield (kg/ha) | Yield of intercrop (kg/ha) | Maize equivalent yield (kg/ha) |
|------------------|---------------|---------------|---------------------|----------------------------|--------------------------------|
| Equal row | Soybean | No residue | 3250 | 792 | 5845 |
| | | Residue | 3864 | 841 | 6745 |
| | Black gram | No residue | 3499 | 484 | 4963 |
| | | Residue | 3997 | 592 | 5981 |
| Paired row | Soybean | No residue | 3483 | 824 | 6263 |
| | | Residue | 4030 | 891 | 7410 |
| | Black gram | No residue | 3599 | 600 | 5437 |
| | | Residue | 4113 | 680 | 6463 |
| Mean of location | | | 3729.3 | 713.0 | 6138.4 |

| | | | |
|-----------------------|-------|------|-------|
| Equal rows at 67cm | 3653 | 677 | 5883 |
| Paired row (84:50 cm) | 3806 | 749 | 6393 |
| C. D. at (5%) | 119.5 | 32.2 | 281.5 |
| Significance | S | S | S |

| | | | |
|--------------------|-------|------|-------|
| Maize + Soybean | 3657 | 837 | 6566 |
| Maize + Black gram | 3802 | 589 | 5711 |
| C. D. at (5%) | 119.5 | 32.2 | 281.5 |
| Significance | S | S | S |

| | | | |
|-----------------------------------|-------|------|-------|
| Clean Field | 3458 | 675 | 5627 |
| Residue retention as mulch @5t/ha | 4001 | 751 | 6650 |
| C. D. at (5%) | 119.5 | 32.2 | 281.5 |
| Significance | S | S | S |

Main plot: Row arrangement

R1 Equal rows at 67cm

R2 Paired row (84:50 cm)

Sub-sub plot: Residue levels

CF Clean Field

SR Residue retention as mulch @5t/ha

Sub plot: Intercropping

I1 Maize + Soybean

I2 Maize + Black gram

Table 21: Effect of planting systems and intercropping with and without residue retention under rain-fed conditions at Udaipur.

| Row ratio | Intercrop | Residue level | Grain yield (kg/ha) | Stover yield (kg/ha) | Intercrop yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Net returns (Rs/ha) | B:C ratio |
|------------------|------------|---------------|---------------------|----------------------|-------------------------|------------------|----------------|-------------------|---------------------|-----------|
| Equal row | Black Gram | No residue | 4423 | 6813 | 450 | 44.8 | 43.6 | 195.1 | 50764 | 2.6 |
| | Soybean | | 4407 | 6700 | 1433 | 44.8 | 43.6 | 200.3 | 81196 | 4.0 |
| Paired row | Black Gram | | 4507 | 6952 | 550 | 44.8 | 43.8 | 200.3 | 55026 | 2.8 |
| | Soybean | | 4497 | 6757 | 1520 | 45.3 | 44.1 | 205.3 | 85069 | 4.2 |
| Equal row | Black Gram | Residue | 4847 | 7480 | 557 | 44.8 | 43.0 | 205.2 | 57048 | 2.6 |
| | Soybean | | 4810 | 7290 | 1630 | 44.8 | 43.0 | 210.7 | 90084 | 3.9 |
| Paired row | Black Gram | | 4950 | 7497 | 647 | 44.9 | 43.4 | 210.6 | 61167 | 2.8 |
| | Soybean | | 4910 | 7413 | 1693 | 44.8 | 43.0 | 215.5 | 93362 | 4.1 |
| Mean of location | | | 4668.8 | 7112.6 | 1060.0 | 90.2 | 87.3 | 205.4 | 71714.4 | 3.4 |

| | | | | | | | | |
|--------------------------------|-------|-------|------|------|------|-------|--------|------|
| Equal row at 67 cm spacing | 4458 | 6805 | 988 | 44.9 | 43.8 | 200.2 | 68014 | 3.4 |
| Paired row at 84:50 cm spacing | 4879 | 7420 | 1132 | 44.8 | 43.1 | 210.5 | 75415 | 3.3 |
| C. D. at (5%) | 319.8 | 474.2 | 71.9 | 2.3 | 2.3 | 5.1 | 5737.6 | 0.3 |
| Significance | S | S | S | N.S. | N.S. | S | S | N.S. |

| | | | | | | | | |
|---------------|-------|-------|------|------|------|-------|--------|------|
| Black Gram | 4622 | 7071 | 1018 | 44.8 | 43.3 | 202.8 | 69773 | 3.3 |
| Soybean | 4716 | 7155 | 1103 | 44.9 | 43.6 | 207.9 | 73656 | 3.4 |
| C. D. at (5%) | 319.8 | 474.2 | 71.9 | 2.3 | 2.3 | 5.1 | 5737.6 | 0.3 |
| Significance | N.S. | N.S. | S | N.S. | N.S. | N.S. | N.S. | N.S. |

| | | | | | | | | |
|-----------------------|-------|-------|------|------|------|-------|--------|-----|
| Clean field | 4682 | 7185 | 551 | 44.8 | 43.4 | 202.8 | 56001 | 2.7 |
| Surface residue@6t/ha | 4656 | 7040 | 1569 | 44.9 | 43.4 | 208.0 | 87428 | 4.0 |
| C. D. at (5%) | 319.8 | 474.2 | 71.9 | 2.3 | 2.3 | 5.1 | 5737.6 | 0.3 |
| Significance | N.S. | N.S. | S | N.S. | N.S. | S | S | S |

Main plot: Row arrangement

EQ Equal row at 67 cm spacing
PR Paired row at 84:50 cm spacing

Sub-sub plot: Residue management

R1 Clean field
R2 Surface residue@6t/ha

Sub plot: Intercropping

I1 Black gram
I2 Soybean

Table 22: Nutrient management in maize-wheat-mungbean cropping system under different tillage practices at Delhi.

| Tillage practices + Residue | Fertility level | Grain yield (kg/ha) | Cob yield (kg/ha) | Straw yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|-----------------------------|-----------------|---------------------|-------------------|---------------------|------------------|----------------|-------------------|
| Conventional Tillage | Control | 2227 | 3059 | 5141 | 81.3 | 54.2 | 167.7 |
| | 100% RDF | 3323 | 4506 | 7131 | 80.8 | 56.4 | 200.7 |
| | 50% RDF | 3761 | 5192 | 7794 | 77.9 | 56.9 | 200.6 |
| | SSNM | 4421 | 5833 | 7711 | 72.6 | 53.4 | 210.3 |
| Permanent Bed | Control | 3920 | 7239 | 5804 | 75.6 | 58.0 | 160.7 |
| | 100% RDF | 5235 | 8369 | 13101 | 74.8 | 60.9 | 202.7 |
| | 50% RDF | 4078 | 5721 | 12106 | 69.2 | 54.9 | 195.0 |
| | SSNM | 4709 | 6407 | 11940 | 67.3 | 51.2 | 206.1 |
| Zero Tillage | Control | 2584 | 3268 | 5473 | 65.3 | 43.4 | 163.0 |
| | 100% RDF | 3963 | 4834 | 8706 | 57.0 | 47.3 | 178.7 |
| | 50% RDF | 3817 | 5183 | 7595 | 72.5 | 55.4 | 177.4 |
| | SSNM | 4599 | 6435 | 8624 | 67.8 | 56.9 | 196.2 |
| Location mean | | 3886.4 | 5503.7 | 8427.3 | 71.8 | 54.1 | 188.3 |
| C.D.(5%) AiBj-AiBk | | 804.1 | 2072.1 | 1755.9 | 11.9 | 10.7 | 19.0 |
| C.D.(5%) AiBk-AjBk | | 765.9 | 2230.7 | 1719.9 | 11.9 | 10.2 | 21.0 |
| F(5%) | | s | s | s | n.s. | n.s. | n.s. |
| Conventional Tillage | | 3433 | 4647 | 6944 | 78.2 | 55.2 | 194.8 |
| Permanent Bed | | 4486 | 6934 | 10738 | 71.7 | 56.3 | 191.1 |
| Zero Tillage | | 3741 | 4930 | 7600 | 65.7 | 50.7 | 178.8 |
| C.D.(5%) Ai-Aj | | 327.6 | 1355.6 | 824.5 | 6.0 | 4.6 | 13.3 |
| C.V.(%) Error A | | 7.4 | 21.7 | 8.6 | 7.3 | 7.4 | 6.2 |
| F(5%) | | s | s | s | s | n.s. | n.s. |
| Absolute control | | 2910 | 4522 | 5472.6 | 74.1 | 51.9 | 163.8 |
| 100% RDF (150:60:40) | | 4174 | 5903 | 9646.2 | 70.9 | 54.8 | 194.0 |
| 50% RDF (75:30:20) | | 3885 | 5365 | 9165.3 | 73.2 | 55.7 | 191.0 |
| SSNM (170:47:44) | | 4576 | 6225 | 9425.1 | 69.3 | 53.8 | 204.2 |
| C.D.(5%)Bi-Bj | | 464.3 | 1196.4 | 1013.8 | 6.9 | 6.2 | 11.0 |
| C.V.(%)ErrorB | | 12.1 | 21.9 | 12.1 | 9.7 | 11.5 | 5.9 |
| F(5%) | | s | s | s | n.s. | n.s. | s |

Treatment details:**Main plot: Tillage practices + residue**

- T1 Conventional Tillage
T2 Permanent Bed
T3 Zero Tillage

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F0 Absolute control
F1 100% RDF (150:60:40)
F2 50% RDF (75:30:20)
F3 SSNM (170:47:44)

Table 23: Nutrient management in maize-wheat-green gram cropping system under different tillage practices at Karnal.

| Tillage practices | Fertility level | Grain yield (kg/ha) | Cob yield (kg/ha) | Cobs ('000/ha) | Days to 50% tasseling | Days to 50% silking | Plant height (cm) |
|----------------------|-----------------|---------------------|-------------------|----------------|-----------------------|---------------------|-------------------|
| Zero tillage | 100% RDF | 6573 | 9943 | 70.3 | 44.0 | 46.7 | 179.7 |
| | SSNM | 6420 | 9747 | 69.9 | 45.0 | 47.0 | 178.4 |
| | 50%RDF | 4613 | 7052 | 70.1 | 45.7 | 48.0 | 160.6 |
| Conventional tillage | 100% RDF | 6105 | 9218 | 70.0 | 46.3 | 48.7 | 170.0 |
| | SSNM | 5992 | 9120 | 70.1 | 47.0 | 49.3 | 169.1 |
| | 50%RDF | 4148 | 6393 | 70.3 | 48.0 | 50.7 | 155.7 |
| Bed planting | 100% RDF | 6814 | 10264 | 70.3 | 44.3 | 46.3 | 181.5 |
| | SSNM | 6733 | 10202 | 70.3 | 45.0 | 47.3 | 179.7 |
| | 50%RDF | 4837 | 7400 | 70.2 | 46.0 | 48.7 | 639.7 |
| Location mean | | 5803.9 | 8815.6 | 70.2 | 45.7 | 48.1 | 223.8 |
| C.D.(5%) AiBj-AiBk | | 588.1 | 502.5 | 1.1 | 2.3 | 2.7 | 492.8 |
| C.D.(5%) AiBk-AjBk | | 1023.4 | 999.9 | 1.3 | 1.9 | 2.4 | 533.0 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------------|-------|-------|------|------|------|-------|
| Zero tillage | 5869 | 8914 | 70.1 | 44.9 | 47.2 | 172.9 |
| Conventional tillage | 5415 | 8244 | 70.1 | 47.1 | 49.6 | 164.9 |
| Bed planting | 6128 | 9289 | 70.3 | 45.1 | 47.4 | 333.6 |
| C.D.(5%) Ai-Aj | 910.4 | 917.1 | 1.0 | 0.5 | 1.1 | 355.1 |
| C.V.(%) Error A | 12.0 | 7.9 | 1.1 | 0.8 | 1.8 | 121.3 |
| F(5%) | n.s. | n.s. | n.s. | s | s | n.s. |

| | | | | | | |
|----------------------|-------|-------|------|------|------|-------|
| 100% RDF (150:60:60) | 6497 | 9809 | 70.2 | 44.9 | 47.2 | 177.1 |
| SSNM (138:55:72) | 6382 | 9690 | 70.1 | 45.7 | 47.9 | 175.7 |
| 50% RDF (75:30:30) | 4533 | 6949 | 70.2 | 46.6 | 49.1 | 318.7 |
| C.D.(5%)Bi-Bj | 339.5 | 290.1 | 0.6 | 1.3 | 1.5 | 284.5 |
| C.V.(%)ErrorB | 5.7 | 3.2 | 0.8 | 2.8 | 3.1 | 123.8 |
| F(5%) | s | s | n.s. | s | n.s. | n.s. |

Treatment details:**Main plot: Tillage practices**

- T1 Zero tillage
T2 Conventional tillage
T3 Bed planting

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F1 100% RDF (150:60:60)
F2 SSNM (138:55:72)
F3 50% RDF (75:30:30)

Table 24: Nutrient management in maize-wheat-mungbean cropping system under different tillage practices at Pantnagar.

| Tillage practices | Fertility levels | Grain yield (kg/ha) | Cob yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|----------------------|------------------|---------------------|-------------------|----------------------|------------------|----------------|-------------------|
| Zero tillage | 50% RDF | 4016 | 5040 | 5968 | 61.4 | 61.9 | 178.7 |
| | SSNM | 5101 | 6508 | 7894 | 59.8 | 61.4 | 191.1 |
| | 100% RDF | 5444 | 6778 | 7921 | 60.8 | 63.5 | 191.4 |
| Conventional tillage | 50% RDF | 4876 | 6005 | 7566 | 61.9 | 63.0 | 182.5 |
| | SSNM | 5974 | 7474 | 8688 | 62.4 | 64.0 | 196.3 |
| | 100% RDF | 6283 | 7735 | 9598 | 63.0 | 63.0 | 196.3 |
| Permanent Bed | 50% RDF | 4304 | 5437 | 6492 | 60.3 | 64.6 | 182.1 |
| | SSNM | 5349 | 6746 | 7995 | 60.8 | 60.8 | 188.2 |
| | 100% RDF | 5339 | 6799 | 7381 | 61.4 | 63.5 | 193.9 |
| Location mean | | 5187.2 | 6502.4 | 7722.5 | 61.3 | 62.8 | 188.9 |
| C.D.(5%) AiBj-AiBk | | 961.5 | 1167.0 | 1510.1 | 5.2 | 4.6 | 13.4 |
| C.D.(5%) AiBk-AjBk | | 947.9 | 1183.4 | 1643.8 | 10.5 | 7.1 | 12.3 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------------|-------|-------|--------|------|------|-------|
| Zero tillage | 4854 | 6108 | 7261 | 60.7 | 62.3 | 187.0 |
| Conventional tillage | 5711 | 7071 | 8617 | 62.4 | 63.3 | 191.7 |
| Permanent bed | 4997 | 6327 | 7289 | 60.8 | 63.0 | 188.1 |
| C.D. (5%) Ai-Aj | 541.0 | 714.2 | 1104.3 | 9.6 | 6.0 | 5.7 |
| C.V. (%) Error A | 8.0 | 8.4 | 10.9 | 12.0 | 7.3 | 2.3 |
| F (5%) | s | s | s | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------------|-------|-------|-------|------|------|-------|
| 50% RDF | 4399 | 5494 | 6675 | 61.2 | 63.1 | 181.1 |
| SSNM | 5474 | 6909 | 8192 | 61.0 | 62.1 | 191.8 |
| 100% RDF | 5689 | 7104 | 8300 | 61.7 | 63.3 | 193.9 |
| C.D. (5%) Bi-Bj | 555.1 | 673.8 | 871.9 | 3.0 | 2.7 | 7.7 |
| C.V. (%) ErrorB | 10.4 | 10.1 | 11.0 | 4.8 | 4.1 | 4.0 |
| F (5%) | s | s | s | n.s. | n.s. | s |

Treatment details:

Main plot: Tillage practices

T1 Zero tillage
T2 Conventional tillage
T3 Permanent beds

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

F1 50% RDF (60:30:20)
F2 SSNM (120:10:37)
F3 100% RDF (120:60:40)

Cont...

| Tillage practices | Fertility levels | Days to 50% tasseling | Days to 50% silking | Cost of cultivation (Rs/ha) | Gross returns (Rs/ha) | Net returns (Rs/ha) | B:C ratio |
|----------------------|------------------|-----------------------|---------------------|-----------------------------|-----------------------|---------------------|-----------|
| Zero tillage | 50% RDF | 49.3 | 52.0 | 11538 | 52594 | 41056 | 3.6 |
| | SSNM | 50.7 | 53.0 | 12139 | 66831 | 54692 | 4.5 |
| | 100% RDF | 49.0 | 51.3 | 14909 | 71296 | 56387 | 3.8 |
| Conventional tillage | 50% RDF | 50.3 | 52.3 | 19222 | 63860 | 44638 | 2.3 |
| | SSNM | 50.0 | 52.3 | 19823 | 78252 | 58429 | 3.0 |
| | 100% RDF | 50.7 | 52.7 | 22593 | 82308 | 59715 | 2.6 |
| Permanent Bed | 50% RDF | 50.3 | 52.3 | 13288 | 56353 | 43065 | 3.2 |
| | SSNM | 50.7 | 52.7 | 13889 | 70088 | 56199 | 4.0 |
| | 100% RDF | 50.7 | 53.0 | 16659 | 69957 | 53298 | 3.2 |
| Location mean | | 50.2 | 52.4 | 16006.7 | 67948.8 | 51942.1 | 3.4 |
| C.D.(5%) AiBj-AiBk | | 1.4 | 1.3 | 0.6 | 12579.3 | 12579.3 | 0.7 |
| C.D.(5%) AiBk-AjBk | | 1.9 | 2.1 | 0.6 | 12419.5 | 12419.5 | 0.9 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------------|------|------|-------|--------|--------|------|
| Zero tillage | 49.7 | 52.1 | 12862 | 63574 | 50712 | 3.9 |
| Conventional tillage | 50.3 | 52.4 | 20546 | 74807 | 54261 | 2.6 |
| Permanent bed | 50.6 | 52.7 | 14612 | 65466 | 50854 | 3.5 |
| C.D. (5%) Ai-Aj | 1.6 | 1.8 | 0.4 | 7110.3 | 7110.3 | 0.7 |
| C.V. (%) Error A | 2.4 | 2.6 | 0.0 | 8.0 | 10.5 | 16.0 |
| F (5%) | n.s. | n.s. | s | s | n.s. | s |

| | | | | | | |
|-----------------|------|------|-------|--------|--------|------|
| 50% RDF | 50.0 | 52.2 | 14683 | 57602 | 42920 | 3.0 |
| SSNM | 50.4 | 52.7 | 15284 | 71724 | 56440 | 3.8 |
| 100% RDF | 50.1 | 52.3 | 18054 | 74520 | 56467 | 3.2 |
| C.D. (5%) Bi-Bj | 0.8 | 0.8 | 0.3 | 7262.7 | 7262.7 | 0.4 |
| C.V. (%) ErrorB | 1.5 | 1.4 | 0.0 | 10.4 | 13.6 | 11.1 |
| F (5%) | n.s. | n.s. | s | s | s | s |

Cont...

| Tillage practices | Fertility levels | N uptake (kg/ha) | | Total N uptake (kg/ha) | P uptake (kg/ha) | | Total P uptake (kg/ha) | K uptake (kg/ha) | | Total K uptake (kg/ha) |
|----------------------|------------------|------------------|--------|------------------------|------------------|--------|------------------------|------------------|--------|------------------------|
| | | Grain | Stover | | Grain | Stover | | Grain | Stover | |
| Zero tillage | 50% RDF | 51.5 | 17.4 | 68.9 | 12.1 | 7.4 | 19.4 | 12.4 | 43.6 | 56.0 |
| | SSNM | 76.7 | 39.7 | 116.5 | 15.0 | 9.2 | 24.1 | 17.8 | 62.9 | 80.7 |
| | 100% RDF | 82.0 | 39.7 | 121.7 | 16.7 | 10.6 | 27.4 | 18.3 | 64.9 | 83.2 |
| Conventional tillage | 50% RDF | 65.3 | 26.3 | 91.6 | 15.0 | 10.4 | 25.4 | 16.8 | 60.9 | 77.7 |
| | SSNM | 91.3 | 47.0 | 138.3 | 17.9 | 10.6 | 28.5 | 23.3 | 73.2 | 96.6 |
| | 100% RDF | 96.5 | 52.3 | 148.7 | 19.8 | 13.9 | 33.7 | 24.4 | 83.5 | 107.9 |
| Permanent Bed | 50% RDF | 54.9 | 17.8 | 72.7 | 12.9 | 7.5 | 20.5 | 13.7 | 47.9 | 61.6 |
| | SSNM | 79.9 | 38.2 | 118.1 | 15.4 | 9.6 | 25.1 | 18.7 | 64.8 | 83.5 |
| | 100% RDF | 80.3 | 36.4 | 116.7 | 16.4 | 9.9 | 26.3 | 18.4 | 59.6 | 78.0 |
| Location mean | | 75.4 | 35.0 | 110.4 | 15.7 | 9.9 | 25.6 | 18.2 | 62.4 | 80.6 |
| C.D.(5%) AiBj-AiBk | | 15.2 | 7.3 | 20.9 | 3.2 | 2.2 | 5.2 | 3.6 | 10.1 | 12.7 |
| C.D.(5%) AiBk-AjBk | | 14.7 | 7.8 | 20.6 | 3.0 | 2.2 | 4.9 | 3.1 | 16.0 | 17.7 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | | |
|----------------------|------|------|-------|------|------|------|------|------|------|
| Zero tillage | 70.1 | 32.3 | 102.3 | 14.6 | 9.1 | 23.6 | 16.2 | 57.1 | 73.3 |
| Conventional tillage | 84.4 | 41.8 | 126.2 | 17.6 | 11.6 | 29.2 | 21.5 | 72.6 | 94.1 |
| Permanent bed | 71.7 | 30.8 | 102.5 | 14.9 | 9.0 | 24.0 | 16.9 | 57.4 | 74.4 |
| C.D. (5%) Ai-Aj | 8.0 | 5.0 | 11.7 | 1.5 | 1.4 | 2.6 | 1.1 | 13.8 | 14.5 |
| C.V. (%) Error A | 8.1 | 10.9 | 8.1 | 7.4 | 10.7 | 7.7 | 4.6 | 16.9 | 13.8 |
| F (5%) | s | s | s | s | s | s | s | n.s. | s |

| | | | | | | | | | |
|-----------------|------|------|-------|------|------|------|------|------|------|
| 50% RDF | 57.2 | 20.5 | 77.7 | 13.3 | 8.4 | 21.8 | 14.3 | 50.8 | 65.1 |
| SSNM | 82.7 | 41.6 | 124.3 | 16.1 | 9.8 | 25.9 | 19.9 | 67.0 | 86.9 |
| 100% RDF | 86.2 | 42.8 | 129.0 | 17.7 | 11.5 | 29.1 | 20.4 | 69.4 | 89.7 |
| C.D. (5%) Bi-Bj | 8.8 | 4.2 | 12.1 | 1.8 | 1.3 | 3.0 | 2.1 | 5.8 | 7.3 |
| C.V. (%) ErrorB | 11.3 | 11.8 | 10.6 | 11.4 | 12.4 | 11.3 | 11.1 | 9.1 | 8.9 |
| F (5%) | s | s | s | s | s | s | s | s | s |

Cont...

| Tillage practices | Fertility levels | Residual soil after completion of one year cropping sequence | | | | | |
|----------------------|------------------|--|---------|------|-------|------|---|
| | | Organic carbon (%) | N | P | K | pH | Soil Bulk density at 0-15 cm depth (Mg/m ³) |
| | | | (kg/ha) | | | | |
| Zero tillage | 50% RDF | 0.8 | 242.0 | 17.4 | 232.7 | 7.1 | 1.5 |
| | SSNM | 0.8 | 272.0 | 17.6 | 247.0 | 7.2 | 1.4 |
| | 100% RDF | 0.8 | 275.0 | 20.5 | 251.0 | 7.1 | 1.5 |
| Conventional tillage | 50% RDF | 0.7 | 205.0 | 15.4 | 230.7 | 7.1 | 1.4 |
| | SSNM | 0.7 | 218.0 | 16.3 | 243.0 | 7.1 | 1.4 |
| | 100% RDF | 0.7 | 217.0 | 19.5 | 250.7 | 7.2 | 1.3 |
| Permanent Bed | 50% RDF | 0.7 | 237.0 | 17.2 | 240.3 | 7.2 | 1.4 |
| | SSNM | 0.8 | 266.0 | 17.5 | 252.3 | 7.1 | 1.4 |
| | 100% RDF | 0.8 | 260.0 | 20.4 | 259.0 | 7.1 | 1.4 |
| Location mean | | 0.8 | 243.6 | 18.0 | 245.2 | 7.1 | 1.4 |
| C.D.(5%) AiBj-AiBk | | 0.1 | 27.8 | 4.3 | 32.2 | 0.3 | 0.1 |
| C.D.(5%) AiBk-AjBk | | 0.1 | 41.7 | 4.0 | 36.1 | 0.3 | 0.1 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------------|-----|-------|------|-------|------|-----|
| Zero tillage | 0.8 | 263.0 | 18.5 | 243.6 | 7.1 | 1.5 |
| Conventional tillage | 0.7 | 213.3 | 17.1 | 241.4 | 7.1 | 1.4 |
| Permanent bed | 0.8 | 254.3 | 18.4 | 250.6 | 7.1 | 1.4 |
| C.D. (5%) Ai-Aj | 0.1 | 35.3 | 1.8 | 25.1 | 0.2 | 0.1 |
| C.V. (%) Error A | 6.7 | 11.1 | 7.6 | 7.8 | 2.3 | 3.5 |
| F (5%) | s | s | n.s. | n.s. | n.s. | s |

| | | | | | | |
|-----------------|-----|-------|------|-------|------|------|
| 50% RDF | 0.7 | 228.0 | 16.7 | 234.6 | 7.1 | 1.4 |
| SSNM | 0.8 | 252.0 | 17.1 | 247.4 | 7.1 | 1.4 |
| 100% RDF | 0.8 | 250.7 | 20.1 | 253.6 | 7.1 | 1.4 |
| C.D. (5%) Bi-Bj | 0.0 | 16.1 | 2.5 | 18.6 | 0.2 | 0.0 |
| C.V. (%) ErrorB | 5.8 | 6.4 | 13.6 | 7.4 | 2.5 | 2.2 |
| F (5%) | s | s | s | n.s. | n.s. | n.s. |

Table 25: Nutrient management in maize-wheat-green gram cropping system under different tillage practices at Dholi.

| Tillage practices | Fertility level | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days of 50% tasseling | Days of 50% silking |
|----------------------|-----------------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| Conventional tillage | 50% RDF | 4783 | 7284 | 71.4 | 69.9 | 167.0 | 49.3 | 52.3 |
| | SSNM | 6133 | 9393 | 71.0 | 71.6 | 162.0 | 51.0 | 54.0 |
| | 100% RDF | 5942 | 9114 | 71.2 | 74.6 | 165.1 | 51.3 | 54.7 |
| Bed planting | 50% RDF | 5068 | 7841 | 70.6 | 69.9 | 172.1 | 49.0 | 52.3 |
| | SSNM | 6860 | 10567 | 70.8 | 71.4 | 162.3 | 50.3 | 53.3 |
| | 100% RDF | 6672 | 9891 | 70.4 | 72.8 | 173.1 | 49.3 | 52.7 |
| Zero tillage | 50% RDF | 5457 | 8358 | 70.4 | 69.3 | 152.7 | 49.3 | 52.7 |
| | SSNM | 6685 | 10269 | 71.0 | 71.2 | 160.1 | 50.0 | 53.3 |
| | 100% RDF | 6273 | 9552 | 71.4 | 74.0 | 162.3 | 51.0 | 54.3 |
| Location mean | | 5985.9 | 9141.0 | 71.0 | 71.6 | 164.1 | 50.1 | 53.3 |
| C.D.(5%) AiBj-AiBk | | 762.3 | 1167.6 | 1.4 | 2.0 | 6.7 | 2.3 | 2.5 |
| C.D.(5%) AiBk-AjBk | | 1119.9 | 1714.3 | 1.5 | 1.7 | 7.4 | 2.6 | 2.4 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|----------------------|-------|--------|------|------|-------|------|------|
| Conventional tillage | 5619 | 8597 | 71.2 | 72.0 | 164.7 | 50.6 | 53.7 |
| Bed planting | 6200 | 9433 | 70.6 | 71.4 | 169.2 | 49.6 | 52.8 |
| Zero tillage | 6138 | 9393 | 71.0 | 71.5 | 158.4 | 50.1 | 53.4 |
| C.D.(5%) Ai-Aj | 940.0 | 1438.7 | 0.9 | 0.6 | 5.0 | 1.8 | 1.3 |
| C.V.(%) Error A | 12.0 | 12.0 | 1.0 | 0.6 | 2.3 | 2.8 | 1.8 |
| F(5%) | n.s. | n.s. | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|---------------|-------|-------|------|------|-------|------|------|
| 50% RDF | 5103 | 7828 | 70.8 | 69.7 | 163.9 | 49.2 | 52.4 |
| SSNM | 6559 | 10076 | 71.0 | 71.4 | 161.5 | 50.4 | 53.6 |
| 100% RDF | 6296 | 9519 | 71.0 | 73.8 | 166.9 | 50.6 | 53.9 |
| C.D.(5%)Bi-Bj | 440.1 | 674.1 | 0.8 | 1.2 | 3.9 | 1.3 | 1.5 |
| C.V.(%)ErrorB | 7.2 | 7.2 | 1.1 | 1.6 | 2.3 | 2.6 | 2.7 |
| F(5%) | s | s | n.s. | s | s | n.s. | n.s. |

Treatment details:**Main plot: Tillage practices**

- T1 Conventional tillage
T2 Bed planting
T3 Zero tillage

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F1 50% RDF (50:30:20)
F2 SSNM (150:50:40)
F3 100% RDF (100:60:40)

Table 26: Nutrient management in maize-wheat-green gram cropping system under different tillage practices at Banswara.

| Tillage practices | Fertility levels | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|----------------------|------------------|---------------------|-------------------|------------------|----------------|-------------------|
| Zero tillage | 100% RDF | 4986 | 5903 | 64.7 | 49.4 | 229.3 |
| | SSNM | 5068 | 6174 | 65.8 | 55.9 | 244.0 |
| | 50% RDF | 2576 | 3201 | 61.6 | 44.4 | 211.7 |
| Conventional tillage | 100% RDF | 4035 | 4785 | 62.5 | 47.3 | 238.3 |
| | SSNM | 4188 | 5000 | 65.8 | 52.4 | 241.0 |
| | 50% RDF | 1903 | 2326 | 60.9 | 34.4 | 211.7 |
| Permanent bed | 100% RDF | 4403 | 5208 | 65.6 | 48.9 | 239.0 |
| | SSNM | 4563 | 5694 | 66.3 | 48.2 | 254.3 |
| | 50% RDF | 2347 | 2917 | 63.2 | 38.7 | 217.3 |
| Location mean | | 3785.3 | 4578.7 | 64.0 | 46.6 | 231.9 |
| C.D.(5%) AiBj-AiBk | | 428.0 | 509.1 | 2.0 | 4.0 | 11.7 |
| C.D.(5%) AiBk-AjBk | | 479.3 | 578.8 | 1.9 | 5.1 | 11.9 |
| F(5%) | | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | |
|----------------------|-------|-------|------|------|-------|
| Zero tillage | 4210 | 5093 | 64.1 | 49.9 | 228.3 |
| Conventional tillage | 3375 | 4037 | 63.1 | 44.7 | 230.3 |
| Permanent bed | 3771 | 4606 | 65.0 | 45.3 | 236.9 |
| C.D.(5%) Ai-Aj | 333.0 | 408.7 | 1.0 | 4.0 | 7.2 |
| C.V.(%) Error A | 6.7 | 6.8 | 1.2 | 6.6 | 2.4 |
| F(5%) | s | s | s | s | n.s. |

| | | | | | |
|---------------|-------|-------|------|------|-------|
| 100% RDF | 4475 | 5299 | 64.3 | 48.5 | 235.6 |
| SSNM | 4606 | 5623 | 66.0 | 52.2 | 246.4 |
| 50 %RDF | 2275 | 2815 | 61.9 | 39.2 | 213.6 |
| C.D.(5%)Bi-Bj | 247.1 | 293.9 | 1.1 | 2.3 | 6.8 |
| C.V.(%)ErrorB | 6.4 | 6.2 | 1.7 | 4.8 | 2.8 |
| F(5%) | s | s | s | s | s |

Treatment details:

Main plot: Tillage practices

- T1 Zero tillage
T2 Conventional tillage
T3 Permanent bed

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F1 100% RDF
F2 SSNM
F3 50% RDF

Table 27: Nutrient management in maize-wheat-green gram cropping system under different tillage practices at Udaipur.

| Tillage practices | Fertility level | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | PFSR affected plants/plot |
|----------------------|-----------------|---------------------|----------------------|------------------|----------------|---------------------------|
| ZT | 50% RDF | 2535 | 3740 | 62.9 | 60.8 | 5.5 |
| BP | | 2450 | 3671 | 63.6 | 62.0 | 4.3 |
| CT | | 2248 | 3190 | 63.6 | 62.1 | 4.0 |
| ZT | SSNM | 3610 | 5372 | 63.4 | 61.0 | 6.3 |
| BP | | 3543 | 5242 | 62.9 | 60.4 | 6.5 |
| CT | | 3333 | 4857 | 64.2 | 62.1 | 5.5 |
| ZT | 100% RDF | 3488 | 5268 | 63.9 | 62.4 | 4.0 |
| BP | | 3405 | 5141 | 63.6 | 61.8 | 4.8 |
| CT | | 3143 | 4547 | 62.9 | 61.3 | 4.0 |
| Location mean | | 3083.6 | 4558.5 | 63.4 | 61.5 | 5.0 |
| C.D.(5%) AiBj-AiBk | | 306.0 | 475.1 | 3.1 | 3.6 | 2.1 |
| C.D.(5%) AiBk-AjBk | | 424.7 | 662.5 | 4.7 | 4.8 | 2.0 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |
| 50% RDF | | 2410.8 | 3533.6 | 63.4 | 61.6 | 4.6 |
| SSNM | | 3495.0 | 5156.7 | 63.5 | 61.2 | 6.1 |
| 100% RDF | | 3345.0 | 4985.2 | 63.5 | 61.8 | 4.3 |
| C.D.(5%)Bi-Bj | | 344.9 | 539.3 | 3.9 | 3.8 | 1.1 |
| C.V.(%)ErrorB | | 11.2 | 11.8 | 6.2 | 6.2 | 21.2 |
| F(5%) | | s | s | n.s. | n.s. | s |
| Zero tillage | | 3210.8 | 4793.3 | 63.4 | 61.4 | 5.3 |
| Bed planting | | 3132.5 | 4684.4 | 63.4 | 61.4 | 5.2 |
| Conventional tillage | | 2907.5 | 4197.8 | 63.6 | 61.8 | 4.5 |
| C.D.(5%) Ai-Aj | | 176.7 | 274.3 | 1.8 | 2.1 | 1.2 |
| C.V.(%) Error A | | 6.7 | 7.0 | 3.3 | 3.9 | 28.1 |
| F(5%) | | s | s | n.s. | n.s. | n.s. |

Treatment details:**Main plot: Tillage practices**

- T1 Zero tillage
T2 Bed planting
T3 Conventional tillage

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F1 50% RDF(60:30:20)
F2 SSNM (134:52:00)
F3 100% RDF (120:60:40)

Table 28: Nutrient management in maize based cropping systems under different tillage practices at Delhi.

| Tillage practices | Fertility level | Grain yield (kg/ha) | Cobs ('000/ha) | Grain weight/cob (g) | Cob length (cm) | Grain rows/cob | Grains/row |
|----------------------|-----------------|---------------------|----------------|----------------------|-----------------|----------------|------------|
| Zero tillage | Control | 4091 | 59.1 | 70.0 | 13.3 | 12.3 | 28.8 |
| | 100% RDF | 6067 | 69.1 | 80.7 | 14.3 | 12.4 | 30.1 |
| | SSNM | 6098 | 69.8 | 80.7 | 14.4 | 12.9 | 32.0 |
| | 50% RDF | 5398 | 62.4 | 79.3 | 14.3 | 12.7 | 31.6 |
| Permanent bed | Control | 3056 | 63.0 | 70.2 | 12.8 | 12.3 | 27.7 |
| | 100% RDF | 5711 | 66.7 | 80.6 | 14.5 | 12.7 | 30.5 |
| | SSNM | 5846 | 68.3 | 77.1 | 14.6 | 12.8 | 30.3 |
| | 50% RDF | 5508 | 66.3 | 76.5 | 13.7 | 12.8 | 29.7 |
| Conventional tillage | Control | 2800 | 57.2 | 62.3 | 13.2 | 12.1 | 29.4 |
| | 100% RDF | 4765 | 62.3 | 71.1 | 14.0 | 12.3 | 27.5 |
| | SSNM | 4760 | 58.9 | 74.8 | 14.1 | 12.5 | 29.8 |
| | 50% RDF | 4548 | 58.0 | 72.1 | 13.7 | 12.5 | 29.2 |
| Location mean | | 4887.3 | 63.4 | 74.6 | 13.9 | 12.5 | 29.7 |
| C.D.(5%) AiBj-AiBk | | 564.2 | 6.1 | 8.5 | 1.2 | 0.8 | 2.9 |
| C.D.(5%) AiBk-AjBk | | 526.7 | 7.1 | 7.9 | 1.1 | 1.0 | 2.9 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|----------------------|-------|------|------|------|------|------|
| Zero tillage | 5413 | 65.1 | 77.7 | 14.1 | 12.6 | 30.6 |
| Conventional tillage | 5030 | 66.1 | 76.1 | 13.9 | 12.6 | 29.6 |
| Permanent bed | 4218 | 59.1 | 70.1 | 13.8 | 12.3 | 29.0 |
| C.D.(5%) Ai-Aj | 202.1 | 4.9 | 2.9 | 0.4 | 0.7 | 1.4 |
| C.V.(%) Error A | 3.6 | 6.8 | 3.4 | 2.6 | 4.8 | 4.2 |
| F(5%) | s | s | s | n.s. | n.s. | n.s. |

| | | | | | | |
|---------------|-------|------|------|------|------|------|
| Control | 3315 | 59.8 | 67.5 | 13.1 | 12.2 | 28.6 |
| 100% RDF | 5514 | 66.0 | 77.5 | 14.3 | 12.4 | 29.4 |
| SSNM | 5568 | 65.7 | 77.5 | 14.4 | 12.7 | 30.7 |
| 50% RDF | 5151 | 62.2 | 76.0 | 13.9 | 12.7 | 30.2 |
| C.D.(5%)Bi-Bj | 325.7 | 3.5 | 4.9 | 0.7 | 0.5 | 1.7 |
| C.V.(%)ErrorB | 6.7 | 5.6 | 6.7 | 4.8 | 3.8 | 5.7 |
| F(5%) | s | s | s | s | n.s. | n.s. |

Treatment details:**Main plot: Tillage practices**

- T1 Zero-till
T2 Conventional till
T3 Permanent bed

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F1 Control
F2 100% RDF (150:60:40)
F3 SSNM (160:33:66)
F4 50% RDF + 2.5 t/ha maize residue

Table 29: Nutrient management in maize-mustard cropping systems under different tillage practices at Chhindwara.

| Fertility level | Tillage practices | Grain yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|------------------|-------------------|---------------------|------------------|----------------|-------------------|---------------------|
| 50% RDF | CT | 3133 | 74.8 | 68.9 | 164.7 | 68.0 |
| | PB | 3052 | 74.1 | 65.9 | 171.0 | 68.3 |
| | ZT | 3130 | 75.6 | 68.5 | 168.7 | 68.3 |
| 100% RDF | CT | 3785 | 75.9 | 68.9 | 175.3 | 66.3 |
| | PB | 3870 | 76.3 | 71.5 | 173.3 | 68.3 |
| | ZT | 4056 | 74.8 | 70.4 | 175.0 | 67.0 |
| SSNM | CT | 4733 | 77.0 | 72.6 | 186.0 | 67.7 |
| | PB | 4844 | 77.8 | 73.7 | 179.7 | 66.7 |
| | ZT | 4615 | 77.0 | 71.5 | 179.0 | 67.3 |
| Mean of location | | 3913.2 | 75.9 | 70.2 | 174.7 | 67.6 |
| C.D. at 5 (%) | | 640.1 | 3.3 | 7.0 | 19.7 | 1.8 |
| F (5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------------|-------|------|------|-------|------|
| 50% RDF (60:30:20) | 3105 | 74.8 | 67.8 | 168.1 | 68.2 |
| 100% RDF (120:60:40) | 3904 | 75.7 | 70.2 | 174.6 | 67.2 |
| SSNM (140:34:71) | 4731 | 77.3 | 72.6 | 181.6 | 67.2 |
| C.D. at 5 (%) | 369.5 | 1.9 | 4.1 | 11.4 | 1.0 |
| F (5%) | s | s | n.s. | n.s. | n.s. |

| | | | | | |
|----------------------|-------|------|------|-------|------|
| Conventional tillage | 3884 | 75.9 | 70.1 | 175.3 | 67.3 |
| Permanent bed | 3922 | 76.0 | 70.4 | 174.7 | 67.8 |
| Zero tillage | 3933 | 75.8 | 70.1 | 174.2 | 67.6 |
| C.D. at 5 (%) | 369.5 | 1.9 | 4.1 | 11.4 | 1.0 |
| C.V. (%) | 9.4 | 2.5 | 5.8 | 6.5 | 1.5 |
| F (5%) | n.s. | n.s. | n.s. | n.s. | n.s. |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 50% RDF (60:30:20)
 F2 100% RDF (120:60:40)
 F3 SSNM (140:34:71)

Sub plot: Tillage practices

- T1 Conventional tillage
 T2 Permanent bed
 T3 Zero tillage

Table 30: Nutrient requirement of maize hybrids in maize-wheat cropping system at Bajaura.

| Hybrids | Fertility levels | Grain yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|--------------------|------------------|---------------------|------------------|----------------|-------------------|---------------------|
| PMH-3 | 50% RDF | 7743 | 82.5 | 75.8 | 261.3 | 63.3 |
| | SSNM | 13493 | 81.6 | 77.8 | 281.3 | 59.7 |
| | 100% RDF | 11433 | 80.5 | 76.3 | 268.3 | 60.3 |
| PMH-1 | 50% RDF | 7917 | 80.8 | 77.2 | 246.7 | 65.3 |
| | SSNM | 14100 | 82.5 | 81.9 | 256.7 | 60.7 |
| | 100% RDF | 12540 | 81.9 | 79.4 | 263.0 | 61.0 |
| HQPM-1 | 50% RDF | 7900 | 82.8 | 77.8 | 204.7 | 60.3 |
| | SSNM | 11357 | 82.8 | 76.9 | 220.7 | 59.7 |
| | 100% RDF | 10300 | 81.9 | 76.9 | 212.7 | 60.0 |
| VIVEK QPM-9 | 50% RDF | 5983 | 78.6 | 75.8 | 188.0 | 54.0 |
| | SSNM | 10300 | 81.1 | 78.3 | 216.7 | 50.7 |
| | 100% RDF | 9373 | 81.1 | 78.3 | 198.3 | 52.7 |
| VIVEK Hybrid-10 | 50% RDF | 6270 | 81.6 | 79.1 | 187.7 | 53.7 |
| | SSNM | 10907 | 81.4 | 75.5 | 203.0 | 50.7 |
| | 100% RDF | 9470 | 82.5 | 78.9 | 196.0 | 51.0 |
| Location mean | | 9939.1 | 81.6 | 77.7 | 227.0 | 57.5 |
| C.D.(5%) AiBj-AiBk | | 1652.0 | 3.3 | 5.5 | 10.4 | 2.3 |
| C.D.(5%) AiBk-AjBk | | 1691.8 | 3.5 | 5.3 | 10.0 | 3.0 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |
| PMH-3 | | 10890 | 81.5 | 76.7 | 270.3 | 61.1 |
| PMH-1 | | 11519 | 81.7 | 79.5 | 255.4 | 62.3 |
| HQPM-1 | | 9852 | 82.5 | 77.2 | 212.7 | 60.0 |
| VIVEK QPM-9 | | 8552 | 80.3 | 77.5 | 201.0 | 52.4 |
| VIVEK Hybrid-10 | | 8882 | 81.8 | 77.8 | 195.6 | 51.8 |
| C.D.(5%) Ai-Aj | | 1024.4 | 2.2 | 2.8 | 5.4 | 2.4 |
| C.V.(%) Error A | | 9.5 | 2.5 | 3.3 | 2.2 | 3.8 |
| F(5%) | | s | n.s. | n.s. | s | s |
| 50% RDF | | 7163 | 81.3 | 77.1 | 217.7 | 59.3 |
| SSNM | | 12031 | 81.9 | 78.1 | 235.7 | 56.3 |
| 100% RDF | | 10623 | 81.6 | 78.0 | 227.7 | 57.0 |
| C.D.(5%)Bi-Bj | | 738.8 | 1.5 | 2.5 | 4.6 | 1.0 |
| C.V.(%)ErrorB | | 9.8 | 2.4 | 4.1 | 2.7 | 2.3 |
| F(5%) | | s | n.s. | n.s. | s | s |

Treatment details:**Main plot: Maize hybrids**

- H1 PMH-3 (10 tones/ha)
H2 PMH-1 (10 tones/ha)
H3 HQPM-1 (10 tones/ha)
H4 VIVEK QPM-9 (8 tones/ha)
H5 VIVEK Hybrid-10 (8 tones/ha)

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

- F1 50% RDF (60+30+20 kg/ha N, P₂O₅, K₂O, respectively)
F2 SSNM (a, b, c = 170+60+115; d, e = 140+47+71)
F3 100% RDF (120+60+40 kg /ha N, P₂O₅, K₂O, respectively)

Table 31: Nutrient requirement of maize hybrids in maize-wheat cropping system at Kangra.

| Fertility levels | Hybrids | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|--------------------|-----------|---------------------|----------------------|------------------|----------------|-------------------|---------------------|
| SSNM | PAC 740 | 5667 | 15864 | 47.1 | 45.5 | 238.3 | 63.3 |
| | PMZ 4 | 7335 | 19136 | 64.0 | 61.7 | 217.3 | 60.7 |
| | PSCL 4640 | 7380 | 16975 | 61.0 | 63.3 | 216.7 | 59.3 |
| | HQPM 1 | 4496 | 11975 | 57.1 | 47.1 | 204.3 | 58.7 |
| | BISCO 855 | 6839 | 15123 | 61.0 | 54.8 | 216.7 | 56.3 |
| 100% RDF | PAC 740 | 5396 | 17284 | 38.6 | 36.3 | 226.3 | 62.7 |
| | PMZ 4 | 7408 | 17963 | 64.0 | 63.3 | 210.7 | 59.7 |
| | PSCL 4640 | 7046 | 16605 | 61.0 | 61.7 | 210.3 | 58.3 |
| | HQPM 1 | 5637 | 12963 | 62.5 | 54.8 | 207.7 | 57.0 |
| | BISCO 855 | 5105 | 12963 | 47.1 | 44.8 | 223.3 | 54.3 |
| 50% RDF | PAC 740 | 5041 | 16975 | 44.8 | 41.7 | 234.7 | 63.7 |
| | PMZ 4 | 6717 | 15123 | 56.3 | 55.6 | 215.7 | 61.0 |
| | PSCL 4640 | 7146 | 12963 | 59.4 | 57.9 | 213.7 | 58.3 |
| | HQPM 1 | 4804 | 13457 | 63.3 | 41.7 | 203.3 | 58.7 |
| | BISCO 855 | 4301 | 15864 | 52.5 | 42.4 | 221.7 | 54.7 |
| Farmer Practices | PAC 740 | 4154 | 12160 | 58.6 | 38.6 | 214.7 | 64.0 |
| | PMZ 4 | 5024 | 13580 | 64.8 | 42.4 | 189.3 | 62.7 |
| | PSCL 4640 | 4686 | 12346 | 59.4 | 42.4 | 189.3 | 60.7 |
| | HQPM 1 | 4390 | 12346 | 60.2 | 41.7 | 189.0 | 60.3 |
| | BISCO 855 | 4738 | 12037 | 49.4 | 42.4 | 201.0 | 55.3 |
| Location mean | | 5665.5 | 14685.1 | 56.6 | 49.0 | 212.2 | 59.5 |
| C.D.(5%) AiBj-AiBk | | 692.3 | 2395.0 | 3.9 | 6.2 | 17.1 | 2.2 |
| C.D.(5%) AiBk-AjBk | | 651.4 | 2558.5 | 4.1 | 7.1 | 18.7 | 2.4 |
| F(5%) | | s | s | s | s | n.s. | n.s. |
| SSNM | | 6343 | 15815 | 58.0 | 54.5 | 218.7 | 59.7 |
| 100% RDF | | 6119 | 15555 | 54.6 | 52.2 | 215.7 | 58.4 |
| 50% RDF | | 5602 | 14876 | 55.2 | 47.8 | 217.8 | 59.3 |
| Farmer Practices | | 4599 | 12494 | 58.5 | 41.5 | 196.7 | 60.6 |
| C.D.(5%) Ai-Aj | | 205.0 | 1414.3 | 2.2 | 4.4 | 10.9 | 1.4 |
| C.V.(%) Error A | | 4.0 | 10.8 | 4.3 | 10.1 | 5.7 | 2.6 |
| F(5%) | | s | s | s | s | s | s |
| PAC 740 | | 5064 | 15571 | 47.3 | 40.5 | 228.5 | 63.4 |
| PMZ 4 | | 6621 | 16451 | 62.3 | 55.7 | 208.3 | 61.0 |
| PSCL 4640 | | 6565 | 14722 | 60.2 | 56.3 | 207.5 | 59.2 |
| HQPM 1 | | 4832 | 12685 | 60.8 | 46.3 | 201.1 | 58.7 |
| BISCO 855 | | 5246 | 13997 | 52.5 | 46.1 | 215.7 | 55.2 |
| C.D.(5%)Bi-Bj | | 346.1 | 1197.5 | 2.0 | 3.1 | 8.5 | 1.1 |
| C.V.(%)ErrorB | | 7.3 | 9.8 | 4.2 | 7.7 | 4.8 | 2.2 |
| F(5%) | | s | s | s | s | s | s |

Treatment details**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 SSNM (136:26:56)
 F2 100% RDF (120:60:40)
 F3 50% RDF (60:30:20)
 F4 Farmer Practices: 10Ton FYM +75kg N

Sub plot: Maize hybrids

H1 PAC 740 H5 BISCO 855
 H2 PMZ 4
 H3 PSCL 4640
 H4 HQPM 1

Cont...

| Fertility levels | Hybrids | Net return (Rs/ha) | B:C ratio | Nitrogen uptake (kg/ha) | Phosphorus uptake (kg/ha) | Potassium uptake (kg/ha) |
|--------------------|-----------|--------------------|-----------|-------------------------|---------------------------|--------------------------|
| SSNM | PAC 740 | 69418 | 3.6 | 163.5 | 34.6 | 180.9 |
| | PMZ 4 | 95165 | 4.6 | 172.3 | 41.6 | 200.4 |
| | PSCL 4640 | 91917 | 4.5 | 182.5 | 43.6 | 201.9 |
| | HQPM 1 | 48563 | 2.8 | 136.5 | 30.4 | 162.5 |
| | BISCO 855 | 82189 | 4.1 | 171.6 | 37.3 | 519.8 |
| 100% RDF | PAC 740 | 67246 | 3.1 | 139.7 | 32.1 | 178.9 |
| | PMZ 4 | 92575 | 4.0 | 185.2 | 42.2 | 198.9 |
| | PSCL 4640 | 85856 | 3.8 | 176.4 | 40.2 | 190.9 |
| | HQPM 1 | 62574 | 2.9 | 148.8 | 33.8 | 181.9 |
| | BISCO 855 | 56190 | 2.7 | 137.7 | 32.3 | 168.6 |
| 50% RDF | PAC 740 | 65367 | 3.6 | 143.3 | 30.7 | 166.7 |
| | PMZ 4 | 82242 | 4.3 | 167.8 | 41.8 | 186.5 |
| | PSCL 4640 | 83613 | 4.4 | 170.5 | 42.3 | 192.3 |
| | HQPM 1 | 56374 | 3.3 | 134.9 | 32.9 | 162.6 |
| | BISCO 855 | 54544 | 3.2 | 136.9 | 30.3 | 159.3 |
| Farmer Practices | PAC 740 | 33732 | 1.9 | 142.9 | 28.9 | 156.7 |
| | PMZ 4 | 46655 | 2.2 | 153.8 | 33.0 | 161.6 |
| | PSCL 4640 | 40439 | 2.1 | 139.4 | 33.2 | 161.5 |
| | HQPM 1 | 36889 | 2.0 | 141.1 | 32.4 | 153.2 |
| | BISCO 855 | 40516 | 2.1 | 140.4 | 29.3 | 159.3 |
| Location mean | | 64603.2 | 3.3 | 154.3 | 35.2 | 192.2 |
| C.D.(5%) AiBj-AiBk | | 10270.5 | 0.3 | 12.4 | 3.9 | 216.8 |
| C.D.(5%) AiBk-AjBk | | 10135.0 | 0.6 | 14.0 | 4.2 | 226.5 |
| F(5%) | | s | s | s | s | n.s. |
| SSNM | | 77450 | 3.9 | 165.3 | 37.5 | 253.1 |
| 100% RDF | | 72888 | 3.3 | 157.6 | 36.1 | 183.8 |
| 50% RDF | | 68428 | 3.8 | 150.7 | 35.6 | 173.5 |
| Farmer Practices | | 39646 | 2.1 | 143.5 | 31.4 | 158.5 |
| C.D.(5%) Ai-Aj | | 4334.5 | 0.5 | 8.7 | 2.3 | 118.5 |
| C.V.(%) Error A | | 7.5 | 18.4 | 6.3 | 7.4 | 69.0 |
| F(5%) | | s | s | s | s | n.s. |
| PAC 740 | | 58941 | 3.1 | 147.4 | 31.6 | 170.8 |
| PMZ 4 | | 79159 | 3.8 | 169.7 | 39.7 | 186.9 |
| PSCL 4640 | | 75456 | 3.7 | 167.2 | 39.8 | 186.7 |
| HQPM 1 | | 51100 | 2.8 | 140.3 | 32.4 | 165.1 |
| BISCO 855 | | 58360 | 3.0 | 146.7 | 32.3 | 251.8 |
| C.D.(5%)Bi-Bj | | 5135.3 | 0.2 | 6.2 | 2.0 | 108.4 |
| C.V.(%)ErrorB | | 9.6 | 6.4 | 4.8 | 6.7 | 67.8 |
| F(5%) | | s | s | s | s | n.s. |

Table 32: Nutrient requirement of maize hybrids in maize-wheat cropping system at Delhi.

| Fertility level | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Straw yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|------------------|------------|---------------------|-------------------|---------------------|------------------|----------------|-------------------|
| Control | PMH 1 | 3356 | 5008 | 4975 | 75.3 | 68.7 | 161.1 |
| | PMH 3 | 3097 | 3919 | 2736 | 67.0 | 67.2 | 139.7 |
| | HQPM 1 | 2480 | 3412 | 2836 | 66.0 | 54.6 | 126.4 |
| | S-6217 | 3790 | 4609 | 2570 | 74.5 | 67.8 | 148.0 |
| | CMH-08-292 | 3430 | 4975 | 3317 | 65.2 | 56.9 | 175.8 |
| 100% RDF | PMH 1 | 4296 | 5313 | 4975 | 71.6 | 66.7 | 175.6 |
| | PMH 3 | 4455 | 5532 | 4146 | 68.2 | 72.3 | 174.9 |
| | HQPM 1 | 3580 | 5307 | 3483 | 69.2 | 62.7 | 159.8 |
| | S-6217 | 4188 | 5303 | 3234 | 65.7 | 61.4 | 161.8 |
| | CMH-08-292 | 4982 | 6283 | 5804 | 63.3 | 60.4 | 205.8 |
| 50% RDF | PMH 1 | 3863 | 5018 | 3483 | 66.2 | 59.4 | 184.0 |
| | PMH 3 | 4416 | 5921 | 4063 | 71.5 | 68.5 | 167.8 |
| | HQPM 1 | 2563 | 4099 | 3400 | 65.2 | 64.3 | 145.3 |
| | S-6217 | 3926 | 7480 | 3648 | 68.0 | 67.5 | 153.2 |
| | CMH-08-292 | 3501 | 4464 | 2902 | 67.2 | 58.2 | 164.6 |
| SSNM | PMH 1 | 3937 | 4958 | 4809 | 73.5 | 65.2 | 161.7 |
| | PMH 3 | 5217 | 6934 | 4643 | 73.8 | 71.8 | 167.4 |
| | HQPM 1 | 3477 | 4339 | 3648 | 63.7 | 65.8 | 155.3 |
| | S-6217 | 5015 | 5745 | 3483 | 63.8 | 62.9 | 160.8 |
| | CMH-08-292 | 4078 | 5062 | 4561 | 65.0 | 54.6 | 186.0 |
| Mean of location | | 3882.4 | 5184.0 | 3835.8 | 68.2 | 63.8 | 163.7 |
| C.D. at 5 (%) | | 754.2 | 1298.7 | 2397.6 | 14.9 | 16.8 | 39.0 |
| F (5%) | | s | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|---------------|-------|-------|--------|------|------|-------|
| Control | 3231 | 4385 | 3287 | 69.6 | 63.0 | 150.2 |
| 100% RDF | 4300 | 5548 | 4328 | 67.6 | 64.7 | 175.6 |
| 50% RDF | 3654 | 5396 | 3499 | 67.6 | 63.6 | 163.0 |
| SSNM | 4345 | 5408 | 4229 | 68.0 | 64.0 | 166.2 |
| C.D. at 5 (%) | 337.3 | 580.8 | 1072.2 | 6.7 | 7.5 | 17.4 |
| F (5%) | s | s | n.s. | n.s. | n.s. | s |

| | | | | | | |
|---------------|-------|-------|--------|------|------|-------|
| PMH 1 | 3863 | 5074 | 4561 | 71.6 | 65.0 | 170.6 |
| PMH 3 | 4296 | 5576 | 3897 | 70.1 | 69.9 | 162.4 |
| HQPM 1 | 3025 | 4289 | 3342 | 66.0 | 61.9 | 146.7 |
| S-6217 | 4230 | 5784 | 3234 | 68.0 | 64.9 | 155.9 |
| CMH-08-292 | 3998 | 5196 | 4146 | 65.2 | 57.5 | 183.0 |
| C.D. at 5 (%) | 377.1 | 649.3 | 1198.8 | 7.4 | 8.4 | 19.5 |
| C.V. (%) | 11.7 | 15.2 | 37.8 | 13.2 | 15.9 | 14.4 |
| F (5%) | s | s | n.s. | n.s. | n.s. | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F0 Control
 F1 100% RDF (150:60:40)
 F2 50% RDF (75:30:20)
 F3 SSNM*

Sub Plot: Maize Hybrids (Target yield: N:P₂O₅:K₂O kg/ha)

- H1 PMH 1 *(170:40:48)
 H2 PMH 3 *(170:40:48)
 H3 HQPM 1 *(170:33:40)
 H4 S-6217 *(170:40:48)
 H5 CMH-08-292 *(170:40:48)

* SSNM for different hybrids

Table 33: Nutrient requirement of maize hybrids under maize-chickpea cropping system at Kanpur.

| Fertility level | Hybrids | Grain yield (kg/ha) | Cab yield (kg/ha) | Plants ('000/ha) | Plant height (cm) | Days to 50% silking |
|--------------------|------------|---------------------|-------------------|------------------|-------------------|---------------------|
| 100% RDF | PMH-1 | 4917 | 6528 | 53.6 | 161.7 | 52.0 |
| | PMH-3 | 4847 | 6444 | 53.3 | 162.0 | 53.0 |
| | HQPM-1 | 4667 | 6111 | 53.3 | 162.3 | 52.0 |
| | PMH-4 | 4861 | 6486 | 53.3 | 162.0 | 53.0 |
| | CMH-08-292 | 4958 | 6375 | 53.3 | 161.7 | 52.0 |
| SSNM | PMH-1 | 5542 | 7181 | 55.0 | 165.7 | 53.0 |
| | PMH-3 | 5569 | 7167 | 54.2 | 165.3 | 52.0 |
| | HQPM-1 | 5444 | 7042 | 55.0 | 165.3 | 53.0 |
| | PMH-4 | 5681 | 7264 | 54.2 | 165.0 | 52.0 |
| | CMH-08-292 | 5750 | 7181 | 55.0 | 164.0 | 52.0 |
| 50% RDF | PMH-1 | 4097 | 5306 | 52.8 | 148.3 | 52.0 |
| | PMH-3 | 4167 | 5417 | 52.5 | 148.7 | 51.7 |
| | HQPM-1 | 4056 | 5319 | 51.7 | 147.0 | 52.0 |
| | PMH-4 | 4389 | 5611 | 51.9 | 148.7 | 52.3 |
| | CM-08-292 | 4472 | 5653 | 51.4 | 138.7 | 52.0 |
| Location mean | | 4894.4 | 6338.9 | 53.4 | 157.8 | 52.3 |
| C.D.(5%) AiBj-AiBk | | 147.4 | 197.5 | 1.3 | 2.2 | 1.4 |
| C.D.(5%) AiBk-AjBk | | 262.7 | 259.6 | 1.4 | 2.3 | 2.1 |
| F(5%) | | n.s. | s | n.s. | s | n.s. |

| | | | | | |
|-----------------|-------|-------|------|-------|------|
| 100% RDF | 4850 | 6389 | 53.4 | 161.9 | 52.4 |
| SSNM | 5597 | 7167 | 54.7 | 165.1 | 52.4 |
| 50% RDF | 4236 | 5461 | 52.1 | 146.3 | 52.0 |
| C.D.(5%) Ai-Aj | 230.0 | 194.2 | 0.7 | 1.3 | 1.7 |
| C.V.(%) Error A | 4.6 | 3.0 | 1.4 | 0.8 | 3.1 |
| F(5%) | s | s | s | s | n.s. |

| | | | | | |
|---------------|------|-------|------|-------|------|
| PMH-1 | 4852 | 6338 | 53.8 | 158.6 | 52.3 |
| PMH-3 | 4861 | 6343 | 53.3 | 158.7 | 52.2 |
| HQPM-1 | 4722 | 6157 | 53.3 | 158.2 | 52.3 |
| PMH-4 | 4977 | 6454 | 53.1 | 158.6 | 52.4 |
| CMH-08-292 | 5060 | 6403 | 53.2 | 154.8 | 52.0 |
| C.D.(5%)Bi-Bj | 85.1 | 114.0 | 0.7 | 1.3 | 0.8 |
| C.V.(%)ErrorB | 1.8 | 1.8 | 1.4 | 0.8 | 1.6 |
| F(5%) | s | s | n.s. | s | n.s. |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 100% of RDF (180:60:40)

F2 SSNM (112:47:50)

F3 50% RDF (90:30:20)

Sub plot: Maize hybrids

H1 PMH 1

H2 PMH 3

H3 HQPM 1

H4 PMH 4

H5 CMH-08-292

Table 34: Nutrient requirement of maize hybrids under maize-wheat cropping system at Karnal.

| Hybrids | Fertility level | Grain yield (kg/ha) | Cob yield (kg/ha) | Cobs ('000/ha) | Days to 50% tasseling | Days to 50% silking | Plant height (cm) |
|--------------------|-----------------|---------------------|-------------------|----------------|-----------------------|---------------------|-------------------|
| HQPM-1 | 100% RDF | 6673 | 9939 | 60.0 | 48.7 | 51.7 | 169.7 |
| | SSNM | 6733 | 10043 | 59.7 | 48.0 | 50.7 | 168.0 |
| | 50%RDF | 4613 | 7039 | 59.7 | 49.3 | 52.3 | 140.3 |
| PMH-1 | 100% RDF | 5837 | 8797 | 54.7 | 52.0 | 54.0 | 210.0 |
| | SSNM | 5783 | 8757 | 54.4 | 51.3 | 54.0 | 209.3 |
| | 50%RDF | 3680 | 5631 | 54.4 | 53.3 | 56.0 | 172.0 |
| PMH-3 | 100% RDF | 6629 | 10041 | 59.7 | 50.7 | 54.0 | 225.0 |
| | SSNM | 6557 | 9967 | 59.7 | 52.3 | 54.7 | 223.7 |
| | 50%RDF | 4501 | 6880 | 59.7 | 54.0 | 56.3 | 183.7 |
| PMH-4 | 100% RDF | 6377 | 9630 | 55.0 | 47.3 | 49.7 | 219.0 |
| | SSNM | 6209 | 9451 | 54.7 | 48.3 | 51.0 | 220.0 |
| | 50%RDF | 4243 | 6539 | 55.3 | 49.3 | 52.0 | 184.3 |
| CMH-08-292 | 100% RDF | 4387 | 6625 | 38.9 | 52.3 | 54.7 | 204.7 |
| | SSNM | 4376 | 6602 | 38.9 | 52.0 | 55.0 | 204.7 |
| | 50%RDF | 2657 | 4086 | 38.6 | 53.7 | 57.0 | 165.3 |
| Location mean | | 5283.7 | 8001.7 | 53.6 | 50.8 | 53.5 | 193.3 |
| C.D.(5%) AiBj-AiBk | | 694.1 | 733.4 | 0.9 | 2.0 | 1.9 | 8.5 |
| C.D.(5%) AiBk-AjBk | | 719.8 | 768.2 | 1.1 | 2.2 | 2.1 | 10.0 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | |
|-----------------|-------|-------|------|------|------|-------|
| HQPM-1 | 6007 | 9007 | 59.8 | 48.7 | 51.6 | 159.3 |
| PMH-1 | 5100 | 7728 | 54.5 | 52.2 | 54.7 | 197.1 |
| PMH-3 | 5896 | 8962 | 59.7 | 52.3 | 55.0 | 210.8 |
| PMH-4 | 5610 | 8540 | 55.0 | 48.3 | 50.9 | 207.8 |
| CMH-08-292 | 3807 | 5771 | 38.8 | 52.7 | 55.6 | 191.6 |
| C.D.(5%) Ai-Aj | 445.2 | 482.6 | 0.8 | 1.5 | 1.4 | 7.3 |
| C.V.(%) Error A | 7.8 | 5.5 | 1.3 | 2.7 | 2.5 | 3.5 |
| F(5%) | s | s | s | s | s | s |

| | | | | | | |
|----------------------|-------|-------|------|------|------|-------|
| 100% RDF (150:60:60) | 5981 | 9007 | 53.7 | 50.2 | 52.8 | 205.7 |
| SSNM (135:55:70) | 5932 | 8964 | 53.5 | 50.4 | 53.1 | 205.1 |
| 50% RDF (75:30:30) | 3939 | 6035 | 53.6 | 51.9 | 54.7 | 169.1 |
| C.D.(5%)Bi-Bj | 310.4 | 328.0 | 0.4 | 0.9 | 0.8 | 3.8 |
| C.V.(%)ErrorB | 7.7 | 5.4 | 1.0 | 2.3 | 2.1 | 2.6 |
| F(5%) | s | s | n.s. | s | s | s |

Treatment details:**Main plot: Maize hybrids**

| | |
|----|------------|
| H1 | HQPM-1 |
| H2 | PMH-1 |
| H3 | PMH-3 |
| H4 | PMH-4 |
| H5 | CMH-08-292 |

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

| | |
|----|----------------------|
| F1 | 100% RDF (150:60:60) |
| F2 | SSNM (135:55:70) |
| F3 | 50% RDF (75:30:30) |

Table 35: Nutrient requirement of maize hybrids under maize-wheat cropping system at Ludhiana.

| Fertility levels | Hybrids | Grain yield (kg/ha) | Plants ('000/h a) | Cobs ('000/h a) | Days 50% tasseling | Days 50% silking | Plant height (cm) | Gross returns (Rs/ha) | Net returns (Rs/ha) |
|--------------------|------------|---------------------|-------------------|-----------------|--------------------|------------------|-------------------|-----------------------|---------------------|
| 50% RDF | PMH-1 | 7649 | 61.8 | 64.2 | 57.0 | 59.0 | 215.7 | 91792 | 60643 |
| | PMH-3 | 7403 | 61.1 | 65.6 | 57.3 | 60.0 | 228.0 | 88833 | 57685 |
| | HQPM-1 | 5559 | 62.2 | 72.6 | 53.0 | 56.0 | 192.7 | 66708 | 35560 |
| | PMH-4 | 6306 | 62.8 | 73.6 | 52.0 | 54.7 | 192.3 | 75667 | 44518 |
| | CMH-08-292 | 6448 | 53.5 | 54.9 | 56.0 | 58.3 | 229.7 | 77375 | 46226 |
| SSNM | PMH-1 | 8899 | 63.5 | 68.1 | 56.7 | 59.3 | 239.7 | 106792 | 70048 |
| | PMH-3 | 8851 | 62.2 | 70.5 | 57.0 | 59.0 | 227.7 | 106208 | 69069 |
| | HQPM-1 | 6670 | 62.2 | 71.9 | 52.7 | 54.7 | 207.0 | 80042 | 44082 |
| | PMH-4 | 7309 | 59.7 | 73.6 | 50.7 | 53.0 | 186.3 | 87708 | 51333 |
| | CMH-08-292 | 7625 | 55.6 | 61.1 | 53.7 | 57.3 | 233.0 | 91500 | 55125 |
| 100% RDF | PMH-1 | 8361 | 62.8 | 69.1 | 55.0 | 58.0 | 236.3 | 100333 | 67011 |
| | PMH-3 | 8066 | 61.1 | 66.7 | 55.7 | 58.3 | 229.0 | 96792 | 63469 |
| | HQPM-1 | 6288 | 63.5 | 71.9 | 54.7 | 56.7 | 204.7 | 75458 | 42136 |
| | PMH-4 | 6878 | 63.5 | 72.9 | 52.0 | 54.3 | 188.3 | 82542 | 49219 |
| | CMH-08-292 | 6979 | 53.5 | 60.8 | 57.0 | 59.0 | 232.3 | 83750 | 50428 |
| Location mean | | 7286 | 60.6 | 67.8 | 54.7 | 57.2 | 216.2 | 87433.3 | 53770.1 |
| C.D.(5%) AiBj-AiBk | | 696 | 2.8 | 5.5 | 2.5 | 2.3 | 20.3 | 8349.3 | 8349.3 |
| C.D.(5%) AiBk-AjBk | | 794 | 2.7 | 6.0 | 3.7 | 4.0 | 28.8 | 9526.6 | 9526.6 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | | |
|-----------------|--------|------|------|------|------|-------|--------|--------|
| 50% RDF | 6672.9 | 60.3 | 66.2 | 55.1 | 57.6 | 211.7 | 80075 | 48926 |
| SSNM | 7870.8 | 60.6 | 69.0 | 54.1 | 56.7 | 218.7 | 94450 | 57932 |
| 100% RDF | 7314.6 | 60.9 | 68.3 | 54.9 | 57.3 | 218.1 | 87775 | 54453 |
| C.D.(5%) Ai-Aj | 505.2 | 0.9 | 3.4 | 3.0 | 3.5 | 22.8 | 6063.0 | 6063.0 |
| C.V.(%) Error A | 6.8 | 1.5 | 5.0 | 5.5 | 6.0 | 10.4 | 6.8 | 11.1 |
| F(5%) | s | n.s. | n.s. | n.s. | n.s. | n.s. | s | s |

| | | | | | | | | |
|---------------|-------|------|------|------|------|-------|--------|--------|
| PMH-1 | 8303 | 62.7 | 67.1 | 56.2 | 58.8 | 230.6 | 99639 | 65901 |
| PMH-3 | 8106 | 61.5 | 67.6 | 56.7 | 59.1 | 228.2 | 97278 | 63408 |
| HQPM-1 | 6172 | 62.6 | 72.1 | 53.4 | 55.8 | 201.4 | 74069 | 40593 |
| PMH-4 | 6831 | 62.0 | 73.4 | 51.6 | 54.0 | 189.0 | 81972 | 48357 |
| CMH-08-292 | 7017 | 54.2 | 58.9 | 55.6 | 58.2 | 231.7 | 84208 | 50593 |
| C.D.(5%)Bi-Bj | 401.7 | 1.6 | 3.2 | 1.4 | 1.4 | 11.7 | 4820.5 | 4820.5 |
| C.V.(%)ErrorB | 5.7 | 2.8 | 4.8 | 2.7 | 2.4 | 5.6 | 5.7 | 9.2 |
| F(5%) | s | s | s | s | s | s | s | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 50% RDF
 F2 SSNM
 F3 100% RDF

Sub plot: Maize hybrids

- V1 PMH-1 (11 t/ha:140:57:121)
 V2 PMH-3 (12 t/ha:140:60:130)
 V3 HQPM-1(9 t/ha:140:50:105)
 V4 PMH-4(10 t/ha:140:54:113)
 V5 CMH-08-292(10 t/ha:140:54:113)

Table 36: Nutrients requirements of maize hybrids under maize-chickpea cropping system at Baharaich.

| Fertility levels | Maize Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Nutrient uptake (kg/ha) | | |
|--------------------|---------------|---------------------|-------------------|----------------------|------------------|----------------|-------------------|-------------------------|------|------|
| | | | | | | | | N | P | K |
| 100% RDF | PMH-1 | 6667 | 8500 | 2666 | 82.6 | 85.4 | 204.7 | 175.6 | 53.3 | 33.2 |
| | PMH-3 | 8076 | 10090 | 3293 | 82.6 | 90.3 | 198.0 | 213.9 | 64.6 | 35.5 |
| | CMH-08-350 | 6507 | 8139 | 2642 | 79.9 | 83.3 | 198.3 | 172.5 | 52.4 | 31.5 |
| | CMH-08-287 | 7194 | 9188 | 2877 | 82.6 | 79.2 | 212.3 | 190.4 | 57.8 | 32.2 |
| | CMH-08-292 | 6792 | 8500 | 2716 | 82.6 | 82.6 | 208.7 | 179.9 | 54.4 | 31.2 |
| SSNM | PMH-1 | 6583 | 8438 | 2460 | 81.9 | 83.3 | 203.3 | 174.4 | 52.7 | 32.9 |
| | PMH-3 | 8021 | 9840 | 3207 | 81.3 | 87.5 | 195.7 | 207.6 | 64.1 | 34.3 |
| | CMH-08-350 | 6458 | 8021 | 2610 | 82.6 | 81.9 | 194.3 | 172.6 | 51.7 | 31.0 |
| | CMH-08-287 | 7083 | 9063 | 2866 | 81.3 | 82.6 | 207.0 | 187.1 | 56.9 | 31.1 |
| | CMH-08-292 | 6729 | 9007 | 2693 | 80.6 | 81.3 | 207.0 | 178.8 | 53.5 | 30.4 |
| 50% RDF | PMH-1 | 4389 | 5245 | 1755 | 81.3 | 81.3 | 177.7 | 116.5 | 35.1 | 21.9 |
| | PMH-3 | 4729 | 5986 | 1896 | 81.9 | 82.6 | 160.0 | 124.8 | 37.3 | 22.5 |
| | CMH-08-350 | 4167 | 5389 | 1678 | 80.6 | 81.3 | 169.0 | 109.8 | 33.3 | 21.0 |
| | CMH-08-287 | 3889 | 4958 | 1582 | 81.3 | 80.6 | 186.0 | 102.9 | 31.4 | 19.8 |
| | CMH-08-292 | 4368 | 5583 | 1752 | 79.9 | 79.9 | 193.7 | 140.8 | 35.2 | 20.4 |
| Location mean | | 6110.2 | 7729.8 | 2446.2 | 81.5 | 82.9 | 194.4 | 163.2 | 48.9 | 28.6 |
| C.D.(5%) AiBj-AiBk | | 84.5 | 568.7 | 86.5 | 3.1 | 3.9 | 2.4 | 21.9 | 0.8 | 0.9 |
| C.D.(5%) AiBk-AjBk | | 100.9 | 576.8 | 85.2 | 3.0 | 3.7 | 2.4 | 24.2 | 0.9 | 1.1 |
| F(5%) | | s | s | s | n.s. | n.s. | s | n.s. | s | s |

| | | | | | | | | | |
|-----------------|------|-------|------|------|------|-------|-------|------|------|
| 100% RDF | 7047 | 8883 | 2839 | 82.1 | 84.2 | 204.4 | 186.4 | 56.5 | 32.7 |
| SSNM | 6975 | 8874 | 2767 | 81.5 | 83.3 | 201.5 | 184.1 | 55.8 | 31.9 |
| 50% RDF | 4308 | 5432 | 1733 | 81.0 | 81.1 | 177.3 | 119.0 | 34.5 | 21.1 |
| C.D.(5%) Ai-Aj | 68.4 | 280.0 | 36.6 | 1.2 | 1.3 | 1.2 | 16.0 | 0.6 | 0.7 |
| C.V.(%) Error A | 1.1 | 3.6 | 1.5 | 1.5 | 1.6 | 0.6 | 5.1 | 1.3 | 2.4 |
| F(5%) | s | s | s | n.s. | s | s | s | s | s |

| | | | | | | | | | |
|---------------|------|-------|------|------|------|-------|-------|------|------|
| PMH-1 | 5880 | 7394 | 2293 | 81.9 | 83.3 | 195.2 | 155.5 | 47.0 | 29.3 |
| PMH-3 | 6942 | 8639 | 2799 | 81.9 | 86.8 | 184.6 | 182.1 | 55.3 | 30.8 |
| CMH-08-350 | 5711 | 7183 | 2310 | 81.0 | 82.2 | 187.2 | 151.6 | 45.8 | 27.8 |
| CMH-08-287 | 6056 | 7736 | 2442 | 81.7 | 80.8 | 201.8 | 160.1 | 48.7 | 27.7 |
| CMH-08-292 | 5963 | 7697 | 2387 | 81.0 | 81.3 | 203.1 | 166.5 | 47.7 | 27.3 |
| C.D.(5%)Bi-Bj | 48.8 | 328.3 | 49.9 | 1.8 | 2.2 | 1.4 | 12.6 | 0.4 | 0.5 |
| C.V.(%)ErrorB | 0.8 | 4.4 | 2.1 | 2.2 | 2.8 | 0.7 | 6.1 | 0.9 | 1.9 |
| F(5%) | s | s | s | n.s. | s | s | s | s | s |

Treatment details:**Main plots: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 100% RDF (150:75:60)
 F2 SSNM*
 F3 50% RDF (75:37.5:30)

Sub plots: Maize hybrids(Target yield: N:P₂O₅:K₂O kg/ha)

- H1 PMH-1 *(8 t/ha:140:47:56)
 H2 PMH-3 *(8 t/ha:140:47:56)
 H3 CMH-08-350 *(7 t/ha:140:44:51)
 H4 CMH-08-287 *(8 t/ha:140:47:56)
 H5 CMH-08-292 *(7 t/ha:140:44:51)

*SSNM for different hybrids

Table 37: Nutrient requirement of maize hybrids under maize-wheat cropping system at Ranchi.

| Hybrids | Fertility level | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|--------------------|-----------------|---------------------|----------------------|------------------|----------------|-------------------|
| PMH-1 | 100 % RDF | 6223 | 9898 | 63.9 | 63.3 | 247.8 |
| | SSNM | 7079 | 11924 | 62.5 | 62.5 | 261.0 |
| | 50% RDF | 4063 | 7688 | 70.3 | 66.7 | 252.4 |
| PMH-3 | 100 % RDF | 6869 | 11497 | 67.5 | 66.4 | 259.9 |
| | SSNM | 7637 | 12888 | 65.6 | 65.0 | 261.4 |
| | 50% RDF | 4055 | 7573 | 67.8 | 65.6 | 249.0 |
| CMH-08-350 | 100 % RDF | 7649 | 13012 | 67.8 | 66.7 | 263.6 |
| | SSNM | 8805 | 15263 | 68.1 | 67.8 | 267.2 |
| | 50% RDF | 4658 | 8921 | 65.8 | 63.9 | 258.9 |
| CMH-08-287 | 100 % RDF | 6572 | 12070 | 67.8 | 66.1 | 283.4 |
| | SSNM | 7420 | 13959 | 65.3 | 65.0 | 290.6 |
| | 50% RDF | 3691 | 7273 | 66.4 | 64.2 | 260.8 |
| CMH-08-292 | 100 % RDF | 7104 | 12739 | 64.2 | 62.8 | 277.6 |
| | SSNM | 8454 | 14819 | 67.5 | 66.9 | 270.4 |
| | 50% RDF | 4597 | 9130 | 66.7 | 64.4 | 266.9 |
| Location mean | | 6325.1 | 11243.8 | 66.5 | 65.1 | 264.7 |
| C.D.(5%) AiBj-AiBk | | 1120.7 | 1928.3 | 7.2 | 7.4 | 24.4 |
| C.D.(5%) AiBk-AjBk | | 1090.9 | 1905.7 | 8.7 | 8.9 | 24.4 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------------|-------|--------|------|------|-------|
| PMH-1 | 5788 | 9837 | 65.6 | 64.2 | 253.7 |
| PMH-3 | 6187 | 10653 | 66.9 | 65.6 | 256.8 |
| CMH-08-350 | 7038 | 12399 | 67.2 | 66.1 | 263.2 |
| CMH-08-287 | 5894 | 11101 | 66.5 | 65.1 | 278.3 |
| CMH-08-292 | 6719 | 12230 | 66.1 | 64.7 | 271.6 |
| C.D.(5%) Ai-Aj | 595.9 | 1077.3 | 6.4 | 6.5 | 14.2 |
| C.V.(%) Error A | 8.7 | 8.8 | 8.9 | 9.2 | 4.9 |
| F(5%) | s | s | n.s. | n.s. | s |

| | | | | | |
|---------------|-------|-------|------|------|-------|
| 100 % RDF | 6884 | 11843 | 66.2 | 65.1 | 266.4 |
| SSNM | 7879 | 13771 | 65.8 | 65.4 | 270.1 |
| 50% RDF | 4213 | 8117 | 67.4 | 64.9 | 257.6 |
| C.D.(5%)Bi-Bj | 501.2 | 862.3 | 3.2 | 3.3 | 10.9 |
| C.V.(%)ErrorB | 10.4 | 10.1 | 6.4 | 6.7 | 5.4 |
| F(5%) | s | s | n.s. | n.s. | n.s. |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 100 % RDF (150:60:40)

F2 SSNM (170:67:86)

F3 50% RDF (75:30:20)

Sub plot: Maize hybrids

H1 PMH-1

H2 PMH-3

H3 CMH-08-350

H4 CMH-08-287

H5 CMH-08-292

Cont...

| Hybrids | Fertility level | Net return (Rs/ha) | B:C ratio | N uptake (kg/ha) | P uptake (kg/ha) | K uptake (kg/ha) |
|--------------------|-----------------|--------------------|-----------|------------------|------------------|------------------|
| PMH-1 | 100 % RDF | 48061 | 2.0 | 152.3 | 27.0 | 144.6 |
| | SSNM | 55867 | 2.1 | 178.3 | 30.8 | 173.9 |
| | 50% RDF | 28090 | 1.4 | 104.1 | 18.0 | 106.3 |
| PMH-3 | 100 % RDF | 56069 | 2.4 | 168.0 | 29.5 | 161.6 |
| | SSNM | 62471 | 2.4 | 188.6 | 32.3 | 183.0 |
| | 50% RDF | 27565 | 1.4 | 101.3 | 17.5 | 102.5 |
| CMH-08-350 | 100 % RDF | 65657 | 2.8 | 183.6 | 32.3 | 178.1 |
| | SSNM | 75909 | 2.9 | 214.8 | 36.7 | 210.6 |
| | 50% RDF | 34036 | 1.7 | 115.2 | 19.8 | 117.3 |
| CMH-08-287 | 100 % RDF | 52653 | 2.2 | 168.5 | 29.5 | 167.9 |
| | SSNM | 60010 | 2.3 | 194.2 | 33.0 | 195.4 |
| | 50% RDF | 23634 | 1.2 | 95.7 | 16.4 | 98.3 |
| CMH-08-292 | 100 % RDF | 59180 | 2.5 | 176.9 | 31.0 | 174.8 |
| | SSNM | 71859 | 2.8 | 210.5 | 36.0 | 206.9 |
| | 50% RDF | 33800 | 1.7 | 117.2 | 20.1 | 121.0 |
| Location mean | | 50324.0 | 2.1 | 157.9 | 27.3 | 156.2 |
| C.D.(5%) AiBj-AiBk | | 12476.4 | 0.6 | 25.3 | 4.4 | 25.5 |
| C.D.(5%) AiBk-AjBk | | 12103.5 | 0.5 | 25.7 | 4.3 | 26.2 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|-----------------|--------|------|-------|------|-------|
| PMH-1 | 44006 | 1.9 | 144.9 | 25.3 | 141.6 |
| PMH-3 | 48702 | 2.1 | 152.6 | 26.4 | 149.1 |
| CMH-08-350 | 58534 | 2.5 | 171.2 | 29.6 | 168.7 |
| CMH-08-287 | 45432 | 1.9 | 152.8 | 26.3 | 153.9 |
| CMH-08-292 | 54947 | 2.3 | 168.2 | 29.0 | 167.5 |
| C.D.(5%) Ai-Aj | 6558.5 | 0.3 | 15.3 | 2.4 | 15.9 |
| C.V.(%) Error A | 12.0 | 12.0 | 8.9 | 8.2 | 9.4 |
| F(5%) | s | s | s | s | s |

| | | | | | |
|---------------|--------|------|-------|------|-------|
| 100 % RDF | 56324 | 2.4 | 169.8 | 29.9 | 165.4 |
| SSNM | 65223 | 2.5 | 197.3 | 33.8 | 194.0 |
| 50% RDF | 29425 | 1.5 | 106.7 | 18.4 | 109.1 |
| C.D.(5%)Bi-Bj | 5579.6 | 0.2 | 11.3 | 2.0 | 11.4 |
| C.V.(%)ErrorB | 14.6 | 15.4 | 9.4 | 9.5 | 9.6 |
| F(5%) | s | s | s | s | s |

Table 38: Nutrient requirement of different maize hybrids at Arbhavi.

| Fertility levels | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|--------------------|------------|---------------------|-------------------|----------------------|------------------|----------------|-------------------|---------------------|
| 50% RDF | PMH-1 | 5918 | 11164 | 10987 | 54.4 | 54.2 | 200.0 | 65.0 |
| | PMH-3 | 5974 | 11004 | 10880 | 56.7 | 56.5 | 198.3 | 65.3 |
| | HQPM-1 | 4364 | 7609 | 10311 | 46.6 | 45.9 | 172.7 | 65.7 |
| | CMH-08-287 | 7297 | 12089 | 11324 | 53.2 | 53.3 | 202.3 | 65.3 |
| | CMH-08-292 | 5255 | 9956 | 11218 | 42.1 | 42.3 | 203.7 | 65.0 |
| SSNM** | PMH-1 | 7635 | 12391 | 11680 | 57.2 | 56.2 | 204.3 | 65.0 |
| | PMH-3 | 7328 | 11484 | 11609 | 56.4 | 56.0 | 197.7 | 65.3 |
| | HQPM-1 | 5743 | 9209 | 11947 | 55.3 | 55.5 | 176.0 | 65.3 |
| | CMH-08-287 | 8216 | 13547 | 12604 | 52.1 | 53.3 | 208.7 | 65.3 |
| | CMH-08-292 | 6066 | 9778 | 10098 | 42.7 | 42.1 | 208.0 | 64.3 |
| 100% RDF | PMH-1 | 6855 | 9440 | 10827 | 53.7 | 53.7 | 197.7 | 65.3 |
| | PMH-3 | 7119 | 9493 | 10809 | 54.4 | 54.6 | 192.7 | 65.3 |
| | HQPM-1 | 4647 | 7253 | 10382 | 48.0 | 47.3 | 168.0 | 66.0 |
| | CMH-08-287 | 7438 | 11947 | 11289 | 48.9 | 50.1 | 204.0 | 65.3 |
| | CMH-08-292 | 6095 | 8391 | 10524 | 42.3 | 40.4 | 200.7 | 65.3 |
| Location mean | | 6396.6 | 10317.0 | 11099.3 | 50.9 | 50.8 | 195.6 | 65.3 |
| C.D.(5%) AiBj-AiBk | | 588.4 | 897.4 | 1099.8 | 4.3 | 6.5 | 11.3 | 0.9 |
| C.D.(5%) AiBk-AjBk | | 862.0 | 1301.7 | 1149.9 | 6.1 | 7.3 | 14.4 | 0.9 |
| F(5%) | | n.s. | s | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|-----------------|-------|--------|-------|------|------|-------|------|
| 50% RDF | 5761 | 10364 | 10944 | 50.6 | 50.5 | 195.4 | 65.3 |
| SSNM** | 6998 | 11282 | 11588 | 52.7 | 52.6 | 198.9 | 65.1 |
| 100% RDF | 6431 | 9305 | 10766 | 49.5 | 49.2 | 192.6 | 65.5 |
| C.D.(5%) Ai-Aj | 694.5 | 1042.7 | 612.3 | 4.8 | 4.5 | 10.4 | 0.4 |
| C.V.(%) Error A | 10.7 | 10.0 | 5.4 | 9.4 | 8.7 | 5.2 | 0.6 |
| F(5%) | s | s | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|---------------|-------|-------|-------|------|------|-------|------|
| PMH-1 | 6803 | 10999 | 11164 | 55.1 | 54.7 | 200.7 | 65.1 |
| PMH-3 | 6807 | 10661 | 11099 | 55.8 | 55.7 | 196.2 | 65.3 |
| HQPM-1 | 4918 | 8024 | 10880 | 50.0 | 49.5 | 172.2 | 65.7 |
| CMH-08-287 | 7650 | 12527 | 11739 | 51.4 | 52.3 | 205.0 | 65.3 |
| CMH-08-292 | 5805 | 9375 | 10613 | 42.4 | 41.6 | 204.1 | 64.9 |
| C.D.(5%)Bi-Bj | 339.7 | 518.1 | 635.0 | 2.5 | 3.8 | 6.5 | 0.5 |
| C.V.(%)ErrorB | 5.5 | 5.2 | 5.9 | 5.0 | 7.7 | 3.4 | 0.8 |
| F(5%) | s | s | s | s | s | s | n.s. |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 50% RDF (75:37.5:18.75)

F2 SSNM *

F3 100% RDF (150:75:37.5)

Sub-plot: Maize hybrids

G1 PMH-1 *(150:64:113)

G2 PMH-3 *(140:61:105)

G3 HQPM-1 *(140:47:71)

G4 CMH-08-287 *(150:64:113)

G5 CMH-08-292 *(150:64:113)

*SSNM for different hybrids (N:P₂O₅:K₂O kg/ha)

Table 39: Nutrient requirement of maize hybrids under rice-maize cropping system at Hyderabad.

| Fertility levels | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Straw yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|--------------------|------------|---------------------|-------------------|---------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| 100% RDF | DHM 117 | 7092 | 6283 | 6997 | 65.7 | 60.9 | 223.0 | 56.3 | 58.3 |
| | PMH 1 | 7711 | 6212 | 7497 | 64.7 | 63.1 | 212.7 | 56.7 | 58.7 |
| | PMH 3 | 6688 | 5998 | 7235 | 64.0 | 62.6 | 230.3 | 57.7 | 59.7 |
| | HQPM 1 | 5974 | 5379 | 6450 | 60.7 | 59.3 | 197.7 | 60.0 | 62.0 |
| | CMH-08-292 | 7069 | 5284 | 6950 | 59.3 | 59.0 | 209.3 | 58.0 | 60.0 |
| 50% RDF | DHM 117 | 4736 | 4284 | 4784 | 64.0 | 51.4 | 174.7 | 61.3 | 63.3 |
| | PMH 1 | 5331 | 4355 | 5403 | 64.5 | 52.1 | 177.0 | 61.0 | 63.0 |
| | PMH 3 | 4498 | 4213 | 5236 | 63.1 | 51.6 | 182.0 | 62.7 | 64.7 |
| | HQPM 1 | 4046 | 4546 | 4070 | 60.2 | 48.6 | 162.3 | 62.3 | 64.3 |
| | CMH-08-292 | 4927 | 4498 | 4950 | 60.0 | 49.7 | 177.0 | 62.0 | 64.0 |
| SSNM** | DHM 117 | 6664 | 5760 | 6783 | 63.8 | 58.5 | 199.7 | 58.0 | 60.0 |
| | PMH 1 | 7161 | 5760 | 7211 | 63.3 | 60.5 | 199.7 | 58.3 | 60.3 |
| | PMH 3 | 6688 | 5855 | 7188 | 63.8 | 59.0 | 217.7 | 60.0 | 62.0 |
| | HQPM 1 | 5593 | 5236 | 6069 | 63.1 | 57.1 | 191.0 | 60.3 | 62.3 |
| | CMH-08-292 | 6950 | 4260 | 6497 | 61.9 | 57.8 | 199.0 | 59.0 | 61.0 |
| Location mean | | 6075.2 | 5194.7 | 6221.3 | 62.8 | 56.8 | 196.9 | 59.6 | 61.6 |
| C.D.(5%) AiBj-AiBk | | 860.7 | 753.8 | 663.8 | 2.1 | 2.2 | 9.6 | 1.1 | 1.1 |
| C.D.(5%) AiBk-AjBk | | 898.4 | 935.0 | 717.0 | 3.3 | 3.4 | 11.3 | 1.0 | 1.0 |
| F(5%) | | n.s. | s | n.s. | s | n.s. | n.s. | s | s |

| | | | | | | | | |
|-----------------|-------|-------|-------|------|------|-------|------|------|
| 100% RDF | 6907 | 5831 | 7026 | 62.9 | 61.0 | 214.6 | 57.7 | 59.7 |
| 50% RDF | 4708 | 4379 | 4889 | 62.4 | 50.7 | 174.6 | 61.9 | 63.9 |
| SSNM** | 6611 | 5374 | 6750 | 63.2 | 58.6 | 201.4 | 59.1 | 61.1 |
| C.D.(5%) Ai-Aj | 476.2 | 662.1 | 412.8 | 2.8 | 2.8 | 7.6 | 0.3 | 0.3 |
| C.V.(%) Error A | 7.7 | 12.6 | 6.5 | 4.4 | 4.9 | 3.8 | 0.5 | 0.5 |
| F(5%) | s | s | s | n.s. | s | s | s | s |

| | | | | | | | | |
|---------------|-------|-------|-------|------|------|-------|------|------|
| DHM 117 | 6164 | 5442 | 6188 | 64.5 | 57.0 | 199.1 | 58.6 | 60.6 |
| PMH 1 | 6735 | 5442 | 6704 | 64.2 | 58.5 | 196.4 | 58.7 | 60.7 |
| PMH 3 | 5958 | 5355 | 6553 | 63.6 | 57.8 | 210.0 | 60.1 | 62.1 |
| HQPM 1 | 5204 | 5054 | 5530 | 61.3 | 55.0 | 183.7 | 60.9 | 62.9 |
| CMH-08-292 | 6315 | 4681 | 6132 | 60.4 | 55.5 | 195.1 | 59.7 | 61.7 |
| C.D.(5%)Bi-Bj | 496.9 | 435.2 | 383.2 | 1.2 | 1.3 | 5.5 | 0.6 | 0.6 |
| C.V.(%)ErrorB | 8.4 | 8.6 | 6.3 | 2.0 | 2.3 | 2.9 | 1.0 | 1.0 |
| F(5%) | s | s | s | s | s | s | s | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 100% RDF

F2 50% RDF

F3 SSNM*

Sub plot: Maize hybrids

H1 DHM 117 *(150:69:98)

H2 PMH 1 *(140:47:56)

H3 PMH 3 *(140:61:90)

H4 HQPM 1 *(140:47:56)

H5 CMH-08-292 *(140:61:90)

* SSNM for different hybrids (N:P₂O₅:K₂O kg/ha)

Table 40: Nutrient requirement of different maize hybrids at Karimnagar.

| Fertility levels | Maize hybrids | Grain yield (Kg/ha) | Cob yield (Kg/ha) | Plant height (cm) | Cob length (cm) | Cob girth (cm) | Kernel rows | Kernels / row | 1000 Grain weight (g) |
|--------------------|---------------|---------------------|-------------------|-------------------|-----------------|----------------|-------------|---------------|-----------------------|
| Farmers practices | DHM-117 | 7932 | 9368 | 192.3 | 19.3 | 16.7 | 14.4 | 39.3 | 358.0 |
| | HQPM-1 | 7532 | 9117 | 195.7 | 19.2 | 16.3 | 14.4 | 44.1 | 317.3 |
| | CMH-08-292 | 8676 | 10326 | 214.0 | 21.4 | 15.7 | 14.4 | 39.3 | 396.0 |
| | PMH-3 | 8884 | 10825 | 231.7 | 22.1 | 16.6 | 14.3 | 42.9 | 347.3 |
| | PMH-1 | 9423 | 11304 | 233.0 | 19.9 | 16.5 | 14.0 | 37.8 | 365.3 |
| SSNM | DHM-117 | 8099 | 9932 | 195.3 | 17.5 | 16.9 | 14.7 | 35.2 | 354.0 |
| | HQPM-1 | 7616 | 8987 | 198.3 | 19.6 | 15.7 | 14.8 | 40.0 | 332.0 |
| | CMH-08-292 | 8975 | 10685 | 218.0 | 19.9 | 15.7 | 14.5 | 37.9 | 373.3 |
| | PMH-3 | 8996 | 10805 | 223.3 | 22.0 | 16.5 | 15.0 | 40.9 | 348.7 |
| | PMH-1 | 9526 | 11570 | 244.7 | 20.9 | 16.5 | 15.2 | 38.5 | 405.3 |
| 100% RDF | DHM-117 | 7733 | 9315 | 193.7 | 18.7 | 16.9 | 14.7 | 36.3 | 366.0 |
| | HQPM-1 | 7545 | 8976 | 200.3 | 19.5 | 16.0 | 14.9 | 40.7 | 352.7 |
| | CMH-08-292 | 8538 | 10071 | 220.0 | 19.9 | 16.0 | 14.0 | 35.3 | 380.0 |
| | PMH-3 | 8436 | 10026 | 228.0 | 19.3 | 15.9 | 15.1 | 39.8 | 325.3 |
| | PMH-1 | 9096 | 10972 | 237.0 | 20.5 | 16.2 | 15.0 | 39.3 | 392.7 |
| Location mean | | 8467.1 | 10152.0 | 215.0 | 20.0 | 16.3 | 14.6 | 39.1 | 360.9 |
| C.D.(5%) AiBj-AiBk | | 1034.2 | 1584.3 | 11.5 | 1.9 | 0.9 | 0.9 | 4.7 | 42.3 |
| C.D.(5%) AiBk-AjBk | | 1151.5 | 1701.8 | 14.2 | 2.4 | 1.0 | 1.7 | 5.4 | 43.0 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Farmers practices | | 8489 | 10188 | 213.3 | 20.4 | 16.4 | 14.3 | 40.7 | 356.8 |
| SSNM | | 8642 | 10396 | 215.9 | 20.0 | 16.2 | 14.8 | 38.5 | 362.7 |
| 100% RDF | | 8270 | 9872 | 215.8 | 19.6 | 16.2 | 14.7 | 38.3 | 363.3 |
| C.D.(5%) Ai-Aj | | 703.6 | 968.1 | 9.9 | 1.7 | 0.6 | 1.5 | 3.4 | 21.1 |
| C.V.(%) Error A | | 8.2 | 9.4 | 4.6 | 8.4 | 3.8 | 10.0 | 8.7 | 5.8 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| DHM-117 | | 7921 | 9538 | 193.8 | 18.5 | 16.8 | 14.6 | 36.9 | 359.3 |
| HQPM-1 | | 7564 | 9027 | 198.1 | 19.4 | 16.0 | 14.7 | 41.6 | 334.0 |
| CMH-08-292 | | 8730 | 10361 | 217.3 | 20.4 | 15.8 | 14.3 | 37.5 | 383.1 |
| PMH-3 | | 8772 | 10552 | 227.7 | 21.1 | 16.3 | 14.8 | 41.2 | 340.4 |
| PMH-1 | | 9348 | 11282 | 238.2 | 20.4 | 16.4 | 14.7 | 38.5 | 387.8 |
| C.D.(5%)Bi-Bj | | 597.1 | 914.7 | 6.7 | 1.1 | 0.5 | 0.5 | 2.7 | 24.4 |
| C.V.(%)ErrorB | | 7.2 | 9.3 | 3.2 | 5.5 | 3.2 | 3.5 | 7.2 | 7.0 |
| F(5%) | | s | s | s | s | s | n.s. | s | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 Farmers practices (218:115:38)
 F2 SSNM*
 F3 100% RDF (200:60:50)

Sub plot: Maize hybrids

- H1 DHM 117 *(190:64:143)
 H2 HQPM 1 *(170:67:86)
 H3 CMH-08-292 *(190:84:143)
 H4 PMH 3 *(190:64:143)
 H5 PMH 1 *(190:64:143)

*SSNM for different hybrids (N:P₂O₅:K₂O kg/ha)

Table 41: Nutrient requirement of maize hybrids under maize-mustard cropping system at Ambikapur.

| Fertility level | Hybrids | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|----------------------|------------|---------------------|----------------------|------------------|----------------|-------------------|---------------------|
| 100% RDF | PMH 1 | 6508 | 8720 | 60.7 | 63.4 | 274.7 | 53.7 |
| | PMH 3 | 6642 | 8901 | 62.2 | 64.0 | 263.8 | 53.7 |
| | HQPM 1 | 5236 | 7016 | 61.6 | 70.5 | 238.7 | 53.7 |
| | CMH-08-350 | 5311 | 7116 | 62.9 | 68.0 | 258.1 | 54.3 |
| | CMH-08-293 | 5775 | 7738 | 63.3 | 68.5 | 271.6 | 54.7 |
| SSNM | PMH 1 | 7260 | 9946 | 62.4 | 61.9 | 277.9 | 54.3 |
| | PMH 3 | 7964 | 10911 | 62.2 | 59.4 | 287.1 | 54.0 |
| | HQPM 1 | 5339 | 7314 | 63.6 | 70.0 | 250.5 | 55.3 |
| | CMH-08-350 | 5823 | 7977 | 62.7 | 66.8 | 268.4 | 55.7 |
| | CMH-08-293 | 5911 | 8098 | 63.3 | 69.8 | 283.3 | 54.7 |
| 50% RDF | PMH 1 | 4434 | 5764 | 62.4 | 63.3 | 203.9 | 52.3 |
| | PMH 3 | 4713 | 6126 | 61.8 | 63.4 | 197.4 | 52.7 |
| | HQPM 1 | 3433 | 4463 | 62.7 | 67.8 | 173.7 | 52.3 |
| | CMH-08-350 | 3522 | 4579 | 62.9 | 66.1 | 201.5 | 52.0 |
| | CMH-08-293 | 3877 | 5040 | 64.0 | 65.8 | 182.2 | 52.3 |
| Location mean | | 5449.7 | 7313.9 | 62.6 | 65.9 | 242.2 | 53.7 |
| C.D.(5%) AiBj-AiBk | | 1004.7 | 1358.2 | 4.0 | 9.4 | 20.0 | 1.6 |
| C.D.(5%) AiBk-AjBk | | 1204.0 | 1601.7 | 4.3 | 10.3 | 20.2 | 1.6 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| 100% RDF (150:60:40) | | 5894 | 7898 | 62.1 | 66.9 | 261.4 | 54.0 |
| SSNM (167:70:86) | | 6459 | 8849 | 62.8 | 65.6 | 273.4 | 54.8 |
| 50% RDF | | 3996 | 5194 | 62.8 | 65.3 | 191.7 | 52.3 |
| C.D.(5%) Ai-Aj | | 820.0 | 1068.8 | 2.6 | 6.1 | 9.7 | 0.8 |
| C.V.(%) Error A | | 14.8 | 14.4 | 4.0 | 9.2 | 3.9 | 1.5 |
| F(5%) | | s | s | n.s. | n.s. | s | s |
| PMH 1 | | 6067 | 8144 | 61.9 | 62.9 | 252.2 | 53.4 |
| PMH 3 | | 6440 | 8646 | 62.1 | 62.3 | 249.4 | 53.4 |
| HQPM 1 | | 4669 | 6265 | 62.6 | 69.4 | 221.0 | 53.8 |
| CMH-08-350 | | 4885 | 6557 | 62.8 | 67.0 | 242.6 | 54.0 |
| CMH-08-293 | | 5187 | 6958 | 63.6 | 68.1 | 245.7 | 53.9 |
| C.D.(5%)Bi-Bj | | 580.1 | 784.2 | 2.3 | 5.4 | 11.5 | 0.9 |
| C.V.(%)ErrorB | | 10.9 | 11.0 | 3.8 | 8.4 | 4.9 | 1.8 |
| F(5%) | | s | s | n.s. | s | s | n.s. |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 100% RDF (150:60:40)

F2 SSNM (167:70:86)

F3 50% RDF (75:30:20)

Sub plot: Maize hybrids

H1 PMH 1

H2 PMH 3

H3 HQPM 1

H4 CMH-08-350

H5 CMH-08-293

Cont....

| Fertility level | Hybrids | Net return (Rs/ha) | B:C ratio |
|--------------------|------------|--------------------|-----------|
| 100% RDF | PMH 1 | 51039 | 2.1 |
| | PMH 3 | 52431 | 2.1 |
| | HQPM 1 | 36226 | 1.5 |
| | CMH-08-350 | 37189 | 1.5 |
| | CMH-08-293 | 42308 | 1.7 |
| SSNM | PMH 1 | 59025 | 2.3 |
| | PMH 3 | 66524 | 2.6 |
| | HQPM 1 | 36208 | 1.4 |
| | CMH-08-350 | 41753 | 1.6 |
| | CMH-08-293 | 42991 | 1.7 |
| 50% RDF | PMH 1 | 30171 | 1.4 |
| | PMH 3 | 33169 | 1.6 |
| | HQPM 1 | 18450 | 0.9 |
| | CMH-08-350 | 19473 | 0.9 |
| | CMH-08-293 | 23477 | 1.1 |
| Location mean | | 39362.3 | 1.6 |
| C.D.(5%) AiBj-AiBk | | 11657.2 | 0.5 |
| C.D.(5%) AiBk-AjBk | | 13927.7 | 0.6 |
| F(5%) | | n.s. | n.s. |

| | | |
|----------------------|--------|------|
| 100% RDF (150:60:40) | 43839 | 1.8 |
| SSNM (167:70:86) | 49300 | 1.9 |
| 50% RDF | 24948 | 1.2 |
| C.D.(5%) Ai-Aj | 9450.4 | 0.4 |
| C.V.(%) Error A | 23.7 | 26.6 |
| F(5%) | s | s |

| | | |
|---------------|--------|------|
| PMH 1 | 46745 | 1.9 |
| PMH 3 | 50708 | 2.1 |
| HQPM 1 | 30295 | 1.3 |
| CMH-08-350 | 32805 | 1.4 |
| CMH-08-293 | 36258 | 1.5 |
| C.D.(5%)Bi-Bj | 6730.3 | 0.3 |
| C.V.(%)ErrorB | 17.6 | 17.2 |
| F(5%) | s | s |

Table 42: Nutrient requirement of maize hybrids under maize-wheat cropping system at Banswara.

| Fertility level | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|----------------------|------------|---------------------|-------------------|------------------|----------------|-------------------|
| 100% RDF | PMH 1 | 5111 | 6022 | 63.3 | 59.1 | 236.7 |
| | PMH 3 | 4111 | 4844 | 63.3 | 55.1 | 223.7 |
| | HQPM 1 | 4000 | 4733 | 63.6 | 53.1 | 167.3 |
| | CMH-08-350 | 6000 | 7111 | 65.3 | 65.8 | 243.7 |
| | CMH-08-292 | 5489 | 6489 | 62.9 | 65.6 | 180.0 |
| SSNM | PMH 1 | 5178 | 6200 | 65.8 | 66.2 | 225.7 |
| | PMH 3 | 4233 | 5089 | 63.3 | 58.4 | 213.0 |
| | HQPM 1 | 4093 | 5022 | 64.0 | 56.7 | 160.7 |
| | CMH-08-350 | 6213 | 7422 | 66.2 | 71.6 | 247.7 |
| | CMH-08-292 | 5533 | 6644 | 65.3 | 66.0 | 186.0 |
| 50% RDF | PMH 1 | 2578 | 3844 | 57.8 | 44.0 | 191.7 |
| | PMH 3 | 2178 | 3289 | 57.3 | 47.1 | 187.0 |
| | HQPM 1 | 2111 | 3222 | 56.7 | 44.4 | 151.7 |
| | CMH-08-350 | 3311 | 4778 | 60.7 | 46.7 | 209.0 |
| | CMH-08-292 | 2878 | 4333 | 60.7 | 46.0 | 170.7 |
| Location mean | | 4201.2 | 5269.6 | 62.4 | 56.4 | 199.6 |
| C.D.(5%) AiBj-AiBk | | 1275.2 | 1582.2 | 5.8 | 12.3 | 6.8 |
| C.D.(5%) AiBk-AjBk | | 1173.4 | 1437.4 | 5.4 | 11.3 | 8.6 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | s |
| 100% RDF (120:60:40) | | 4942 | 5840 | 63.7 | 59.7 | 210.3 |
| SSNM | | 5050 | 6076 | 64.9 | 63.8 | 206.6 |
| 50% RDF (60:30:20) | | 2611 | 3893 | 58.6 | 45.6 | 182.0 |
| C.D.(5%) Ai-Aj | | 285.2 | 260.5 | 1.6 | 2.8 | 6.2 |
| C.V.(%) Error A | | 6.7 | 4.9 | 2.5 | 4.8 | 3.1 |
| F(5%) | | s | s | s | s | s |
| PMH 1 | | 4289 | 5356 | 62.3 | 56.4 | 218.0 |
| PMH 3 | | 3508 | 4407 | 61.3 | 53.6 | 207.9 |
| HQPM 1 | | 3401 | 4326 | 61.4 | 51.4 | 159.9 |
| CMH-08-350 | | 5175 | 6437 | 64.1 | 61.3 | 233.4 |
| CMH-08-292 | | 4633 | 5822 | 63.0 | 59.2 | 178.9 |
| C.D.(5%)Bi-Bj | | 736.2 | 913.5 | 3.3 | 7.1 | 3.9 |
| C.V.(%)ErrorB | | 18.0 | 17.8 | 5.5 | 13.0 | 2.0 |
| F(5%) | | s | s | n.s. | n.s. | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 100% RDF (120:60:40)
 F2 SSNM*
 F3 50% RDF (60:30:20)

Sub plot: Maize hybrids

- H1 PMH 1 *(6 t/ha: 140:40:46)
 H2 PMH 3 *(6 t/ha: 140:40:46)
 H3 HQPM 1 *(5 t/ha: 130:37:41)
 H4 CMH-08-350 *(7 t/ha: 160:44:51)
 H5 CMH-08-292 *(7 t/ha: 160:44:51)

*SSNM for different hybrids (N:P₂O₅:K₂O kg/ha)

Table 43: Nutrient requirement of maize hybrids under maize-mustard cropping system at Chhindwara.

| Fertility level | Hybrids | Grain yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|------------------|------------|---------------------|------------------|----------------|-------------------|---------------------|
| 50% RDF | PMH-1 | 3700 | 70.4 | 65.6 | 158.7 | 68.0 |
| | PMH-3 | 4467 | 69.3 | 65.9 | 157.0 | 70.3 |
| | HQPM-1 | 3578 | 69.3 | 68.5 | 157.7 | 65.0 |
| | CMH-08-350 | 3022 | 60.0 | 63.3 | 155.3 | 67.7 |
| | CMH-08-292 | 3819 | 70.4 | 69.3 | 170.3 | 71.7 |
| 100% RDF | PMH-1 | 4996 | 70.7 | 70.4 | 169.3 | 66.0 |
| | PMH-3 | 5800 | 71.1 | 68.9 | 163.0 | 68.3 |
| | HQPM-1 | 3796 | 73.0 | 70.7 | 159.7 | 67.7 |
| | CMH-08-350 | 3648 | 61.1 | 64.4 | 163.0 | 67.3 |
| | CMH-08-292 | 4856 | 71.5 | 71.5 | 173.7 | 70.7 |
| SSNM | PMH-1 | 6200 | 72.2 | 71.1 | 172.0 | 66.7 |
| | PMH-3 | 6052 | 74.4 | 70.0 | 166.0 | 68.7 |
| | HQPM-1 | 4889 | 74.1 | 71.9 | 169.0 | 67.0 |
| | CMH-08-350 | 4044 | 70.0 | 70.4 | 169.7 | 66.7 |
| | CMH-08-292 | 6063 | 73.7 | 73.0 | 175.3 | 69.3 |
| Mean of location | | 4595.3 | 70.1 | 69.0 | 165.3 | 68.1 |
| C.D. at 5 (%) | | 442.9 | 5.3 | 5.0 | 12.8 | 3.2 |
| F (5%) | | s | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------------|-------|------|------|-------|------|
| 50% RDF (60:30:20) | 3717 | 67.9 | 66.5 | 159.8 | 68.5 |
| 100% RDF (120:60:40) | 4619 | 69.5 | 69.2 | 165.7 | 68.0 |
| SSNM (140:34:71) | 5450 | 72.9 | 71.3 | 170.4 | 67.7 |
| C.D. at 5 (%) | 198.1 | 2.4 | 2.3 | 5.7 | 1.4 |
| F (5%) | s | s | s | s | n.s. |

| | | | | | |
|---------------|-------|------|------|-------|------|
| PMH-1 | 4965 | 71.1 | 69.0 | 166.7 | 66.9 |
| PMH-3 | 5440 | 71.6 | 68.3 | 162.0 | 69.1 |
| HQPM-1 | 4088 | 72.1 | 70.4 | 162.1 | 66.6 |
| CMH-08-350 | 3572 | 63.7 | 66.0 | 162.7 | 67.2 |
| CMH-08-292 | 4912 | 71.9 | 71.2 | 173.1 | 70.6 |
| C.D. at 5 (%) | 255.7 | 3.0 | 2.9 | 7.4 | 1.9 |
| C.V. (%) | 5.8 | 4.5 | 4.4 | 4.6 | 2.8 |
| F (5%) | s | s | s | s | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 50% RDF (60:30:20)
 F2 100% RDF (120:60:40)
 F3 SSNM (140:34:71)

Sub plot: Maize hybrids

- H1 PMH-1
 H2 PMH-3
 H3 HQPM-1
 H4 CMH-08-350
 H5 CMH-08-292

Table 44: Nutrient requirement of maize hybrids under maize-wheat cropping system at Jhabua.

| Fertility level | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|--------------------|------------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| 50% RDF | PMH-1 | 3138 | 3931 | 66.1 | 63.8 | 156.2 | 56.3 | 59.3 |
| | PMH-3 | 4582 | 5526 | 66.9 | 64.3 | 168.4 | 56.7 | 59.3 |
| | HQPM-1 | 2632 | 3280 | 64.6 | 60.6 | 137.0 | 56.7 | 59.3 |
| | CMH-08-350 | 4720 | 5648 | 68.3 | 66.4 | 174.3 | 55.3 | 57.3 |
| | CMH-08-292 | 3405 | 4172 | 67.7 | 64.8 | 165.0 | 55.7 | 58.0 |
| SSNM | PMH-1 | 3865 | 4823 | 66.9 | 65.6 | 168.5 | 56.7 | 60.0 |
| | PMH-3 | 4947 | 5987 | 66.9 | 66.9 | 176.3 | 57.0 | 59.7 |
| | HQPM-1 | 3381 | 4143 | 65.1 | 61.9 | 144.5 | 57.0 | 60.0 |
| | CMH-08-350 | 5601 | 6759 | 68.5 | 67.7 | 184.6 | 56.0 | 57.7 |
| | CMH-08-292 | 4336 | 5238 | 67.7 | 66.4 | 173.6 | 56.3 | 58.7 |
| 100% RDF | PMH-1 | 3738 | 4606 | 66.4 | 64.8 | 167.4 | 56.7 | 59.7 |
| | PMH-3 | 4730 | 5643 | 67.2 | 66.4 | 175.0 | 56.7 | 59.3 |
| | HQPM-1 | 3286 | 4063 | 64.8 | 61.9 | 142.6 | 57.0 | 59.7 |
| | CMH-08-350 | 5169 | 6235 | 68.5 | 67.5 | 179.6 | 55.7 | 57.3 |
| | CMH-08-292 | 4000 | 4823 | 68.3 | 65.6 | 172.2 | 56.0 | 58.3 |
| Location mean | | 4101.9 | 4991.9 | 66.9 | 65.0 | 165.7 | 56.4 | 58.9 |
| C.D.(5%) AiBj-AiBk | | 309.1 | 368.5 | 3.7 | 3.6 | 8.8 | 1.2 | 0.9 |
| C.D.(5%) AiBk-AjBk | | 296.0 | 354.7 | 3.7 | 4.7 | 10.5 | 1.2 | 1.4 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | | | |
|----------------------|-------|-------|------|------|-------|------|------|
| 50% RDF (60:30:20) | 3695 | 4512 | 66.7 | 64.0 | 160.2 | 56.1 | 58.7 |
| SSNM (140:60:60) | 4426 | 5390 | 67.0 | 65.7 | 169.5 | 56.6 | 59.2 |
| 100% RDF (120:60:40) | 4185 | 5074 | 67.0 | 65.2 | 167.4 | 56.4 | 58.9 |
| C.D.(5%) Ai-Aj | 109.1 | 135.1 | 1.7 | 3.5 | 7.1 | 0.6 | 1.2 |
| C.V.(%) Error A | 2.6 | 2.7 | 2.4 | 5.2 | 4.2 | 1.1 | 2.0 |
| F(5%) | s | s | n.s. | n.s. | s | n.s. | n.s. |

| | | | | | | | |
|---------------|-------|-------|------|------|-------|------|------|
| PMH-1 | 3580 | 4453 | 66.5 | 64.7 | 164.0 | 56.6 | 59.7 |
| PMH-3 | 4753 | 5719 | 67.0 | 65.9 | 173.2 | 56.8 | 59.4 |
| HQPM-1 | 3100 | 3829 | 64.8 | 61.5 | 141.4 | 56.9 | 59.7 |
| CMH-08-350 | 5163 | 6214 | 68.4 | 67.2 | 179.5 | 55.7 | 57.4 |
| CMH-08-292 | 3914 | 4744 | 67.9 | 65.6 | 170.3 | 56.0 | 58.3 |
| C.D.(5%)Bi-Bj | 178.4 | 212.7 | 2.1 | 2.1 | 5.1 | 0.7 | 0.5 |
| C.V.(%)ErrorB | 4.5 | 4.4 | 3.3 | 3.3 | 3.2 | 1.2 | 0.9 |
| F(5%) | s | s | s | s | s | s | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 50% RDF (60:30:20)
 F2 SSNM (7t/ha: 140:60:60)
 F3 100% RDF (120:60:40)

Sub plot: Maize hybrids

- H1 PHM-1
 H2 PHM-3
 H3 HQPM-1
 H4 CMH-08-350
 H5 CMH-08-292

Table 45: Nutrient requirement of maize genotype under maize-wheat cropping system at Udaipur.

| Fertility level | Hybrids | Grain yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking | PFSR affected plants/plot |
|--------------------|------------|---------------------|------------------|----------------|-------------------|-----------------------|---------------------|---------------------------|
| 100% RDF | PHM-1 | 5327 | 56.7 | 52.9 | 250.6 | 51.3 | 56.0 | 6.0 |
| | PHM-3 | 6240 | 57.3 | 54.0 | 239.1 | 52.0 | 57.0 | 4.0 |
| | HQPM-1 | 5440 | 52.7 | 53.3 | 226.5 | 49.0 | 55.0 | 0.3 |
| | CMH-08-350 | 5627 | 44.0 | 46.7 | 248.6 | 50.0 | 56.0 | 0.3 |
| | CMH-08-292 | 5830 | 48.0 | 49.3 | 241.0 | 48.0 | 54.0 | 0.3 |
| SSNM | PHM-1 | 5743 | 57.3 | 54.0 | 256.6 | 50.0 | 55.0 | 8.7 |
| | PHM-3 | 6637 | 58.0 | 54.7 | 245.3 | 51.0 | 56.3 | 8.0 |
| | HQPM-1 | 5750 | 53.3 | 53.8 | 232.4 | 48.0 | 53.3 | 0.0 |
| | CMH-08-350 | 5923 | 45.3 | 47.1 | 254.1 | 49.0 | 55.0 | 0.3 |
| | CMH-08-292 | 6430 | 48.7 | 48.7 | 247.4 | 47.3 | 53.0 | 0.3 |
| 50% RDF | PHM-1 | 4550 | 55.1 | 49.3 | 240.7 | 52.0 | 57.0 | 1.0 |
| | PHM-3 | 5743 | 56.7 | 51.1 | 230.5 | 53.0 | 57.7 | 2.0 |
| | HQPM-1 | 5497 | 52.0 | 49.3 | 218.5 | 50.0 | 56.0 | 0.3 |
| | CMH-08-350 | 4747 | 43.1 | 43.1 | 238.5 | 51.0 | 57.0 | 0.3 |
| | CMH-08-292 | 5240 | 48.0 | 46.0 | 230.7 | 49.0 | 55.0 | 0.7 |
| Location mean | | 5648.2 | 51.7 | 50.2 | 240.0 | 50.0 | 55.6 | 2.2 |
| C.D.(5%) AiBj-AiBk | | 855.2 | 4.8 | 5.8 | 17.4 | 3.1 | 3.2 | 1.5 |
| C.D.(5%) AiBk-AjBk | | 811.9 | 4.7 | 5.5 | 16.3 | 3.0 | 3.4 | 1.7 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | s |
| 100% RDF | | 5693 | 51.7 | 51.2 | 241.2 | 50.1 | 55.6 | 2.2 |
| SSNM | | 6097 | 52.5 | 51.6 | 247.1 | 49.1 | 54.5 | 3.5 |
| 50% RDF | | 5155 | 51.0 | 47.8 | 231.8 | 51.0 | 56.5 | 0.9 |
| C.D.(5%) Ai-Aj | | 281.1 | 1.8 | 1.9 | 5.0 | 1.0 | 1.9 | 1.1 |
| C.V.(%) Error A | | 4.9 | 3.5 | 3.7 | 2.1 | 2.0 | 3.4 | 48.6 |
| F(5%) | | s | n.s. | s | s | s | n.s. | s |
| PHM-1 | | 5207 | 56.4 | 52.1 | 249.3 | 51.1 | 56.0 | 5.2 |
| PHM-3 | | 6207 | 57.3 | 53.3 | 238.3 | 52.0 | 57.0 | 4.7 |
| HQPM-1 | | 5562 | 52.7 | 52.1 | 225.8 | 49.0 | 54.8 | 0.2 |
| CMH-08-350 | | 5432 | 44.1 | 45.6 | 247.1 | 50.0 | 56.0 | 0.3 |
| CMH-08-292 | | 5833 | 48.2 | 48.0 | 239.7 | 48.1 | 54.0 | 0.4 |
| C.D.(5%)Bi-Bj | | 493.7 | 2.8 | 3.3 | 10.0 | 1.8 | 1.9 | 0.9 |
| C.V.(%)ErrorB | | 9.0 | 5.6 | 6.8 | 4.3 | 3.7 | 3.4 | 40.8 |
| F(5%) | | s | s | s | s | s | s | s |

Treatment details:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

F1 100% RDF(120:60:40)

F2 SSNM (134:52:00)

F3 50% RDF(60:30:20)

Sub plot: Maize hybrids (6t/ha)

H1 PHM-1

H2 PHM-3

H3 HQPM-1

H4 CMH-08-350

H5 CMH-08-292

Table 46: Nutrient requirement of maize hybrids under different cropping systems at Srinagar.

| Fertility levels | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|-----------------------------|----------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| 100% RDF | NK-6607 | 8622 | 10889 | 93.8 | 79.3 | 212.7 | 72.7 | 76.7 |
| | DHM-117 | 8378 | 10644 | 93.1 | 76.7 | 211.0 | 77.3 | 81.0 |
| | HQPM-1 | 7311 | 9644 | 95.1 | 79.6 | 215.3 | 75.3 | 80.0 |
| | Pinnacle | 7733 | 9756 | 93.8 | 80.9 | 211.0 | 81.0 | 83.7 |
| | Kawari | 6800 | 8600 | 96.0 | 80.0 | 216.0 | 75.0 | 78.0 |
| SSNM | NK-6607 | 8000 | 10244 | 93.6 | 78.4 | 212.7 | 75.3 | 79.0 |
| | DHM-117 | 8333 | 10533 | 93.3 | 77.8 | 212.3 | 75.7 | 79.3 |
| | HQPM-1 | 6733 | 8600 | 95.8 | 79.6 | 211.0 | 83.0 | 86.7 |
| | Pinnacle | 6978 | 8978 | 93.1 | 79.1 | 212.0 | 71.3 | 76.0 |
| | Kawari | 6156 | 7800 | 94.4 | 80.7 | 215.7 | 70.3 | 75.0 |
| Farmers fertilizer practice | NK-6607 | 4000 | 5178 | 95.1 | 76.2 | 210.3 | 72.0 | 75.3 |
| | DHM-117 | 4556 | 5844 | 94.4 | 80.2 | 213.7 | 74.7 | 78.7 |
| | HQPM-1 | 4067 | 5289 | 93.8 | 82.2 | 215.0 | 64.3 | 67.7 |
| | Pinnacle | 4289 | 5556 | 94.7 | 79.6 | 209.3 | 66.0 | 69.0 |
| | Kawari | 3333 | 4622 | 94.4 | 80.4 | 214.7 | 72.0 | 75.7 |
| Mean of location | | 6352.6 | 8145.2 | 94.3 | 79.4 | 212.8 | 73.7 | 77.4 |
| C.D. at 5 (%) | | 876.3 | 1134.8 | 3.5 | 4.1 | 6.3 | 5.2 | 5.3 |
| F (5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | s | s |
| 100% RDF | | 7769 | 9907 | 94.4 | 79.3 | 213.2 | 76.3 | 79.9 |
| SSNM | | 7240 | 9231 | 94.0 | 79.1 | 212.7 | 75.1 | 79.2 |
| Farmers fertilizer practice | | 4049 | 5298 | 94.5 | 79.7 | 212.6 | 69.8 | 73.3 |
| C.D. at 5 (%) | | 391.9 | 507.5 | 1.6 | 1.8 | 2.8 | 2.3 | 2.4 |
| F (5%) | | s | s | n.s. | n.s. | n.s. | s | s |
| NK-6607 | | 6874 | 8770 | 94.1 | 78.0 | 211.9 | 73.3 | 77.0 |
| DHM-117 | | 7089 | 9007 | 93.6 | 78.2 | 212.3 | 75.9 | 79.7 |
| HQPM-1 | | 6037 | 7844 | 94.9 | 80.4 | 213.8 | 74.2 | 78.1 |
| Pinnacle | | 6333 | 8096 | 93.9 | 79.9 | 210.8 | 72.8 | 76.2 |
| Kawari | | 5430 | 7007 | 95.0 | 80.4 | 215.4 | 72.4 | 76.2 |
| C.D. at 5 (%) | | 505.9 | 655.2 | 2.0 | 2.4 | 3.6 | 3.0 | 3.1 |
| C.V. (%) | | 8.2 | 8.3 | 2.2 | 3.1 | 1.8 | 4.2 | 4.1 |
| F (5%) | | s | s | n.s. | n.s. | n.s. | n.s. | n.s. |

Treatment Detail:**Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)**

- F1 100% RDF
 F2 SSNM
 F3 Farmers fertilizer practice

Sub plot: Maize hybrids

- H1 NK-6607
 H2 DHM-117
 H3 HQPM-1
 H4 Pinnacle
 H5 Kawari

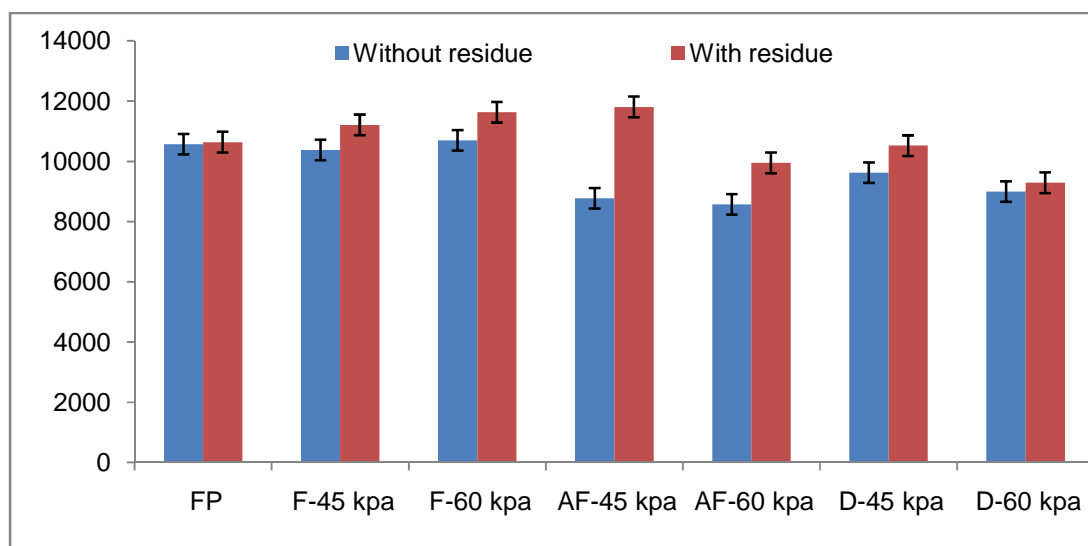


Figure 1. Grain yield (kg/ha) of spring maize under different water management options with and without residue mulch during spring 2013 at Ludhiana

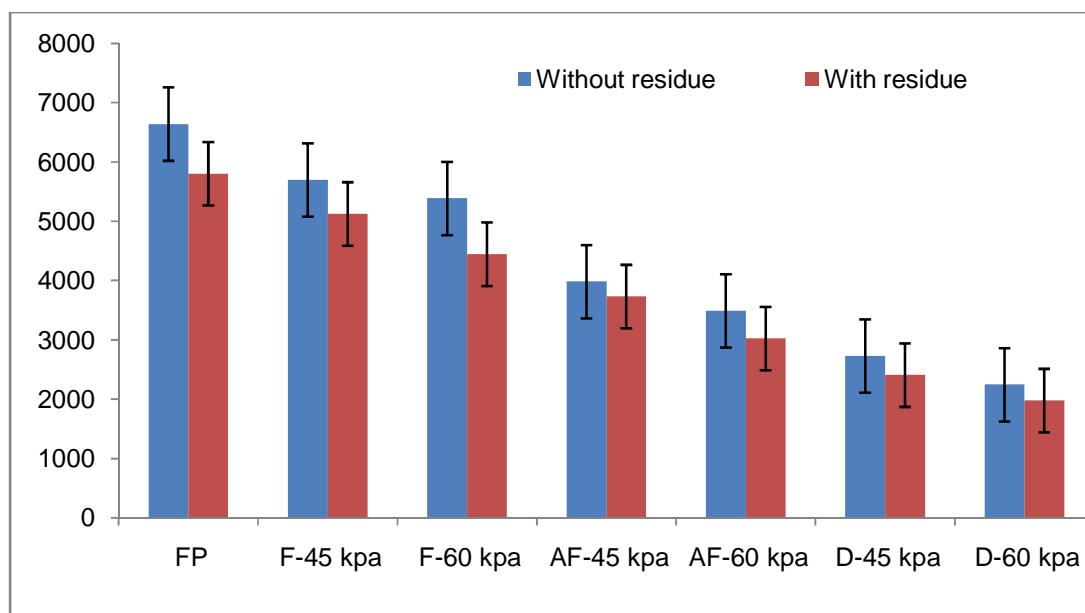


Figure 2. Irrigation water use (m^3ha^{-1}) of spring maize under different water management options with and without residue mulch during spring 2013 at Ludhiana

Table 47: Suitability of maize hybrids through staggered planting under changing rainfall pattern at Srinagar.

| Date of sowing | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|-----------------------------|---------------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| 10 days advanced from (NDS) | Shalimar MH-1 | 6150 | 7733 | 69.5 | 59.3 | 205.0 | 87.3 | 91.7 |
| | Shalimar MH-2 | 6650 | 8133 | 67.8 | 58.0 | 211.0 | 82.3 | 85.7 |
| | DHM-117 | 7133 | 8550 | 69.3 | 60.0 | 218.7 | 95.3 | 97.7 |
| | NK-6607 | 7783 | 9333 | 71.3 | 62.5 | 216.7 | 91.0 | 94.7 |
| Normal date of sowing (NDS) | Shalimar MH-1 | 6017 | 7483 | 69.5 | 60.2 | 211.0 | 82.0 | 86.3 |
| | Shalimar MH-2 | 6533 | 7917 | 68.7 | 59.0 | 212.0 | 75.3 | 79.3 |
| | DHM-117 | 7083 | 8767 | 69.3 | 60.7 | 218.3 | 88.0 | 91.7 |
| | NK-6607 | 7433 | 8933 | 69.7 | 59.2 | 213.7 | 86.3 | 89.7 |
| 10 days delay from (NDS) | Shalimar MH-1 | 5417 | 6900 | 68.7 | 59.0 | 201.3 | 77.0 | 80.3 |
| | Shalimar MH-2 | 5583 | 7117 | 72.0 | 60.7 | 202.7 | 71.0 | 75.3 |
| | DHM-117 | 6083 | 7600 | 69.0 | 58.7 | 210.3 | 86.3 | 90.7 |
| | NK-6607 | 6933 | 8517 | 71.0 | 60.8 | 209.0 | 81.0 | 85.0 |
| 20 days delay from (NDS) | Shalimar MH-1 | 4717 | 6150 | 72.0 | 62.2 | 200.3 | 76.3 | 79.7 |
| | Shalimar MH-2 | 4917 | 6333 | 69.2 | 59.3 | 204.0 | 69.0 | 72.7 |
| | DHM-117 | 5983 | 7483 | 71.2 | 59.5 | 215.0 | 81.7 | 84.3 |
| | NK-6607 | 6583 | 8133 | 71.3 | 61.8 | 209.0 | 79.3 | 82.3 |
| Mean of location | | 6312.5 | 7817.7 | 70.0 | 60.1 | 209.9 | 81.8 | 85.4 |
| C.D. at 5 (%) | | 1105.5 | 1156.5 | 3.1 | 3.1 | 8.1 | 3.0 | 3.0 |
| F (5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| 10 days advanced from (NDS) | | 6929 | 8438 | 69.5 | 60.0 | 212.8 | 89.0 | 92.4 |
| Normal date of sowing (NDS) | | 6767 | 8275 | 69.3 | 59.8 | 213.8 | 82.9 | 86.8 |
| 10 days delay from (NDS) | | 6004 | 7533 | 70.2 | 59.8 | 205.8 | 78.8 | 82.8 |
| 20 days delay from (NDS) | | 5550 | 7025 | 70.9 | 60.7 | 207.1 | 76.6 | 79.8 |
| C.D. at 5 (%) | | 552.8 | 578.3 | 1.5 | 1.5 | 4.1 | 1.5 | 1.5 |
| F (5%) | | s | s | n.s. | n.s. | s | s | s |
| Shalimar MH-1 | | 5575 | 7067 | 69.9 | 60.2 | 204.4 | 80.7 | 84.5 |
| Shalimar MH-2 | | 5921 | 7375 | 69.4 | 59.3 | 207.4 | 74.4 | 78.3 |
| DHM-117 | | 6571 | 8100 | 69.7 | 59.7 | 215.6 | 87.8 | 91.1 |
| NK-6607 | | 7183 | 8729 | 70.8 | 61.1 | 212.1 | 84.4 | 87.9 |
| C.D. at 5 (%) | | 552.8 | 578.3 | 1.5 | 1.5 | 4.1 | 1.5 | 1.5 |
| C.V. (%) | | 10.5 | 8.9 | 2.6 | 3.1 | 2.3 | 2.2 | 2.1 |
| F (5%) | | s | s | n.s. | n.s. | s | s | s |

Treatment Detail:**Main plot: Sowing data**

- D1 10 days advanced from (NDS)
D2 Normal date of sowing (NDS)
D3 10 days delay from (NDS)
D4 20 days delay from (NDS)

Sub plot: Maize hybrids

- H1 Shalimar Maize hybrid-1
H2 Shalimar Maize hybrid-2
H3 DHM-117
H4 NK 6607

Table 48: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Arbhavi.

| Date of sowing | Hybrids | Grain yield (kg/ha) | Cob yield (kg/ha) | Stover yield (kg/ha) | Cobs ('000/ha) | Plant height (cm) |
|-----------------------------|------------|---------------------|-------------------|----------------------|----------------|-------------------|
| 15 days' advance from NDS | Renuka | 3057 | 4306 | 4398 | 45.1 | 143.3 |
| | Arjun | 5396 | 7824 | 9074 | 49.1 | 144.3 |
| | NK 6240 | 9370 | 14491 | 10833 | 68.1 | 168.0 |
| | 900 M Gold | 7788 | 11852 | 10856 | 56.9 | 147.0 |
| Normal Date of Sowing (NDS) | Renuka | 2823 | 4259 | 7662 | 39.6 | 163.0 |
| | Arjun | 3920 | 6667 | 7708 | 40.3 | 167.0 |
| | NK 6240 | 7033 | 11481 | 12361 | 65.5 | 176.0 |
| | 900 M Gold | 6221 | 10324 | 12431 | 65.0 | 185.3 |
| 15 days delayed from NDS | Renuka | 1626 | 3171 | 4745 | 18.5 | 123.3 |
| | Arjun | 2544 | 5139 | 7917 | 37.7 | 129.3 |
| | NK 6240 | 4374 | 9005 | 11065 | 45.4 | 144.3 |
| | 900 M Gold | 4358 | 9074 | 9653 | 40.5 | 142.3 |
| 30 days delayed from NDS | Renuka | 1570 | 2940 | 4167 | 24.1 | 127.7 |
| | Arjun | 1669 | 3472 | 6944 | 31.3 | 131.0 |
| | NK 6240 | 4121 | 8333 | 11227 | 45.1 | 140.7 |
| | 900 M Gold | 4127 | 8449 | 9028 | 41.7 | 139.0 |
| Mean of location | | 4374.7 | 7549.2 | 8754.3 | 44.6 | 148.2 |
| C.D. at 5 (%) | | 1617.2 | 3002.8 | 2464.2 | 12.0 | 16.3 |
| F (5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|---------------------------|-------|--------|--------|------|-------|
| 15 days' advance from NDS | 6403 | 9618 | 8791 | 54.8 | 150.7 |
| Normal Date of Sowing NDS | 4999 | 8183 | 10041 | 52.6 | 172.8 |
| 15 days delayed from NDS | 3226 | 6597 | 8345 | 35.5 | 134.8 |
| 30 days delayed from NDS | 2872 | 5799 | 7841 | 35.5 | 134.6 |
| C.D. at 5 (%) | 808.6 | 1501.4 | 1232.1 | 6.0 | 8.2 |
| F (5%) | s | s | s | s | s |

| | | | | | |
|---------------|-------|--------|--------|------|-------|
| Renuka | 2269 | 3669 | 5243 | 31.8 | 139.3 |
| Arjun | 3382 | 5775 | 7911 | 39.6 | 142.9 |
| NK 6240 | 6225 | 10828 | 11372 | 56.0 | 157.3 |
| 900 M Gold | 5623 | 9925 | 10492 | 51.0 | 153.4 |
| C.D. at 5 (%) | 808.6 | 1501.4 | 1232.1 | 6.0 | 8.2 |
| C.V. (%) | 22.2 | 23.9 | 16.9 | 16.2 | 6.6 |
| F (5%) | s | s | s | s | s |

Treatment details:**Main plot: Sowing data**

| | |
|----|---------------------------|
| D1 | 15 days' advance from NDS |
| D2 | Normal Date of Sowing NDS |
| D3 | 15 days delayed from NDS |
| D4 | 30 days delayed from NDS |

Sub plot: Maize hybrids

| | |
|----|------------|
| H1 | Renuka |
| H2 | Arjun |
| H3 | NK 6240 |
| H4 | 900 M Gold |

Table 49: Effect of planting system, plant geometry and residue retention under rain fed conditions at Srinagar.

| Residue level | Row arrangement | Spacing | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|------------------------|-----------------|---------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| Clean field | Equal row | 37 cm | 5378 | 6489 | 41.1 | 38.0 | 207.3 | 73.0 | 77.0 |
| | | 30 cm | 5844 | 7178 | 49.1 | 44.9 | 210.0 | 73.7 | 78.7 |
| | | 25 cm | 6111 | 7378 | 58.9 | 55.1 | 213.0 | 74.0 | 77.0 |
| | | 20 cm | 6556 | 7956 | 81.3 | 76.0 | 214.7 | 75.3 | 79.7 |
| | Paired row | 37 cm | 5356 | 6467 | 40.7 | 38.4 | 206.3 | 75.0 | 79.3 |
| | | 30 cm | 5778 | 6911 | 48.0 | 44.9 | 208.3 | 75.7 | 80.0 |
| | | 25 cm | 6178 | 7444 | 60.9 | 56.2 | 211.0 | 73.0 | 77.7 |
| | | 20 cm | 6444 | 7800 | 80.4 | 75.8 | 215.7 | 75.0 | 79.3 |
| Residue mulch (5 t/ha) | Equal row | 37 cm | 5378 | 6489 | 40.0 | 39.3 | 216.3 | 75.7 | 79.0 |
| | | 30 cm | 5844 | 7156 | 48.9 | 48.7 | 216.3 | 76.7 | 80.0 |
| | | 25 cm | 6222 | 7467 | 61.1 | 58.4 | 216.0 | 75.7 | 78.0 |
| | | 20 cm | 6711 | 8089 | 85.1 | 82.4 | 210.7 | 77.0 | 80.3 |
| | Paired row | 37 cm | 5467 | 6689 | 42.2 | 40.4 | 217.7 | 76.3 | 81.0 |
| | | 30 cm | 5867 | 7111 | 50.0 | 50.0 | 216.7 | 76.7 | 80.3 |
| | | 25 cm | 6289 | 7644 | 62.0 | 58.2 | 216.0 | 76.3 | 81.3 |
| | | 20 cm | 6822 | 8178 | 82.4 | 80.7 | 215.3 | 76.7 | 81.3 |
| Mean of location | | | 6015.3 | 7277.8 | 87.4 | 83.2 | 213.2 | 75.4 | 79.4 |

| | | | | | | | |
|----------------------------|-------|-------|------|------|-------|------|------|
| Clean field | 5956 | 7203 | 57.6 | 53.7 | 210.8 | 74.3 | 78.6 |
| Residue mulch (5 tones/ha) | 6075 | 7353 | 59.0 | 57.3 | 215.6 | 76.4 | 80.2 |
| C. D. at (5%) | 163.4 | 221.7 | 1.1 | 1.9 | 2.3 | 1.1 | 1.3 |
| Significance | N.S. | N.S. | S | S | S | S | S |

| | | | | | | | |
|----------------------|-------|-------|------|------|-------|------|------|
| Equal row at 67cm | 6006 | 7275 | 58.2 | 55.4 | 213.0 | 75.1 | 78.7 |
| Paired row (84:50cm) | 6025 | 7281 | 58.3 | 55.6 | 213.4 | 75.6 | 80.0 |
| C. D. at (5%) | 163.4 | 221.7 | 1.1 | 1.9 | 2.3 | 1.1 | 1.3 |
| Significance | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | S |

| | | | | | | | |
|-------------------------------|-------|-------|------|------|-------|------|------|
| Plant to plant 37 cm (40,000) | 5394 | 6533 | 41.0 | 39.1 | 211.9 | 75.0 | 79.1 |
| Plant to plant 30 cm (50,000) | 5833 | 7089 | 49.0 | 47.1 | 212.8 | 75.7 | 79.8 |
| Plant to plant 25 cm (60,000) | 6200 | 7483 | 60.7 | 57.0 | 214.0 | 74.8 | 78.5 |
| Plant to plant 20 cm (83,000) | 6633 | 8006 | 82.3 | 78.7 | 214.1 | 76.0 | 80.2 |
| C. D. at (5%) | 231.1 | 313.5 | 1.6 | 2.8 | 3.2 | 1.6 | 1.8 |
| Significance | S | S | S | S | N.S. | N.S. | N.S. |

Treatment Detail:**Main plot: Residue Level**

- M1 Clean field
M2 Residue mulch (5 tones/ha)

Sub plot: Row arrangement

- R1 Equal row at 67cm
R2 Paired row (84:50cm)

Sub-sub plot: Plant geometry (Plant population)

- P1 Plant to plant 37 cm (40,000)
P2 Plant to plant 30 cm (50,000)
P3 Plant to plant 25 cm (60,000)
P4 Plant to plant 20 cm (83,000)

Table 50: Evaluation of interactive effect of fertility level, plant density and different maturity cultivars on productivity and profitability of maize at Ambikapur.

| Fertility level | Hybrids | Spacing (cm) | Grain yield (kg/ha) | Cob yield (Kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking | Net return (Rs/ha) | BC ratio |
|------------------|------------------------|--------------|---------------------|-------------------|----------------------|------------------|----------------|-------------------|---------------------|--------------------|----------|
| 120:60:40 | Bisco Kohinoor (Early) | 50 x 20 | 4931 | 6186 | 7347 | 97.5 | 109.2 | 219.7 | 219.7 | 31829 | 1.2 |
| | | 60 x 20 | 4972 | 6180 | 7508 | 79.9 | 86.5 | 215.6 | 215.6 | 31979 | 1.2 |
| | | 70 x 20 | 5361 | 6592 | 8203 | 65.7 | 74.0 | 213.7 | 213.7 | 36154 | 1.4 |
| | S-6304 (Medium) | 50 x 20 | 4875 | 6009 | 7410 | 99.2 | 105.8 | 230.1 | 230.1 | 31112 | 1.2 |
| | | 60 x 20 | 6819 | 8297 | 10434 | 81.1 | 83.6 | 225.2 | 225.2 | 53300 | 2.1 |
| | | 70 x 20 | 7486 | 9039 | 11454 | 65.7 | 74.7 | 209.6 | 209.6 | 60663 | 2.3 |
| | CK-30 (Late) | 50 x 20 | 6597 | 8191 | 10094 | 97.9 | 99.6 | 267.0 | 267.0 | 51187 | 2.0 |
| | | 60 x 20 | 6792 | 8403 | 10459 | 80.8 | 79.7 | 256.8 | 256.8 | 53135 | 2.1 |
| | | 70 x 20 | 7042 | 8695 | 10915 | 65.8 | 66.1 | 249.1 | 249.1 | 55741 | 2.1 |
| 200:60:80 | Bisco Kohinoor (Early) | 50 x 20 | 7833 | 9621 | 11907 | 95.8 | 96.1 | 246.4 | 246.4 | 61631 | 2.1 |
| | | 60 x 20 | 8889 | 10850 | 13600 | 81.9 | 91.0 | 244.2 | 244.2 | 73539 | 2.5 |
| | | 70 x 20 | 9000 | 10967 | 13860 | 65.7 | 71.0 | 243.3 | 243.3 | 74532 | 2.5 |
| | S-6304 (Medium) | 50 x 20 | 7236 | 8889 | 10999 | 96.9 | 97.9 | 261.2 | 261.2 | 54700 | 1.9 |
| | | 60 x 20 | 7972 | 9769 | 12198 | 81.8 | 86.0 | 262.9 | 262.9 | 62941 | 2.1 |
| | | 70 x 20 | 8069 | 9770 | 12427 | 65.4 | 69.0 | 264.9 | 264.9 | 63671 | 2.1 |
| | CK-30 (Late) | 50 x 20 | 8111 | 10063 | 12572 | 95.8 | 90.7 | 288.6 | 288.6 | 65017 | 2.2 |
| | | 60 x 20 | 9792 | 11717 | 15373 | 81.7 | 92.5 | 279.3 | 279.3 | 83877 | 2.8 |
| | | 70 x 20 | 9903 | 11954 | 15844 | 66.0 | 67.5 | 279.8 | 279.8 | 85043 | 2.8 |
| Mean of location | | | 7315.6 | 8955.2 | 11255.6 | 81.4 | 85.6 | 247.6 | 247.6 | 57224.9 | 2.0 |

| | | | | | | | | | |
|---------------|-------|-------|-------|------|------|-------|-------|--------|-----|
| 120:60:40 | 6097 | 7510 | 9314 | 81.5 | 86.6 | 231.9 | 231.9 | 45011 | 1.7 |
| 200:60:80 | 8534 | 10400 | 13198 | 81.2 | 84.6 | 263.4 | 263.4 | 69439 | 2.3 |
| C. D. at (5%) | 425.4 | 513.1 | 652.8 | 0.8 | 3.7 | 5.5 | 5.5 | 4924.6 | 0.2 |
| Significance | S | S | S | N.S. | N.S. | S | S | S | S |

| | | | | | | | | | |
|------------------------|-------|-------|-------|------|------|-------|-------|--------|-----|
| Bisco Kohinoor (Early) | 6831 | 8399 | 10404 | 81.1 | 88.0 | 230.5 | 230.5 | 51611 | 1.8 |
| S-6304 (Medium) | 7076 | 8629 | 10820 | 81.7 | 86.2 | 242.3 | 242.3 | 54398 | 2.0 |
| CK-30 (Late) | 8039 | 9837 | 12543 | 81.3 | 82.7 | 270.1 | 270.1 | 65666 | 2.3 |
| C. D. at (5%) | 521.0 | 628.4 | 799.5 | 0.9 | 4.6 | 6.7 | 6.7 | 6031.4 | 0.2 |
| Significance | S | S | S | N.S. | N.S. | S | S | S | S |

| | | | | | | | | | |
|---------------|-------|-------|-------|------|------|-------|-------|--------|-----|
| 50 x 20 (cm) | 6597 | 8160 | 10055 | 97.2 | 99.9 | 252.2 | 252.2 | 49246 | 1.8 |
| 60 x 20 (cm) | 7539 | 9203 | 11595 | 81.2 | 86.6 | 247.3 | 247.3 | 59795 | 2.1 |
| 70 x 20 (cm) | 7810 | 9503 | 12117 | 65.7 | 70.4 | 243.4 | 243.4 | 62634 | 2.2 |
| C. D. at (5%) | 521.0 | 628.4 | 799.5 | 0.9 | 4.6 | 6.7 | 6.7 | 6031.4 | 0.2 |
| Significance | S | S | S | S | S | S | S | S | S |

Treatment details:

Main plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

F1 120:60:40
F2 200:60:80

Sub-sub plot: spacing (cm)

S1 50 x 20 (cm)
S2 60 x 20 (cm)
S3 70 x 20 (cm)

Sub plot: Different maturity group

V1 Bisco Kohinoor (Early)
V2 S-6304 (Medium)
V3 CK-30 (Late)

Table 51: Weed management strategies for diverse weed flora in maize based cropping systems at Arbhavi.

| Treatments | Grain yield (kg/ha) | Cob yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|--------------|---------------------|-------------------|----------------------|------------------|----------------|-------------------|
| T1 | 4675 | 7037 | 5949 | 50.0 | 49.5 | 142.5 |
| T2 | 3881 | 5995 | 5995 | 51.4 | 50.0 | 136.3 |
| T3 | 4982 | 7824 | 6389 | 53.7 | 52.8 | 137.9 |
| T4 | 4847 | 7500 | 6574 | 53.5 | 52.3 | 158.8 |
| T5 | 3979 | 6296 | 6343 | 49.8 | 49.1 | 132.9 |
| T6 | 4440 | 6898 | 7014 | 52.3 | 50.9 | 151.3 |
| T7 | 4756 | 7361 | 7222 | 50.2 | 50.0 | 146.3 |
| T8 | 3005 | 4769 | 5648 | 44.0 | 39.8 | 135.5 |
| T9 | 5217 | 8102 | 7176 | 51.4 | 52.3 | 151.3 |
| T10 | 6417 | 9491 | 7269 | 51.2 | 50.2 | 155.0 |
| T11 | 1925 | 3009 | 3056 | 20.4 | 18.8 | 133.8 |
| T12 | 4564 | 7315 | 5810 | 44.2 | 42.1 | 155.0 |
| Mean | 4390.6 | 6799.8 | 6203.7 | 47.7 | 46.5 | 144.7 |
| CD | 961.1 | 1524.3 | 1569.1 | 5.2 | 7.5 | 11.6 |
| CV (%) | 12.9 | 13.2 | 14.9 | 6.4 | 9.5 | 4.7 |
| Significance | S | S | S | S | S | S |

Treatment details:

- T1 Atrazine 1.0 kg a.i./ha PE (as a national check)
- T2 Atrazine 1.0 kg a.i./ha at 15-20 DAS
- T3 Pendimethalin 1.0 kg a.i./ha as PE
- T4 Organic mulch @ 6 t/ha
- T5 Maize+ cover crop (Cowpea 2 rows)
- T6 One hand weeding at 20 DAS
- T7 Two hand weeding at 20 & 40 DAS
- T8 Weedy check
- T9 Atrazine 1.0 kg a.i./ha PE + 1 Hoeing at 20-25 DAS
- T10 Pendimethalin 1.0 kg a.i./ha as PE + 1 Hoeing at 20-25 DAS
- T11 Metribuzin 0.25 kg ai/ha + 1 Hoeing at 20-25 DAS
- T12 Oxyflurafen 0.15 kg ai/ha +1 Hoeing at 20-25 DAS

Table 52: Weed management strategies for diverse weed flora in maize based cropping systems at Chhindwara.

| Treatments | Grain yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking |
|----------------|---------------------|------------------|----------------|-------------------|---------------------|
| T ₁ | 3393 | 74.1 | 67.0 | 172.0 | 66.3 |
| T ₂ | 3081 | 73.7 | 65.9 | 166.0 | 68.3 |
| T ₃ | 3015 | 73.3 | 59.3 | 167.3 | 68.0 |
| T ₄ | 2896 | 74.1 | 62.6 | 162.7 | 68.7 |
| T ₅ | 2663 | 71.9 | 58.9 | 166.7 | 68.3 |
| T ₆ | 3178 | 71.1 | 65.9 | 169.7 | 67.7 |
| T ₇ | 3522 | 74.8 | 67.4 | 172.3 | 66.0 |
| T ₈ | 2381 | 68.1 | 55.2 | 160.3 | 69.7 |
| Mean | 3016.2 | 72.6 | 62.8 | 167.1 | 67.9 |
| CD | 563.9 | 3.9 | 6.4 | 11.0 | 1.9 |
| CV (%) | 10.7 | 3.0 | 5.8 | 3.8 | 1.6 |
| Significance | S | S | S | N.S. | S |

Treatment details:

- T1 Atrazine 1.0 kg a.i./ha PE (As a national check)
T2 Atrazine 1.0 kg a.i./ha at 15-20 DAS
T3 Pendamethalin 1.0 kg a.i./ha as PE
T4 Organic mulch @ 6 t/ha
T5 Maize+ cover crop (Cowpea 2 rows)
T6 One hand weeding at 20 DAS
T7 Two hand weeding at 20 & 40 DAS
T8 Weedy check

Table 53: Weed management strategies for diverse weed flora in maize based cropping systems at Jhabua.

| Treatment | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|--------------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| T1 | 4704 | 5683 | 66.9 | 66.7 | 186.8 | 52.7 | 56.0 |
| T2 | 3429 | 4296 | 66.1 | 63.8 | 173.4 | 53.0 | 56.3 |
| T3 | 3987 | 4878 | 67.2 | 64.8 | 180.3 | 52.0 | 55.3 |
| T4 | 3614 | 4505 | 64.8 | 63.0 | 175.7 | 52.0 | 56.0 |
| T5 | 3354 | 4175 | 65.3 | 63.8 | 170.3 | 51.7 | 55.3 |
| T6 | 4217 | 5153 | 66.9 | 64.8 | 182.3 | 52.3 | 56.0 |
| T7 | 5021 | 6000 | 66.7 | 67.5 | 188.8 | 53.0 | 56.0 |
| T8 | 2831 | 3574 | 64.3 | 62.7 | 155.7 | 51.3 | 54.7 |
| Mean | 3894.5 | 4783.1 | 66.0 | 64.6 | 176.7 | 52.3 | 55.7 |
| CD | 249.9 | 357.7 | 2.8 | 3.0 | 8.6 | 1.5 | 1.8 |
| CV (%) | 3.7 | 4.3 | 2.4 | 2.6 | 2.8 | 1.6 | 1.8 |
| Significance | S | S | N.S. | S | S | N.S. | N.S. |

| Treatment | Grassy weeds at 50 DAS | Broad leaf weeds at 50 DAS | Total weeds at 50 DAS | Grassy weed dry matter at 50 DAS (gm) | Broad leaf weed dry matter at 50 DAS | Total weed Dry matter at 50 DAS |
|--------------|------------------------|----------------------------|-----------------------|---------------------------------------|--------------------------------------|---------------------------------|
| T1 | 9.5 | 11.3 | 20.7 | 5.2 | 6.7 | 11.9 |
| T2 | 34.1 | 35.8 | 69.9 | 12.1 | 13.5 | 25.5 |
| T3 | 24.1 | 31.1 | 55.2 | 9.1 | 12.4 | 21.4 |
| T4 | 31.6 | 28.1 | 59.7 | 11.2 | 11.7 | 22.9 |
| T5 | 37.7 | 42.8 | 80.5 | 15.1 | 14.5 | 29.6 |
| T6 | 23.9 | 26.6 | 50.5 | 8.1 | 10.0 | 18.1 |
| T7 | 6.6 | 8.9 | 15.5 | 4.3 | 5.9 | 10.2 |
| T8 | 56.1 | 70.0 | 126.1 | 17.1 | 16.8 | 33.9 |
| Mean | 28.0 | 31.8 | 59.8 | 10.3 | 11.4 | 21.7 |
| CD | 7.6 | 6.4 | 7.7 | 2.1 | 2.3 | 3.5 |
| CV (%) | 15.5 | 11.5 | 7.4 | 11.8 | 11.4 | 9.1 |
| Significance | S | S | S | S | S | S |

Treatment details:

- T1 Atrazine 1.0 kg a.i./ha PE (as a national check)
T2 Atrazine 1.0 kg a.i./ha at 15-20 DAS
T3 Pendimethalin 1.0 kg a.i./ha as PE
T4 Organic mulch @ 6t/ha
T5 Maize + Cover crop (Cow pea)
T6 One hand weeding at 20 DAS
T7 Two hand weeding at 20 & 40 DAS
T8 Weedy Check

Table 54: Effect of tillage and residue management practices on productivity and soil health in maize-wheat cropping sequence at Udaipur.

| Tillage practices | Residue management | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|-------------------|--------------------|---------------------|----------------------|------------------|----------------|-------------------|
| ZT | With residue | 5023 | 7550 | 65.8 | 72.2 | 195.8 |
| BP | | 4227 | 6343 | 60.6 | 67.1 | 200.3 |
| CT | | 3630 | 5420 | 59.7 | 65.8 | 180.4 |
| ZT | Without residue | 3823 | 5700 | 60.4 | 66.8 | 170.4 |
| BP | | 3633 | 5547 | 58.7 | 64.8 | 175.7 |
| CT | | 3643 | 5507 | 58.4 | 64.7 | 168.6 |
| Mean of location | | 3996.7 | 6011.1 | 60.6 | 66.9 | 181.9 |
| C.D. at 5 (%) | | 631.7 | 907.7 | 4.5 | 4.8 | 12.0 |
| F (5%) | | n.s. | n.s. | n.s. | n.s. | n.s. |

| | | | | | |
|----------------------|-------|-------|------|------|-------|
| Zero tillage | 4625 | 6947 | 63.2 | 69.6 | 198.1 |
| Bed planting | 3727 | 5560 | 60.1 | 66.3 | 175.4 |
| Conventional tillage | 3638 | 5527 | 58.5 | 64.8 | 172.2 |
| C.D. at 5 (%) | 446.7 | 641.9 | 3.2 | 3.4 | 8.5 |
| F (5%) | s | s | s | s | s |

| | | | | | |
|-----------------|-------|-------|------|------|-------|
| With residue | 4096 | 6172 | 61.4 | 67.6 | 184.0 |
| Without residue | 3898 | 5850 | 59.8 | 66.2 | 179.8 |
| C.D. at 5 (%) | 364.7 | 524.1 | 2.6 | 2.8 | 6.9 |
| C.V. (%) | 8.7 | 8.3 | 4.1 | 3.9 | 3.6 |
| F (5%) | n.s. | n.s. | n.s. | n.s. | n.s. |

Treatment details:**Main plot: Tillage practices**

- T1 Zero tillage
T2 Bed planting
T3 Conventional tillage

Sub plot: Residue management

- RM1 With residue (33% residue of both crop)
RM2 Without residue

Table 55: Interactive effect of tillage x hybrids on productivity and soil health of maize-wheat cropping sequence at Udaipur.

| Tillage practices | Hybrids | Grain yield (kg/ha) | Stover yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) |
|-------------------|---------|---------------------|----------------------|------------------|----------------|-------------------|
| ZT | HQPM-1 | 4830 | 7237 | 66.2 | 66.5 | 196.7 |
| BP | | 4640 | 6999 | 65.5 | 65.9 | 200.3 |
| CT | | 4264 | 6296 | 64.1 | 64.4 | 185.7 |
| ZT | PEHM-2 | 3133 | 4604 | 66.1 | 91.9 | 180.4 |
| BP | | 2953 | 4354 | 65.3 | 91.3 | 185.3 |
| CT | | 2340 | 3326 | 63.7 | 88.7 | 175.8 |
| Mean of location | | 3693.4 | 5469.3 | 65.2 | 78.1 | 187.4 |
| C.D. at 5 (%) | | 770.2 | 1141.7 | 3.6 | 4.5 | 10.8 |
| F (5%) | | n.s. | n.s. | n.s. | s | n.s. |

| | | | | | |
|----------------------|-------|-------|------|------|-------|
| Zero tillage | 4735 | 7118 | 65.9 | 66.2 | 198.5 |
| Bed planting | 3699 | 5450 | 65.1 | 78.2 | 183.1 |
| Conventional tillage | 2647 | 3840 | 64.5 | 90.0 | 180.6 |
| C.D. at 5 (%) | 544.6 | 807.3 | 2.5 | 3.2 | 7.6 |
| F (5%) | s | s | n.s. | s | s |

| | | | | | |
|---------------|-------|-------|------|------|-------|
| HQPM-1 | 4016 | 5962 | 65.2 | 74.1 | 189.2 |
| PEMH-2 | 3371 | 4977 | 65.1 | 82.2 | 185.5 |
| C.D. at 5 (%) | 444.7 | 659.2 | 2.1 | 2.6 | 6.2 |
| C.V. (%) | 11.5 | 11.5 | 3.0 | 3.1 | 3.2 |
| F (5%) | s | s | n.s. | s | n.s. |

Treatment details:**Main plot: Tillage practices**

- T1 Zero tillage
T2 Bed planting
T3 Conventional tillage

Sub plot: Maize hybrids

- H1 HQPM-1
H2 PEHM-2

Table 56: Moisture conservation studies in maize for enhancing water use efficiency at Srinagar.

| Treatments | Grain yield (kg/ha) | Cob yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% tasseling | Days to 50% silking |
|----------------|---------------------|-------------------|------------------|----------------|-------------------|-----------------------|---------------------|
| T ₁ | 5444 | 6533 | 81.1 | 60.7 | 217.3 | 66.3 | 70.7 |
| T ₂ | 5222 | 6311 | 60.4 | 39.8 | 211.0 | 65.7 | 70.7 |
| T ₃ | 5600 | 6778 | 81.3 | 57.8 | 214.0 | 66.0 | 72.0 |
| T ₄ | 5444 | 6444 | 61.3 | 44.0 | 213.0 | 65.3 | 70.7 |
| T ₅ | 5156 | 6222 | 81.1 | 37.1 | 209.7 | 66.7 | 72.0 |
| T ₆ | 5644 | 6933 | 81.6 | 62.2 | 215.3 | 65.0 | 69.3 |
| T ₇ | 6178 | 7378 | 79.3 | 57.6 | 214.0 | 64.0 | 68.3 |
| T ₈ | 5956 | 7133 | 81.6 | 63.1 | 212.7 | 65.0 | 70.0 |
| Mean | 5580.6 | 6716.7 | 76.0 | 52.8 | 213.4 | 65.5 | 70.5 |
| CD | 379.7 | 439.7 | 2.2 | 4.6 | 6.3 | 2.5 | 3.3 |
| CV (%) | 3.9 | 3.7 | 1.7 | 5.0 | 1.7 | 2.2 | 2.7 |
| Significance | S | S | S | S | N.S. | N.S. | N.S. |

Treatment Detail:

- T₁ Furrow sowing with normal plant population
T₂ Furrow sowing with 25% reduced plant population
T₃ Flat planting with normal plant population
T₄ Flat planting with 25% reduced plant population
T₅ Kaolin spray 5%
T₆ Hydro-gel application @2.5 kg/ha
T₇ Straw mulch @ 6t/ha
T₈ In-situ mulching of cowpea

Table 57: Effect of planting systems, intercropping and residue retention on baby corn yield under rainfed conditions of valley at Srinagar.

| Row arrangement | Intercrop | Residue level | Intercrop yield (kg/ha) | Baby corn yield with husk (kg/ha) | Baby corn yield without husk (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height at 1 st picking (cm) |
|------------------|--------------------|------------------------------|-------------------------|-----------------------------------|--------------------------------------|------------------|----------------|--|
| Equal row | Shalimar Rajmash-1 | Clean field | 360 | 6978 | 1711 | 82.4 | 163.1 | 215.0 |
| | Shalimar Moong-1 | | 278 | 6778 | 1511 | 81.3 | 160.9 | 216.7 |
| Paired row | Shalimar Rajmash-1 | | 389 | 7756 | 1689 | 81.3 | 160.2 | 216.0 |
| | Shalimar Moong-1 | | 276 | 7156 | 1689 | 82.0 | 166.2 | 213.7 |
| Equal row | Shalimar Rajmash-1 | Residue mulch (5 tones / ha) | 416 | 7422 | 1733 | 82.2 | 165.6 | 214.3 |
| | Shalimar Moong-1 | | 293 | 7956 | 1667 | 82.2 | 166.0 | 212.0 |
| Paired row | Shalimar Rajmash-1 | | 436 | 32844 | 1733 | 80.4 | 168.4 | 213.7 |
| | Shalimar Moong-1 | | 322 | 7489 | 1756 | 81.1 | 165.3 | 215.0 |
| Mean of location | | | 346.1 | 10547.2 | 1686.1 | 122.5 | 246.7 | 214.5 |

| | | | | | | |
|----------------------|------|---------|-------|------|-------|-------|
| Equal row at 67cm | 326 | 7167 | 1650 | 81.8 | 162.6 | 215.3 |
| Paired row (84:50cm) | 367 | 13928 | 1722 | 81.5 | 166.3 | 213.8 |
| C. D. at (5%) | 21.6 | 13381.6 | 109.2 | 1.5 | 6.0 | 3.5 |
| Significance | S | N.S. | N.S. | N.S. | N.S. | N.S. |

| | | | | | | |
|--------------------|------|---------|-------|------|-------|-------|
| Shalimar Rajmash-1 | 337 | 7283 | 1656 | 82.1 | 163.9 | 214.5 |
| Shalimar Moong-1 | 356 | 13811 | 1717 | 81.2 | 165.1 | 214.6 |
| C. D. at (5%) | 21.6 | 13381.6 | 109.2 | 1.5 | 6.0 | 3.5 |
| Significance | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

| | | | | | | |
|----------------------------|------|---------|-------|------|-------|-------|
| Clean field | 400 | 13750 | 1717 | 81.6 | 164.3 | 214.8 |
| Residue mulch (5 tones/ha) | 292 | 7344 | 1656 | 81.7 | 164.6 | 214.3 |
| C. D. at (5%) | 21.6 | 13381.6 | 109.2 | 1.5 | 6.0 | 3.5 |
| Significance | S | N.S. | N.S. | N.S. | N.S. | N.S. |

Treatment Detail:**Main plot: Row arrangement**

ER Equal row at 67cm

PR Paired row (84:50cm)

Sub-sub plot: Residue level

R1 Clean field

R2 Residue Mulch (5 Tones / ha)

Sub plot: Intercrop

I1 Shalimar Rajmash-1

I2 Shalimar Moong-1

Table 58: Promotion of specialty corn (Baby corn) and horse gram cropping system with their marketing linkage as well as processing value addition products at Ambikapur.

| Date of sowing | Fertility level | Baby corn yield (kg/ha) | Cob yield (kg/ha) | Fodder yield (kg/ha) | Horse gram yield (kg/ha) | Plants ('000/ha) | Cobs ('000/ha) | Plant height (cm) | Days to 50% silking | System net return (Rs/ha) | B:C ratio of system |
|---------------------|-----------------|-------------------------|-------------------|----------------------|--------------------------|------------------|----------------|-------------------|---------------------|---------------------------|---------------------|
| D1 | F1 | 1498 | 12968 | 28333 | 911 | 81.1 | 175.8 | 178.9 | 47.7 | 119653 | 3.6 |
| | F2 | 1918 | 14817 | 30048 | 959 | 82.1 | 191.8 | 187.5 | 47.7 | 153046 | 4.3 |
| | F3 | 2036 | 13738 | 31619 | 1002 | 81.9 | 165.4 | 191.9 | 47.7 | 163075 | 4.5 |
| | F4 | 1925 | 14317 | 33476 | 1144 | 81.9 | 205.6 | 195.1 | 47.3 | 156772 | 4.1 |
| D2 | F1 | 1787 | 12857 | 26397 | 824 | 81.3 | 165.5 | 177.2 | 44.3 | 139732 | 4.2 |
| | F2 | 1891 | 13008 | 27825 | 899 | 81.0 | 183.1 | 189.0 | 46.7 | 148624 | 4.2 |
| | F3 | 1657 | 12921 | 28286 | 955 | 81.9 | 179.3 | 185.3 | 47.7 | 130636 | 3.6 |
| | F4 | 1966 | 13317 | 29302 | 1030 | 81.3 | 178.7 | 186.5 | 48.0 | 155840 | 4.1 |
| D3 | F1 | 890 | 9111 | 22651 | 744 | 80.5 | 213.2 | 175.5 | 45.7 | 64857 | 2.0 |
| | F2 | 961 | 9048 | 25063 | 836 | 80.6 | 171.6 | 174.4 | 46.3 | 71779 | 2.0 |
| | F3 | 1057 | 9111 | 26048 | 850 | 80.6 | 178.2 | 178.3 | 47.3 | 79069 | 2.2 |
| | F4 | 838 | 8921 | 26937 | 978 | 80.5 | 187.9 | 187.5 | 46.7 | 63543 | 1.7 |
| D4 | F1 | 697 | 6492 | 21444 | 698 | 81.0 | 150.4 | 170.0 | 46.7 | 47773 | 1.4 |
| | F2 | 585 | 6603 | 22397 | 767 | 80.2 | 196.6 | 169.5 | 46.0 | 39082 | 1.1 |
| | F3 | 670 | 7175 | 24143 | 838 | 80.3 | 174.2 | 169.8 | 46.0 | 47342 | 1.3 |
| | F4 | 770 | 7206 | 25444 | 960 | 79.5 | 171.8 | 171.5 | 46.3 | 57317 | 1.5 |
| Location mean | | 1321.5 | 10725.7 | 26838.3 | 899.8 | 81.0 | 180.6 | 180.5 | 46.8 | 102383.9 | 2.9 |
| C.D.(5%) AiBj-AiBk | | 423.3 | 1911.2 | 2115.9 | 121.7 | 1.7 | 62.3 | 8.3 | 1.3 | 33593.4 | 1.0 |
| C.D.(5%) AiBk-AjBk | | 523.6 | 3220.6 | 2269.5 | 111.7 | 1.7 | 89.9 | 8.7 | 1.4 | 41868.7 | 1.2 |
| F(5%) | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | s | n.s. | n.s. |
| 13 July, 2013 | | 1844 | 13960 | 30869 | 1004 | 81.7 | 184.7 | 188.3 | 47.6 | 148136 | 4.1 |
| 20 July, 2013 | | 1825 | 13026 | 27952 | 927 | 81.3 | 176.6 | 184.5 | 46.7 | 143708 | 4.0 |
| 27 July, 2013 | | 936 | 9048 | 25175 | 852 | 80.6 | 187.7 | 178.9 | 46.5 | 69812 | 2.0 |
| 3 Aug, 2013 | | 680 | 6869 | 23357 | 816 | 80.2 | 173.3 | 170.2 | 46.3 | 47879 | 1.3 |
| C.D.(5%) Ai-Aj | | 376.5 | 2774.1 | 1351.1 | 37.6 | 0.9 | 72.2 | 5.0 | 0.8 | 30320.0 | 0.9 |
| C.V.(%) Error A | | 28.5 | 25.9 | 5.0 | 4.2 | 1.1 | 40.0 | 2.8 | 1.8 | 29.6 | 30.2 |
| F(5%) | | s | s | s | s | s | n.s. | s | s | s | s |
| 80:50:40 | | 1218 | 10357 | 24706 | 794 | 81.0 | 176.3 | 175.4 | 46.1 | 93004 | 2.8 |
| 100:60:40 | | 1339 | 10869 | 26333 | 865 | 81.0 | 185.8 | 180.1 | 46.7 | 103133 | 2.9 |
| 80:50:40 + 5 t FYM | | 1355 | 10736 | 27524 | 911 | 81.2 | 174.3 | 181.3 | 47.2 | 105030 | 2.9 |
| 100:60:40 + 5 t FYM | | 1375 | 10940 | 28790 | 1028 | 80.8 | 186.0 | 185.1 | 47.1 | 108368 | 2.8 |
| C.D.(5%)Bi-Bj | | 211.6 | 955.6 | 1057.9 | 60.9 | 0.9 | 31.2 | 4.2 | 0.7 | 16796.7 | 0.5 |
| C.V.(%)ErrorB | | 19.0 | 10.6 | 4.7 | 8.0 | 1.3 | 20.5 | 2.7 | 1.7 | 19.5 | 19.8 |
| F(5%) | | n.s. | n.s. | s | s | n.s. | n.s. | s | s | n.s. | n.s. |

Treatment details:

Main plot: Date of sowing of baby corn

| | |
|----|---------------|
| D1 | 13 July, 2013 |
| D2 | 20 July, 2013 |
| D3 | 27 July, 2013 |
| D4 | 3 Aug, 2013 |

Sub plot: Fertility levels (N:P₂O₅:K₂O kg/ha)

| | |
|----|---------------------|
| F1 | 80:50:40 |
| F2 | 100:60:40 |
| F3 | 80:50:40 + 5 t FYM |
| F4 | 100:60:40 + 5 t FYM |

PATHOLOGY

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| | | |
|------------|---|--------------|
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Abbreviations used:

Disease name

| | | | |
|------|-------------------------------|---------|---------------------------|
| MLB | Maydis leaf blight | TLB | Turcicum stalk rot |
| BLSB | Banded leaf and sheath blight | BSDM | Brown stripe downy mildew |
| PFSR | Post flowering stalk rot | C. RUST | Common rust |
| RDM | Rajasthan downy mildew | SDM | Sorghum downy mildew |
| ESR | Erwiana stalk rot | CLS | Curvularia leaf spot |

Reaction

| | | | |
|-----|-----------------------|----|------------------------|
| R | Resistant | S | Susceptible |
| MR | Moderately Resistant | MS | Moderately Susceptible |
| MPT | Maize Pathology Trial | | |

Executive summary

The programme for *kharif* 2013 Pathology trials was chalked out in the 56th Annual Maize Workshop held at ANGRAU, Hyderabad. During *Kharif* 2013, 10 trials of pathology were conducted under sick plot / artificially created epiphytotics at identified hot spot locations namely Bajaura, Almora in Zone I; Ludhiana, Delhi, Karnal, Pantnagar, Dhaulakuan in Zone II; Dholi, Bhubaneswar, Midanapur in Zone III; Arbhavi, Coimbatore, Mandya, Hyderabad in Zone IV and Udaipur in Zone V. A total of 321 entries were screened against 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), Curvularia leaf spot (CLS), Post-flowering stalk rots (PFSR), Cyst nematode, Common rust and Erwinia stalk rot (ESR). In addition, disease surveys were conducted at farmers fields in Himachal Pradesh (Zone I), Karnataka (Zone IV), Udaipur (Zone V) and Uttarakhand (Zone I) to assess overall disease scenario during the crop season. A total of 481 inbred lines were evaluated at hot spot locations in the country. Trap nursery trial for disease occurrence was conducted at Dholi, Karnal, Mandya, Udaipur, Pantnagar, Delhi, Hyderabad, Ludhiana, Coimbatore, Arabhavi and Almora. As a follow up of QRT recommendations, studies on molecular diversity among the isolates of *Peronosclerospora sorghi* and nematode interaction with PFSR, termite and stem borer were under taken by Mandya and Udaipur centre respectively. Study on management of nematode in maize was taken up by Udaipur centre. The summarized results of various AICRP Pathology trials conducted at respective centres are presented below:

MPT I. Disease screening of IVT (late maturity) maize hybrids (Trial 61)

A total of 44 genotypes out of 68 tested were resistant/ moderately resistant to different diseases (Table 1). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|-----------|---------------|--|
| 1. | IM8556 | MLB, CLS | TLB, BLSB, PFSR (C.ROT, FSR), RDM, ESR |
| 2. | Siri 4546 | CLS, MLB | - |
| 3. | Siri 4527 | MLB, TLB | BLSB, ESR, CLS |
| 4. | Janahit | TLB, CLS | MLB, BLSB, |
| 5. | TMMH-807 | MLB, TLB | BLSB, PFSR (C.ROT, FSR), RDM, CLS |
| 6. | ASMH-777 | MLB, TLB, CLS | BLSB, PFSR (C.ROT, FSR) |
| 7. | B-54 | CLS, MLB | TLB, SDM |
| 8. | CP-999 | MLB, CLS | TLB |
| 9. | GK-3158 | MLB, CLS | TLB |
| 10. | DKC9133 | MLB, CLS | TLB, PFSR (C.ROT), ESR |
| 11. | X35D613 | MLB, CLS | TLB |
| 12. | BB 032 | MLB, CLS | TLB, BLSB |
| 13. | PMH 1 | MLB, CLS | TLB, PFSR (C.ROT) |

MPT II. Disease screening of IVT (medium maturity) maize hybrids (Trial 62)

A total of 47 genotypes out of 87 tested were resistant/ moderately resistant to different diseases (Table 2). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|--------------------|---------------------------|-----------------------------------|
| 1. | RMH-932 | MLB, TLB | PFSR (C.ROT), RDM, ESR, CLS |
| 2. | SAFAL X-2 | MLB, TLB | PFSR (FSR), CLS |
| 3. | Kuber Shakthi | MLB, PFSR (FSR) | TLB, RDM, CLS |
| 4. | KDMH-2705 | MLB, PFSR (FSR), RDM | PFSR (C.ROT), SDM, CLS |
| 5. | EH-2205 | MLB, CLS | TLB, PFSR (FSR) |
| 6. | CMH 11-582 | MLB, TLB | PFSR (C.ROT, FSR) |
| 7. | CMH 11-603 | MLB, PFSR (FSR) | TLB, BLSB, PFSR (C.ROT) |
| 8. | IM8479 | MLB, PFSR (FSR), CLS | TLB, PFSR (C.ROT), RDM, ESR |
| 9. | IM8581 | MLB, PFSR (FSR), CLS | TLB, PFSR (C.ROT) |
| 10. | VEH 12-1 | ESR, CLS | MLB, TLB, PFSR (C.ROT, FSR) |
| 11. | X35D620 | PFSR (FSR), CLS | PFSR (C.ROT) |
| 12. | X35D602 | MLB, PFSR (FSR) | TLB, BLSB, PFSR (C.ROT), ESR, CLS |
| 13. | JH 31604 | MLB, RDM, CLS | TLB, PFSR (C.ROT, FSR) |
| 14. | JH 31600(JH 31627) | MLB, PFSR (FSR), CLS | RDM |
| 15. | JH 31244 | MLB, PFSR (FSR) | PFSR (C.ROT), CLS |
| 16. | JH 31554 | MLB, CLS | TLB, PFSR (C.ROT, FSR) |
| 17. | KNMH-4304 | MLB, TLB, PFSR (FSR), CLS | BLSB, PFSR (C.ROT) |
| 18. | KNMH-4305 | MLB, TLB, CLS | PFSR (C.ROT, FSR) |
| 19. | KNMH-4010131 | MLB, PFSR (FSR) | TLB, BLSB, RDM, CLS |

MPT III. Disease screening of IVT (early maturity) maize hybrids (Trial 63)

A total of 19 genotypes out of 30 tested were resistant/ moderately resistant to different diseases (Table 3). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|------------|----------------------|---------------------------|
| 1. | FH-3669 | MLB, PFSR (FSR), CLS | TLB, RDM |
| 2. | B-52 | MLB, CLS | PFSR (FSR), RDM, ESR |
| 3. | EH-2214 | PFSR (FSR), CLS | MLB, TLB |
| 4. | CMH 11-579 | MLB, ESR | TLB, PFSR (C.ROT, FSR) |
| 5. | CMH 11-595 | MLB, PFSR (FSR), CLS | TLB, ESR |
| 6. | CMH 11-626 | MLB, CLS | TLB, PFSR (FSR), RDM, ESR |
| 7. | CMH 11-629 | MLB, PFSR (FSR), CLS | TLB, ESR |
| 8. | BH 411305 | PFSR (FSR), CLS | MLB, PFSR (C.ROT) |
| 9. | JH 31610 | PFSR (FSR), ESR | MLB, PFSR (C.ROT), CLS |

MPT IV. Disease screening of IVT (extra early maturity) maize hybrids (Trial 64)

A total of 4 genotypes out of 13 tested were resistant /moderately resistant to different diseases (Table 4). Promising ones are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|-----------------|----------------------|------------------------|
| 1. | DH-266 | PFSR (FSR) | MLB, CLS |
| 2. | FH-3641 | MLB | PFSR (C.ROT, FSR), ESR |
| 3. | Vivek Hybrid 9 | PFSR (FSR) | MLB, PFSR (C.ROT), CLS |
| 4. | Vivek Hybrid 43 | PFSR (FSR), RDM, CLS | MLB, TLB, PFSR (C.ROT) |

MPT V. Disease screening of AVT I & AVT II (late maturity) maize hybrids (Trial 75)

A total of 35 genotypes out of 37 tested were resistant/moderately resistant to different diseases (Table 5). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|--------------------|----------------------|-----------------------------------|
| 1. | FMH-11195 | PFSR (FSR), CLS | MLB, TLB, RDM, ESR |
| 2. | JH 31601 | PFSR (FSR), RDM ,SDM | MLB, TLB, PFSR (C.ROT), CLS |
| 3. | JH 31555 | PFSR (FSR), MLB | TLB, CLS |
| 4. | CMH 10-477 | TLB, RDM, PFSR (FSR) | MLB, PFSR (C.ROT), CLS |
| 5. | P3491(X35B391) | RDM, CLS | MLB, TLB, BLSB, PFSR (FSR) |
| 6. | P3596(X35B396) | CLS, MLB | TLB, PFSR (FSR), RDM, ESR |
| 7. | LTH-22 | ESR, CLS | MLB, TLB, PFSR (C.ROT, FSR) |
| 8. | CP-802 | RDM, CLS | MLB, TLB, BLSB, PFSR (FSR), ESR |
| 9. | CMH 10-540 | PFSR (FSR), ESR | MLB, TLB, RDM, CLS |
| 10. | X35B390 | MLB, PFSR (FSR), CLS | TLB |
| 11. | CMH 09-464 | MLB, CLS | TLB, BLSB, PFSR (FSR), RDM, ESR |
| 12. | MCH-46 | MLB, PFSR (FSR), ESR | TLB, PFSR (C.ROT), RDM, CLS |
| 13. | S 6668 | MLB, PFSR (FSR), CLS | TLB, PFSR (C.ROT), RDM, ESR |
| 14. | HTMH 5106 | MLB, PFSR (FSR) | ESR, CLS |
| 15. | PFMH-97 I 57(AMAR) | PFSR (FSR), ESR | MLB, TLB, RDM, CLS |
| 16. | PMH 1 | PFSR (FSR), RDM | MLB, TLB, CLS |
| 17. | PMH 3 | MLB, PFSR (FSR) | TLB, BLSB, PFSR (C.ROT), RDM, CLS |

MPT VI. Disease screening of AVT I & AVT II (medium maturity) maize hybrids (Trial 76)

A total of 22 genotypes out of 22 tested were resistant/ moderately resistant to different diseases (Table 6). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|------------|----------------------|----------------------|
| 1. | KMH-25K-45 | MLB, ESR | TLB, PFSR (FSR) |
| 2. | NMH-1276 | MLB, PFSR (FSR), CLS | TLB |

| | | | |
|----|----------|--------------------------------|-----------------------------------|
| 3. | X35B403 | MLB, PFSR (FSR), CLS | TLB |
| 4. | S-6790 | TLB, PFSR (FSR), RDM, CLS | MLB, ESR |
| 5. | EHL-2211 | MLB, TLB, PFSR (FSR), RDM, CLS | PFSR (C.ROT), ESR |
| 6. | Bio 719 | MLB, PFSR (FSR) | TLB, BLSB, PFSR (C.ROT), RDM, CLS |
| 7. | EH-1974 | MLB, PFSR (FSR) | TLB, CLS |
| 8. | HM8 | PFSR (FSR), SDM | MLB, TLB, CLS |

MPT VII. Disease screening of AVT I & AVT II (early maturity) maize hybrids (Trial 77)

A total of 15 genotypes out of 22 tested were resistant/ moderately resistant to different diseaseS (Table 7). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|------------|----------------------|--|
| 1. | FH-3609 | PFSR (FSR), RDM | MLB, TLB, CLS |
| 2. | FH-3626 | MLB, RDM | TLB, PFSR (FSR), ESR, CLS |
| 3. | FH-3605 | MLB, PFSR (FSR), RDM | TLB, PFSR (C.ROT), ESR |
| 4. | CMH 10-484 | TLB, RDM | MLB, BLSB, PFSR (C.ROT, FSR), ESR, CLS |
| 5. | KMH-7021 | PFSR (FSR), CLS | MLB, TLB, RDM |
| 6. | CMH 10-531 | MLB, RDM, CLS | TLB, PFSR (FSR, C.ROT), ESR |
| 7. | EHL 162508 | MLB, PFSR (FSR), CLS | TLB, ESR, CLS |
| 8. | FH-3548 | MLB, PFSR (FSR), RDM | TLB, CLS |

MPT VIII. Disease screening of AVT I & II (extra early maturity) maize hybrids (Trial 78)

A total of 7 genotypes out of 11 tested were resistant /moderately resistant to different diseases (Table 8) given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|----------|-----------|----------------------------------|
| 1. | FH-3594 | RDM, CLS | MLB, PFSR (C.ROT, FSR), ESR |
| 2. | DH-238 | CLS | PFSR (FSR) |
| 3. | DH-262 | CLS | MLB, PFSR (FSR, C.ROT) |
| 4. | K-75 | PFSR(FSR) | MLB |
| 5. | FH-3556 | RDM, CLS | MLB, TLB, PFSR (C.ROT, FSR), ESR |
| 6. | FH-3558 | CLS | MLB, PFSR (FSR), RDM |
| 7. | FH-3555 | PFSR(FSR) | MLB, TLB, PFSR (C.ROT), RDM, CLS |

MPT IX. Disease screening of specialty corn hybrids

A total of 27 genotypes out of 31 tested were resistant/ moderately resistant to different diseases (Table 9). Promising ones with multiple resistance are given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|-----------|-----------------|-----------------------------|
| 1. | EHQ-64 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 2. | JH (QPM)3 | MLB, PFSR (FSR) | TLB, PFSR (C.ROT), ESR, CLS |

| | | | |
|----|--------------------|-----------------|-----------------------------|
| 3. | HQPM 1 | PFSR (FSR), CLS | MLB, TLB, ESR |
| 4. | Bajaura Sweet Corn | PFSR (FSR), CLS | MLB, TLB |
| 5. | Bisco Madhu | PFSR (FSR), CLS | MLB, PFSR (C.ROT) |
| 6. | WOSC | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 7. | CMH 11-658 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT), ESR |
| 8. | Vivek Hybrid-27 | PFSR (FSR), CLS | MLB, TLB |

MPT X. Screening of maize hybrids against cyst nematode (*Heterodera zae*) at Udaipur

Three hundred twenty one (321) maize entries belonging to different maturity groups of initial and advance trials were screened (Tables 1-9) against cyst nematode (*Heterodera zae*). Out of them fifteen entries viz.; IM8539, BH 41036, JH 12003, SAFAL X-2, CMH 10-488, BH 41150, JH 31600(JH 31627), KNMH-4010131, FH-3669, CMH 11-629, S 6668, CP 333, EH-1974, CMH 10-531 and K-75 exhibited moderately resistant reaction to *Heterodera zae*. Thirty two genotypes from specialty corn were screened and EHQ-64, HQPM 5 & CMH 11-659 were found moderately resistant to this nematode.

MPT XI. Disease screening of maize hybrids against major diseases

Twenty hybrids of private sector were evaluated against bacterial stalk rot, maydis leaf blight, curvularia leaf spot and banded leaf and sheath blight at Dhaulakuan centre. The disease reactions are given in the table 10.

Ten hybrids were evaluated against sorghum downy mildew at Mandya. The disease reaction is given in table 11.

MPT XII. Disease screening of maize inbred lines against maize diseases

(i) Disease screening of maize inbred lines against major diseases

All the 112 inbred lines tested were resistant/moderately resistant to different diseases (Table 12). Promising ones with multiple resistance are given below:

| S. No. | Genotype | Resistant | Moderately resistant |
|--------|--------------------------------|------------------------|-------------------------|
| 1. | HKI 1040-11-7 | PFSR (FSR), CLS | PFSR (C.ROT) |
| 2. | DMSC16-2 | PFSR (FSR), MLB, BLSB | TLB, PFSR (C.ROT) |
| 3. | DMRQPM 03-113 | TLB, PFSR (FSR), BLSB | MLB, RDM |
| 4. | Tempx Trop(H0)QPM-B-B-B-57-B-B | TLB, PFSR (FSR) | MLB, PFSR (C.ROT), CLS |
| 5. | V390 | MLB, CLS | PFSR (FSR), BLSB |
| 6. | BML13 | MLB, TLB, CLS | PFSR (FSR, C.ROT), BLSB |
| 7. | HKI 2-6-2-4 | TLB, PFSR (FSR), CLS | PFSR (C.ROT), BLSB |
| 8. | CLQ-RCYQ40 | TLB, PFSR (C.ROT, FSR) | MLB |

| | | | |
|-----|-----------------------------|----------------------------|-----------------------------------|
| 9. | HKI-2-6-2-4(1-2)-4 | TLB, PFSR (FSR) | MLB |
| 10. | G18seqcef74-2-1 | TLB, PFSR (C.ROT), RDM | PFSR (FSR), MLB, BLSB |
| 11. | CML161 | TLB, PFSR (FSR) | MLB, PFSR (C.ROT), BLSB |
| 12. | HKI1352-5-8-9 | PFSR(FSR),CLS, BLSB | MLB, TLB |
| 13. | HKI191-1-2-5 | MLB, CLS | TLB, PFSR (C.ROT, FSR), BLSB |
| 14. | HKI 164-7-6 x 161 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 15. | P72c1xBrazil 1177-2-2-1-B-B | PFSR (FSR), RDM, CLS, BLSB | MLB, TLB, PFSR (C.ROT) |
| 16. | CUBA 377 | MLB, TLB, CLS | PFSR (C.ROT, FSR), RDM, SDM, BLSB |
| 17. | CM 132 | TLB, PFSR (FSR) | PFSR (C.ROT), CLS |
| 18. | CML 451(P2) | TLB, PFSR (FSR), BLSB | MLB, RDM, CLS |
| 19. | CM123 | TLB, PFSR (FSR) | MLB, PFSR (C.ROT), CLS |
| 20. | CM 129 | CLS, PFSR (FSR) | TLB |
| 21. | Tempx Trop(H0)QPM-B-B-B-57 | RDM, CLS | MLB, TLB, PFSR (C.ROT), BLSB |
| 22. | CML 33 | MLB, TLB, PFSR (FSR), CLS | PFSR (C.ROT) |
| 23. | CM149 | MLB, TLB, PFSR (FSR) | PFSR (C.ROT), CLS, BLSB |
| 24. | BML15 | PFSR (FSR), RDM, CLS | MLB, TLB, PFSR (C.ROT), BLSB |
| 25. | EC 646012 | MLB, CLS | TLB, PFSR (C.ROT), RDM, BLSB |
| 26. | V 351 | MLB, CLS, PFSR(FSR) | - |
| 27. | CM202 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 28. | SC7-2-1-2-6-1 | MLB, PFSR (FSR), SDM, CLS | TLB, PFSR (C.ROT), BLSB |
| 29. | V334 | PFSR (FSR), CLS | MLB, TLB PFSR (C.ROT), BLSB |
| 30. | La Posta Seq C7-F10-3-1 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 31. | CM145 | TLB, CLS | MLB, SDM |
| 32. | CM128 | TLB, CLS, PFSR (FSR) | MLB |
| 33. | CML287 | CLS, PFSR (FSR) | TLB, BLSB |
| 34. | SC7-2-1-2-6 | PFSR (FSR), CLS | MLB, BLSB |
| 35. | CM105 | TLB, PFSR (FSR), CLS | MLB, PFSR (C.ROT) |
| 36. | V345 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 37. | BML 6 | TLB, PFSR (FSR), CLS | BLSB |

| | | | |
|-----|----------------------------------|--|-------------------------------|
| 38. | EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B | TLB, PFSR (C.ROT, FSR), RDM, CLS, BLSB | MLB |
| 39. | 42050-1 | MLB, PFSR (C.ROT, FSR) | TLB, BLSB |
| 40. | TS2TR1107 | MLB, PFSR (C.ROT, FSR), CLS | TLB, BLSB |
| 41. | BML5 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 42. | P72c1Xbrasil1177-2 | TLB, PFSR (C.ROT, FSR), RDM, CLS | MLB, BLSB |
| 43. | BML 7 | TLB, PFSR (FSR), CLS, BLSB | MLB, PFSR (C.ROT) |
| 44. | HKI163 | TLB, PFSR (FSR) | MLB, BLSB |
| 45. | SC PINK | RDM, PFSR (FSR) | TLB |
| 46. | HKI 226 | MLB, TLB, PFSR(FSR), CLS | PFSR (C.ROT) |
| 47. | P3C45SB-33-##-11 | CLS, BLSB | MLB, TLB, PFSR (C.ROT, FSR) |
| 48. | LTP 1 | CLS, PFSR (FSR), BLSB | MLB, TLB |
| 49. | WOSC | PFSR (FSR), CLS | TLB, PFSR (C.ROT) |
| 50. | SCF | CLS, PFSR (FSR), BLSB | MLB, PFSR (C.ROT) |
| 51. | EI-586-2 | MLB, PFSR (FSR) | TLB, CLS |
| 52. | HKI 164-3 (2-1)-1 | PFSR (FSR, C.ROT) | MLB, CLS |
| 53. | CM 500 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 54. | CM 501 | MLB, TLB, PFSR (FSR), CLS | BLSB, PFSR (C.ROT) |
| 55. | Temp. 'Trop High oil QPM | PFSR (FSR), RDM, CLS | MLB, TLB, PFSR (C.ROT), BLSB |
| 56. | CML321 | PFSR (FSR), CLS | MLB, TLB, PFSR (C.ROT) |
| 57. | HKI193-1 | PFSR (FSR) | TLB, PFSR (C.ROT), BLSB, CLS |
| 58. | CML3 | MLB, PFSR (FSR), CLS | PFSR (C.ROT) |
| 59. | HKI193-2-2-1 | PFSR (FSR) | TLB, PFSR (C.ROT), CLS |
| 60. | Gen 6033 | MLB, PFSR (FSR), RDM | PFSR (C.ROT), CLS |
| 61. | HKI-164-7-4-2 | PFSR(FSR),RDM, BLSB, CLS | MLB, TLB, PFSR (C.ROT) |
| 62. | WSCShrunken X MUS MADHU | PFSR (C.ROT), BLSB | MLB, TLB, PFSR (FSR) |
| 63. | EI-670-2 | MLB, TLB, PFSR (C.ROT), RDM | PFSR (FSR), BLSB |

(ii). Disease screening of maize inbred lines against MLB disease

Eight inbred lines out of 44 total lines tested were resistant to MLB (Table 13). Promising ones are DQL 506, DQL 564a, DQL 570, DQL 597, DQL 769, DQL 770, DQL 787 and DQL 788.

(iii). Disease screening of QPM lines against different diseases

Nine inbred lines out of 17 total lines tested were resistant/moderately resistant to different diseases (Table 14) given below:

| S.No. | Genotype | Resistant | Moderately resistant |
|-------|------------|-------------|------------------------|
| 1. | DQL-2008-1 | PFSR (FSR) | TLB |
| 2. | DQL-2010 | MLB | TLB, PFSR (C.ROT) |
| 3. | DQL-2015 | TLB | MLB, PFSR (C.ROT) |
| 4. | DQL-2024 | TLB | MLB |
| 5. | DQL-2025 | MLB, TLB | - |
| 6. | DQL-2028 | PFSR (FSR) | MLB, TLB, PFSR (C.ROT) |
| 7. | DQL-2038 | PFSR (FSR) | MLB, TLB, PFSR (C.ROT) |
| 8. | DQL-2048 | TLB | MLB, PFSR (C.ROT) |
| 9. | DQL-2071 | PFSR (FSR) | MLB, TLB, PFSR (C.ROT) |

(iv). Disease screening of maize genotypes against Post flowering stalk rots

A total of 50 inbred lines were screened (Table 15.) for Post flowering stalk rots at four hot spot locations i. e. Hyderabad, Ludhiana, Delhi and Udaipur under artificial inoculation conditions, of them following fourteen lines were found promising across the location by showing resistant reaction for PFSR.

- | | |
|--|-------------------------------|
| 1. TL02A-1184A-32-4 -1-1-1-1 | 8. North east 3-1 (N) - ⊗ -1 |
| 2. AF -04-B-5779-22-3-3-2-1-1 | 9. North east 4-2 (N) - ⊗-1 |
| 3. AF-04-B-5796-A - 7-1-2-2-1-1 | 10. North east 4-3 (N) - ⊗-1 |
| 4. CML 249-1-2-1-1 | 11. NEH (W) -2 (N) - ⊗-2 |
| 5. PFSR (Y)-C0-1-⊗-4-1-⊗-1-1-1-3-⊗-1-1-2 | 12. NEH (W) -3 (N) - ⊗-2 |
| 6. PFSR (Y)-C0-3-⊗-1-1-1 | 13. CML 433-2-1 |
| 7. Indimyt-300-B (B. G.)-2-⊗-1-1-1 | 14. North east 4-1 (N) - ⊗ -1 |

(v). Disease screening of inbred lines of maize genotypes against BLSB and RDM

A total of 27 inbred lines were screened (Table 16.) for BLSB at three hot spot locations i.e. Pantnagar, Udaipur and Delhi under artificial inoculation conditions, out of them Indimyt 300A, PFSR - R-9; PFSR - R3; BLSB N - 21-4-⊗-1; BLSB N - 21-6-⊗-1; BLSB N - 21-8-⊗-1 were promising by showing moderately resistant reaction (less than 2.9) whereas AF-04-B-5796-A- 7-1-1-3-1-1, Indimyt-345-2-1, BLSB N - 21-6-⊗-1, BLSB N - 21-7-⊗-1, PFSR (Y)-C1-A-B1 - 3-⊗-1-1 found resistant for RDM at Udaipur.

(vi). Disease screening of maize inbred lines against SDM disease at Mandya

Fifty six inbred lines were evaluated by Mandya centre against SDM. The disease reaction of lines is given in table 17.

(vii). Disease screening of maize inbred lines against TLB disease at Mandya

One hundred seventy five inbred lines were evaluated by Mandya centre against TLB. The disease reaction of lines is given in table 18 and 18A.

MPT XIII. Assessment of avoidable yield losses due to major diseases of maize

Assessment of yield losses due to major diseases of maize was assessed at following locations using paired plot technique with nine replications under artificially created epiphytotics (Tables 19- 24). The extent of yield losses due to location specific diseases is given below:

| S. No. | Genotypes | Disease | Location | Yield Losses (%) |
|--------|-----------------------|-------------------------------|-----------|------------------|
| 1. | Vivek hybrid 5 | TLB | Almora | 17.62 |
| 2. | Vivek QPM 9 | BLSB | Delhi | 13.21 |
| 3. | Pant Sankul Makka - 3 | BLSB | Pantnagar | 32.68 |
| 4. | 30V92 | PFSR (<i>M. phaseolina</i>) | Hyderabad | 21.04 |
| 5. | PMH 2 | PFSR (<i>M. phaseolina</i>) | Ludhiana | 12.00 |

MPT XIV. Occurrence of diseases (mean score) in trap nursery

Trap nursery trial was conducted to find out the occurrence of any new disease on maize at various locations i.e. Dholi, Karnal, Mandya, Udaipur, Pantnagar, Delhi, Hyderabad, Ludhiana, Coimbatore, Arabhavi and Almora (Table 25). Diseases recorded in these locations were MLB, TLB, ESR, BLSB, PFSR, RDM, SDM, CLS, Brown spot and C. RUST.

MPT XV. Survey and surveillance of maize diseases/cyst nematode**(i) Occurrence of maize diseases based on survey and surveillance 2013**

Maize disease survey and surveillance were undertaken in maize growing areas of Himachal Pradesh, Karnataka, Udaipur and Uttarakhand during the year *Kharif* 2013 (Table 26-29).

In Himachal Pradesh extensive surveys were conducted under this programme in maize growing areas of Mandi, Kullu and Bilaspur district. Major diseases of these areas are Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB) and Maydis leaf blight (MLB). BLSB was observed from moderate to severe incidence at Kullu and Bilaspur and severe at Mandi. TLB was observed moderate from Mandi and Bilaspur whereas it was from moderate to severe at Kullu. MLB was observed from low to moderate at Mandi and Kullu wherese from moderate to high at

Bilaspur. Brown spot and Curvularia was observed in low incidence at all the three locations.

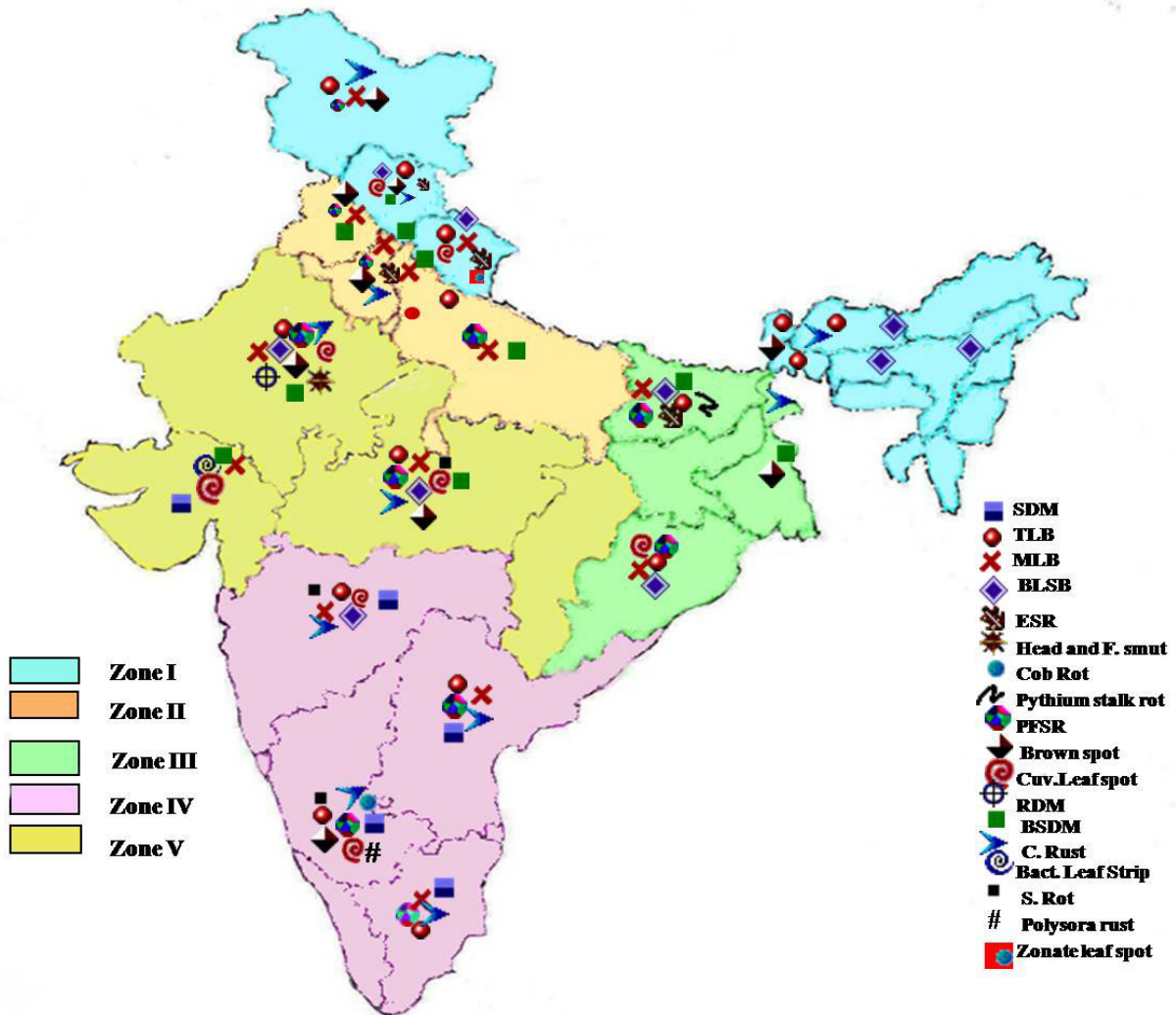
In Karnataka state five places i.e. Belgaum, Bagalkot, Dharwad, Gadak and Haveri comprising area of 34 hectares, was covered. The disease observations were taken at the vegetative as well as in grain filling stage on commercially adopted hybrids of that area. The most important disease of the region was foliar disease and intensity was severe in all surveyed district incidence of stalk rot was also observed in moderate intensity.

In Uttarakhand the surveys were conducted in five districts i. e. Haldwani, Kashipur, Sitarganj, Haridwar and Dehradun. A total of 130 fields were covered at grain filling stage, TLB (2.0 to 5.0) and MLB (2.0 to 4.0) were observed from moderate to severe incidence in all five districts whereas BLSB was recorded moderate from Haldwani (3.0), Sitarganj (3.0) and Kashipur (3.5). Curvularia leaf spot was observed from low to moderate (1.0 to 3.0) in these areas. During the survey BSDM was not observed in any areas except in traces in few places.

In Rajasthan, a total of 11 places i. e. Kaladwas, Kharwa chanda, Nai, Bujhda, Fateh nagar, Mavli, Dabok, Mangal war, Bheel khera, Kavita, Iswal, were surveyed covering a total of 42 fields. Local yellow and white maize were predominant in the areas. The most predominant disease of the areas are MLB, CLS and Brown spot with disease incidence 1 to 3.0; 1 to 3.0 and 1 to 2.0 respectively. Incidence of Downy mildew was not more than 30%. Post flowering stalk rot was observed from traces to severe whereas TLB and BLSB were observed from traces to moderate whereas BSDM was noticed 20 to 25%.

(ii) Occurrence of maize cyst nematode based on survey and surveillance 2013

Survey results showed that maximum nematode population (13.00 cyst/plant, 15.42 cyst/100 cc soil and 483.33 larvae/100 cc soil) was observed (Table 30) in samples collected from Rajsamand district with occurrence of 75.00 % while minimum nematode population (4.60 cyst/plant, 6.40 cyst/100 cc soil and 160.00 larvae/ 100 cc soil) was obtained from Banswara district of Rajasthan with 55.56 % occurrence. On the whole, occurrence of maize cyst nematode, *H. zae* was observed 68.00 per cent in maize growing areas.



Disease distribution map based on survey 2013 K

MPT XVI. Development of integrated management module for cyst nematode (*Heterodera zae*) in maize

(i) Effect of seed treatment with chemicals on maize cyst nematode (*Hetrodera zae*)

Efficacy of various chemicals *i.e.* acephate 75 SP, methomyl 40 SP, thiodicarb 50 WP and thiamethoxam 25 WG was tested as seed treatment against maize cyst nematode, *H. zae*. It was observed (Table 31) that acephate at 2% w/w was most effective in reducing the infection up to 33.32 - 36.54 % with maximum grain yield (32.97q/ha), an increase of 39.53 % over check (23.63 q/ha).

(ii) Integrated management of maize cyst nematode of maize through bioagents and botanicals

Three combinations of bio-agent and botanicals *i.e.* *Pochonia chlamydosporia* 10 g/kg seed + castor cake 2 q/ha; *Paecilomyces lilacinus* 10 g/kg seed + castor cake 2 q/ha and *P. chlamydosporia* 10 g/kg seed + neem cake 2 q/ha were tested to find out integrated nematode management module (Table 32). The combination *Pochonia chlamydosporia* 10 g/kg seed + castor cake 2 q/ha was found best among all by showing minimum nematode population (26.38 - 32.74 %), maximum grain yield (37.18 q/ha) with an increase of 42.73 % over check (26.05 q/ha).

MPT XVII. Follow up of QRT recommendations

(i) Molecular diversity among the isolates of *Peronosclerospora sorghi* causing SDM in maize

The genetic diversity among the isolates of *P. sorghi* was assessed through RAPD-PCR technique. The scoring data on presence (1) or absence (0) was subjected to create dendrogram by using NTSYS software. The results revealed (Table 33) that, the seven isolates are grouped into two main clusters (I and II) at 58 per cent of genetic dissimilarity. The Cluster I includes, isolates of (PS 4 & 5) suggesting very less genetic diversity (10 %) exists.

The RAPD-PCR profiles showed that the isolates were collected from diverse geographical regions are location specific and showing the moderate level of diversity at their genetic level.

(ii) Interaction of cyst nematode with PFSR pathogen, termite and stem borer on maize

The study on nematode interaction with PFSR and stem borer revealed that nematode population significantly decreased when maize cyst nematode, *Heterodera zae* interacts with PFSR pathogen, *Fusarium verticillioides* and stem borer, *Chilo partellus*. Reduction in nematode population was recorded 7.71-12.07 % with PFSR, 27.62- 31.33 % with stem borer and 34.08-37.37 % when

nematode interacts with both. Disease incidence (%) of PFSR was observed 2.57 in N+P and 2.80 in N+P+S. Leaf injury rating of *Chilo partellus* was recorded 5.29 in N+S and 6.38 in N+P+S. Maize yield significantly declined when nematode interacts with PFSR (10.24 %) , stem borer (14.59 %) and PFSR + stem borer (35.08 %) (Table 34).

Interaction of maize cyst nematode with termite on maize revealed that cyst and final nematode larvae population in soil reduced 24.73 % and 19.13 % , respectively with nematode + termite interaction over nematode alone (check). Maize yield was recorded 34.58 and 46.17 g/plant in N+T and check, respectively. Reduction in yield was observed 25.10 % in N+T over check (Table 35).

Table 1. Disease screening of IVT (late maturity) maize hybrids (Trial 61)

| S.No | Genotype | MLB (1-5) | | | | | Range | Av. Score | Reaction |
|------|--------------|-----------|------|------|------|------|---------|-----------|----------|
| | | DHOL | KARN | LUDH | DHOL | DELH | | | |
| 1 | IM8539 | 3.5 | 2.0 | 1.5 | 2.0 | 2.0 | 1.5-3.5 | 2.2 | MR |
| 2 | IM8562 | 3.5 | 2.0 | 2.5 | 2.5 | 2.0 | 2.0-3.5 | 2.5 | MR |
| 3 | IM8556 | 1.5 | 1.5 | 2.5 | 2.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 4 | IM8554 | 2.0 | 2.5 | 1.8 | 2.0 | 2.0 | 1.8-2.5 | 2.0 | R |
| 5 | II 8017 | 2.0 | 2.0 | 2.0 | 2.5 | 2.0 | 2.0-2.5 | 2.1 | MR |
| 6 | Siri 4546 | 1.0 | 2.0 | 2.3 | 2.0 | 3.0 | 1.0-2.3 | 2.0 | R |
| 7 | Siri 4527 | 1.5 | 1.5 | 1.8 | 2.0 | 2.0 | 1.5-2.0 | 1.8 | R |
| 8 | RMH-972 | 4.5 | 2.5 | 1.5 | 1.3 | 2.0 | 1.3-4.5 | 2.4 | MR |
| 9 | Super GA-105 | 2.5 | 2.0 | 2.3 | 1.3 | 2.5 | 1.3-2.5 | 2.1 | MR |
| 10 | Janahit | 2.5 | 2.5 | 2.0 | 1.5 | 2.0 | 1.5-2.5 | 2.1 | MR |
| 11 | HTMH-5202 | 3.0 | 3.0 | 3.3 | 3.0 | 3.0 | 3.0-3.3 | 3.0 | MR |
| 12 | HTMH-5404 | 2.0 | 1.5 | 2.0 | 2.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 13 | DMH-696 | 1.0 | 2.0 | 2.0 | 2.5 | 2.0 | 1.0-2.5 | 1.9 | R |
| 14 | FCH-11270 | 4.0 | 2.0 | 3.0 | 1.5 | 1.5 | 1.5-4.0 | 2.4 | MR |
| 15 | FCH-11273 | 2.5 | 3.0 | 2.0 | 2.5 | 3.0 | 2.0-3.0 | 2.6 | MR |
| 16 | VNR-31834 | 3.5 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0-3.5 | 2.4 | MR |
| 17 | VNR-31355 | 3.0 | 2.5 | 2.5 | 1.5 | 2.5 | 1.5-3.0 | 2.4 | MR |
| 18 | TMMH-807 | 1.5 | 1.5 | 1.8 | 1.3 | 2.0 | 1.3-2.0 | 1.6 | R |
| 19 | KMH-2811 | 1.5 | 2.5 | 2.3 | 1.0 | 2.0 | 1.0-2.5 | 1.9 | R |
| 20 | JKMH-4029 | 1.5 | 2.5 | 2.5 | 1.3 | 2.0 | 1.3-2.5 | 2.0 | R |
| 21 | DAS-MH-104 | 3.0 | 2.0 | 2.3 | 2.5 | 2.0 | 2.0-3.0 | 2.4 | MR |
| 22 | DAS-MH-105 | 2.0 | 1.5 | 1.5 | 1.3 | 2.0 | 1.3-2.0 | 1.7 | R |
| 23 | ASMH-777 | 1.0 | 2.0 | 1.8 | 3.5 | 1.5 | 1.5-3.5 | 2.0 | R |
| 24 | ASMH-333 | 1.0 | 2.0 | 1.5 | 2.0 | 2.0 | 1.5-2.0 | 1.7 | R |
| 25 | PRO-391 | 1.0 | 2.0 | 1.8 | 3.0 | 2.0 | 1.0-3.0 | 2.0 | R |
| 26 | KH-2192 | 2.5 | 2.5 | 3.0 | 2.5 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 27 | B-54 | 3.5 | 2.0 | 1.8 | 1.0 | 2.0 | 1.0-3.5 | 2.0 | R |
| 28 | polo | 4.0 | 2.5 | 2.8 | 2.0 | 3.5 | 2.0-4.0 | 3.0 | MR |
| 29 | CP-999 | 1.5 | 2.5 | 1.5 | 2.0 | 1.5 | 1.5-2.5 | 1.8 | R |
| 30 | GK-3155 | 1.0 | 3.0 | 2.5 | 3.0 | 2.0 | 1.0-3.0 | 2.3 | MR |

Contd.

| MLB (1-5) | | | | | | | | | |
|-----------|-------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | DHOL | KARN | LUDH | DHOL | DELH | Range | Av. Score | Reaction |
| 31 | GK-3158 | 1.5 | 2.0 | 1.5 | 2.5 | 2.0 | 1.5-2.5 | 1.9 | R |
| 32 | Super- 6768 | 3.5 | 2.5 | 2.0 | 2.0 | 2.0 | 2.0-3.5 | 2.4 | MR |
| 33 | Super-1177 | 1.5 | 3.0 | 1.5 | 2.5 | 2.0 | 1.5-3.0 | 2.1 | MR |
| 34 | NMH-1603 | 3.0 | 2.5 | 2.3 | 3.0 | 3.5 | 2.3-3.5 | 2.9 | MR |
| 35 | CMH 10-548 | 2.0 | 2.0 | 1.8 | 3.0 | 2.0 | 1.8-3.0 | 2.2 | MR |
| 36 | CMH 10-550 | 1.0 | 2.0 | 1.5 | 1.5 | 2.0 | 1.0-2.0 | 1.6 | R |
| 37 | CMH 11-583 | 1.0 | 1.0 | 1.8 | 1.3 | 2.0 | 1.0-2.0 | 1.4 | R |
| 38 | CMH 11-586 | 2.0 | 2.0 | 1.5 | 1.3 | 1.5 | 1.3-2.0 | 1.7 | R |
| 39 | CMH 11-591 | 1.0 | 2.0 | 1.5 | 1.3 | 2.0 | 1.0-2.0 | 1.6 | R |
| 40 | CMH 11-660 | 2.5 | 2.5 | 2.3 | 2.0 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 41 | BH 41036 | 1.5 | 2.5 | 2.5 | 3.5 | 2.5 | 1.5-3.5 | 2.5 | MR |
| 42 | BH 41127 | 4.5 | 3.0 | 2.3 | 3.0 | 2.5 | 2.3-4.5 | 3.0 | MR |
| 43 | BH 41642 | 3.5 | 2.0 | 1.8 | 1.3 | 2.0 | 1.3-3.5 | 2.1 | MR |
| 44 | BH 41151 | 1.5 | 2.0 | 2.3 | 3.0 | 2.5 | 1.5-3.0 | 2.3 | MR |
| 45 | GH-0945 | 2.0 | 3.0 | 2.8 | 2.5 | 2.5 | 2.0-3.0 | 2.6 | MR |
| 46 | GH -1102 | 1.5 | 2.0 | 2.8 | 3.0 | 3.0 | 1.5-3.0 | 2.5 | MR |
| 47 | GH -1001 | 4.0 | 2.0 | 2.3 | 3.5 | 2.5 | 2.0-4.0 | 2.9 | MR |
| 48 | GH-1043 | 3.0 | 3.0 | 2.8 | 3.0 | 2.0 | 2.0-3.0 | 2.8 | MR |
| 49 | DKC9133 | 1.0 | 1.5 | 1.8 | 3.0 | 2.0 | 1.0-3.0 | 1.9 | R |
| 50 | X35D612 | 1.5 | 2.5 | 2.3 | 2.0 | 2.5 | 1.5-2.5 | 2.2 | MR |
| 51 | X35D613 | 1.5 | 2.0 | 1.5 | 2.5 | 2.0 | 1.5-2.5 | 1.9 | R |
| 52 | X35D601 | 2.0 | 2.0 | 2.3 | 3.0 | 2.0 | 2.0-3.0 | 2.3 | MR |
| 53 | BB 032 | 2.0 | 1.5 | 2.0 | 2.0 | 2.0 | 1.5-2.0 | 1.9 | R |
| 54 | HTMH-5108 | 1.5 | 2.0 | 1.8 | 2.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 55 | PRO-392 | 2.0 | 2.0 | 2.3 | 2.5 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 56 | BRMH-1 | 2.5 | 2.5 | 2.3 | 2.5 | 2.0 | 2.0-2.5 | 2.4 | MR |
| 57 | REH-2012-3 | 2.5 | 2.0 | 2.3 | 3.0 | 2.0 | 2.0-3.0 | 2.4 | MR |
| 58 | JH 31623 | 3.0 | 2.5 | 1.5 | 2.0 | 2.0 | 1.5-3.0 | 2.2 | MR |

Contd.

| MLB (1-5) | | | | | | | | | |
|-----------|--------------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | DHOL | KARN | LUDH | DHOL | DELH | Range | Av. Score | Reaction |
| 59 | JH 31638 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 1.5-2.0 | 1.9 | R |
| 60 | JH 12010(JH 12019) | 2.5 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 61 | JH 12171 | 1.0 | 1.5 | 2.3 | 3.0 | 2.0 | 1.0-3.0 | 2.0 | R |
| 62 | JH 12003 | 1.5 | 2.5 | 1.8 | 2.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 63 | JH 12247 | 1.0 | 2.0 | 1.8 | 2.0 | 2.0 | 1.0-2.0 | 1.8 | R |
| 64 | HKH 421 | 3.5 | 1.5 | 2.3 | 3.0 | 2.0 | 1.5-3.5 | 2.5 | MR |
| 65 | PMH 1 (C) | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 1.5-2.0 | 1.7 | R |
| 66 | PMH 3 (C) | 1.0 | 1.5 | 1.5 | 1.5 | 2.5 | 1.0-2.5 | 1.6 | R |
| 67 | Seedtech-2324 (C) | 3.5 | 2.5 | 3.0 | 2.0 | 2.0 | 2.0-3.5 | 2.6 | MR |
| 68 | BIO-9681 (C) | 2.5 | 2.0 | 3.0 | 2.5 | 2.0 | 2.0-3.0 | 2.4 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.3 | - | 4.5 | 4.3-4.5 | 4.4 | S |

Contd.

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

| TLB (1-5) | | | | | | | | |
|-----------|--------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 1 | IM8539 | 1.5 | 1.5 | 4.3 | 2.1 | 1.5-4.3 | 2.4 | MR |
| 2 | IM8562 | 2.0 | 2.5 | 3.8 | 3.4 | 2.0-3.8 | 2.9 | MR |
| 3 | IM8556 | 1.3 | 3.0 | 4.0 | 3.3 | 1.3-4.0 | 2.9 | MR |
| 4 | IM8554 | 1.8 | 1.5 | 4.3 | 3.1 | 1.8-4.3 | 2.7 | MR |
| 5 | II 8017 | 0.8 | 3.0 | 4.8 | 2.1 | 0.8-4.8 | 2.7 | MR |
| 6 | Siri 4546 | 1.5 | 3.5 | 3.8 | 3.6 | 1.5-3.8 | 3.1 | MS |
| 7 | Siri 4527 | 1.0 | 1.5 | 3.3 | 2.5 | 1.0-3.3 | 2.0 | R |
| 8 | RMH-972 | 2.0 | 1.5 | 3.5 | 2.1 | 1.5-3.5 | 2.3 | MR |
| 9 | Super GA-105 | 2.0 | 2.0 | 3.8 | 1.9 | 1.9-3.8 | 2.4 | MR |
| 10 | Janahit | 1.8 | 1.0 | 2.0 | 2.1 | 1.0-2.1 | 1.7 | R |
| 11 | HTMH-5202 | 0.8 | 2.0 | 3.8 | 3.2 | 0.8-3.8 | 2.4 | MR |
| 12 | HTMH-5404 | 2.5 | 2.0 | 3.8 | 3.7 | 2.0-3.8 | 3.0 | MR |
| 13 | DMH-696 | 1.3 | 2.0 | 4.3 | 3.1 | 1.3-4.3 | 2.7 | MR |
| 14 | FCH-11270 | 0.8 | 1.0 | 3.8 | 2.1 | 0.8-3.8 | 1.9 | R |
| 15 | FCH-11273 | 2.5 | 1.0 | 3.5 | 2.0 | 1.0-3.5 | 2.2 | MR |
| 16 | VNR-31834 | 1.5 | 1.5 | 4.8 | 2.1 | 1.5-4.8 | 2.5 | MR |
| 17 | VNR-31355 | 2.3 | 2.0 | 3.5 | 3.7 | 2.0-3.7 | 2.9 | MR |
| 18 | TMMH-807 | 2.0 | 1.0 | 3.3 | 1.9 | 1.0-3.3 | 2.0 | R |
| 19 | KMH-2811 | 2.0 | 1.5 | 4.8 | 3.8 | 1.5-4.8 | 3.0 | MR |
| 20 | JKMH-4029 | 2.3 | 1.5 | 3.8 | 2.1 | 1.5-3.8 | 2.4 | MR |
| 21 | DAS-MH-104 | 1.5 | 1.0 | 3.5 | 2.1 | 1.0-3.5 | 2.0 | R |
| 22 | DAS-MH-105 | 2.0 | 1.5 | 3.8 | 2.0 | 1.5-3.8 | 2.3 | MR |
| 23 | ASMH-777 | 1.0 | 2.0 | 2.0 | 2.0 | 1.0-2.0 | 1.8 | R |
| 24 | ASMH-333 | 2.0 | 2.0 | 4.3 | 3.7 | 2.0-4.3 | 3.0 | MR |
| 25 | PRO-391 | 1.8 | 2.0 | 3.8 | 3.7 | 1.8-3.8 | 2.8 | MR |
| 26 | KH-2192 | 2.5 | 2.5 | 4.5 | 3.9 | 2.5-4.5 | 3.3 | MS |
| 27 | B-54 | 1.3 | 1.5 | 3.8 | 3.6 | 1.3-3.8 | 2.5 | MR |
| 28 | polo | 1.3 | 2.0 | 4.8 | 3.2 | 1.3-4.8 | 2.8 | MR |
| 29 | CP-999 | 2.0 | 1.0 | 3.3 | 3.1 | 1.0-3.3 | 2.4 | MR |
| 30 | GK-3155 | 2.0 | 2.0 | 4.3 | 2.9 | 2.0-4.3 | 2.8 | MR |

Contd.

| TLB (1-5) | | | | | | | | |
|-----------|-------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 31 | GK-3158 | 2.0 | 1.5 | 2.8 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 32 | Super- 6768 | 2.0 | 1.5 | 2.0 | 3.1 | 1.5-3.1 | 2.2 | MR |
| 33 | Super-1177 | 2.0 | 2.0 | 2.0 | 2.6 | 2.0-2.6 | 2.2 | MR |
| 34 | NMH-1603 | 2.5 | 1.5 | 4.3 | 3.0 | 1.5-4.3 | 2.8 | MR |
| 35 | CMH 10-548 | 2.0 | 1.5 | 4.8 | 2.7 | 1.5-4.8 | 2.8 | MR |
| 36 | CMH 10-550 | 2.0 | 1.5 | 3.8 | 2.9 | 1.5-3.8 | 2.6 | MR |
| 37 | CMH 11-583 | 2.0 | 1.5 | 2.0 | 3.0 | 1.5-3.0 | 2.1 | MR |
| 38 | CMH 11-586 | 2.0 | 1.5 | 2.0 | 3.0 | 1.5-3.0 | 2.1 | MR |
| 39 | CMH 11-591 | 1.5 | 1.5 | 2.8 | 3.1 | 1.5-3.1 | 2.2 | MR |
| 40 | CMH 11-660 | 2.0 | 1.5 | 2.0 | 2.1 | 1.5-2.1 | 1.9 | R |
| 41 | BH 41036 | 1.5 | 2.5 | 4.3 | 3.5 | 1.5-4.3 | 3.0 | MR |
| 42 | BH 41127 | 2.5 | 3.5 | 4.8 | 3.2 | 2.5-4.8 | 3.5 | MS |
| 43 | BH 41642 | 2.0 | 1.5 | 3.3 | 2.7 | 1.5-3.3 | 2.4 | MR |
| 44 | BH 41151 | 1.8 | 2.5 | 3.5 | 3.1 | 1.8-3.5 | 2.7 | MR |
| 45 | GH-0945 | 2.5 | 1.5 | 4.0 | 2.8 | 1.5-4.0 | 2.7 | MR |
| 46 | GH -1102 | 1.5 | 1.5 | 3.8 | 2.0 | 1.5-3.8 | 2.2 | MR |
| 47 | GH -1001 | 2.0 | 2.0 | 4.8 | 1.6 | 1.6-4.8 | 2.6 | MR |
| 48 | GH-1043 | 2.8 | 1.5 | 4.8 | 2.0 | 1.5-4.8 | 2.8 | MR |
| 49 | DKC9133 | 2.5 | 1.5 | 3.3 | 2.9 | 1.5-3.3 | 2.5 | MR |
| 50 | X35D612 | 2.3 | 2.0 | 3.8 | 2.5 | 2.0-3.8 | 2.6 | MR |
| 51 | X35D613 | 2.0 | 2.0 | 4.5 | 2.3 | 2.0-4.5 | 2.7 | MR |
| 52 | X35D601 | 1.8 | 2.0 | 3.8 | 2.9 | 1.8-3.8 | 2.6 | MR |
| 53 | BB 032 | 2.5 | 2.0 | 4.0 | 3.4 | 2.0-4.0 | 3.0 | MR |
| 54 | HTMH-5108 | 2.0 | 2.0 | 4.8 | 2.2 | 2.0-4.8 | 2.8 | MR |
| 55 | PRO-392 | 0.8 | 2.0 | 2.0 | 2.2 | 0.8-2.2 | 1.7 | R |
| 56 | BRMH-1 | 3.0 | 1.5 | 3.3 | 2.2 | 1.5-3.3 | 2.5 | MR |
| 57 | REH-2012-3 | 2.0 | 1.5 | 4.5 | 2.6 | 1.5-4.5 | 2.7 | MR |
| 58 | JH 31623 | 1.5 | 1.5 | 2.0 | 2.2 | 1.5-2.2 | 1.8 | R |

Contd.

| TLB (1-5) | | | | | | | | |
|-----------|--------------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 59 | JH 31638 | 2.0 | 1.5 | 3.0 | 2.3 | 1.5-3.0 | 2.2 | MR |
| 60 | JH 12010(JH 12019) | 3.0 | 2.0 | 4.5 | 3.5 | 2.0-4.5 | 3.3 | MS |
| 61 | JH 12171 | 3.0 | 1.5 | 2.5 | 2.5 | 1.5-3.0 | 2.4 | MR |
| 62 | JH 12003 | 2.5 | 1.5 | 3.8 | 2.2 | 1.5-3.8 | 2.5 | MR |
| 63 | JH 12247 | 3.0 | 3.0 | 4.3 | 3.9 | 3.0-4.3 | 3.5 | MS |
| 64 | HKH 421 | 1.3 | 2.0 | 3.8 | 2.3 | 1.3-3.8 | 2.3 | MR |
| 65 | PMH 1 (C) | 1.5 | 2.0 | 4.3 | 2.1 | 1.5-4.3 | 2.5 | MR |
| 66 | PMH 3 (C) | 2.5 | 2.0 | 3.0 | 2.5 | 2.0-3.0 | 2.5 | MR |
| 67 | Seedtech-2324 (C) | 2.0 | 1.5 | 3.8 | 2.0 | 1.5-3.8 | 2.3 | MR |
| 68 | BIO-9681 (C) | 3.0 | 1.5 | 3.8 | 2.5 | 1.5-3.8 | 2.7 | MR |
| RC | RES. CHECK | 4.5 | - | 1.3 | - | 1.3-4.5 | 2.9 | MR |
| SC | SUS. CHECK | - | 5.0 | 4.5 | - | 4.5-5.0 | 4.8 | S |

Contd.

RESISTANT CHECK- TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)

SUSCEPTIBLE CHECK- TLB : ALMORA(DHARI), MANDYA (219J)

| BLSB (1-5) | | | | | | | | |
|------------|--------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | PANT | DHOL | DELH | Range | Av. Score | Reaction |
| 1 | IM8539 | 2.5 | 4.0 | 3.5 | 2.5 | 2.5-4.0 | 3.1 | MS |
| 2 | IM8562 | 2.0 | 3.5 | 3.0 | 3.0 | 2.0-3.5 | 2.9 | MR |
| 3 | IM8556 | 3.0 | 4.0 | 2.0 | 3.0 | 2.0-4.0 | 3.0 | MR |
| 4 | IM8554 | 2.0 | 4.8 | 3.0 | 2.5 | 2.0-4.8 | 3.0 | MR |
| 5 | II 8017 | 3.0 | 3.8 | 2.0 | 3.0 | 2.0-3.8 | 3.0 | MR |
| 6 | Siri 4546 | 3.0 | 4.8 | 3.0 | 2.5 | 2.5-4.8 | 3.3 | MS |
| 7 | Siri 4527 | 2.0 | 4.3 | 3.0 | 3.0 | 2.0-4.3 | 3.0 | MR |
| 8 | RMH-972 | 3.0 | 4.0 | 3.0 | 2.5 | 2.5-4.0 | 3.1 | MSM |
| 9 | Super GA-105 | 2.0 | 4.5 | 1.5 | 2.5 | 1.5-4.5 | 2.6 | MR |
| 10 | Janahit | 2.0 | 3.8 | 3.0 | 2.5 | 2.0-3.8 | 2.8 | MR |
| 11 | HTMH-5202 | 3.0 | 4.3 | 3.0 | 3.0 | 3.0-4.3 | 3.3 | MS |
| 12 | HTMH-5404 | 2.0 | 4.5 | 3.0 | 3.0 | 2.0-4.5 | 3.1 | MS |
| 13 | DMH-696 | 3.0 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.5 | MS |
| 14 | FCH-11270 | 2.0 | 4.5 | 3.0 | 3.0 | 2.0-4.5 | 3.1 | MS |
| 15 | FCH-11273 | 2.0 | 4.3 | 2.0 | 3.0 | 2.0-4.3 | 2.8 | MR |
| 16 | VNR-31834 | 2.0 | 4.8 | 3.0 | 3.0 | 2.0-4.8 | 3.2 | MS |
| 17 | VNR-31355 | 2.0 | 4.8 | 3.0 | 3.0 | 2.0-4.8 | 3.2 | MS |
| 18 | TMMH-807 | 2.0 | 4.0 | 3.0 | 3.0 | 2.0-4.0 | 3.0 | MR |
| 19 | KMH-2811 | 2.5 | 3.8 | 3.0 | 3.0 | 2.5-3.8 | 3.1 | MS |
| 20 | JKMH-4029 | 2.5 | 4.8 | 2.5 | 3.5 | 2.5-4.8 | 3.0 | MR |
| 21 | DAS-MH-104 | 2.0 | 5.0 | 3.0 | 3.0 | 2.0-5.0 | 3.3 | MS |
| 22 | DAS-MH-105 | 2.0 | 5.0 | 2.0 | 2.5 | 2.0-5.0 | 2.9 | MR |
| 23 | ASMH-777 | 2.0 | 4.3 | NG | 2.5 | 2.0-4.3 | 2.9 | MR |
| 24 | ASMH-333 | 3.0 | 3.8 | 2.5 | 2.5 | 2.5-3.8 | 3.0 | MR |
| 25 | PRO-391 | 2.0 | 4.0 | 3.0 | 3.0 | 2.0-4.0 | 3.0 | MR |
| 26 | KH-2192 | 2.0 | 4.0 | 3.5 | 3.5 | 2.0-4.0 | 3.3 | MS |
| 27 | B-54 | 3.0 | 4.3 | 3.5 | 2.5 | 2.5-4.3 | 3.3 | MS |
| 28 | polo | 3.0 | 4.5 | 3.0 | 3.0 | 3.0-4.5 | 3.4 | MS |
| 29 | CP-999 | 3.0 | 4.5 | 3.0 | 2.5 | 2.5-4.5 | 3.3 | MS |
| 30 | GK-3155 | 3.0 | 4.5 | 2.5 | 3.5 | 2.5-4.5 | 3.4 | MS |

Contd.

| BLSB (1-5) | | | | | | | | |
|------------|-------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | PANT | DHOL | DELH | Range | Av. Score | Reaction |
| 31 | GK-3158 | 3.0 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.5 | MS |
| 32 | Super- 6768 | 2.5 | 4.3 | 3.0 | 3.0 | 2.5-4.3 | 3.2 | MS |
| 33 | Super-1177 | 2.0 | 4.3 | 2.5 | 3.5 | 2.0-4.3 | 3.0 | MR |
| 34 | NMH-1603 | 3.0 | 4.3 | 3.0 | 3.5 | 3.0-4.3 | 3.5 | MS |
| 35 | CMH 10-548 | 2.0 | 3.8 | 3.0 | 3.0 | 2.0-3.8 | 3.0 | MR |
| 36 | CMH 10-550 | 2.0 | 4.5 | 3.0 | 2.5 | 2.0-4.5 | 3.0 | MR |
| 37 | CMH 11-583 | 2.0 | 4.8 | 3.0 | 2.5 | 2.0-4.8 | 3.0 | MR |
| 38 | CMH 11-586 | 3.0 | 3.8 | 3.0 | 2.5 | 2.5-3.8 | 3.0 | MR |
| 39 | CMH 11-591 | 2.0 | 3.5 | 2.5 | 2.5 | 2.0-3.5 | 2.6 | MR |
| 40 | CMH 11-660 | 2.5 | 3.0 | 3.0 | 2.5 | 2.5-3.0 | 2.8 | MR |
| 41 | BH 41036 | 3.0 | 4.8 | 3.0 | 2.5 | 2.5-4.8 | 3.3 | MS |
| 42 | BH 41127 | 3.5 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.6 | MS |
| 43 | BH 41642 | 3.0 | 4.3 | 3.0 | 3.0 | 3.0-4.3 | 3.3 | MS |
| 44 | BH 41151 | 3.0 | 4.5 | 3.0 | 2.5 | 2.5-4.5 | 3.3 | MS |
| 45 | GH-0945 | 3.0 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.5 | MS |
| 46 | GH -1102 | 3.0 | 5.0 | 2.0 | 3.5 | 2.0-5.0 | 3.4 | MS |
| 47 | GH -1001 | 3.0 | 5.0 | NG | 3.0 | 3.0-5.0 | 3.7 | MS |
| 48 | GH-1043 | 3.0 | 5.0 | 3.5 | 3.5 | 3.0-5.0 | 3.8 | MS |
| 49 | DKC9133 | 3.0 | 4.0 | 3.0 | 2.5 | 2.5-4.0 | 3.1 | MS |
| 50 | X35D612 | 2.5 | 5.0 | 4.0 | 3.0 | 2.5-5.0 | 3.6 | MS |
| 51 | X35D613 | 3.0 | 3.8 | 3.0 | 2.5 | 2.5-3.8 | 3.1 | MS |
| 52 | X35D601 | 2.0 | 4.0 | 3.0 | 2.5 | 2.0-4.0 | 2.9 | MR |
| 53 | BB 032 | 3.0 | 4.3 | 2.5 | 2.5 | 2.5-4.3 | 3.0 | MR |
| 54 | HTMH-5108 | 3.0 | 4.5 | 3.0 | 3.0 | 3.0-4.5 | 3.4 | MR |
| 55 | PRO-392 | 3.5 | 4.0 | 4.0 | 2.3 | 2.3-4.0 | 3.4 | MS |
| 56 | BRMH-1 | 3.0 | 5.0 | 3.0 | 2.5 | 2.5-5.0 | 3.4 | MS |
| 57 | REH-2012-3 | 3.0 | 3.8 | 2.0 | 3.0 | 2.0-3.8 | 3.0 | MR |
| 58 | JH 31623 | 2.0 | 4.0 | 4.0 | 3.0 | 2.0-4.0 | 3.3 | MS |

Contd.

| BLSB (1-5) | | | | | | | | |
|------------|--------------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | PANT | DHOL | DELH | Range | Av. Score | Reaction |
| 59 | JH 31638 | 3.0 | 4.5 | 3.0 | 3.0 | 3.0-4.5 | 3.4 | MS |
| 60 | JH 12010(JH 12019) | 4.0 | 5.0 | 3.5 | 2.5 | 2.5-5.0 | 3.8 | MS |
| 61 | JH 12171 | 3.0 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.5 | MS |
| 62 | JH 12003 | 4.0 | 4.3 | 3.0 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 63 | JH 12247 | 3.0 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.2 | MS |
| 64 | HKH 421 | 3.0 | 4.8 | 3.5 | 2.5 | 2.5-4.8 | 3.5 | MS |
| 65 | PMH 1 (C) | 3.0 | 4.3 | 4.0 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 66 | PMH 3 (C) | 4.0 | 4.0 | 3.0 | 2.5 | 2.5-4.0 | 3.4 | MS |
| 67 | Seedtech-2324 (C) | 4.0 | 3.8 | 4.0 | 3.0 | 3.0-4.0 | 3.7 | MS |
| 68 | BIO-9681 (C) | 3.0 | 4.8 | 4.5 | 3.0 | 3.0-4.8 | 3.8 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 5.0 | 4.0 | 4.0 | 4.0-5.0 | 4.3 | S |

Contd.

SUSCEPTIBLE CHECK - BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501)

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | FSR (1-9) | | | |
|------|--------------|------------|------|-------------|---------|-----------|----------|------|----------|
| | | DHOL* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | IM8539 | 1.0 | 6.0 | 1.6 | 1.6-6.0 | 3.8 | MR | 3.3 | MR |
| 2 | IM8562 | 1.0 | 7.7 | 5.0 | 5.0-7.7 | 6.4 | MS | 3.2 | MR |
| 3 | IM8556 | 1.0 | 7.6 | 2.0 | 2.0-7.6 | 4.8 | MR | 4.0 | MR |
| 4 | IM8554 | 1.0 | 6.3 | 2.8 | 2.8-6.3 | 4.6 | MR | 3.2 | MR |
| 5 | II 8017 | 1.0 | 6.1 | 1.4 | 1.4-6.1 | 3.8 | MR | 4.9 | MR |
| 6 | Siri 4546 | 1.0 | 5.8 | 6.0 | 5.8-6.0 | 5.9 | MS | 7.0 | MS |
| 7 | Siri 4527 | 1.0 | 4.2 | 5.4 | 4.2-5.4 | 4.8 | MR | 6.3 | MS |
| 8 | RMH-972 | 1.0 | 6.9 | 3.3 | 3.3-6.9 | 5.1 | MS | 5.8 | MS |
| 9 | Super GA-105 | 2.0 | 7.5 | 5.2 | 5.2-7.5 | 6.4 | MS | 7.1 | S |
| 10 | Janahit | 1.0 | 6.8 | 5.1 | 5.1-6.8 | 6.0 | MS | 6.5 | MS |
| 11 | HTMH-5202 | 2.5 | 6.3 | 4.0 | 4.0-6.3 | 5.2 | MS | 8.0 | S |
| 12 | HTMH-5404 | 2.5 | 6.3 | 2.0 | 2.0-6.3 | 4.2 | MR | 5.6 | MS |
| 13 | DMH-696 | 1.0 | 6.2 | 6.1 | 6.1-6.2 | 6.2 | MS | 7.9 | S |
| 14 | FCH-11270 | 1.0 | 7.5 | 6.1 | 6.1-7.5 | 6.8 | MS | 3.2 | MR |
| 15 | FCH-11273 | 1.0 | 6.4 | 4.0 | 4.0-6.4 | 5.2 | MS | 5.2 | MS |
| 16 | VNR-31834 | 1.0 | 5.4 | 2.9 | 2.9-5.4 | 4.2 | MR | 4.2 | MR |
| 17 | VNR-31355 | 1.0 | 6.4 | 3.4 | 3.4-6.4 | 4.9 | MR | 4.8 | MR |
| 18 | TMMH-807 | 1.0 | 6.0 | 3.6 | 3.6-6.0 | 4.8 | MR | 4.2 | MR |
| 19 | KMH-2811 | 1.0 | 6.3 | 2.9 | 2.9-6.3 | 4.6 | MR | 5.8 | MS |
| 20 | JKMH-4029 | 1.0 | 5.9 | 2.6 | 2.6-5.9 | 4.3 | MR | 5.0 | MR |
| 21 | DAS-MH-104 | 2.5 | 6.6 | 6.0 | 6.0-6.6 | 6.3 | MS | 7.5 | S |
| 22 | DAS-MH-105 | 1.0 | 7.3 | 2.6 | 2.6-7.3 | 5.0 | MR | 4.5 | MR |
| 23 | ASMH-777 | 3.5 | 4.7 | 5.3 | 4.7-5.3 | 5.0 | MR | 3.7 | MR |
| 24 | ASMH-333 | 1.0 | 5.7 | 3.9 | 3.9-5.7 | 4.8 | MR | 5.4 | MS |
| 25 | PRO-391 | 3.0 | 6.5 | 5.2 | 5.2-6.5 | 5.9 | MS | 3.4 | MR |
| 26 | KH-2192 | 2.5 | 6.1 | 5.8 | 5.8-6.1 | 6.0 | MS | 3.6 | MR |
| 27 | B-54 | 1.0 | 5.7 | 5.5 | 5.5-5.7 | 5.6 | MS | 5.0 | S |
| 28 | polo | 1.0 | 6.1 | 4.6 | 4.6-6.1 | 5.3 | MS | 3.4 | MR |
| 29 | CP-999 | 1.0 | 7.8 | 5.2 | 5.2-7.8 | 6.5 | MS | 7.4 | S |
| 30 | GK-3155 | 1.3 | 6.3 | 4.4 | 4.4-6.3 | 5.4 | MS | 3.6 | MR |

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | FSR (1-9) | | | |
|------|-------------|------------|------|-------------|---------|-----------|----------|------|----------|
| | | DHOL* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 31 | GK-3158 | 1.0 | 8.1 | 6.1 | 6.1-8.1 | 7.1 | S | 5.4 | MS |
| 32 | Super- 6768 | 1.0 | 6.4 | 1.9 | 1.9-6.4 | 4.2 | MR | 4.5 | MR |
| 33 | Super-1177 | 1.0 | 6.6 | 2.3 | 2.3-6.6 | 4.5 | MR | 6.1 | MS |
| 34 | NMH-1603 | 1.0 | 7.3 | 6.4 | 6.4-7.3 | 6.9 | MS | 4.5 | MR |
| 35 | CMH 10-548 | 1.0 | 5.8 | 1.7 | 1.7-5.8 | 3.8 | MR | 3.6 | MR |
| 36 | CMH 10-550 | 1.0 | 6.4 | 5.2 | 5.2-6.4 | 5.8 | MS | 6.6 | MS |
| 37 | CMH 11-583 | 1.0 | 7.5 | 2.4 | 2.4-7.5 | 5.0 | MR | 3.5 | MR |
| 38 | CMH 11-586 | 1.0 | 5.7 | 1.9 | 1.9-5.7 | 3.8 | MR | 6.2 | MS |
| 39 | CMH 11-591 | 1.0 | 5.8 | 5.3 | 5.3-5.8 | 5.6 | MS | 5.1 | MS |
| 40 | CMH 11-660 | 1.0 | 6.0 | 1.5 | 1.5-6.0 | 3.8 | MR | 7.5 | S |
| 41 | BH 41036 | 2.0 | 6.4 | 5.1 | 5.1-6.4 | 5.8 | MS | 6.5 | MS |
| 42 | BH 41127 | 3.0 | 6.5 | 4.6 | 4.6-6.5 | 5.6 | MS | 6.5 | MS |
| 43 | BH 41642 | 5.0 | 7.2 | 4.0 | 4.0-7.2 | 5.6 | MS | 3.0 | R |
| 44 | BH 41151 | 1.0 | 5.8 | 3.3 | 3.3-5.8 | 4.6 | MR | 5.0 | MR |
| 45 | GH-0945 | 1.0 | 7.5 | 2.0 | 2.0-7.3 | 4.8 | MR | 4.0 | MR |
| 46 | GH -1102 | 1.0 | 6.3 | 4.9 | 4.9-6.3 | 5.6 | MS | 6.3 | MS |
| 47 | GH -1001 | 1.0 | 6.6 | 2.9 | 2.9-6.6 | 4.8 | MR | 8.6 | S |
| 48 | GH-1043 | 1.0 | 6.5 | 2.7 | 2.7-6.5 | 4.6 | MR | 6.2 | MS |
| 49 | DKC9133 | 3.0 | 4.7 | 3.4 | 3.4-4.7 | 4.0 | MR | 7.0 | MS |
| 50 | X35D612 | 3.0 | 6.7 | 5.7 | 5.7-6.7 | 6.2 | MS | 5.9 | MS |
| 51 | X35D613 | 2.0 | 6.6 | 6.0 | 6.0-6.6 | 6.3 | MS | 6.5 | MS |
| 52 | X35D601 | 1.0 | 6.1 | 6.5 | 6.1-6.5 | 6.3 | MS | 6.2 | MS |
| 53 | BB 032 | 1.0 | 7.4 | 6.8 | 6.8-7.4 | 7.1 | S | 6.2 | MS |
| 54 | HTMH-5108 | 1.0 | 6.7 | 4.0 | 4.0-6.7 | 5.4 | MS | 6.2 | MS |
| 55 | PRO-392 | 1.0 | 7.0 | 3.8 | 3.8-7.0 | 5.4 | MS | 6.8 | MS |
| 56 | BRMH-1 | 1.0 | 6.6 | 6.4 | 6.4-6.6 | 6.5 | MS | 4.1 | MR |
| 57 | REH-2012-3 | 1.0 | 6.9 | 3.1 | 3.1-6.9 | 5.0 | MR | 5.4 | MS |
| 58 | JH 31623 | 1.0 | 5.5 | 5.5 | 5.5-5.5 | 5.5 | MS | 3.2 | MR |

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|------|--------------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHOL* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 59 | JH 31638 | 1.0 | 5.4 | 3.2 | 3.2-5.4 | 4.3 | MR | 4.6 | MR |
| 60 | JH 12010(JH 12019) | 1.0 | 7.4 | 5.3 | 5.3-7.4 | 6.4 | MS | 3.7 | MR |
| 61 | JH 12171 | 2.0 | 6.3 | 2.7 | 2.7-6.3 | 4.5 | MR | 7.2 | S |
| 62 | JH 12003 | 2.5 | 6.8 | 6.3 | 6.3-6.8 | 6.6 | MS | 6.6 | MS |
| 63 | JH 12247 | 1.0 | 6.0 | 2.9 | 2.9-6.0 | 4.5 | MR | 4.5 | MR |
| 64 | HKH 421 | 1.3 | 7.9 | 3.0 | 3.0-7.9 | 5.5 | MS | 7.8 | S |
| 65 | PMH 1 (C) | 1.0 | 5.9 | 3.4 | 3.4-5.9 | 4.7 | MR | 8.0 | S |
| 66 | PMH 3 (C) | 1.0 | 7.3 | 4.6 | 4.6-7.3 | 6.0 | MS | 8.4 | S |
| 67 | Seedtech-2324 (C) | 1.0 | 5.8 | 6.1 | 5.8-6.1 | 6.0 | MS | 8.0 | S |
| 68 | BIO-9681 (C) | 1.0 | 7.4 | 5.7 | 5.7-7.4 | 6.6 | MS | 7.3 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 7.1 | 6.7 | 6.7-7.1 | 6.9 | MS | 7.9 | S |

Contd.

* Data not considered due to low disease pressure

SUSCEPTIBLE CHECK - C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92)
 - **FSR**: UDAIPUR (SURYA), MANDYA(CM 500)

| S.No | Genotype | C.RUST (1-5) | | RDM (%) | | SDM (%) | |
|------|--------------|--------------|-------|----------|-------|---------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| 1 | IM8539 | 1.9 | 18.2 | MR | 88.0 | 5.5 | S |
| 2 | IM8562 | 2.1 | 77.3 | S | 95.7 | 12.1 | S |
| 3 | IM8556 | 1.9 | 19.2 | MR | 71.5 | 9.4 | S |
| 4 | IM8554 | 1.9 | 19.0 | MR | 25.9 | 16.8 | MS |
| 5 | II 8017 | 2.1 | 50.0 | MS | 98.5 | 0.0 | S |
| 6 | Siri 4546 | 2.1 | 83.3 | S | 100.0 | 4.6 | S |
| 7 | Siri 4527 | 2.1 | 30.4 | MS | 86.0 | 0.0 | S |
| 8 | RMH-972 | 2.1 | 27.3 | MS | 61.4 | 0.0 | S |
| 9 | Super GA-105 | 1.6 | 86.4 | S | 94.4 | 0.0 | S |
| 10 | Janahit | 1.4 | 45.8 | MS | 94.4 | 0.0 | S |
| 11 | HTMH-5202 | 1.7 | 100.0 | S | 100.0 | 0.0 | S |
| 12 | HTMH-5404 | 1.8 | 17.0 | MR | 86.2 | 5.4 | S |
| 13 | DMH-696 | 1.5 | 32.0 | MS | 61.2 | 6.1 | S |
| 14 | FCH-11270 | 1.5 | 37.5 | MS | 78.1 | 4.6 | S |
| 15 | FCH-11273 | 1.7 | 32.0 | MS | 93.9 | 0.0 | S |
| 16 | VNR-31834 | 2.2 | 39.0 | MS | 76.7 | 4.2 | S |
| 17 | VNR-31355 | 2.4 | 42.0 | MS | 95.5 | 4.6 | S |
| 18 | TMMH-807 | 2.1 | 21.0 | MR | 37.0 | 4.8 | MS |
| 19 | KMH-2811 | 1.9 | 83.0 | S | 98.5 | 0.0 | S |
| 20 | JKMH-4029 | 1.8 | 57.0 | S | 95.5 | 11.3 | S |
| 21 | DAS-MH-104 | 1.2 | 61.0 | S | 95.7 | 0.0 | S |
| 22 | DAS-MH-105 | 1.9 | 31.0 | MS | 70.1 | 0.0 | S |
| 23 | ASMH-777 | 2.2 | 41.0 | MS | 92.9 | 15.6 | S |
| 24 | ASMH-333 | 1.7 | 44.0 | MS | 98.8 | 23.2 | S |
| 25 | PRO-391 | 1.4 | 50.0 | MS | 94.3 | 8.5 | S |
| 26 | KH-2192 | 1.7 | 83.0 | S | 100.0 | 13.8 | S |
| 27 | B-54 | 2.0 | 29.0 | MS | 24.4 | 21.2 | MR |
| 28 | polo | 2.0 | 79.0 | S | 90.3 | 0.0 | S |
| 29 | CP-999 | 1.9 | 65.0 | S | 89.7 | 6.1 | S |
| 30 | GK-3155 | 2.1 | 26.0 | MS | 98.5 | 19.4 | S |

Contd.

| S.No | Genotype | C.RUST (1-5) | | RDM (%) | | SDM (%) | |
|------|-------------|--------------|-------|----------|-------|---------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| 31 | GK-3158 | 2.1 | 81.0 | S | 87.2 | 6.8 | S |
| 32 | Super- 6768 | 1.9 | 40.0 | MS | 100.0 | 0.0 | S |
| 33 | Super-1177 | 1.7 | 61.0 | S | 85.7 | 13.8 | S |
| 34 | NMH-1603 | 1.8 | 60.0 | S | 94.1 | 5.3 | S |
| 35 | CMH 10-548 | 1.5 | 50.0 | MS | 92.2 | 15.8 | S |
| 36 | CMH 10-550 | 1.7 | 35.0 | MS | 82.4 | 0.0 | S |
| 37 | CMH 11-583 | 1.4 | 39.0 | MS | 89.6 | 4.2 | S |
| 38 | CMH 11-586 | 1.8 | 55.0 | MS | 100.0 | 9.5 | S |
| 39 | CMH 11-591 | 1.7 | 32.0 | MS | 92.7 | 5.3 | S |
| 40 | CMH 11-660 | 1.7 | 100.0 | S | 98.4 | 9.5 | S |
| 41 | BH 41036 | 1.9 | 100.0 | S | 100.0 | 23.2 | S |
| 42 | BH 41127 | 1.5 | 0.0 | R | 100.0 | 17.7 | S |
| 43 | BH 41642 | 1.4 | 55.0 | S | 91.7 | 5.8 | S |
| 44 | BH 41151 | 1.9 | 65.0 | S | 100.0 | 0.0 | S |
| 45 | GH-0945 | 1.3 | 77.0 | S | 94.7 | 5.7 | S |
| 46 | GH -1102 | 1.1 | 41.0 | MS | 100.0 | 5.7 | S |
| 47 | GH -1001 | 1.7 | 81.0 | S | 86.1 | 0.0 | S |
| 48 | GH-1043 | 1.9 | 58.0 | S | 100.0 | 14.5 | S |
| 49 | DKC9133 | 1.3 | 69.0 | S | 96.0 | 7.1 | S |
| 50 | X35D612 | 1.5 | 73.0 | S | 100.0 | 4.2 | S |
| 51 | X35D613 | 1.5 | 28.0 | MS | 100.0 | 7.3 | S |
| 52 | X35D601 | 1.7 | 38.0 | MS | 64.3 | 0.0 | S |
| 53 | BB 032 | 1.1 | 30.0 | MS | 100.0 | 10.9 | S |
| 54 | HTMH-5108 | 2.0 | 58.0 | S | 67.5 | 5.3 | S |
| 55 | PRO-392 | 1.7 | 33.0 | MS | 100.0 | 0.0 | S |
| 56 | BRMH-1 | 2.0 | 55.0 | S | 48.9 | 4.7 | MS |
| 57 | REH-2012-3 | 3.4 | 4.0 | R | 86.2 | 0.0 | S |
| 58 | JH 31623 | 1.9 | 50.0 | MS | 91.9 | 21.8 | S |

Contd.

| S.No | Genotype | C.RUST (1-5) | RDM (%) | | SDM (%) | | |
|------|--------------------|--------------|---------|----------|---------|-------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| 59 | JH 31638 | 1.9 | 77.0 | S | 63.5 | 22.5 | S |
| 60 | JH 12010(JH 12019) | 2.0 | 8.0 | R | 100.0 | 0.0 | S |
| 61 | JH 12171 | 1.9 | 35.0 | MS | 68.9 | 0.0 | S |
| 62 | JH 12003 | 1.7 | 58.0 | S | 86.9 | 8.6 | S |
| 63 | JH 12247 | 1.9 | 92.0 | S | 100.0 | 5.3 | S |
| 64 | HKH 421 | 1.4 | 19.0 | MR | 100.0 | 17.7 | S |
| 65 | PMH 1 (C) | 1.2 | 36.0 | MS | 60.2 | 6.6 | S |
| 66 | PMH 3 (C) | 2.0 | 56.0 | S | 100.0 | 14.5 | S |
| 67 | Seedtech-2324 (C) | 1.9 | 60.0 | S | 97.1 | 0.0 | S |
| 68 | BIO-9681 (C) | 1.9 | 64.0 | S | 89.7 | 10.6 | S |
| RC | RES. CHECK | - | - | - | 17.2 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 90.0 | S |

* Data not considered due to low disease pressure

Contd.

RESISTANT CHECK- SDM: MANDYA (NAH-1137)

SUCEPTIBLE CHECK- RDM: UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|--------------|---------|------|------------|-----------|----------|
| | | PANT | DHOL | Range | | |
| 1 | IM8539 | 20.8 | 57.7 | 20.8- 57.7 | 39.3 | MS |
| 2 | IM8562 | 15.4 | 30.0 | 15.4-30.0 | 22.7 | MR |
| 3 | IM8556 | 0.0 | 36.8 | 0.0-36.8 | 18.4 | MR |
| 4 | IM8554 | 7.7 | 50.0 | 7.7-50.0 | 28.9 | MS |
| 5 | II 8017 | 17.5 | 35.3 | 17.5-35.3 | 26.4 | MS |
| 6 | Siri 4546 | 9.4 | 41.2 | 9.4- 41.2 | 25.3 | MS |
| 7 | Siri 4527 | 10.7 | 30.8 | 10.7-30.8 | 20.8 | MR |
| 8 | RMH-972 | 20.8 | 90.0 | 20.8-90.0 | 55.4 | S |
| 9 | Super GA-105 | 27.9 | 11.1 | 11.1-27.9 | 19.5 | MR |
| 10 | Janahit | 19.4 | 57.1 | 19.4-57.1 | 38.3 | MS |
| 11 | HTMH-5202 | 49.5 | 50.0 | 49.5-50.0 | 49.8 | MS |
| 12 | HTMH-5404 | 76.2 | 75.0 | 75.0-76.2 | 75.6 | S |
| 13 | DMH-696 | 52.2 | 46.7 | 46.7-52.2 | 49.5 | MS |
| 14 | FCH-11270 | 41.1 | 84.6 | 41.1-84.6 | 62.9 | S |
| 15 | FCH-11273 | 0.0 | 41.7 | 0.0-41.7 | 20.9 | MR |
| 16 | VNR-31834 | 26.8 | 53.8 | 26.8-53.8 | 40.3 | MS |
| 17 | VNR-31355 | 54.7 | 23.1 | 23.1-54.7 | 38.9 | MS |
| 18 | TMMH-807 | 18.2 | 66.7 | 18.2-66.7 | 42.5 | MS |
| 19 | KMH-2811 | 36.4 | 62.5 | 36.4-62.5 | 49.5 | MS |
| 20 | JKMH-4029 | 26.5 | 72.7 | 26.5-72.7 | 49.6 | MS |
| 21 | DAS-MH-104 | 12.5 | 9.1 | 9.1-12.5 | 10.8 | MR |
| 22 | DAS-MH-105 | 72.9 | 15.4 | 15.4-72.9 | 44.2 | MS |
| 23 | ASMH-777 | 20.8 | 36.4 | 20.8-36.4 | 28.6 | MS |
| 24 | ASMH-333 | 21.1 | 60.0 | 21.1-60.0 | 40.6 | MS |
| 25 | PRO-391 | 17.0 | 70.0 | 17.0-70.0 | 43.5 | MS |
| 26 | KH-2192 | 48.6 | 42.9 | 42.9-48.6 | 45.8 | MS |
| 27 | B-54 | 39.3 | 31.3 | 31.3-39.3 | 35.3 | MS |
| 28 | polo | 48.1 | 40.0 | 40.0-48.1 | 44.1 | MS |
| 29 | CP-999 | 10.0 | 40.9 | 10.0-40.9 | 25.5 | MS |
| 30 | GK-3155 | 50.0 | 71.4 | 50.0-71.4 | 60.7 | S |

Contd.

| S.No | Genotype | ESR (%) | | Range | Av. Score | Reaction |
|------|-------------|---------|------|-----------|-----------|----------|
| | | PANT | DHOL | | | |
| 31 | GK-3158 | 33.3 | 20.0 | 20.0-33.3 | 26.7 | MS |
| 32 | Super- 6768 | 41.4 | 63.2 | 41.4-63.2 | 52.3 | S |
| 33 | Super-1177 | 10.7 | 50.0 | 10.7-50.0 | 30.4 | MS |
| 34 | NMH-1603 | 20.0 | 53.3 | 20.0-53.3 | 36.7 | MS |
| 35 | CMH 10-548 | 7.5 | 40.0 | 7.5-40.0 | 23.8 | MR |
| 36 | CMH 10-550 | 0.0 | 50.0 | 0.0-50.0 | 25.0 | MR |
| 37 | CMH 11-583 | 26.4 | 54.5 | 26.4-54.4 | 40.5 | MS |
| 38 | CMH 11-586 | 36.1 | 90.9 | 36.1-90.9 | 63.5 | S |
| 39 | CMH 11-591 | 0.0 | 56.3 | 0.0-56.3 | 28.2 | MS |
| 40 | CMH 11-660 | 9.4 | 27.3 | 9.4-27.3 | 18.4 | MR |
| 41 | BH 41036 | 35.4 | 41.7 | 35.4-41.7 | 38.6 | MS |
| 42 | BH 41127 | 47.9 | 66.7 | 47.9-66.7 | 57.3 | S |
| 43 | BH 41642 | 22.2 | 0.0 | 0.0-22.2 | 11.1 | MR |
| 44 | BH 41151 | 30.0 | 54.5 | 30.0-54.5 | 42.3 | MS |
| 45 | GH-0945 | 47.8 | 44.4 | 44.4-47.8 | 46.1 | MS |
| 46 | GH -1102 | 46.4 | 40.0 | 40.0-46.4 | 43.2 | MS |
| 47 | GH -1001 | 33.3 | 64.3 | 33.3-64.3 | 48.8 | MS |
| 48 | GH-1043 | 51.0 | 61.9 | 51.0-61.9 | 56.5 | S |
| 49 | DKC9133 | 18.0 | 13.6 | 13.6-18.0 | 15.8 | MR |
| 50 | X35D612 | 32.7 | 69.2 | 32.7-69.2 | 51.0 | S |
| 51 | X35D613 | 15.3 | 37.5 | 15.3-37.5 | 26.4 | MS |
| 52 | X35D601 | 8.3 | 62.5 | 8.3-62.5 | 35.4 | MS |
| 53 | BB 032 | 23.1 | 84.6 | 23.1-84.6 | 53.9 | S |
| 54 | HTMH-5108 | 7.2 | 54.2 | 7.2-54.2 | 30.7 | MS |
| 55 | PRO-392 | 73.6 | 47.4 | 47.4-73.6 | 60.5 | S |
| 56 | BRMH-1 | 29.9 | 25.0 | 25.0-29.9 | 27.5 | MS |
| 57 | REH-2012-3 | 35.9 | 57.9 | 35.9-57.9 | 46.9 | MS |
| 58 | JH 31623 | 0.0 | 69.6 | 0.0-69.6 | 34.8 | MS |

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|--------------------|---------|------|-----------|-----------|----------|
| | | PANT | DHOL | Range | | |
| 59 | JH 31638 | 10.0 | 17.6 | 10.0-17.6 | 13.8 | MR |
| 60 | JH 12010(JH 12019) | 38.3 | 36.4 | 36.4-38.3 | 37.4 | MS |
| 61 | JH 12171 | 16.7 | 59.1 | 16.7-59.1 | 37.9 | MS |
| 62 | JH 12003 | 0.0 | 45.5 | 0.0-45.5 | 22.8 | MR |
| 63 | JH 12247 | 72.4 | 59.1 | 59.1-72.4 | 65.8 | S |
| 64 | HKH 421 | 33.9 | 31.6 | 31.6-33.9 | 32.8 | MS |
| 65 | PMH 1 (C) | 48.5 | 17.6 | 17.6-48.5 | 33.1 | MS |
| 66 | PMH 3 (C) | 22.2 | 27.3 | 22.2-27.3 | 24.8 | MR |
| 67 | Seedtech-2324 (C) | 20.7 | 40.0 | 20.7-40.0 | 30.4 | MS |
| 68 | BIO-9681 (C) | 23.6 | 20.0 | 20.0-23.6 | 21.8 | MR |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 69.9 | 57.9 | 69.9-57.9 | 63.9 | MS |

Contd.

SUSEPTIBLE CHECK- ESR: DHAULAKUAN (DAC 7074), PANTNAGAR (CM600)

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|------|--------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHOL | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | IM8539 | 3.0 | 1.3 | 1.3-3.0 | 2.1 | MR | 3--8 | MR |
| 2 | IM8562 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR | 5--12 | S |
| 3 | IM8556 | 2.3 | 1.5 | 1.5-2.3 | 1.9 | R | 8--16 | S |
| 4 | IM8554 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 10--19 | S |
| 5 | II 8017 | 1.8 | 3.0 | 1.8-3.0 | 2.4 | MR | 17-27 | S |
| 6 | Siri 4546 | 1.5 | 1.5 | 1.5-1.5 | 1.5 | R | 21-32 | S |
| 7 | Siri 4527 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 15-23 | S |
| 8 | RMH-972 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 11--20 | S |
| 9 | Super GA-105 | 3.3 | 4.0 | 3.3-4.0 | 3.6 | MS | 23-35 | S |
| 10 | Janahit | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R | 21-30 | S |
| 11 | HTMH-5202 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 20-28 | S |
| 12 | HTMH-5404 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 7--13 | S |
| 13 | DMH-696 | 2.8 | 1.5 | 1.5-2.8 | 2.1 | MR | 23-32 | S |
| 14 | FCH-11270 | 2.3 | 2.5 | 2.3-2.5 | 2.4 | MR | 15-23 | S |
| 15 | FCH-11273 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR | 5--12 | S |
| 16 | VNR-31834 | 3.5 | 2.5 | 2.5-3.5 | 3.0 | MR | 20-29 | S |
| 17 | VNR-31355 | 3.3 | 2.0 | 2.0-3.3 | 2.6 | MR | 19-28 | S |
| 18 | TMMH-807 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 14-21 | S |
| 19 | KMH-2811 | 3.3 | 2.5 | 2.5-3.3 | 2.9 | MR | 15-24 | S |
| 20 | JKMH-4029 | 3.5 | 1.3 | 1.3-3.5 | 2.4 | MR | 18-25 | S |
| 21 | DAS-MH-104 | 3.0 | 1.3 | 1.3-3.0 | 2.1 | MR | 28-38 | S |
| 22 | DAS-MH-105 | 3.0 | 1.3 | 1.3-3.0 | 2.1 | MR | 20-27 | S |
| 23 | ASMH-777 | 1.0 | 2.0 | 1.0-2.0 | 1.5 | R | 9--15 | S |
| 24 | ASMH-333 | 1.0 | 1.5 | 1.0-1.5 | 1.3 | R | 6--12 | S |
| 25 | PRO-391 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR | 8--16 | S |
| 26 | KH-2192 | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R | 7--14 | S |
| 27 | B-54 | 2.0 | 1.3 | 1.3-2.0 | 1.6 | R | 19-28 | S |
| 28 | polo | 1.8 | 3.0 | 1.8-3.0 | 2.4 | MR | 9--17 | S |
| 29 | CP-999 | 1.5 | 1.3 | 1.3-1.5 | 1.4 | R | 8--13 | S |
| 30 | GK-3155 | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R | 20-31 | S |

Contd.

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|------|-------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHOL | Range | Av. Score | Reaction | UDAI | Reaction |
| 31 | GK-3158 | 1.8 | 1.3 | 1.3-1.8 | 1.5 | R | 11--19 | S |
| 32 | Super- 6768 | 1.0 | 1.5 | 1.0-1.5 | 1.3 | R | 32-37 | S |
| 33 | Super-1177 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 10--18 | S |
| 34 | NMH-1603 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 8--14 | S |
| 35 | CMH 10-548 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 17-26 | S |
| 36 | CMH 10-550 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 7--16 | S |
| 37 | CMH 11-583 | 3.8 | 2.0 | 2.0-3.8 | 2.9 | MR | 10--20 | S |
| 38 | CMH 11-586 | 3.8 | 3.5 | 3.5-3.8 | 3.6 | MS | 9--15 | S |
| 39 | CMH 11-591 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 6--13 | S |
| 40 | CMH 11-660 | 3.3 | 2.0 | 2.0-3.3 | 2.6 | MR | 8--17 | S |
| 41 | BH 41036 | 3.3 | 4.0 | 3.3-4.0 | 3.6 | MS | 4--9 | MR |
| 42 | BH 41127 | 3.3 | 4.0 | 3.3-4.0 | 3.6 | MS | 8--14 | S |
| 43 | BH 41642 | 3.3 | - | 3.3 | 3.3 | MS | 10--19 | S |
| 44 | BH 41151 | 4.0 | 2.5 | 2.5-4.0 | 3.3 | MS | 15-27 | S |
| 45 | GH-0945 | 3.5 | 1.3 | 1.3-3.5 | 2.4 | MR | 14-23 | S |
| 46 | GH -1102 | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 22-33 | S |
| 47 | GH -1001 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 24-36 | S |
| 48 | GH-1043 | 2.3 | 2.0 | 2.0-2.3 | 2.1 | MR | 16-25 | S |
| 49 | DKC9133 | 1.3 | 2.5 | 1.3-2.5 | 1.9 | R | 16-Sep | S |
| 50 | X35D612 | 0.8 | 2.0 | 0.8-2.0 | 1.4 | R | 7--15 | S |
| 51 | X35D613 | 0.8 | 3.0 | 0.8-3.0 | 1.9 | R | 21-31 | S |
| 52 | X35D601 | 1.8 | 3.0 | 1.8-3.0 | 2.4 | MR | 6--14 | S |
| 53 | BB 032 | 1.3 | 2.5 | 1.3-2.5 | 1.9 | R | 9--17 | S |
| 54 | HTMH-5108 | 1.8 | 3.0 | 1.8-3.0 | 2.4 | MR | 8--17 | S |
| 55 | PRO-392 | 2.0 | 4.0 | 2.0-4.0 | 3.0 | MR | 10--18 | S |
| 56 | BRMH-1 | 2.5 | 4.0 | 2.5-4.0 | 3.3 | MS | 19-29 | S |
| 57 | REH-2012-3 | 3.3 | 4.0 | 3.3-4.0 | 3.6 | MS | 13-20 | S |
| 58 | JH 31623 | 2.5 | 2.5 | 2.5-2.5 | 2.5 | MR | 6--12 | S |

Contd.

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|-------|--------------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHOL | Range | Av. Score | Reaction | UDAI | Reaction |
| 59 | JH 31638 | 2.8 | 2.5 | 2.5-2.8 | 2.6 | MR | 7--15 | S |
| 60 | JH 12010(JH 12019) | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 21-30 | S |
| 61 | JH 12171 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 13-24 | S |
| 62 | JH 12003 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 5--9 | MR |
| 63 | JH 12247 | 1.0 | 3.5 | 1.0-3.5 | 2.3 | MR | 14--8 | S |
| 64 | HKH 421 | 1.3 | 4.0 | 1.3-4.0 | 2.6 | MR | 25-36 | S |
| 65 | PMH 1 (C) | 2.8 | 1.3 | 1.3-2.8 | 2.0 | R | 10--18 | S |
| 66 | PMH 3 (C) | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR | 9--16 | S |
| 67 | Seedtech-2324 (C) | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 11--21 | S |
| 68 | BIO-9681 (C) | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 12--23 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| Check | Navjot | - | - | - | - | - | 23-33 | S |

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)

Table 2. Disease screening of IVT (medium maturity) maize hybrids (Trial 62)

| S.No | Genotype | MLB (1-5) | | | | | Range | Av. Score | Reaction |
|------|------------------------|-----------|------|------|------|------|---------|-----------|----------|
| | | DHO | KARN | LUDH | DHAU | DELH | | | |
| 1 | QMH-29134 | 1.5 | 2.5 | 2.8 | 2.5 | 2.0 | 1.5-2.8 | 2.3 | MR |
| 2 | QMH-2916 | 3.0 | 2.5 | 2.5 | 3.0 | 2.5 | 2.5-3.0 | 2.7 | MR |
| 3 | EHL-3412 | 2.5 | 2.0 | 2.8 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 4 | EHL-1111 | 1.5 | 3.0 | 2.5 | 2.0 | 2.5 | 1.5-3.0 | 2.3 | MR |
| 5 | EHL-3512 | 1.5 | 2.0 | 2.5 | 2.5 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 6 | S-6750 | 3.5 | 2.5 | 2.5 | 2.0 | 2.0 | 2.0-3.5 | 2.5 | MR |
| 7 | RMH-932 | 2.0 | 2.0 | 2.3 | 1.0 | 1.5 | 1.0-2.3 | 1.8 | R |
| 8 | RMH-3591 | 2.0 | 2.5 | 2.5 | 1.5 | 2.0 | 1.5-2.5 | 2.1 | MR |
| 9 | PHM-34(W) | 1.5 | 2.0 | 2.8 | 1.5 | 3.0 | 1.5-3.0 | 2.2 | MR |
| 10 | PHM-12(Y) | 3.5 | 2.5 | 2.8 | 3.0 | 3.5 | 2.5-3.5 | 3.1 | MS |
| 11 | LG-3271 | 4.0 | 2.5 | 3.3 | 3.0 | 3.5 | 2.5-4.0 | 3.3 | MS |
| 12 | LG-3282 | 3.5 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0-3.5 | 2.6 | MR |
| 13 | FCH-85 | 2.5 | 2.0 | 2.8 | 2.0 | 2.0 | 2.0-2.8 | 2.3 | MR |
| 14 | FCH-184 | 3.0 | 2.5 | 1.8 | 1.3 | 2.0 | 1.3-3.0 | 2.1 | MR |
| 15 | FCH-11231 | 2.0 | 2.5 | 2.0 | 1.3 | 2.5 | 1.3-2.5 | 2.0 | R |
| 16 | KMH-6 | 4.0 | 2.5 | 2.8 | 3.0 | 3.5 | 2.5-4.0 | 3.2 | MS |
| 17 | KMH-84 | 2.5 | 2.0 | 2.5 | 3.5 | 2.5 | 2.0-3.5 | 2.6 | MR |
| 18 | KMH-6681 | 1.5 | 1.5 | 2.5 | 3.0 | 2.0 | 1.5-3.0 | 2.1 | MR |
| 19 | KMH-5951 | 4.0 | 2.0 | 2.5 | 3.0 | 3.0 | 2.0-4.0 | 2.9 | MR |
| 20 | JKMH-4545 | 1.5 | 2.0 | 3.0 | 2.5 | 2.5 | 1.5-3.5 | 2.3 | MR |
| 21 | SAFAL X-2 | 1.5 | 2.5 | 2.3 | 1.3 | 2.0 | 1.3-2.5 | 1.9 | R |
| 22 | Kuber Shakthi | 1.5 | 2.0 | 2.0 | 1.3 | 2.0 | 1.3-2.0 | 1.8 | R |
| 23 | DAS-MH-304 | 3.0 | 2.5 | 2.5 | 3.0 | 3.0 | 2.5-3.0 | 2.8 | MR |
| 24 | DAS-MH-305 | 3.0 | 2.0 | 3.0 | 2.5 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 25 | KH-517 Gold | 3.5 | 2.0 | 3.0 | 2.0 | 3.0 | 2.0-3.5 | 2.7 | MR |
| 26 | KH-2248 | 2.0 | 2.5 | 3.5 | 3.5 | 2.5 | 2.0-3.5 | 2.8 | MR |
| 27 | TH-38 | 3.5 | 2.0 | 1.8 | 2.5 | 2.0 | 1.8-3.5 | 2.4 | MR |
| 28 | MAHABEEJ-1202(Nirdhar) | 3.0 | 2.0 | 2.5 | 2.5 | 2.5 | 2.0-3.0 | 2.5 | MR |
| 29 | KDMH-2705 | 2.5 | 1.5 | 2.3 | 1.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 30 | EH-2205 | 2.0 | 2.5 | 1.8 | 1.3 | 2.0 | 1.8-2.5 | 1.9 | R |
| 31 | EH-2208 | 3.0 | 1.5 | 2.0 | 2.0 | 2.5 | 1.5-3.0 | 2.2 | MR |

Contd.

| S.No | Genotype | MLB (1-5) | | | | | Range | Av. Score | Reaction |
|------|------------|-----------|------|------|------|------|---------|-----------|----------|
| | | DHO | KARN | LUDH | DHAU | DELH | | | |
| 32 | EH-2240 | 3.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.0-3.0 | 2.4 | MR |
| 33 | VaMH-08015 | 2.0 | 2.0 | 3.3 | 3.0 | 3.5 | 2.0-3.5 | 2.8 | MR |
| 34 | PMH-209 | 1.5 | 2.0 | 2.0 | 3.0 | 2.5 | 1.5-3.0 | 2.2 | MR |
| 35 | PRMH-2177 | 3.0 | 2.0 | 2.5 | 2.5 | 2.0 | 2.0-3.0 | 2.4 | MR |
| 36 | NMH-1289 | 4.5 | 1.5 | 3.0 | 2.0 | 3.0 | 1.5-4.5 | 2.8 | MR |
| 37 | HTMH-5402 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 38 | CMH 10-488 | 3.5 | 1.0 | 2.8 | 2.0 | 2.0 | 1.0-3.5 | 2.3 | MR |
| 39 | CMH 10-547 | 2.0 | 1.5 | 2.5 | 2.5 | 2.0 | 1.5-2.5 | 2.1 | MR |
| 40 | CMH 11-582 | 2.0 | 1.5 | 1.8 | 2.0 | 2.0 | 1.5-2.0 | 1.9 | R |
| 41 | CMH 11-603 | 2.0 | 2.5 | 2.0 | 1.3 | 2.0 | 1.3-2.5 | 2.0 | R |
| 42 | CMH 11-617 | 2.0 | 2.5 | 2.3 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 43 | IM8478 | 2.5 | 2.5 | 2.3 | 2.5 | 2.0 | 2.0-2.5 | 2.4 | MR |
| 44 | IM8479 | 1.5 | 1.5 | 2.0 | 1.3 | 2.0 | 1.3-2.0 | 1.7 | R |
| 45 | IM8581 | 1.5 | 2.5 | 1.8 | 2.0 | 2.0 | 1.5-2.5 | 2.0 | R |
| 46 | IM 7519 | 2.0 | 2.0 | 2.3 | 2.5 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 47 | IM 7501 | 2.5 | 2.0 | 2.5 | 1.5 | 2.0 | 1.5-2.5 | 2.1 | MR |
| 48 | BH 41015 | 3.0 | 2.5 | 3.0 | 3.0 | 2.5 | 2.5-3.0 | 2.8 | MR |
| 49 | BH 41030 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 | 1.0-2.0 | 1.8 | MR |
| 50 | BH 41145 | 5.0 | 2.5 | 3.0 | 3.0 | 3.0 | 2.5-5.0 | 3.3 | MS |
| 51 | BH 41150 | 2.5 | 2.5 | 2.3 | 3.0 | 3.0 | 2.3-3.0 | 2.7 | MR |
| 52 | BH 411736 | 2.5 | 2.0 | 2.3 | 3.0 | 3.0 | 2.0-3.0 | 2.6 | MR |
| 53 | BH 411737 | 2.0 | 1.5 | 2.5 | 3.0 | 2.5 | 1.5-3.0 | 2.3 | MR |
| 54 | BH 411520 | 1.5 | 2.5 | 3.0 | 3.5 | 2.5 | 1.5-3.5 | 2.6 | MR |
| 55 | VEH 12-1 | 1.5 | 2.0 | 3.0 | 2.5 | 3.0 | 1.5-3.0 | 2.4 | MR |
| 56 | X35D620 | 4.0 | 3.0 | 3.0 | 4.0 | 3.0 | 3.0-4.0 | 3.4 | MS |
| 57 | X35D623 | 3.5 | 1.5 | 2.8 | 3.0 | 2.0 | 1.5-3.5 | 2.6 | MR |
| 58 | X35D602 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 1.5-2.0 | 1.9 | R |
| 59 | X35D603 | 2.0 | 2.0 | 2.5 | 3.0 | 2.0 | 2.0-3.0 | 2.3 | MR |
| 60 | Bio 451 | 3.0 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0-3.0 | 2.3 | MR |
| 61 | GWH-0711 | 4.0 | 3.5 | 3.5 | 3.0 | 4.0 | 3.0-4.0 | 3.6 | MS |
| 62 | REH-2012-1 | 1.0 | 2.5 | 2.3 | 3.0 | 3.0 | 1.0-3.0 | 2.4 | MR |
| 63 | REH-2012-2 | 2.0 | 3.0 | 3.0 | 3.5 | 2.5 | 2.0-3.5 | 2.8 | MR |
| 64 | REH-2012-4 | 2.0 | 2.5 | 2.5 | 3.5 | 2.5 | 2.0-3.5 | 2.6 | MR |

Contd.

| MLB (1-5) | | | | | | | | | |
|-----------|--------------------|-----|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | DHO | KARN | LUDH | DHAU | DELH | Range | Av. Score | Reaction |
| 65 | JH 31595 | 2.5 | 1.0 | 2.8 | 3.0 | 2.0 | 1.0-3.0 | 2.3 | MR |
| 66 | JH 31537 | 2.5 | 2.0 | 2.0 | 3.0 | 2.0 | 2.0-3.0 | 2.3 | MR |
| 67 | JH 31604 | 1.0 | 2.0 | 2.3 | 1.3 | 2.0 | 1.0-2.3 | 1.7 | R |
| 68 | JH 31600(JH 31627) | 2.5 | 1.5 | 2.0 | 1.3 | 2.0 | 1.3-2.5 | 1.9 | R |
| 69 | JH 31244 | 2.0 | 1.5 | 2.5 | 1.3 | 2.0 | 1.3-2.5 | 1.9 | R |
| 70 | JH 31554 | 1.5 | 2.5 | 2.0 | 2.5 | 1.5 | 1.5-2.5 | 2.0 | R |
| 71 | AH-1226 | 2.5 | 2.5 | 3.5 | 3.5 | 2.5 | 2.5-3.5 | 2.9 | MR |
| 72 | AH-1262 | 2.5 | 2.5 | 3.0 | 3.0 | 2.5 | 2.5-3.0 | 2.7 | MR |
| 73 | MMH- 2-12-13 | 3.0 | 2.0 | 2.5 | 3.0 | 3.0 | 2.0-3.0 | 2.7 | MR |
| 74 | MMH- 3-12-13 | 2.5 | 2.0 | 2.0 | 3.5 | 2.0 | 2.0-3.5 | 2.4 | MR |
| 75 | MMH- 4-12-13 | 2.5 | 1.5 | 2.8 | 3.5 | 2.5 | 1.5-3.5 | 2.6 | MR |
| 76 | MMH- 5-12-13 | 2.0 | 2.0 | 2.8 | 2.5 | 3.0 | 2.0-3.0 | 2.5 | MR |
| 77 | HKH 338 | 2.0 | 1.5 | 2.5 | 2.5 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 78 | HKH 339 | 2.0 | 2.5 | 3.3 | 3.0 | 2.0 | 2.0-3.3 | 2.6 | MR |
| 79 | HKH 340 | 3.0 | 2.5 | 2.5 | 3.5 | 2.5 | 2.5-3.5 | 2.8 | MR |
| 80 | KNMH-4302 | 2.5 | 2.5 | 2.0 | 4.0 | 2.0 | 2.0-4.0 | 2.6 | MR |
| 81 | KNMH-4303 | 2.0 | 2.0 | 2.3 | 4.0 | 2.0 | 2.0-4.0 | 2.5 | MR |
| 82 | KNMH-4304 | 2.0 | 2.5 | 2.0 | 2.0 | 1.5 | 1.5-2.5 | 2.0 | R |
| 83 | KNMH-4305 | 2.5 | 2.5 | 1.8 | 1.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 84 | KNMH-4010131 | 2.0 | 1.5 | 2.0 | 2.0 | 2.0 | 1.5-2.0 | 1.9 | R |
| 85 | PMH 4(C) | 3.0 | 2.0 | 2.8 | 1.3 | 2.0 | 1.3-3.0 | 2.2 | MR |
| 86 | BIO 9637 (C) | 4.0 | 2.5 | 2.3 | 1.3 | 2.0 | 1.3-4.0 | 2.4 | MR |
| 87 | HM 12(C) | 2.5 | 1.5 | 2.8 | 2.5 | 2.0 | 1.5-2.8 | 2.3 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 5.0 | - | 4.0 | - | 4.5 | 4.0-5.0 | 4.3 | S |

Contd.

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

| TLB (1-5) | | | | | | | | |
|-----------|------------------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 1 | QMH-29134 | 1.5 | 2.5 | 4.3 | 2.7 | 1.5-4.3 | 2.8 | MR |
| 2 | QMH-2916 | 2.0 | 1.5 | 3.5 | 2.7 | 1.5-3.5 | 2.4 | MR |
| 3 | EHL-3412 | 1.3 | 2.5 | 3.8 | 2.0 | 1.3-3.8 | 2.4 | MR |
| 4 | EHL-1111 | 1.5 | 3.0 | 4.8 | 2.1 | 1.5-4.8 | 2.8 | MR |
| 5 | EHL-3512 | 0.8 | 1.5 | 3.0 | 2.2 | 0.8-3.0 | 1.9 | R |
| 6 | S-6750 | 1.5 | 3.0 | 3.8 | 2.5 | 1.5-3.8 | 2.7 | MR |
| 7 | RMH-932 | 0.8 | 2.0 | 2.0 | 2.7 | 0.8-2.7 | 1.9 | R |
| 8 | RMH-3591 | 2.0 | 1.5 | 2.0 | 2.0 | 1.5-2.0 | 1.9 | R |
| 9 | PHM-34(W) | 2.0 | 3.0 | 4.3 | 2.3 | 2.0-4.3 | 2.9 | MR |
| 10 | PHM-12(Y) | 1.5 | 4.5 | 4.8 | 2.6 | 1.5-4.8 | 3.4 | MS |
| 11 | LG-3271 | 1.3 | 4.0 | 4.8 | 2.1 | 1.3-4.8 | 3.0 | MR |
| 12 | LG-3282 | 2.3 | 3.5 | 3.8 | 2.4 | 2.3-3.8 | 3.0 | MR |
| 13 | FCH-85 | 1.3 | 1.5 | 3.8 | 2.1 | 1.3-3.8 | 2.2 | MR |
| 14 | FCH-184 | 0.8 | 3.5 | 3.8 | 2.2 | 0.8-3.8 | 2.6 | MR |
| 15 | FCH-11231 | 2.5 | 2.0 | 3.0 | 2.4 | 2.0-3.0 | 2.5 | MR |
| 16 | KMH-6 | 1.5 | 2.5 | 4.5 | 2.7 | 1.5-4.5 | 2.8 | MR |
| 17 | KMH-84 | 2.3 | 2.0 | 4.3 | 3.1 | 2.0-4.3 | 2.9 | MR |
| 18 | KMH-6681 | 2.0 | 2.0 | 3.8 | 3.1 | 2.0-3.8 | 2.7 | MR |
| 19 | KMH-5951 | 2.0 | 3.5 | 4.8 | 2.4 | 2.0-4.8 | 3.2 | MS |
| 20 | JKMH-4545 | 1.8 | 2.0 | 4.8 | 3.3 | 1.8-4.8 | 3.0 | MR |
| 21 | SAFAL X-2 | 1.5 | 1.5 | 2.0 | 2.8 | 1.5-2.8 | 1.9 | R |
| 22 | Kuber Shakthi | 2.0 | 2.5 | 2.0 | 2.9 | 2.0-2.9 | 2.4 | MR |
| 23 | DAS-MH-304 | 1.0 | 1.5 | 3.8 | 3.0 | 1.0-3.8 | 2.3 | MR |
| 24 | DAS-MH-305 | 2.0 | 2.0 | 3.0 | 2.8 | 2.0-3.0 | 2.5 | MR |
| 25 | KH-517 Gold | 1.5 | 2.5 | 4.8 | 2.1 | 1.5-4.8 | 2.7 | MR |
| 26 | KH-2248 | 2.5 | 3.5 | 4.3 | 1.7 | 1.7-4.3 | 3.0 | MR |
| 27 | TH-38 | 1.0 | 3.0 | 4.8 | 1.9 | 1.0-4.8 | 2.7 | MR |
| 28 | MAHABEEJ-1202(Nirdhar) | 1.0 | 1.5 | 3.0 | 2.0 | 1.0-3.0 | 1.9 | R |
| 29 | KDMH-2705 | 2.0 | 3.0 | 4.5 | 3.3 | 2.0-4.5 | 3.2 | MS |
| 30 | EH-2205 | 2.0 | 1.5 | 4.0 | 2.1 | 1.5-4.0 | 2.4 | MR |
| 31 | EH-2208 | 2.0 | 1.5 | 2.0 | 3.0 | 1.5-3.0 | 2.1 | MR |

Contd.

| TLB (1-5) | | | | | | | | |
|-----------|------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 32 | EH-2240 | 2.0 | 1.5 | 4.8 | 2.1 | 1.5-4.8 | 2.6 | MR |
| 33 | VaMH-08015 | 2.0 | 2.5 | 3.5 | 1.7 | 1.7-3.5 | 2.4 | MR |
| 34 | PMH-209 | 2.5 | 3.0 | 4.3 | 2.5 | 2.5-4.3 | 3.0 | MR |
| 35 | PRMH-2177 | 2.0 | 2.5 | 4.8 | 2.7 | 2.0-4.8 | 3.0 | MR |
| 36 | NMH-1289 | 2.0 | 2.5 | 3.0 | 2.3 | 2.0-3.0 | 2.5 | MR |
| 37 | HTMH-5402 | 2.3 | 2.5 | 4.3 | 2.6 | 2.3-4.3 | 2.9 | MR |
| 38 | CMH 10-488 | 2.0 | 2.0 | 2.8 | 2.8 | 2.0-2.8 | 2.4 | MR |
| 39 | CMH 10-547 | 1.5 | 2.5 | 4.3 | 2.5 | 1.5-4.3 | 2.7 | MR |
| 40 | CMH 11-582 | 2.0 | 1.5 | 2.0 | 2.8 | 1.5-2.8 | 2.0 | R |
| 41 | CMH 11-603 | 1.5 | 2.0 | 4.5 | 2.9 | 1.5-4.5 | 2.7 | MR |
| 42 | CMH 11-617 | 2.5 | 1.5 | 2.8 | 3.0 | 1.5-3.0 | 2.5 | MR |
| 43 | IM8478 | 2.0 | 1.5 | 4.8 | 3.3 | 1.5-4.8 | 2.9 | MR |
| 44 | IM8479 | 1.8 | 1.5 | 3.5 | 3.5 | 1.8-3.5 | 2.6 | MR |
| 45 | IM8581 | 2.5 | 1.5 | 4.8 | 3.2 | 1.5-4.8 | 3.0 | MR |
| 46 | IM 7519 | 1.5 | 4.0 | 4.0 | 3.0 | 1.5-4.0 | 3.1 | MS |
| 47 | IM 7501 | 2.0 | 3.5 | 4.5 | 2.8 | 2.0-4.5 | 3.2 | MS |
| 48 | BH 41015 | 2.5 | 3.5 | 4.8 | 2.7 | 2.5-4.8 | 3.4 | MS |
| 49 | BH 41030 | 2.5 | 3.5 | 3.8 | 2.3 | 2.3-3.8 | 3.0 | MR |
| 50 | BH 41145 | 2.5 | 4.0 | 4.8 | 3.9 | 2.5-4.8 | 3.8 | MS |
| 51 | BH 41150 | 2.0 | 4.0 | 4.0 | 2.9 | 2.0-4.0 | 3.2 | MS |
| 52 | BH 411736 | 1.5 | 1.5 | 3.8 | 3.1 | 1.5-3.8 | 2.5 | MR |
| 53 | BH 411737 | 2.5 | 1.5 | 4.8 | 3.0 | 1.5-4.8 | 3.0 | MR |
| 54 | BH 411520 | 2.0 | 3.0 | 4.3 | 2.5 | 2.0-4.3 | 2.9 | MR |
| 55 | VEH 12-1 | 1.3 | 3.5 | 3.5 | 2.3 | 1.3-3.5 | 2.6 | MR |
| 56 | X35D620 | 3.0 | 4.0 | 3.0 | 2.7 | 2.7-4.0 | 3.2 | MS |
| 57 | X35D623 | 2.0 | 2.0 | 4.5 | 2.7 | 2.0-4.5 | 2.8 | MR |
| 58 | X35D602 | 1.5 | 2.0 | 4.3 | 2.3 | 1.5-4.3 | 2.5 | MR |
| 59 | X35D603 | 2.0 | 2.0 | 3.3 | 2.2 | 2.0-3.3 | 2.4 | MR |
| 60 | Bio 451 | 3.0 | 1.5 | 2.0 | 2.8 | 1.5-3.0 | 2.3 | MR |
| 61 | GWH-0711 | 3.0 | 3.0 | 4.0 | 4.0 | 3.0-4.0 | 3.5 | MS |
| 62 | REH-2012-1 | 2.5 | 3.0 | 3.8 | 3.0 | 2.5-3.8 | 3.0 | MR |
| 63 | REH-2012-2 | 3.3 | 3.0 | 4.8 | 2.4 | 2.4-4.8 | 3.4 | MS |
| 64 | REH-2012-4 | 1.3 | 2.5 | 3.8 | 3.0 | 1.3-3.8 | 2.6 | MR |

Contd.

| | | TLB (1-5) | | | | | | | |
|------|--------------------|-----------|------|------|------|---------|-----------|----------|--|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction | |
| 65 | JH 31595 | 1.5 | 2.0 | 4.3 | 3.1 | 1.5-4.3 | 2.7 | MR | |
| 66 | JH 31537 | 2.5 | 2.5 | 4.8 | 2.7 | 2.7-4.8 | 3.1 | MS | |
| 67 | JH 31604 | 2.0 | 2.5 | 3.5 | 2.5 | 2.0-3.5 | 2.6 | MR | |
| 68 | JH 31600(JH 31627) | 3.0 | 2.5 | 4.8 | 2.7 | 2.5-4.8 | 3.3 | MS | |
| 69 | JH 31244 | 4.3 | 1.5 | 3.5 | 3.4 | 1.5-4.3 | 3.2 | MS | |
| 70 | JH 31554 | 1.5 | 1.5 | 3.8 | 3.2 | 1.5-3.8 | 2.5 | MR | |
| 71 | AH-1226 | 2.0 | 3.5 | 4.5 | 3.4 | 2.0-4.5 | 3.4 | MS | |
| 72 | AH-1262 | 1.0 | 3.0 | 4.3 | 3.2 | 1.0-4.3 | 2.9 | MR | |
| 73 | MMH- 2-12-13 | 1.5 | 4.0 | 4.5 | 2.8 | 1.5-4.5 | 3.2 | MS | |
| 74 | MMH- 3-12-13 | 1.3 | 3.0 | 5.0 | 2.7 | 1.3-5.0 | 3.0 | MR | |
| 75 | MMH- 4-12-13 | 1.8 | 3.0 | 3.3 | 2.3 | 1.8-3.3 | 2.6 | MR | |
| 76 | MMH- 5-12-13 | 1.5 | 3.0 | 3.8 | 2.3 | 1.5-3.8 | 2.7 | MR | |
| 77 | HKH 338 | 2.0 | 3.0 | 4.0 | 1.9 | 1.9-4.0 | 2.7 | MR | |
| 78 | HKH 339 | 2.0 | 3.0 | 3.8 | 2.2 | 2.0-3.8 | 2.7 | MR | |
| 79 | HKH 340 | 1.5 | 3.5 | 4.8 | 2.5 | 1.5-4.8 | 3.0 | MR | |
| 80 | KNMH-4302 | 0.8 | 2.0 | 3.8 | 2.4 | 0.8-3.8 | 2.2 | MR | |
| 81 | KNMH-4303 | 2.5 | 2.0 | 2.0 | 2.4 | 2.0-2.5 | 2.2 | MR | |
| 82 | KNMH-4304 | 0.8 | 1.5 | 2.8 | 2.4 | 0.8-2.8 | 1.9 | R | |
| 83 | KNMH-4305 | 1.3 | 2.0 | 2.0 | 2.2 | 1.3-2.2 | 1.9 | R | |
| 84 | KNMH-4010131 | 2.5 | 2.0 | 2.5 | 2.1 | 2.0-2.5 | 2.3 | MR | |
| 85 | PMH 4(C) | 1.5 | 3.0 | 4.8 | 2.0 | 1.5-4.8 | 2.8 | MR | |
| 86 | BIO 9637 (C) | 2.0 | 3.0 | 4.8 | 2.4 | 2.0-4.8 | 3.0 | MR | |
| 87 | HM 12(C) | 2.0 | 2.0 | 3.3 | 2.1 | 2.0-3.3 | 2.4 | MR | |
| RC | RES. CHECK | - | - | 1.3 | - | 1.3 | 1.3 | R | |
| SC | SUS. CHECK | 4.5 | 5.0 | 4.8 | - | 4.5-5.0 | 4.8 | S | |

Contd.

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)**SUSCEPTIBLE CHECK**- TLB : ALMORA(DHARI), MANDYA (219J)

| BLSB (1-5) | | | | | | | | |
|------------|------------------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| 1 | QMH-29134 | 3.0 | 4.3 | 2.5 | 2.5 | 2.5-4.3 | 3.0 | MR |
| 2 | QMH-2916 | 2.5 | 4.8 | 4.5 | 2.5 | 2.5-4.8 | 3.6 | MS |
| 3 | EHL-3412 | 3.0 | 3.5 | 3.0 | 2.0 | 2.0-3.5 | 2.9 | MR |
| 4 | EHL-1111 | 3.5 | 4.3 | 3.0 | 2.0 | 2.0-4.3 | 3.2 | MS |
| 5 | EHL-3512 | 2.5 | 4.8 | 4.0 | 2.5 | 2.5-4.8 | 3.5 | MS |
| 6 | S-6750 | 3.0 | 3.8 | 3.0 | 3.5 | 3.0-3.8 | 3.3 | MS |
| 7 | RMH-932 | 2.5 | 3.8 | 4.0 | 2.5 | 2.5-4.0 | 3.2 | MS |
| 8 | RMH-3591 | 2.5 | 3.8 | 4.0 | 3.0 | 2.5-4.0 | 3.3 | MS |
| 9 | PHM-34(W) | 2.5 | 4.3 | 3.5 | 2.0 | 2.0-4.3 | 3.0 | MR |
| 10 | PHM-12(Y) | 2.0 | 3.8 | 3.5 | 3.0 | 2.0-3.8 | 3.0 | MR |
| 11 | LG-3271 | 3.5 | 3.8 | - | 3.0 | 3.0-3.8 | 3.4 | MS |
| 12 | LG-3282 | 2.5 | 3.0 | 3.0 | 2.5 | 2.5-3.0 | 2.8 | MR |
| 13 | FCH-85 | 3.0 | 3.5 | 3.0 | 2.5 | 2.5-3.5 | 3.0 | MR |
| 14 | FCH-184 | 2.5 | 5.0 | - | 1.5 | 1.5-5.0 | 3.0 | MR |
| 15 | FCH-11231 | 2.0 | 3.5 | 3.0 | 2.5 | 2.0-3.5 | 2.8 | MR |
| 16 | KMH-6 | 3.0 | 4.0 | 3.5 | 3.0 | 3.0-4.0 | 3.4 | MS |
| 17 | KMH-84 | 3.0 | 5.0 | 3.0 | 3.0 | 3.0-5.0 | 3.5 | MS |
| 18 | KMH-6681 | 2.5 | 4.3 | 3.5 | 3.0 | 2.5-4.3 | 3.3 | MS |
| 19 | KMH-5951 | 2.5 | 3.5 | 4.0 | 3.0 | 2.5-4.0 | 3.3 | MS |
| 20 | JKMH-4545 | 3.5 | 5.0 | 3.0 | 2.5 | 2.5-5.0 | 3.5 | MS |
| 21 | SAFAL X-2 | 3.0 | 3.5 | 4.0 | 2.0 | 2.0-4.0 | 3.1 | MS |
| 22 | Kuber Shakthi | 2.5 | 3.8 | 4.0 | 3.0 | 2.5-4.0 | 3.3 | MS |
| 23 | DAS-MH-304 | 3.0 | 4.8 | 3.0 | 3.5 | 3.0-4.8 | 3.6 | MS |
| 24 | DAS-MH-305 | 2.5 | 3.8 | 3.0 | 3.5 | 2.5-3.8 | 3.2 | MS |
| 25 | KH-517 Gold | 2.5 | 4.8 | 4.0 | 3.0 | 2.5-4.8 | 3.6 | MS |
| 26 | KH-2248 | 2.5 | 4.0 | 4.0 | 2.5 | 2.5-4.0 | 3.3 | MS |
| 27 | TH-38 | 2.5 | 4.0 | 4.0 | 3.0 | 2.5-4.0 | 3.4 | MS |
| 28 | MAHABEEJ-1202(Nirdhar) | 3.0 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.5 | MS |
| 29 | KDMH-2705 | 3.0 | 4.5 | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 30 | EH-2205 | 2.5 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.4 | MS |
| 31 | EH-2208 | 2.5 | 4.8 | 4.0 | 2.5 | 2.5-4.8 | 3.5 | MS |

Contd.

| BLSB (1-5) | | | | | | | | |
|------------|------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| 32 | EH-2240 | 3.0 | 4.8 | 4.0 | 2.5 | 2.5-4.8 | 3.6 | MS |
| 33 | VaMH-08015 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 34 | PMH-209 | 3.5 | 5.0 | 4.0 | 2.5 | 2.5-5.0 | 3.8 | MS |
| 35 | PRMH-2177 | 4.0 | 5.0 | 4.0 | 3.5 | 3.5-5.0 | 4.1 | S |
| 36 | NMH-1289 | 2.5 | 4.8 | 3.5 | 3.5 | 2.5-4.8 | 3.6 | MS |
| 37 | HTMH-5402 | 3.5 | 3.8 | 3.5 | 3.0 | 3.0-3.8 | 3.5 | MS |
| 38 | CMH 10-488 | 2.5 | 3.8 | 4.5 | 2.5 | 2.5-4.5 | 3.3 | MS |
| 39 | CMH 10-547 | 2.5 | 3.8 | 3.5 | 1.5 | 1.5-3.8 | 2.8 | MR |
| 40 | CMH 11-582 | 2.5 | 3.8 | 3.5 | 3.0 | 2.5-3.8 | 3.2 | MS |
| 41 | CMH 11-603 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR |
| 42 | CMH 11-617 | 3.0 | 3.8 | 3.5 | 3.0 | 3.0-3.8 | 3.3 | MS |
| 43 | IM8478 | 2.5 | 3.8 | - | 3.0 | 2.5-3.8 | 3.1 | MS |
| 44 | IM8479 | 2.5 | 4.8 | 3.0 | 3.0 | 2.5-4.8 | 3.3 | MS |
| 45 | IM8581 | 2.5 | 4.3 | - | 3.0 | 2.5-4.3 | 3.3 | MS |
| 46 | IM 7519 | 3.5 | 3.5 | 3.0 | 2.5 | 2.5-3.5 | 3.1 | MS |
| 47 | IM 7501 | 3.5 | 3.5 | 3.0 | 2.5 | 2.5-3.5 | 3.1 | MS |
| 48 | BH 41015 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 49 | BH 41030 | 3.5 | 4.5 | 3.5 | 2.5 | 2.5-4.5 | 3.5 | MS |
| 50 | BH 41145 | 3.5 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.8 | MS |
| 51 | BH 41150 | 3.0 | 3.8 | 4.5 | 3.0 | 3.0-4.5 | 3.6 | MS |
| 52 | BH 411736 | 3.0 | 5.0 | 3.5 | 3.0 | 3.0-5.0 | 3.6 | MS |
| 53 | BH 411737 | 3.0 | 4.8 | 3.5 | 3.0 | 3.0-4.8 | 3.6 | MS |
| 54 | BH 411520 | 2.5 | 3.0 | 4.0 | 3.0 | 2.5-4.0 | 3.1 | MS |
| 55 | VEH 12-1 | 3.0 | 4.5 | NG | 3.0 | 3.0-4.5 | 3.5 | MS |
| 56 | X35D620 | 2.5 | 4.5 | 3.5 | 2.0 | 2.0-4.5 | 3.1 | MS |
| 57 | X35D623 | 2.5 | 4.0 | 3.5 | 2.5 | 2.5-4.0 | 3.1 | MS |
| 58 | X35D602 | 2.0 | 4.0 | 3.0 | 3.0 | 2.0-4.0 | 3.0 | MR |
| 59 | X35D603 | 3.0 | 3.8 | 1.3 | 2.0 | 1.3-3.8 | 2.5 | MR |
| 60 | Bio 451 | 3.0 | 3.3 | 3.0 | 3.0 | 3.0-3.3 | 3.0 | MR |
| 61 | GWH-0711 | 3.5 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.6 | MS |
| 62 | REH-2012-1 | 3.0 | 4.5 | 3.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 63 | REH-2012-2 | 3.5 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.6 | MS |
| 64 | REH-2012-4 | 2.5 | 4.5 | 4.0 | 3.0 | 2.5-4.5 | 3.5 | MS |

Contd.

| BLSB (1-5) | | | | | | | | |
|------------|--------------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| 65 | JH 31595 | 3.0 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.2 | MS |
| 66 | JH 31537 | 2.5 | 4.8 | 3.0 | 3.0 | 2.5-4.8 | 3.3 | MS |
| 67 | JH 31604 | 2.0 | 4.8 | 3.0 | 3.0 | 2.0-4.8 | 3.2 | MS |
| 68 | JH 31600(JH 31627) | 3.5 | 4.0 | 3.0 | 2.5 | 2.5-4.0 | 3.3 | MS |
| 69 | JH 31244 | 3.5 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.3 | MS |
| 70 | JH 31554 | 3.5 | 4.3 | 3.0 | 3.0 | 3.0-4.3 | 3.5 | MS |
| 71 | AH-1226 | 4.0 | 5.0 | 3.0 | 2.5 | 2.5-5.0 | 3.6 | MS |
| 72 | AH-1262 | 3.5 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.6 | MS |
| 73 | MMH- 2-12-13 | 3.5 | 4.0 | 3.0 | 3.0 | 3.0-4.0 | 3.4 | MS |
| 74 | MMH- 3-12-13 | 3.0 | 4.5 | 3.0 | 2.5 | 2.5-4.5 | 3.3 | MS |
| 75 | MMH- 4-12-13 | 3.0 | 4.3 | 4.0 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 76 | MMH- 5-12-13 | 3.5 | 5.0 | 3.0 | 2.5 | 3.0-5.0 | 3.5 | MS |
| 77 | HKH 338 | 3.0 | 5.0 | 1.0 | 2.5 | 1.0-5.0 | 2.9 | MR |
| 78 | HKH 339 | 3.0 | 5.0 | 2.0 | 2.5 | 2.0-5.0 | 3.1 | MS |
| 79 | HKH 340 | 2.5 | 4.3 | 1.0 | 2.5 | 1.0-4.3 | 2.6 | MR |
| 80 | KNMH-4302 | 2.0 | 5.0 | 1.0 | 3.0 | 1.0-5.0 | 2.8 | MR |
| 81 | KNMH-4303 | 2.0 | 4.3 | 1.0 | 3.0 | 1.0-4.3 | 2.6 | MR |
| 82 | KNMH-4304 | 2.5 | 3.8 | - | 2.5 | 2.5-3.8 | 2.9 | MR |
| 83 | KNMH-4305 | 3.0 | 5.0 | - | 3.0 | 3.0-5.0 | 3.7 | MS |
| 84 | KNMH-4010131 | 3.0 | 3.0 | - | 2.0 | 2.0-3.0 | 2.7 | MR |
| 85 | PMH 4(C) | 2.5 | 4.8 | 1.5 | 3.0 | 1.5-4.8 | 3.0 | MR |
| 86 | BIO 9637 (C) | 3.0 | 3.5 | 1.0 | 1.5 | 1.0-3.5 | 2.3 | MR |
| 87 | HM 12(C) | 3.5 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.3 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 5.0 | 4.0 | 3.5 | 3.5-5.0 | 4.2 | S |

Contd.

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501)

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|------|------------------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | QMH-29134 | 2.5 | 4.9 | 3.6 | 3.6-4.9 | 4.3 | MR | 8.4 | S |
| 2 | QMH-2916 | 1.0 | 4.6 | 4.4 | 4.4-4.6 | 4.5 | MR | 7.7 | S |
| 3 | EHL-3412 | 1.5 | 4.1 | 4.1 | 4.1-4.1 | 4.1 | MR | 3.4 | MR |
| 4 | EHL-1111 | 1.0 | 7.7 | 4.3 | 4.3-7.7 | 6.0 | MS | 4.1 | MR |
| 5 | EHL-3512 | 1.0 | 7.1 | 3.4 | 3.4-7.1 | 5.3 | MS | 6.5 | MS |
| 6 | S-6750 | 3.0 | 5.3 | 4.0 | 4.0-5.3 | 4.7 | MR | 4.7 | MR |
| 7 | RMH-932 | 1.0 | 4.1 | 3.8 | 3.8-4.1 | 4.0 | MR | 8.2 | S |
| 8 | RMH-3591 | 3.0 | 6.0 | 4.4 | 4.4-6.0 | 5.2 | MS | 5.3 | MS |
| 9 | PHM-34(W) | 1.0 | 6.7 | 4.6 | 4.6-6.7 | 5.7 | MS | 5.7 | MS |
| 10 | PHM-12(Y) | 3.0 | 6.7 | 3.6 | 3.6-6.7 | 5.2 | MS | 6.6 | MS |
| 11 | LG-3271 | 3.5 | 5.7 | 3.1 | 3.1-5.7 | 4.4 | MR | 6.6 | MS |
| 12 | LG-3282 | 3.0 | 4.6 | 3.9 | 3.9-4.6 | 4.3 | MR | 2.4 | R |
| 13 | FCH-85 | 3.5 | 5.4 | 4.6 | 4.6-5.4 | 5.0 | MR | 5.5 | MS |
| 14 | FCH-184 | 2.5 | 7.4 | 2.9 | 2.9-7.4 | 5.2 | MS | 8.4 | S |
| 15 | FCH-11231 | 1.0 | 5.8 | 2.4 | 2.4-5.8 | 4.1 | MR | 4.0 | MR |
| 16 | KMH-6 | 1.0 | 6.7 | 3.0 | 3.0-6.7 | 4.9 | MR | 5.7 | MS |
| 17 | KMH-84 | 1.0 | 7.8 | 2.6 | 2.6-7.8 | 5.2 | MS | 3.3 | MR |
| 18 | KMH-6681 | 1.0 | 7.6 | 2.7 | 2.7-7.6 | 5.2 | MS | 4.2 | MR |
| 19 | KMH-5951 | 1.0 | 6.8 | 3.4 | 3.4-6.8 | 5.1 | MR | 3.2 | MR |
| 20 | JKMH-4545 | 1.0 | 4.9 | 3.9 | 3.9-4.9 | 4.4 | MR | 4.2 | MR |
| 21 | SAFAL X-2 | 1.0 | 5.3 | 5.9 | 5.3-5.9 | 5.6 | MS | 5.0 | MR |
| 22 | Kuber Shakthi | 2.0 | 5.1 | 6.0 | 5.1-6.0 | 5.6 | MS | 2.3 | R |
| 23 | DAS-MH-304 | 3.5 | 5.2 | 5.0 | 5.0-5.2 | 5.1 | MR | 7.0 | S |
| 24 | DAS-MH-305 | 1.0 | 6.1 | 2.9 | 2.9-6.1 | 4.5 | MR | 7.2 | S |
| 25 | KH-517 Gold | 1.0 | 4.8 | 2.6 | 2.6-4.8 | 3.7 | MR | 4.9 | MR |
| 26 | KH-2248 | 1.0 | 7.4 | 5.8 | 5.8-7.4 | 6.6 | MS | 3.3 | MR |
| 27 | TH-38 | 3.5 | 5.9 | 3.0 | 3.0-5.9 | 4.5 | MR | 5.2 | MS |
| 28 | MAHABEEJ-1202(Nirdhar) | 3.5 | 6.3 | 2.9 | 2.9-6.3 | 4.6 | MR | 3.2 | MR |
| 29 | KDMH-2705 | 1.0 | 6.4 | 3.4 | 3.4-6.4 | 4.9 | MR | 2.4 | R |
| 30 | EH-2205 | 1.0 | 7.2 | 5.3 | 5.3-7.2 | 6.3 | MS | 3.3 | MR |
| 31 | EH-2208 | 1.0 | 4.6 | 3.4 | 3.4-4.6 | 4.0 | MR | 2.0 | 2.0 |

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | | |
|------|------------|------------|------|-------------|---------|-----------|-----------|------|----------|--|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction | |
| 32 | EH-2240 | 1.0 | 6.5 | 4.1 | 4.1-6.5 | 5.3 | MS | 3.0 | R | |
| 33 | VaMH-08015 | 1.0 | 7.6 | 5.0 | 5.0-7.6 | 6.3 | MS | 4.4 | MR | |
| 34 | PMH-209 | 3.0 | 5.0 | 4.6 | 4.6-5.0 | 4.8 | MR | 4.0 | MR | |
| 35 | PRMH-2177 | 3.5 | 5.9 | 5.1 | 5.1-5.9 | 5.5 | MS | 4.1 | MR | |
| 36 | NMH-1289 | 3.5 | 5.4 | 4.7 | 4.7-5.4 | 5.1 | MR | 4.2 | MR | |
| 37 | HTMH-5402 | 1.0 | 4.8 | 5.0 | 4.8-5.0 | 4.9 | MR | 4.3 | MR | |
| 38 | CMH 10-488 | 1.0 | 7.7 | 3.6 | 3.6-7.7 | 5.7 | MS | 3.0 | R | |
| 39 | CMH 10-547 | 1.0 | 5.7 | 3.4 | 3.4-5.7 | 4.6 | MR | 3.8 | MR | |
| 40 | CMH 11-582 | 2.0 | 6.7 | 3.0 | 3.0-6.7 | 4.9 | MR | 3.5 | MR | |
| 41 | CMH 11-603 | 3.0 | 5.4 | 3.7 | 3.7-5.4 | 4.6 | MR | 2.5 | R | |
| 42 | CMH 11-617 | 1.0 | 6.7 | 3.3 | 3.3-6.7 | 5.0 | S | 1.8 | R | |
| 43 | IM8478 | 3.0 | 5.2 | 4.4 | 4.4-5.2 | 4.8 | MR | 2.3 | R | |
| 44 | IM8479 | 1.0 | 4.4 | 4.6 | 4.4-4.6 | 4.5 | MR | 1.8 | R | |
| 45 | IM8581 | 1.0 | 5.0 | 4.3 | 4.3-5.0 | 4.7 | MR | 1.6 | R | |
| 46 | IM 7519 | 1.0 | 5.6 | 4.1 | 4.1-5.6 | 4.9 | MR | 3.6 | MR | |
| 47 | IM 7501 | 2.5 | 5.5 | 3.6 | 3.6-5.5 | 4.6 | MR | 3.2 | MR | |
| 48 | BH 41015 | 3.0 | 5.2 | 4.4 | 4.4-5.2 | 4.8 | MR | 4.0 | MR | |
| 49 | BH 41030 | 1.0 | 3.3 | 3.6 | 3.3-3.6 | 3.5 | MR | 3.1 | MR | |
| 50 | BH 41145 | 2.5 | 5.3 | 3.3 | 3.3-5.3 | 4.3 | MR | 6.6 | MS | |
| 51 | BH 41150 | 1.0 | 5.9 | 3.3 | 3.3-5.9 | 4.6 | MR | 2.6 | R | |
| 52 | BH 411736 | 1.0 | 6.7 | 4.2 | 4.2-6.7 | 5.5 | MS | 4.2 | MR | |
| 53 | BH 411737 | 1.0 | 5.7 | 3.9 | 3.9-5.7 | 4.8 | MR | 1.9 | R | |
| 54 | BH 411520 | 1.0 | 5.6 | 5.2 | 5.2-5.6 | 5.4 | MS | 3.1 | MR | |
| 55 | VEH 12-1 | 1.0 | 4.6 | 4.3 | 4.3-4.6 | 4.5 | MR | 4.0 | MR | |
| 56 | X35D620 | 2.5 | 5.9 | 3.9 | 3.9-5.9 | 4.9 | MR | 1.8 | R | |
| 57 | X35D623 | 3.0 | 4.3 | 5.3 | 4.3-5.3 | 4.8 | MR | 3.2 | MR | |
| 58 | X35D602 | 2.5 | 4.5 | 4.0 | 4.0-4.5 | 4.3 | MR | 2.2 | R | |
| 59 | X35D603 | 1.0 | 5.9 | 4.5 | 4.5-5.9 | 5.2 | MS | 3.5 | MR | |
| 60 | Bio 451 | 2.0 | 4.8 | 5.0 | 4.8-5.0 | 4.9 | MR | 2.4 | R | |
| 61 | GWH-0711 | 3.0 | 6.8 | 3.9 | 3.9-6.8 | 5.4 | MS | 4.6 | MR | |
| 62 | REH-2012-1 | 1.0 | 6.0 | 3.7 | 3.7-6.0 | 4.9 | MR | 4.5 | MR | |
| 63 | REH-2012-2 | 1.0 | 7.1 | 2.3 | 2.3-7.1 | 4.7 | MR | 3.7 | MR | |
| 64 | REH-2012-4 | 2.0 | 5.5 | 5.0 | 5.0-5.5 | 5.3 | MS | 4.8 | MR | |

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|------|--------------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 65 | JH 31595 | 1.0 | 6.2 | 5.6 | 5.6-6.2 | 5.9 | MS | 4.2 | MR |
| 66 | JH 31537 | 1.3 | 3.9 | 3.6 | 3.6-3.9 | 3.8 | MR | 2.6 | R |
| 67 | JH 31604 | 1.0 | 5.2 | 3.9 | 3.9-5.2 | 4.6 | MR | 4.3 | MR |
| 68 | JH 31600(JH 31627) | 1.0 | 6.3 | 5.7 | 5.7-6.3 | 6.0 | MS | 2.4 | R |
| 69 | JH 31244 | 1.0 | 4.6 | 3.9 | 3.9-4.6 | 4.3 | MR | 1.6 | R |
| 70 | JH 31554 | 3.0 | 3.2 | 5.4 | 3.2-5.4 | 4.3 | MR | 3.5 | MR |
| 71 | AH-1226 | 1.0 | 6.4 | 5.4 | 5.4-6.4 | 5.9 | MS | 6.6 | MS |
| 72 | AH-1262 | 1.0 | 6.7 | 4.3 | 4.3-6.7 | 5.5 | MS | 3.7 | MR |
| 73 | MMH- 2-12-13 | 2.5 | 6.3 | 4.6 | 4.6-6.3 | 5.5 | MS | 2.9 | R |
| 74 | MMH- 3-12-13 | 2.0 | 5.4 | 4.0 | 4.0-5.4 | 4.7 | MR | 4.7 | MR |
| 75 | MMH- 4-12-13 | 2.5 | 6.6 | 3.4 | 3.4-6.6 | 5.0 | MR | 4.5 | MR |
| 76 | MMH- 5-12-13 | 3.5 | 5.4 | 4.0 | 4.0-5.4 | 4.7 | MR | 4.5 | MR |
| 77 | HKH 338 | 2.5 | 6.3 | 4.7 | 4.7-6.3 | 5.5 | MS | 4.1 | MR |
| 78 | HKH 339 | 3.0 | 6.2 | 4.0 | 4.0-6.2 | 5.1 | MR | 3.3 | MR |
| 79 | HKH 340 | 4.0 | 6.8 | 4.7 | 4.7-6.8 | 5.8 | MS | 4.6 | MR |
| 80 | KNMH-4302 | 4.0 | 6.4 | 3.9 | 3.9-6.4 | 5.2 | MS | 4.3 | MR |
| 81 | KNMH-4303 | 4.0 | 3.7 | 3.3 | 3.3-3.7 | 3.5 | MR | 1.5 | R |
| 82 | KNMH-4304 | 3.5 | 4.8 | 4.9 | 4.8-4.9 | 4.9 | MR | 1.9 | R |
| 83 | KNMH-4305 | 3.0 | 4.7 | 4.3 | 4.3-4.7 | 4.5 | MR | 4.7 | MR |
| 84 | KNMH-4010131 | 3.0 | 6.4 | 3.9 | 3.9-6.4 | 5.2 | MS | 1.9 | R |
| 85 | PMH 4(C) | 3.0 | 3.3 | 5.1 | 3.3-5.1 | 4.2 | MR | 3.1 | MR |
| 86 | BIO 9637 (C) | 1.5 | 7.1 | 5.0 | 5.0-7.1 | 6.1 | MS | 4.2 | MR |
| 87 | HM 12(C) | 3.0 | 6.3 | 5.3 | 5.3-6.3 | 5.8 | MS | 8.4 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 7.5 | 6.4 | 6.4-7.5 | 7.0 | S | 8.7 | S |

Contd.

* Data not considered due to low disease pressure

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92) FSR: UDAIPUR (SURYA), MANDYA(CM 500)

| S.No | Genotype | C.RUST (1-5) | RDM (%) | | SDM (%) | | Reaction |
|------|------------------------|--------------|---------|----------|---------|-------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | |
| 1 | QMH-29134 | 1.4 | 65.5 | S | 94.3 | 5.0 | S |
| 2 | QMH-2916 | 1.8 | 36.0 | MS | 74.0 | 5.3 | S |
| 3 | EHL-3412 | 1.9 | 22.5 | MR | 39.2 | 0.0 | MS |
| 4 | EHL-1111 | 1.5 | 72.0 | S | 94.7 | 19.5 | S |
| 5 | EHL-3512 | 2.0 | 15.5 | MR | 77.4 | 2.5 | S |
| 6 | S-6750 | 2.0 | 0.0 | R | 33.1 | 7.9 | MS |
| 7 | RMH-932 | 1.8 | 11.5 | MR | 46.1 | 11.8 | MS |
| 8 | RMH-3591 | 1.7 | 37.0 | MS | 30.8 | 5.6 | MS |
| 9 | PHM-34(W) | 1.8 | 81.0 | S | 100.0 | 2.5 | S |
| 10 | PHM-12(Y) | 2.2 | 66.5 | S | 100.0 | 8.3 | S |
| 11 | LG-3271 | 2.0 | 96.0 | S | 100.0 | 29.3 | S |
| 12 | LG-3282 | 1.7 | 59.5 | S | 100.0 | 8.3 | S |
| 13 | FCH-85 | 1.7 | 64.5 | S | 100.0 | 35.1 | S |
| 14 | FCH-184 | 2.0 | 68.0 | S | 100.0 | 15.0 | S |
| 15 | FCH-11231 | 1.8 | 38.0 | MS | 98.3 | 17.4 | S |
| 16 | KMH-6 | 1.8 | 68.0 | S | 100.0 | 9.2 | S |
| 17 | KMH-84 | 2.1 | 75.5 | S | 100.0 | 25.2 | S |
| 18 | KMH-6681 | 2.1 | 77.5 | S | 100.0 | 6.5 | S |
| 19 | KMH-5951 | 2.2 | 95.0 | S | 100.0 | 23.8 | S |
| 20 | JKMH-4545 | 2.2 | 55.5 | S | 75.0 | 16.5 | S |
| 21 | SAFAL X-2 | 2.2 | 31.0 | MS | 92.6 | 2.6 | S |
| 22 | Kuber Shakthi | 2.1 | 20.0 | MR | 77.7 | 8.3 | S |
| 23 | DAS-MH-304 | 1.9 | 75.0 | S | 98.4 | 5.9 | S |
| 24 | DAS-MH-305 | 1.8 | 34.5 | MS | 54.3 | 11.8 | S |
| 25 | KH-517 Gold | 1.5 | 48.0 | MS | 86.7 | 2.9 | S |
| 26 | KH-2248 | 1.7 | 56.5 | S | 94.6 | 5.6 | S |
| 27 | TH-38 | 1.4 | 35.5 | MS | 100.0 | 3.6 | S |
| 28 | MAHABEEJ-1202(Nirdhar) | 1.3 | 31.0 | MS | 60.9 | 0.0 | S |
| 29 | KDMH-2705 | 1.7 | 8.0 | R | 12.9 | 8.8 | MR |
| 30 | EH-2205 | 1.9 | 39.5 | MS | 93.6 | 8.4 | S |
| 31 | EH-2208 | 1.7 | 39.0 | MS | 100.0 | 5.0 | S |

Contd.

| S.No | Genotype | C.RUST (1-5) | RDM (%) | | SDM (%) | | |
|------|------------|--------------|---------|----------|---------|-------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| 32 | EH-2240 | 1.8 | 26.0 | MS | 100.0 | 9.8 | S |
| 33 | VaMH-08015 | 1.6 | 60.0 | S | 89.7 | 13.6 | S |
| 34 | PMH-209 | 2.3 | 58.5 | S | 81.7 | 8.8 | S |
| 35 | PRMH-2177 | 2.5 | 60.0 | S | 92.8 | 1.8 | S |
| 36 | NMH-1289 | 1.9 | 72.5 | S | 94.4 | 14.2 | S |
| 37 | HTMH-5402 | 2.1 | 20.0 | MR | 41.8 | 10.0 | MS |
| 38 | CMH 10-488 | 1.9 | 14.0 | M R | 98.7 | 13.2 | S |
| 39 | CMH 10-547 | 1.7 | 33.0 | MS | 87.4 | 3.1 | S |
| 40 | CMH 11-582 | 2.3 | 32.0 | MS | 84.6 | 5.9 | S |
| 41 | CMH 11-603 | 1.9 | 37.0 | MS | 87.2 | 16.3 | S |
| 42 | CMH 11-617 | 2.0 | 49.5 | MS | 97.5 | 0.0 | S |
| 43 | IM8478 | 1.8 | 30.0 | MS | 53.3 | 12.5 | S |
| 44 | IM8479 | 2.1 | 17.5 | MR | 55.1 | 0.0 | S |
| 45 | IM8581 | 1.7 | 31.0 | MS | 59.3 | 8.1 | S |
| 46 | IM 7519 | 1.7 | 55.5 | S | 100.0 | 9.6 | S |
| 47 | IM 7501 | 1.4 | 61.0 | S | 93.4 | 12.0 | S |
| 48 | BH 41015 | 1.5 | 87.5 | S | 100.0 | 23.3 | S |
| 49 | BH 41030 | 1.8 | 33.0 | MS | 100.0 | 3.6 | S |
| 50 | BH 41145 | 1.7 | 100.0 | S | 100.0 | 10.7 | S |
| 51 | BH 41150 | 2.1 | 95.5 | S | 100.0 | 0.0 | S |
| 52 | BH 411736 | 2.2 | 55.0 | S | 94.6 | 0.0 | S |
| 53 | BH 411737 | 2.5 | 34.5 | MS | 85.9 | 11.8 | S |
| 54 | BH 411520 | 2.5 | 45.0 | MS | 100.0 | 7.1 | S |
| 55 | VEH 12-1 | 2.7 | 47.0 | MS | 100.0 | 0.0 | S |
| 56 | X35D620 | 2.4 | 41.5 | MS | 100.0 | 2.5 | S |
| 57 | X35D623 | 2.1 | 47.5 | MS | 86.8 | 5.0 | S |
| 58 | X35D602 | 3.8 | 39.0 | MS | 100.0 | 10.0 | S |
| 59 | X35D603 | 1.9 | 25.5 | MS | 100.0 | 12.0 | S |
| 60 | Bio 451 | 1.7 | 19.0 | MR | 9.6 | 2.8 | R |
| 61 | GWH-0711 | 1.7 | 38.5 | MS | 100.0 | 8.3 | S |
| 62 | REH-2012-1 | 1.3 | 63.0 | MS | 97.0 | 3.1 | S |
| 63 | REH-2012-2 | 2.0 | 73.0 | S | 97.2 | 7.7 | S |
| 64 | REH-2012-4 | 1.9 | 62.0 | S | 66.3 | 7.5 | S |

Contd.

| S.No | Genotype | C.RUST (1-5) | RDM (%) | | SDM (%) | | |
|------|--------------------|--------------|---------|----------|---------|-------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| 65 | JH 31595 | 2.1 | 35.5 | MS | 94.5 | 14.6 | S |
| 66 | JH 31537 | 2.3 | 100.0 | S | 100.0 | 7.5 | S |
| 67 | JH 31604 | 3.3 | 10.0 | R | 97.3 | 7.5 | S |
| 68 | JH 31600(JH 31627) | 2.6 | 21.5 | MR | 100.0 | 11.4 | S |
| 69 | JH 31244 | 2.5 | 72.0 | S | 100.0 | 10.0 | S |
| 70 | JH 31554 | 2.5 | 71.0 | S | 100.0 | 0.0 | S |
| 71 | AH-1226 | 2.2 | 64.5 | S | 100.0 | 22.9 | S |
| 72 | AH-1262 | 2.5 | 72.5 | S | 100.0 | 10.0 | S |
| 73 | MMH- 2-12-13 | 1.9 | 30.5 | MS | 100.0 | 13.4 | S |
| 74 | MMH- 3-12-13 | 1.8 | 33.0 | MS | 100.0 | 22.3 | S |
| 75 | MMH- 4-12-13 | 1.9 | 57.0 | S | 100.0 | 39.4 | S |
| 76 | MMH- 5-12-13 | 1.8 | 45.0 | MS | 100.0 | 32.7 | S |
| 77 | HKH 338 | 2.2 | 88.5 | S | 100.0 | 25.8 | S |
| 78 | HKH 339 | 2.2 | 76.5 | S | 100.0 | 25.0 | S |
| 79 | HKH 340 | 2.1 | 78.0 | S | 100.0 | 46.4 | S |
| 80 | KNMH-4302 | 2.2 | 68.0 | S | 100.0 | 34.2 | S |
| 81 | KNMH-4303 | 2.0 | 39.0 | MS | 97.2 | 0.0 | S |
| 82 | KNMH-4304 | 1.9 | 50.0 | MS | 92.2 | 27.8 | S |
| 83 | KNMH-4305 | 2.7 | 51.0 | S | 98.0 | 0.0 | S |
| 84 | KNMH-4010131 | 2.6 | 24.5 | MR | 50.0 | 20.8 | MS |
| 85 | PMH 4(C) | 2.4 | 80.0 | S | 100.0 | 28.6 | S |
| 86 | BIO 9637 (C) | 2.4 | 43.0 | MS | 84.3 | 5.6 | S |
| 87 | HM 12(C) | 2.2 | 85.5 | S | 100.0 | 0.0 | S |
| RC | RES. CHECK | - | - | - | 8.9 | - | R |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 87.0 | S |

Contd.

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NAH-1137)**SUCEPTIBLE CHECK-RDM:** UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|------------------------|---------|-------|------------|-----------|----------|
| | | PANT | DHAU | Range | | |
| 1 | QMH-29134 | 26.1 | 11.8 | 11.8-26.1 | 19.0 | MR |
| 2 | QMH-2916 | 35.0 | 8.3 | 8.3-35.0 | 21.7 | MR |
| 3 | EHL-3412 | 16.7 | 24.0 | 16.7-24.0 | 20.4 | MR |
| 4 | EHL-1111 | 28.2 | 33.3 | 28.2-33.3 | 30.8 | MS |
| 5 | EHL-3512 | 47.2 | 35.0 | 35.0-47.2 | 41.1 | MS |
| 6 | S-6750 | 0.0 | 76.5 | 0.0-76.5 | 38.3 | MS |
| 7 | RMH-932 | 0.0 | 22.2 | 0.0-22.2 | 11.1 | MR |
| 8 | RMH-3591 | 28.7 | 0.0 | 0.0-28.7 | 14.4 | MR |
| 9 | PHM-34(W) | 50.0 | 0.0 | 0.0-50.0 | 25.0 | MR |
| 10 | PHM-12(Y) | 38.9 | 20.0 | 20.0-38.9 | 29.5 | MS |
| 11 | LG-3271 | 0.0 | 31.3 | 0.0-31.3 | 15.7 | MR |
| 12 | LG-3282 | 4.5 | 28.6 | 4.5-28.6 | 16.6 | MR |
| 13 | FCH-85 | 20.2 | 20.0 | 20.0-20.2 | 20.1 | MR |
| 14 | FCH-184 | 34.7 | 70.0 | 34.7-70.0 | 52.4 | S |
| 15 | FCH-11231 | 6.3 | 68.8 | 6.3-68.8 | 37.6 | MS |
| 16 | KMH-6 | 41.1 | 76.9 | 41.1-76.9 | 59.0 | S |
| 17 | KMH-84 | 31.8 | 60.0 | 31.8-60.0 | 45.9 | MS |
| 18 | KMH-6681 | 3.1 | 37.5 | 3.1-37.5 | 20.3 | MR |
| 19 | KMH-5951 | 10.0 | 65.2 | 10.0-65.2 | 37.6 | MS |
| 20 | JKMH-4545 | 58.3 | 45.0 | 45.0-58.3 | 51.7 | S |
| 21 | SAFAL X-2 | 37.4 | 30.8 | 30.8-37.4 | 34.1 | MS |
| 22 | Kuber Shakthi | 23.6 | 66.7 | 23.6-66.7 | 45.2 | MS |
| 23 | DAS-MH-304 | 50.0 | 63.6 | 50.0-63.6 | 56.8 | S |
| 24 | DAS-MH-305 | 0.0 | 83.3 | 0.0-83.3 | 41.7 | MS |
| 25 | KH-517 Gold | 57.3 | 77.8 | 57.3-77.8 | 67.6 | S |
| 26 | KH-2248 | 29.1 | 57.1 | 29.1-57.1 | 43.1 | MS |
| 27 | TH-38 | 65.7 | 60.0 | 60.0-65.7 | 62.9 | S |
| 28 | MAHABEEJ-1202(Nirdhar) | 10.6 | 76.5 | 10.6-76.5 | 43.6 | MS |
| 29 | KDMH-2705 | 50.0 | 26.3 | 26.3-50.0 | 38.2 | MS |
| 30 | EH-2205 | 14.5 | 100.0 | 14.5-100.0 | 57.3 | S |
| 31 | EH-2208 | 22.7 | 25.0 | 22.7-25.0 | 23.9 | MR |

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| 32 | EH-2240 | 22.5 | 66.7 | 22.5-66.7 | 44.6 | MS |
| 33 | VaMH-08015 | 25.7 | 66.7 | 25.7-66.7 | 46.2 | MS |
| 34 | PMH-209 | 56.6 | 29.4 | 29.4-56.6 | 43.0 | MS |
| 35 | PRMH-2177 | 22.3 | 50.0 | 22.3-50.0 | 36.2 | MS |
| 36 | NMH-1289 | 37.7 | 77.8 | 37.7-77.8 | 57.8 | S |
| 37 | HTMH-5402 | 11.8 | 53.3 | 11.8-53.3 | 32.6 | MS |
| 38 | CMH 10-488 | 0.0 | 45.0 | 0.0-45.0 | 22.5 | MR |
| 39 | CMH 10-547 | 0.0 | 23.1 | 0.0-23.1 | 11.6 | MR |
| 40 | CMH 11-582 | 54.4 | 16.7 | 16.7-54.4 | 35.6 | MS |
| 41 | CMH 11-603 | 3.6 | 50.0 | 3.6-50.0 | 26.8 | MS |
| 42 | CMH 11-617 | 10.0 | 30.8 | 10.0-30.8 | 20.4 | MR |
| 43 | IM8478 | 49.4 | 12.5 | 12.5-49.4 | 31.0 | MS |
| 44 | IM8479 | 21.6 | 21.4 | 21.4-21.6 | 21.5 | MR |
| 45 | IM8581 | 0.0 | 68.2 | 0.0-68.2 | 34.1 | MS |
| 46 | IM 7519 | 0.0 | 58.8 | 0.0-58.8 | 29.4 | MS |
| 47 | IM 7501 | 20.7 | 37.5 | 20.7-37.5 | 29.1 | MS |
| 48 | BH 41015 | 13.3 | 94.4 | 13.3-94.4 | 53.9 | S |
| 49 | BH 41030 | 0.0 | 68.4 | 0.0-68.4 | 34.2 | MS |
| 50 | BH 41145 | 40.2 | 52.4 | 40.2-52.4 | 46.3 | MS |
| 51 | BH 41150 | 21.8 | 87.0 | 21.8-87.0 | 54.4 | S |
| 52 | BH 411736 | 54.3 | 63.6 | 54.3-63.6 | 59.0 | S |
| 53 | BH 411737 | 32.7 | 57.9 | 32.7-57.9 | 45.3 | MS |
| 54 | BH 411520 | 28.9 | 38.9 | 28.9-38.9 | 33.9 | MS |
| 55 | VEH 12-1 | 0.0 | 19.2 | 0.0-19.2 | 9.6 | R |
| 56 | X35D620 | 21.6 | 33.3 | 21.6-33.3 | 27.5 | MS |
| 57 | X35D623 | 20.9 | 40.9 | 20.9-40.9 | 30.9 | MS |
| 58 | X35D602 | 0.0 | 45.0 | 0.0-45.0 | 22.5 | MR |
| 59 | X35D603 | 0.0 | 28.6 | 0.0-28.6 | 14.3 | MR |
| 60 | Bio 451 | 16.3 | 25.0 | 16.3-25.0 | 20.7 | MR |
| 61 | GWH-0711 | 66.8 | 13.6 | 13.6-66.8 | 40.2 | MS |
| 62 | REH-2012-1 | 12.5 | 83.3 | 12.5-83.3 | 47.9 | MS |
| 63 | REH-2012-2 | 41.5 | 28.6 | 28.6-41.5 | 35.1 | MS |
| 64 | REH-2012-4 | 19.4 | 52.9 | 19.4-52.9 | 36.2 | MS |

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|--------------------|---------|-------|------------|-----------|----------|
| | | PANT | DHAU | Range | | |
| 65 | JH 31595 | 14.7 | 37.5 | 14.7-37.5 | 26.1 | MS |
| 66 | JH 31537 | 22.2 | 50.0 | 22.2-50.0 | 36.1 | MS |
| 67 | JH 31604 | 25.0 | 27.3 | 25.0-27.3 | 26.2 | MS |
| 68 | JH 31600(JH 31627) | 11.5 | 55.0 | 11.5-55.0 | 33.3 | MS |
| 69 | JH 31244 | 32.5 | 87.5 | 32.5-87.5 | 60.0 | S |
| 70 | JH 31554 | 22.2 | 61.5 | 22.2-61.5 | 41.9 | MS |
| 71 | AH-1226 | 71.4 | 33.3 | 33.3-71.4 | 52.4 | S |
| 72 | AH-1262 | 61.7 | 70.0 | 61.7-70.0 | 65.9 | S |
| 73 | MMH- 2-12-13 | 43.6 | 100.0 | 43.6-100.0 | 71.8 | S |
| 74 | MMH- 3-12-13 | 24.7 | 25.0 | 24.7-25.0 | 24.9 | MR |
| 75 | MMH- 4-12-13 | 31.7 | 40.0 | 31.7-40.0 | 35.9 | MS |
| 76 | MMH- 5-12-13 | 59.3 | 28.6 | 28.6-59.3 | 44.0 | MS |
| 77 | HKH 338 | 56.3 | 60.0 | 56.3-60.0 | 58.2 | S |
| 78 | HKH 339 | 31.7 | 62.5 | 31.7-62.5 | 47.1 | MS |
| 79 | HKH 340 | 42.9 | 80.0 | 42.9-80.0 | 61.5 | S |
| 80 | KNMH-4302 | 45.8 | 55.6 | 45.8-55.6 | 50.7 | S |
| 81 | KNMH-4303 | 41.7 | 50.0 | 41.7-50.0 | 45.9 | MS |
| 82 | KNMH-4304 | 11.1 | 83.3 | 11.1-83.3 | 47.2 | MS |
| 83 | KNMH-4305 | 59.0 | 4.8 | 4.8-59.0 | 31.9 | MS |
| 84 | KNMH-4010131 | 6.3 | 46.2 | 6.3-46.2 | 26.3 | MS |
| 85 | PMH 4(C) | 29.5 | 23.5 | 23.5-29.5 | 26.5 | MS |
| 86 | BIO 9637 (C) | 30.0 | 72.7 | 30.0-72.7 | 51.4 | S |
| 87 | HM 12(C) | 43.6 | 22.2 | 22.2-43.6 | 32.9 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 65.1 | 60.0 | 60.0-65.1 | 62.6 | S |

Contd.

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074), PANTNAGAR (CM600)

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|------|------------------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHAU | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | QMH-29134 | 2.3 | 4.0 | 2.3-4.0 | 3.1 | MR | 10--18 | S |
| 2 | QMH-2916 | 0.8 | 2.0 | 0.8-2.0 | 1.4 | R | 13-21 | S |
| 3 | EHL-3412 | 2.3 | 4.0 | 2.3-4.0 | 3.1 | MR | 12--20 | S |
| 4 | EHL-1111 | 0.8 | 3.0 | 0.8-3.0 | 1.9 | R | 17-27 | S |
| 5 | EHL-3512 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | R | 18-24 | S |
| 6 | S-6750 | 3.5 | 3.5 | 3.5-3.5 | 3.5 | MS | 7--13 | S |
| 7 | RMH-932 | 2.8 | - | 2.8 | 2.8 | MR | 21-30 | S |
| 8 | RMH-3591 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 19-26 | S |
| 9 | PHM-34(W) | 3.3 | 3.0 | 3.0-3.3 | 3.1 | MS | 24-33 | S |
| 10 | PHM-12(Y) | 3.5 | 4.0 | 3.5-4.0 | 3.8 | MS | 18-25 | S |
| 11 | LG-3271 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 20-28 | S |
| 12 | LG-3282 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 10--17 | S |
| 13 | FCH-85 | 1.8 | 3.5 | 1.8-3.5 | 2.6 | MR | 18-27 | S |
| 14 | FCH-184 | 3.3 | 1.3 | 1.3-3.3 | 2.3 | MR | 20-32 | S |
| 15 | FCH-11231 | 3.5 | 1.3 | 1.3-3.5 | 2.4 | MR | 6--12 | S |
| 16 | KMH-6 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 17-24 | S |
| 17 | KMH-84 | 2.5 | 3.5 | 2.5-3.5 | 3.0 | MR | 5--11 | S |
| 18 | KMH-6681 | 2.8 | 2.5 | 2.5-2.8 | 2.6 | MR | 20-28 | S |
| 19 | KMH-5951 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 19-25 | S |
| 20 | JKMH-4545 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 21-30 | S |
| 21 | SAFAL X-2 | 2.0 | 3.5 | 2.0-3.5 | 2.8 | MR | 3--7 | MR |
| 22 | Kuber Shakthi | 2.3 | 2.0 | 2.0-2.3 | 2.1 | MR | 17-26 | S |
| 23 | DAS-MH-304 | 1.0 | 2.5 | 1.0-2.5 | 1.8 | R | 16-29 | S |
| 24 | DAS-MH-305 | 2.8 | 1.5 | 1.5-2.8 | 2.1 | MR | 23-34 | S |
| 25 | KH-517 Gold | 2.8 | 1.3 | 1.3-2.8 | 2.0 | MR | 7--15 | S |
| 26 | KH-2248 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 19-30 | S |
| 27 | TH-38 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 8--16 | S |
| 28 | MAHABEEJ-1202(Nirdhar) | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR | 9--17 | S |
| 29 | KDMH-2705 | 3.5 | 2.5 | 2.5-3.5 | 3.0 | MR | 8--14 | S |
| 30 | EH-2205 | 2.3 | 1.3 | 1.3-2.3 | 1.8 | R | 10--19 | S |
| 31 | EH-2208 | 2.5 | - | 2.5 | 2.5 | MR | 14-23 | S |

Contd.

| S.No | Genotype | CLS (1-5) | | | | Reaction | Cyst/ plant (n=5) | |
|------|------------|-----------|------|---------|-----------|----------|-------------------|----------|
| | | UDAI | DHAU | Range | Av. Score | | UDAI | Reaction |
| 32 | EH-2240 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 17-28 | S |
| 33 | VaMH-08015 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 21-30 | S |
| 34 | PMH-209 | 2.3 | 2.0 | 2.0-2.3 | 2.1 | MR | 16-25 | S |
| 35 | PRMH-2177 | 1.8 | 1.3 | 1.3-1.8 | 1.5 | R | 14-22 | S |
| 36 | NMH-1289 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | 13-20 | S |
| 37 | HTMH-5402 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR | 10--16 | S |
| 38 | CMH 10-488 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS | 4--9 | MR |
| 39 | CMH 10-547 | 3.8 | 1.3 | 1.3-3.8 | 2.5 | MR | 8--15 | S |
| 40 | CMH 11-582 | 4.0 | - | 4.0 | 4.0 | MS | 7--13 | S |
| 41 | CMH 11-603 | 3.8 | - | 3.8 | 3.8 | MS | 11--21 | S |
| 42 | CMH 11-617 | 3.0 | - | 3.0 | 3.0 | MR | 19-24 | S |
| 43 | IM8478 | 2.3 | - | 2.3 | 2.3 | MR | 23-34 | S |
| 44 | IM8479 | 1.3 | - | 1.3 | 1.3 | R | 22-30 | S |
| 45 | IM8581 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | 13-20 | S |
| 46 | IM 7519 | 2.0 | 1.3 | 1.3-2.0 | 1.6 | R | 8--17 | S |
| 47 | IM 7501 | 2.8 | 1.3 | 1.3-2.8 | 2.0 | R | 21-32 | S |
| 48 | BH 41015 | 3.8 | 3.0 | 3.0-3.8 | 3.4 | MS | 18-26 | S |
| 49 | BH 41030 | 2.3 | 1.3 | 1.3-2.3 | 1.8 | R | 10--15 | S |
| 50 | BH 41145 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 16-27 | S |
| 51 | BH 41150 | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 3--8 | MR |
| 52 | BH 411736 | 3.8 | 3.0 | 3.0-3.8 | 3.4 | MS | 12--17 | S |
| 53 | BH 411737 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 15-22 | S |
| 54 | BH 411520 | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 19-28 | S |
| 55 | VEH 12-1 | 1.3 | 1.3 | 1.3-1.3 | 1.3 | R | 15-22 | S |
| 56 | X35D620 | 1.3 | 2.0 | 1.3-2.0 | 1.6 | R | 18-26 | S |
| 57 | X35D623 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 21-33 | S |
| 58 | X35D602 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 10--16 | S |
| 59 | X35D603 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 7--12 | S |
| 60 | Bio 451 | 3.3 | 2.0 | 2.0-3.3 | 2.6 | MR | 9--12 | S |
| 61 | GWH-0711 | 2.8 | 2.5 | 2.5-2.8 | 2.6 | MR | 23-35 | S |
| 62 | REH-2012-1 | 4.0 | 2.0 | 2.0-4.0 | 3.0 | MR | 29-38 | S |
| 63 | REH-2012-2 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS | 12--20 | S |
| 64 | REH-2012-4 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 25-36 | S |

Contd.

| S.No | Genotype | CLS (1-5) | | | Cyst/ plant (n=5) | | | |
|-------|--------------------|-----------|------|---------|-------------------|----------|--------|----------|
| | | UDAI | DHAU | Range | Av. Score | Reaction | UDAI | Reaction |
| 65 | JH 31595 | 3.5 | 3.0 | 3.0-3.5 | 3.3 | MS | 23-32 | S |
| 66 | JH 31537 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS | 11--17 | S |
| 67 | JH 31604 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | 12--21 | S |
| 68 | JH 31600(JH 31627) | 1.5 | 1.3 | 1.3-1.5 | 1.4 | R | 3--3 | MR |
| 69 | JH 31244 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 10--18 | S |
| 70 | JH 31554 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | 8-14 | S |
| 71 | AH-1226 | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 24-34 | S |
| 72 | AH-1262 | 2.5 | 1.5 | 1.5-2.5 | 2.0 | R | 9--16 | S |
| 73 | MMH- 2-12-13 | 3.8 | 3.5 | 3.5-3.8 | 3.6 | MS | 11--19 | S |
| 74 | MMH- 3-12-13 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 15-23 | S |
| 75 | MMH- 4-12-13 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 18-28 | S |
| 76 | MMH- 5-12-13 | 2.3 | 1.5 | 1.5-2.3 | 1.9 | R | 22-34 | S |
| 77 | HKH 338 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 28-37 | S |
| 78 | HKH 339 | 4.0 | 2.0 | 2.0-4.0 | 3.0 | MR | 13-20 | S |
| 79 | HKH 340 | 3.5 | 2.0 | 2.0-3.5 | 2.8 | MR | 10--18 | S |
| 80 | KNMH-4302 | 4.3 | 3.0 | 3.0-4.3 | 3.6 | MS | 23-35 | S |
| 81 | KNMH-4303 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 8--16 | S |
| 82 | KNMH-4304 | 1.3 | 1.3 | 1.3-1.3 | 1.3 | R | 15-26 | S |
| 83 | KNMH-4305 | 1.8 | 1.3 | 1.3-1.8 | 1.5 | R | 14-22 | S |
| 84 | KNMH-4010131 | 2.3 | 3.5 | 2.3-3.5 | 2.9 | MR | 3--9 | MR |
| 85 | PMH 4(C) | 3.0 | 2.5 | 2.5-3.0 | 2.8 | MR | 11--17 | S |
| 86 | BIO 9637 (C) | 1.3 | 1.3 | 1.3-1.3 | 1.3 | R | 14-24 | S |
| 87 | HM 12(C) | 3.5 | - | 3.5 | 3.5 | MS | 10--20 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 29-38 | S |

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)
 SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

Table 3. Disease screening of IVT (early maturity) maize hybrids (Trial 63)

| | | MLB (1-5) | | | | | | | | |
|------|-------------|-----------|------|------|-------|------|---------|-----------|----------|--|
| S.No | Genotype | DHOL | KARN | LUDH | DHAU* | DELH | Range | Av. Score | Reaction | |
| 1 | LG-3181 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 3.0-4.0 | 3.8 | MS | |
| 2 | DMH-63 | 1.5 | 2.5 | 2.3 | 4.0 | 2.5 | 1.5-4.0 | 2.6 | MR | |
| 3 | DH-264 | 3.5 | 3.0 | 2.8 | 4.0 | 3.0 | 2.8-4.0 | 3.3 | MS | |
| 4 | DH-265 | 2.5 | 2.5 | 2.3 | 3.0 | 2.5 | 2.3-3.0 | 2.6 | MR | |
| 5 | FH-3664 | 4.0 | 1.0 | 2.3 | 1.5 | 2.0 | 1.0-4.0 | 2.2 | MR | |
| 6 | FH-3669 | 1.5 | 2.0 | 2.3 | 1.3 | 1.5 | 1.3-2.3 | 1.7 | R | |
| 7 | B-52 | 1.5 | 2.0 | 2.0 | 1.3 | 2.5 | 1.3-2.5 | 1.9 | R | |
| 8 | EH-2211 | 4.0 | 2.5 | 3.8 | 4.0 | 3.0 | 2.5-4.0 | 3.5 | MS | |
| 9 | EH-2214 | 4.5 | 2.0 | 2.0 | 1.3 | 2.0 | 1.3-4.5 | 2.4 | MR | |
| 10 | EH-2233 | 3.5 | 1.0 | 1.8 | 2.5 | 2.0 | 1.0-3.5 | 2.2 | MR | |
| 11 | NMH-1258 | 1.5 | 2.5 | 2.5 | 2.0 | 2.0 | 1.5-2.5 | 2.1 | MR | |
| 12 | CMH 11-579 | 1.0 | 1.5 | 2.0 | 2.5 | 2.0 | 1.0-2.5 | 1.8 | R | |
| 13 | CMH 11-595 | 2.0 | 1.5 | 2.5 | 2.0 | 2.0 | 1.5-2.5 | 2.0 | R | |
| 14 | CMH 11-611 | 2.5 | 1.5 | 2.3 | 2.5 | 2.0 | 1.5-2.5 | 2.2 | MR | |
| 15 | CMH 11-626 | 1.5 | 2.0 | 1.8 | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | |
| 16 | CMH 11-629 | 2.5 | 1.5 | 2.0 | 1.5 | 2.0 | 1.5-2.5 | 1.9 | R | |
| 17 | BH 411305 | 2.5 | 2.0 | 3.3 | 3.0 | 2.5 | 2.0-3.3 | 2.7 | MR | |
| 18 | Bio 9720 | 3.5 | 2.5 | 2.5 | 3.0 | 2.5 | 2.5-3.5 | 2.8 | MR | |
| 19 | GWH-0712 | 4.0 | 2.0 | 3.3 | 4.0 | 3.5 | 2.0-4.0 | 3.4 | MS | |
| 20 | GWH-0902 | 4.5 | 2.0 | 3.5 | 4.0 | 3.5 | 2.0-4.5 | 3.5 | MS | |
| 21 | GYH-0653 | 3.0 | 3.0 | 3.8 | 3.0 | 2.5 | 2.5-3.8 | 3.0 | MR | |
| 22 | JH 31610 | 3.0 | 3.0 | 2.8 | 2.5 | 2.5 | 2.5-3.0 | 2.8 | MR | |
| 23 | JH 31613 | 2.0 | 3.0 | 2.5 | 2.5 | 2.5 | 2.0-3.0 | 2.5 | MR | |
| 24 | AH-1261 | 3.0 | 2.0 | 2.0 | 4.0 | 2.5 | 2.0-4.0 | 2.7 | MR | |
| 25 | AH-1219 | 3.5 | 2.5 | 3.8 | 3.5 | 3.5 | 2.5-3.8 | 3.4 | MS | |
| 26 | MEH-1-12-13 | 1.5 | 1.5 | 3.3 | 3.5 | 2.5 | 1.5-3.5 | 2.5 | MR | |
| 27 | HKH 341 | 2.0 | 2.5 | 2.3 | 4.0 | 2.0 | 2.0-4.0 | 2.6 | MR | |
| 28 | KNMH-4301 | 1.5 | 2.0 | 2.3 | 3.0 | 2.0 | 1.5-3.0 | 2.2 | MR | |
| 29 | PMH 5 (C) | 1.5 | 1.5 | 3.3 | 2.5 | 2.5 | 1.5-3.3 | 2.3 | MR | |
| 30 | Prakash (C) | 3.0 | 2.5 | 2.3 | 3.0 | 3.0 | 2.3-3.0 | 2.8 | MR | |
| RC | RES. CHECK | - | - | - | - | - | - | - | - | |
| SC | SUS. CHECK | 5.0 | - | 4.3 | - | 4.5 | 4.3-5.0 | 4.6 | S | |

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

Contd.

| TLB(1-5) | | | | | | | | |
|----------|-------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 1 | LG-3181 | 1.3 | 1.5 | 4.8 | 3.3 | 1.3-4.8 | 2.7 | MR |
| 2 | DMH-63 | 1.8 | 3.0 | 4.0 | 2.9 | 1.8-4.0 | 2.9 | MR |
| 3 | DH-264 | 1.5 | 4.0 | 4.5 | 3.4 | 1.5-4.5 | 3.3 | MS |
| 4 | DH-265 | 2.5 | 3.5 | 4.0 | 3.1 | 2.5-4.0 | 3.3 | MS |
| 5 | FH-3664 | 2.5 | 3.0 | 4.5 | 4.0 | 2.5-4.5 | 3.5 | MS |
| 6 | FH-3669 | 2.0 | 2.5 | 3.5 | 3.6 | 2.0-3.6 | 2.9 | MR |
| 7 | B-52 | 2.0 | 3.0 | 4.8 | 3.1 | 2.0-4.8 | 3.2 | MS |
| 8 | EH-2211 | 2.3 | 3.5 | 4.5 | 3.3 | 2.3-4.5 | 3.4 | MS |
| 9 | EH-2214 | 2.0 | 1.5 | 3.0 | 3.0 | 1.5-3.0 | 2.4 | MR |
| 10 | EH-2233 | 1.8 | 1.5 | 2.5 | 2.9 | 1.5-2.9 | 2.2 | MR |
| 11 | NMH-1258 | 1.5 | 3.0 | 4.3 | 2.8 | 1.5-4.3 | 2.9 | MR |
| 12 | CMH 11-579 | 2.0 | 1.0 | 4.5 | 3.0 | 1.0-4.5 | 2.6 | MR |
| 13 | CMH 11-595 | 2.5 | 1.0 | 3.3 | 3.2 | 1.0-3.3 | 2.5 | MR |
| 14 | CMH 11-611 | 2.5 | 2.5 | 2.8 | 3.1 | 2.5-3.1 | 2.7 | MR |
| 15 | CMH 11-626 | 1.5 | 2.0 | 3.5 | 3.1 | 1.5-3.5 | 2.5 | MR |
| 16 | CMH 11-629 | 1.8 | 1.5 | 3.0 | 3.2 | 1.5-3.2 | 2.4 | MR |
| 17 | BH 411305 | 2.0 | 2.5 | 4.8 | 3.4 | 2.0-4.8 | 3.2 | MS |
| 18 | Bio 9720 | 2.5 | 2.0 | 4.0 | 3.1 | 2.0-4.0 | 2.9 | MR |
| 19 | GWH-0712 | 2.5 | 2.0 | 4.7 | 3.7 | 2.0-4.7 | 3.2 | MS |
| 20 | GWH-0902 | 3.0 | 3.5 | 4.0 | 4.0 | 3.0-4.0 | 3.6 | MS |
| 21 | GYH-0653 | 2.5 | 1.5 | 4.5 | 2.9 | 1.5-4.5 | 2.9 | MR |
| 22 | JH 31610 | 2.8 | 4.0 | 5.0 | 3.5 | 2.8-5.0 | 3.8 | MS |
| 23 | JH 31613 | 4.3 | 4.5 | 4.5 | 3.9 | 3.9-4.5 | 4.3 | S |
| 24 | AH-1261 | 3.0 | 3.5 | 4.5 | 3.1 | 3.0-4.5 | 3.5 | MS |
| 25 | AH-1219 | 3.3 | 3.0 | 4.8 | 3.6 | 3.0-4.8 | 3.7 | MS |
| 26 | MEH-1-12-13 | 1.3 | 2.5 | 3.8 | 3.7 | 1.3-3.8 | 2.8 | MR |
| 27 | HKH 341 | 1.5 | 2.5 | 3.3 | 3.9 | 1.5-3.9 | 2.8 | MR |
| 28 | KNMH-4301 | 2.0 | 1.0 | 4.3 | 3.7 | 1.0-4.3 | 2.8 | MR |
| 29 | PMH 5 (C) | 4.5 | 4.5 | 5.0 | 3.5 | 3.5-5.0 | 4.4 | S |
| 30 | Prakash (C) | 3.0 | 4.5 | 4.8 | 3.7 | 3.0-4.8 | 4.0 | S |
| RC | RES. CHECK | - | - | 1.3 | - | 1.3 | 1.3 | R |
| SC | SUS. CHECK | 4.5 | 4.5 | 5.0 | - | 4.5-5.0 | 4.7 | S |

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)
SUSCEPTIBLE CHECK- TLB : ALMORA(V351 & DHARI), MANDYA (219J)

Contd.

| BLSB (1-5) | | | | | | | | | |
|------------|-------------|------|------|------|-------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU* | DELH | Range | Av. Score | Reaction |
| 1 | LG-3181 | 4.0 | 3.3 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 2 | DMH-63 | 3.0 | 3.5 | 4.3 | 4.0 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 3 | DH-264 | 3.0 | 3.5 | 5.0 | 3.5 | 2.5 | 2.5-5.0 | 3.5 | MS |
| 4 | DH-265 | 3.0 | 3.8 | 4.5 | NG | 3.0 | 3.0-4.5 | 3.6 | MS |
| 5 | FH-3664 | 3.0 | 3.8 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.6 | MS |
| 6 | FH-3669 | 3.0 | 3.5 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.7 | MS |
| 7 | B-52 | 3.0 | 4.0 | 4.3 | 3.5 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 8 | EH-2211 | 3.0 | 4.0 | 4.3 | 3.5 | 2.5 | 2.5-4.3 | 3.5 | MS |
| 9 | EH-2214 | 3.0 | 4.0 | 3.0 | 3.0 | 2.5 | 2.5-4.0 | 3.1 | MS |
| 10 | EH-2233 | 3.0 | 4.0 | 4.0 | 3.0 | 2.0 | 2.0-4.0 | 3.2 | MS |
| 11 | NMH-1258 | 3.0 | 3.5 | 4.0 | 2.0 | 2.5 | 2.0-4.0 | 3.0 | MR |
| 12 | CMH 11-579 | 2.0 | 3.3 | 3.0 | 2.5 | 3.0 | 2.5-3.3 | 2.8 | MR |
| 13 | CMH 11-595 | 2.0 | 3.0 | 2.8 | 2.5 | 2.5 | 2.5-3.0 | 2.6 | MR |
| 14 | CMH 11-611 | 2.0 | 3.3 | 4.0 | 3.5 | 2.5 | 2.5-4.0 | 3.0 | MR |
| 15 | CMH 11-626 | 2.0 | 3.5 | 3.5 | 3.0 | 2.5 | 2.0-3.5 | 2.9 | MR |
| 16 | CMH 11-629 | 2.0 | 3.5 | 3.5 | 2.5 | 2.5 | 2.0-3.5 | 2.8 | MR |
| 17 | BH 411305 | 3.0 | 3.8 | 4.8 | 2.0 | 3.0 | 2.0-4.8 | 3.3 | MS |
| 18 | Bio 9720 | 3.0 | 3.5 | 4.3 | 3.0 | 3.5 | 3.0-4.3 | 3.5 | MS |
| 19 | GWH-0712 | 3.0 | 3.5 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.3 | MS |
| 20 | GWH-0902 | 3.0 | 3.8 | 4.0 | 3.0 | 3.0 | 3.0-4.0 | 3.4 | MS |
| 21 | GYH-0653 | 3.0 | 3.8 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.7 | MS |
| 22 | JH 31610 | 3.0 | 3.8 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.7 | MS |
| 23 | JH 31613 | 3.5 | 3.8 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.7 | MS |
| 24 | AH-1261 | 3.0 | 4.3 | 4.5 | 4.0 | 3.5 | 3.5-4.5 | 3.9 | MS |
| 25 | AH-1219 | 3.0 | 4.0 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.8 | MS |
| 26 | MEH-1-12-13 | 2.0 | 4.0 | 4.8 | 4.0 | 2.5 | 2.0-4.8 | 3.5 | MS |
| 27 | HKH 341 | 3.0 | 3.8 | 5.0 | 3.5 | 2.5 | 2.5-5.0 | 3.6 | MS |
| 28 | KNMH-4301 | 3.0 | 3.5 | 3.8 | 4.0 | 2.5 | 2.5-4.0 | 3.4 | MS |
| 29 | PMH 5 (C) | 3.0 | 4.0 | 5.0 | 4.0 | 2.5 | 2.5-5.0 | 3.7 | MS |
| 30 | Prakash (C) | 3.0 | 3.8 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.7 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | - | 5.0 | 3.5 | 3.0 | 3.0-5.0 | 3.8 | MS |

Contd.

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501) BHUBNESWER (Hishell)

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|------|-------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDHA | Reaction |
| 1 | LG-3181 | 1.0 | 7.4 | 4.7 | 4.7-7.4 | 6.0 | MR | 2.8 | R |
| 2 | DMH-63 | 1.0 | 6.2 | 3.7 | 3.7-6.2 | 5.0 | MR | 5.1 | MS |
| 3 | DH-264 | 1.0 | 7.3 | 5.4 | 5.4-7.3 | 6.4 | MS | 4.0 | MR |
| 4 | DH-265 | 1.0 | 5.6 | 5.3 | 5.3-5.6 | 5.5 | MS | 3.6 | MR |
| 5 | FH-3664 | 1.5 | 6.7 | 4.1 | 4.1-6.7 | 5.4 | MS | 5.0 | MR |
| 6 | FH-3669 | 1.0 | 7.8 | 4.7 | 4.7-7.8 | 6.3 | MS | 2.8 | R |
| 7 | B-52 | 1.0 | 5.5 | 4.7 | 4.7-5.5 | 5.1 | MS | 3.9 | MR |
| 8 | EH-2211 | 1.0 | 7.0 | 4.6 | 4.6-7.0 | 5.8 | MS | 4.3 | MR |
| 9 | EH-2214 | 1.0 | 5.5 | 5.1 | 5.1-5.5 | 5.3 | MS | 2.9 | R |
| 10 | EH-2233 | 1.0 | 8.1 | 4.0 | 4.0-8.1 | 6.0 | MR | 3.6 | MR |
| 11 | NMH-1258 | 1.0 | 5.4 | 4.7 | 4.7-5.4 | 5.0 | MR | 1.4 | R |
| 12 | CMH 11-579 | 1.0 | 4.2 | 4.6 | 4.2-4.6 | 4.4 | MR | 3.4 | MR |
| 13 | CMH 11-595 | 1.0 | 7.7 | 5.0 | 5.0-7.7 | 6.4 | MS | 1.6 | R |
| 14 | CMH 11-611 | 1.0 | 5.9 | 4.9 | 4.9-5.9 | 5.4 | MS | 5.2 | MS |
| 15 | CMH 11-626 | 1.0 | 6.0 | 4.6 | 4.6-6.0 | 5.3 | MS | 3.6 | MR |
| 16 | CMH 11-629 | 1.0 | 6.2 | 4.9 | 4.9-6.2 | 5.6 | MS | 2.1 | R |
| 17 | BH 411305 | 1.0 | 3.8 | 4.7 | 3.8-4.7 | 4.3 | MR | 2.3 | R |
| 18 | Bio 9720 | 1.0 | 3.6 | 5.6 | 3.6-5.6 | 4.6 | MR | 5.5 | MS |
| 19 | GWH-0712 | 1.0 | 3.6 | 4.6 | 3.6-4.6 | 4.1 | MR | 3.8 | MR |
| 20 | GWH-0902 | 1.0 | 8.0 | 5.7 | 5.7-8.0 | 6.9 | MS | 4.0 | MR |
| 21 | GYH-0653 | 1.0 | 4.0 | 5.3 | 4.0-5.3 | 4.7 | MR | 4.3 | MR |
| 22 | JH 31610 | 1.0 | 5.5 | 4.1 | 4.1-5.5 | 4.8 | MR | 1.8 | R |
| 23 | JH 31613 | 1.0 | 6.0 | 5.0 | 5.0-6.0 | 5.5 | MS | 1.7 | R |
| 24 | AH-1261 | 1.0 | 7.9 | 5.6 | 5.6-7.9 | 6.8 | MS | 3.0 | R |
| 25 | AH-1219 | 1.0 | 5.9 | 5.0 | 5.0-5.9 | 5.5 | MS | 3.8 | MR |
| 26 | MEH-1-12-13 | 1.0 | 5.5 | 4.6 | 4.6-5.5 | 5.0 | MR | 4.9 | MR |
| 27 | HKH 341 | 1.0 | 8.1 | 4.1 | 4.1-8.1 | 6.1 | MS | 3.1 | MR |
| 28 | KNMH-4301 | 1.0 | 3.9 | 5.6 | 3.9-5.6 | 4.8 | MR | 2.1 | R |
| 29 | PMH 5 (C) | 1.0 | 6.9 | 4.3 | 4.3-6.9 | 5.6 | MS | 3.7 | MR |
| 30 | Prakash (C) | 1.0 | 7.5 | 4.7 | 4.7-7.5 | 6.1 | MS | 3.9 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 8.6 | 6.0 | 6.0-8.6 | 7.3 | S | 8.7 | S |

Contd.

* Data not considered due to low disease pressure

| S.No | Genotype | C.RUST (1-5) | | | SDM (%) | | |
|------|-------------|--------------|-------|----------|---------|-------|----------|
| | | ARB* | UDHA | Reaction | MAND | COIM* | Reaction |
| 1 | LG-3181 | 1.8 | 100.0 | S | 100.0 | 17.1 | S |
| 2 | DMH-63 | 1.8 | 25.5 | MS | 69.6 | 7.1 | S |
| 3 | DH-264 | 1.8 | 69.5 | S | 100.0 | 2.5 | S |
| 4 | DH-265 | 2.0 | 77.5 | S | 10.0 | 19.2 | R |
| 5 | FH-3664 | 2.0 | 59.5 | S | 100.0 | 16.2 | S |
| 6 | FH-3669 | 1.7 | 14.0 | MR | 100.0 | 12.7 | S |
| 7 | B-52 | 1.6 | 21.0 | MR | 98.9 | 8.3 | S |
| 8 | EH-2211 | 1.4 | 77.0 | S | 100.0 | 25.3 | S |
| 9 | EH-2214 | 1.3 | 37.0 | MS | 100.0 | 5.0 | S |
| 10 | EH-2233 | 1.1 | 27.0 | MS | 100.0 | 2.9 | S |
| 11 | NMH-1258 | 1.7 | 59.0 | S | 100.0 | 13.9 | S |
| 12 | CMH 11-579 | 1.9 | 26.5 | MS | 100.0 | 5.6 | S |
| 13 | CMH 11-595 | 1.8 | 29.5 | MS | 100.0 | 0.0 | S |
| 14 | CMH 11-611 | 1.9 | 41.0 | MS | 100.0 | 10.0 | S |
| 15 | CMH 11-626 | 1.7 | 14.0 | MR | 100.0 | 5.6 | S |
| 16 | CMH 11-629 | 1.9 | 40.5 | MS | 100.0 | 0.0 | S |
| 17 | BH 411305 | 1.3 | 74.0 | S | 100.0 | 2.6 | S |
| 18 | Bio 9720 | 1.4 | 89.5 | S | 100.0 | 15.6 | S |
| 19 | GWH-0712 | 1.4 | 78.0 | S | 100.0 | 17.5 | S |
| 20 | GWH-0902 | 1.2 | 89.5 | S | 100.0 | 12.5 | S |
| 21 | GYH-0653 | 1.1 | 62.5 | S | 100.0 | 0.0 | S |
| 22 | JH 31610 | 1.7 | 80.0 | S | 100.0 | 17.5 | S |
| 23 | JH 31613 | 1.6 | 93.5 | S | 100.0 | 16.8 | S |
| 24 | AH-1261 | 1.5 | 35.5 | MS | 100.0 | 11.3 | S |
| 25 | AH-1219 | 1.3 | 63.0 | S | 100.0 | 27.5 | S |
| 26 | MEH-1-12-13 | 1.3 | 56.0 | S | 100.0 | 2.8 | S |
| 27 | HKH 341 | 1.9 | 89.5 | S | 100.0 | 2.3 | S |
| 28 | KNMH-4301 | 1.5 | 17.0 | MR | 100.0 | 0.0 | S |
| 29 | PMH 5 (C) | 1.3 | 95.0 | S | 100.0 | 11.1 | S |
| 30 | Prakash (C) | 1.8 | 94.5 | S | 100.0 | 20.0 | S |
| RC | RES. CHECK | - | - | - | 10.7 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 93.0 | S |

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)

SUCEPTIBLE CHECK-RDM: UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|-------------|---------|-------|-----------|-----------|----------|
| | | PANT | DHAU* | Range | | |
| 1 | LG-3181 | 15.5 | 8.7 | 8.7-15.5 | 12.1 | MR |
| 2 | DMH-63 | 0.0 | 65.0 | 0.0-65.0 | 32.5 | MS |
| 3 | DH-264 | 31.5 | 58.8 | 31.5-58.8 | 45.2 | MS |
| 4 | DH-265 | 12.5 | 85.7 | 12.5-85.7 | 49.1 | MS |
| 5 | FH-3664 | 52.8 | 92.9 | 52.8-92.9 | 72.9 | S |
| 6 | FH-3669 | 22.5 | 75.0 | 22.5-75.0 | 48.8 | MS |
| 7 | B-52 | 9.1 | 25.0 | 9.1-25.0 | 17.1 | MR |
| 8 | EH-2211 | 45.0 | 80.0 | 45.0-80.0 | 62.5 | S |
| 9 | EH-2214 | 26.8 | 57.1 | 26.8-57.1 | 42.0 | MS |
| 10 | EH-2233 | 26.9 | 80.0 | 26.9-80.0 | 53.5 | S |
| 11 | NMH-1258 | 15.5 | 20.0 | 15.5-20.0 | 17.8 | MR |
| 12 | CMH 11-579 | 3.3 | - | 3.3 | 3.3 | R |
| 13 | CMH 11-595 | 16.7 | - | 16.7 | 16.7 | MR |
| 14 | CMH 11-611 | 11.3 | 40.0 | 11.3-40.0 | 25.7 | MS |
| 15 | CMH 11-626 | 5.0 | 33.3 | 5.0-33.3 | 19.2 | MR |
| 16 | CMH 11-629 | 8.3 | 19.0 | 8.3-19.0 | 13.7 | MR |
| 17 | BH 411305 | 6.3 | 55.6 | 6.3-55.6 | 31.0 | MS |
| 18 | Bio 9720 | 6.3 | 29.2 | 6.3-29.2 | 17.8 | MR |
| 19 | GWH-0712 | 35.2 | 47.8 | 35.2-47.8 | 41.5 | MS |
| 20 | GWH-0902 | 18.6 | 66.7 | 18.6-66.7 | 42.7 | MS |
| 21 | GYH-0653 | 25.0 | 50.0 | 25.0-50.0 | 37.5 | MS |
| 22 | JH 31610 | 3.8 | 0.0 | 0.0-3.8 | 1.9 | R |
| 23 | JH 31613 | 15.0 | 60.0 | 15.0-60.0 | 37.5 | MS |
| 24 | AH-1261 | 25.8 | 46.7 | 25.8-46.7 | 36.3 | MS |
| 25 | AH-1219 | 21.5 | 41.2 | 21.5-41.2 | 31.4 | MS |
| 26 | MEH-1-12-13 | 0.0 | 31.3 | 0.0-31.3 | 15.7 | MR |
| 27 | HKH 341 | 33.0 | 25.0 | 25.0-33.0 | 29.0 | MS |
| 28 | KNMH-4301 | 26.1 | 5.6 | 5.6-26.1 | 15.9 | MR |
| 29 | PMH 5 (C) | 21.1 | 22.2 | 21.1-22.2 | 21.7 | MR |
| 30 | Prakash (C) | 27.4 | 42.1 | 27.4-42.1 | 34.8 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 63.8 | 30.8 | 30.8-63.8 | 47.3 | MS |

Contd.

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074)

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|-------|-------------|-----------|-------|---------|-----------|-------------------|--------|----------|
| | | UDHA | DHAU* | Range | Av. Score | Reaction | UDHA | Reaction |
| 1 | LG-3181 | 4.0 | 2.5 | 2.5-4.0 | 3.3 | MS | 9--18 | S |
| 2 | DMH-63 | 4.3 | 2.5 | 2.5-4.3 | 3.4 | MS | 19--29 | S |
| 3 | DH-264 | 3.8 | 2.5 | 2.5-3.8 | 3.1 | MS | 23--31 | S |
| 4 | DH-265 | 2.8 | 2.5 | 2.5-2.8 | 2.6 | MR | 11--18 | S |
| 5 | FH-3664 | 1.3 | 2.0 | 1.3-2.0 | 1.6 | R | 23--35 | S |
| 6 | FH-3669 | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R | 4--7 | MR |
| 7 | B-52 | 2.8 | 1.3 | 1.3-2.8 | 2.0 | R | 9--15 | S |
| 8 | EH-2211 | 4.0 | 2.5 | 2.5-4.0 | 3.3 | MS | 11--18 | S |
| 9 | EH-2214 | 1.8 | 1.3 | 1.3-1.8 | 1.5 | R | 16--23 | S |
| 10 | EH-2233 | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R | 12--17 | S |
| 11 | NMH-1258 | 4.3 | 3.0 | 3.0-4.3 | 3.6 | MS | 8--13 | S |
| 12 | CMH 11-579 | 4.3 | 2.0 | 2.0-4.3 | 3.1 | MS | 10--19 | S |
| 13 | CMH 11-595 | 1.8 | 1.5 | 1.5-1.8 | 1.6 | R | 8--15 | S |
| 14 | CMH 11-611 | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R | 10--18 | S |
| 15 | CMH 11-626 | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R | 9--16 | S |
| 16 | CMH 11-629 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | 3--8 | MR |
| 17 | BH 411305 | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R | 11--17 | S |
| 18 | Bio 9720 | 1.3 | 1.3 | 1.3-1.3 | 1.3 | R | 20--31 | S |
| 19 | GWH-0712 | 4.0 | - | 4.0 | 4.0 | MS | 23--34 | S |
| 20 | GWH-0902 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 20--30 | S |
| 21 | GYH-0653 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR | 12--18 | S |
| 22 | JH 31610 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 7--13 | S |
| 23 | JH 31613 | 1.3 | 2.0 | 1.3-2.0 | 1.6 | R | 9--16 | S |
| 24 | AH-1261 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 11--20 | S |
| 25 | AH-1219 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR | 8--14 | S |
| 26 | MEH-1-12-13 | 2.3 | 2.0 | 2.0-2.3 | 2.1 | MR | 19--27 | S |
| 27 | HKH 341 | 1.8 | 2.5 | 1.8-2.5 | 2.1 | MR | 16--23 | S |
| 28 | KNMH-4301 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR | 20--32 | S |
| 29 | PMH 5 (C) | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 10--20 | S |
| 30 | Prakash (C) | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 23--32 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| Check | NAVJOT | - | - | - | - | - | 25--37 | S |

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)
 SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

Contd.

Table 4. Disease screening of IVT (extra early maturity) maize hybrids (Trial. 64)

| S.No | Genotype | MLB (1-5) | | | | | Range | Av. Score | Reaction |
|------|---------------------|-----------|------|------|------|------|---------|-----------|----------|
| | | DHOL | KARN | LUDH | DHAU | DELH | | | |
| 1 | DH-266 | 3.5 | 1.5 | 2.5 | 4.0 | 3.0 | 1.5-4.0 | 2.9 | MR |
| 2 | DH-267 | 2.5 | 2.0 | 3.3 | 3.5 | 3.5 | 2.0-3.5 | 3.0 | MR |
| 3 | DH-268 | 4.5 | 1.5 | 2.8 | 4.0 | 3.0 | 1.5-4.5 | 3.2 | MS |
| 4 | FH-3641 | 2.5 | 1.5 | 2.0 | 2.5 | 1.5 | 1.5-2.5 | 2.0 | R |
| 5 | KH-7502 | 3.0 | 2.5 | 2.8 | 3.0 | 4.0 | 2.5-4.0 | 3.0 | MR |
| 6 | DH-269 | 4.0 | 2.0 | 2.5 | 3.5 | 2.5 | 2.0-4.0 | 2.9 | MR |
| 7 | DH-270 | 3.5 | 1.5 | 3.5 | 3.0 | 3.5 | 1.5-3.5 | 3.0 | MR |
| 8 | DH-271 | 2.5 | 2.5 | 3.3 | 3.0 | 2.5 | 2.5-3.3 | 2.8 | MR |
| 9 | AH-1212 | 3.0 | 2.0 | 2.8 | 3.5 | 3.0 | 2.0-3.5 | 2.9 | MR |
| 10 | Vivek QPM 9 (C) | 4.5 | 2.0 | 2.3 | 3.5 | 2.0 | 2.0-4.5 | 2.9 | MR |
| 11 | Vivek Hybrid 9 (C) | 4.5 | 2.0 | 2.3 | 3.0 | 2.0 | 2.0-4.5 | 2.8 | MR |
| 12 | Vivek Hybrid 21 (C) | 3.5 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0-3.5 | 2.6 | MR |
| 13 | Vivek Hybrid 43 (C) | 3.0 | 1.0 | 2.5 | 2.0 | 2.0 | 1.0-3.0 | 2.1 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 3.8 | - | 4.5 | 3.8-4.5 | 4.3 | S |

Contd.

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

| S.No | Genotype | TLB (1-5) | | | | Range | Av. Score | Reaction |
|------|---------------------|-----------|------|------|-------|---------|-----------|----------|
| | | BAJA | ALMO | MAND | ARBH* | | | |
| 1 | DH-266 | 3.3 | 3.5 | 4.8 | 3.4 | 3.3-4.8 | 3.7 | MS |
| 2 | DH-267 | 2.5 | 4.0 | 4.8 | 3.9 | 2.5-4.8 | 3.8 | MS |
| 3 | DH-268 | 3.3 | 4.0 | 4.8 | 3.1 | 3.1-4.0 | 3.8 | MS |
| 4 | FH-3641 | 3.5 | 3.0 | 5.0 | 3.8 | 3.0-5.0 | 3.8 | MS |
| 5 | KH-7502 | 2.5 | 2.5 | 4.8 | 3.9 | 2.5-4.8 | 3.4 | MS |
| 6 | DH-269 | 2.8 | 3.5 | 4.8 | 4.0 | 2.8-4.8 | 3.8 | MS |
| 7 | DH-270 | 2.5 | 3.0 | 5.0 | 3.8 | 2.5-5.0 | 3.6 | MS |
| 8 | DH-271 | 2.3 | 2.5 | 4.8 | 4.3 | 2.5-4.8 | 3.5 | MS |
| 9 | AH-1212 | 2.5 | 3.5 | 5.0 | 3.8 | 2.5-5.0 | 3.7 | MS |
| 10 | Vivek QPM 9 (C) | 2.0 | 2.5 | 4.8 | 4.0 | 2.0-4.8 | 3.3 | MS |
| 11 | Vivek Hybrid 9 (C) | 2.0 | 2.5 | 5.0 | 3.6 | 2.0-5.0 | 3.3 | MS |
| 12 | Vivek Hybrid 21 (C) | 2.5 | 3.5 | 5.0 | 4.0 | 2.5-5.0 | 3.8 | MS |
| 13 | Vivek Hybrid 43 (C) | 1.8 | 2.0 | 4.5 | 2.4 | 1.8-4.5 | 2.7 | MR |
| RC | RES. CHECK | - | - | 1.3 | - | 1.3 | 1.3 | R |
| SC | SUS. CHECK | 4.5 | 5.0 | 4.8 | - | 4.5-5.0 | 4.8 | S |

Contd.

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)

SUSCEPTIBLE CHECK- TLB : ALMORA(DHARI), MANDYA (219J)

| BLSB (1-5) | | | | | | | | | |
|------------|---------------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| 1 | DH-266 | 3.0 | 3.5 | 5.0 | 4.0 | 3.5 | 3.0-5.0 | 3.8 | MS |
| 2 | DH-267 | 3.0 | 3.8 | 4.0 | 4.0 | 3.5 | 3.0-4.0 | 3.7 | MS |
| 3 | DH-268 | 4.0 | 4.0 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 4.0 | MS |
| 4 | FH-3641 | 3.0 | 4.3 | 4.8 | 4.0 | 2.5 | 2.5-4.8 | 3.7 | MS |
| 5 | KH-7502 | 3.0 | 4.0 | 4.5 | 4.0 | 3.5 | 3.0-4.5 | 3.8 | MS |
| 6 | DH-269 | 3.0 | 4.0 | 4.3 | 4.0 | 2.5 | 2.5-4.0 | 3.6 | MS |
| 7 | DH-270 | 3.0 | 4.0 | 4.8 | - | 2.5 | 2.5-4.8 | 3.6 | MS |
| 8 | DH-271 | 3.0 | 4.0 | 3.8 | 5.0 | 2.5 | 2.5-5.0 | 3.7 | MS |
| 9 | AH-1212 | 3.0 | 4.0 | 4.0 | 4.0 | 2.5 | 2.5-4.0 | 3.5 | MS |
| 10 | Vivek QPM 9 (C) | 3.0 | 3.8 | 4.3 | 4.0 | 3.5 | 3.0-4.3 | 3.7 | MS |
| 11 | Vivek Hybrid 9 (C) | 4.0 | 3.8 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.9 | MS |
| 12 | Vivek Hybrid 21 (C) | 3.0 | 3.8 | 4.5 | 4.0 | 4.0 | 3.0-4.5 | 3.9 | MS |
| 13 | Vivek Hybrid 43 (C) | 3.5 | 3.8 | 4.5 | 3.5 | 3.5 | 3.5-4.5 | 3.8 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 3.8 | 5.0 | - | 3.0 | 3.0-5.0 | 3.9 | MS |

Contd.

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501) BHUBNESWER (Hishell)

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|------|---------------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | DH-266 | 1.3 | 5.6 | 4.7 | 4.7-5.6 | 5.2 | MS | 3.0 | R |
| 2 | DH-267 | 1.0 | 4.7 | 4.8 | 4.7-4.8 | 4.8 | MR | 3.4 | MR |
| 3 | DH-268 | 1.0 | 5.6 | 3.5 | 3.5-5.6 | 4.6 | MR | 3.9 | MR |
| 4 | FH-3641 | 1.0 | 5.3 | 4.3 | 4.3-5.3 | 4.8 | MR | 3.6 | MR |
| 5 | KH-7502 | 1.0 | 7.0 | 3.5 | 3.5-7.0 | 5.3 | MS | 3.2 | MR |
| 6 | DH-269 | 1.0 | 6.4 | 4.3 | 4.3-6.4 | 5.4 | MS | 4.1 | MR |
| 7 | DH-270 | 1.0 | 8.0 | 4.9 | 4.9-8.0 | 6.5 | MS | 5.1 | MS |
| 8 | DH-271 | 1.0 | 5.9 | 4.0 | 4.0-5.9 | 5.0 | MR | 3.9 | MR |
| 9 | AH-1212 | 1.0 | 5.7 | 5.4 | 5.4-5.7 | 5.5 | MS | 3.2 | MR |
| 10 | Vivek QPM 9 (C) | 1.0 | 5.4 | 4.5 | 4.5-5.4 | 4.9 | MR | 3.1 | MR |
| 11 | Vivek Hybrid 9 (C) | 1.3 | 5.2 | 3.8 | 3.8-5.2 | 4.5 | MR | 2.6 | R |
| 12 | Vivek Hybrid 21 (C) | 1.0 | 5.8 | 4.3 | 4.3-5.8 | 5.0 | MR | 3.4 | MR |
| 13 | Vivek Hybrid 43 (C) | 1.0 | 4.1 | 3.5 | 3.5-4.1 | 3.8 | MR | 2.2 | R |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 8.4 | 6.4 | 6.4-8.4 | 7.4 | S | 8.6 | S |

Contd.

* Data not considered due to low disease pressure

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92) **FSR:** UDAIPUR (SURYA), MANDYA(CM 500)

| S.No | Genotype | C.RUST (1-5) | | RDM (%) | | SDM (%) | |
|------|---------------------|--------------|-------|----------|-------|---------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| 1 | DH-266 | 1.6 | 43.0 | MS | 100.0 | 0.0 | S |
| 2 | DH-267 | 1.1 | 78.0 | S | 86.4 | 0.0 | S |
| 3 | DH-268 | 1.4 | 84.0 | S | 100.0 | 10.6 | S |
| 4 | FH-3641 | 1.7 | 44.0 | MS | 100.0 | 19.4 | S |
| 5 | KH-7502 | 1.9 | 61.5 | S | 100.0 | 19.0 | S |
| 6 | DH-269 | 1.6 | 73.5 | S | 89.7 | 22.5 | S |
| 7 | DH-270 | 1.6 | 58.0 | S | 100.0 | 24.8 | S |
| 8 | DH-271 | 1.5 | 64.5 | S | 100.0 | 15.6 | S |
| 9 | AH-1212 | 1.4 | 83.5 | S | 100.0 | 29.2 | S |
| 10 | Vivek QPM 9 (C) | 1.3 | 76.5 | S | 100.0 | 0.0 | S |
| 11 | Vivek Hybrid 9 (C) | 1.7 | 43.0 | MS | 100.0 | 0.0 | S |
| 12 | Vivek Hybrid 21 (C) | 1.1 | 94.5 | S | 100.0 | 28.1 | S |
| 13 | Vivek Hybrid 43 (C) | 1.5 | 0.0 | R | 100.0 | 10.8 | S |
| RC | RES. CHECK | - | - | | 11.8 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 85.0 | S |

Contd.

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)**SUCEPTIBLE CHECK-RDM:** UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

| S.No | Genotype | ESR (%) | | Range | Av. Score | Reaction |
|------|---------------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | | | |
| 1 | DH-266 | 54.8 | 40.0 | 40.0-54.8 | 47.4 | MS |
| 2 | DH-267 | 8.3 | 50.0 | 8.3-50.0 | 29.2 | MS |
| 3 | DH-268 | 33.5 | 43.5 | 33.5-43.5 | 38.5 | MS |
| 4 | FH-3641 | 11.7 | 31.6 | 11.7-31.6 | 21.7 | MR |
| 5 | KH-7502 | 16.3 | 29.2 | 16.3-29.2 | 22.8 | MR |
| 6 | DH-269 | 52.1 | 38.1 | 38.1-52.1 | 45.1 | MS |
| 7 | DH-270 | 25.0 | 37.5 | 25.0-37.5 | 31.3 | MS |
| 8 | DH-271 | 16.7 | 33.3 | 16.7-33.3 | 25.0 | MR |
| 9 | AH-1212 | 42.3 | 42.3 | 42.3-42.3 | 42.3 | MS |
| 10 | Vivek QPM 9 (C) | 37.5 | 30.8 | 30.8-37.5 | 34.2 | MS |
| 11 | Vivek Hybrid 9 (C) | 29.2 | 22.2 | 22.2-29.2 | 25.7 | MS |
| 12 | Vivek Hybrid 21 (C) | 27.9 | 44.4 | 27.9-44.4 | 36.2 | MS |
| 13 | Vivek Hybrid 43 (C) | 31.3 | 63.6 | 31.3-63.6 | 47.5 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 52.3 | 50 | 50.0-52.3 | 51.2 | S |

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074)

| S.No | Genotype | CLS (1-5) | | | | Reaction | Cyst/ plant (n=5) | |
|-------|---------------------|-----------|------|---------|-----------|----------|-------------------|----------|
| | | UDAI | DHAU | Range | Av. Score | | UDAI | Reaction |
| 1 | DH-266 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 10--18 | S |
| 2 | DH-267 | 4.0 | 2.5 | 2.5-4.0 | 3.3 | MS | 8--15 | S |
| 3 | DH-268 | 4.0 | 2.0 | 2.0-4.0 | 3.0 | MR | 11--17 | S |
| 4 | FH-3641 | 4.3 | 2.5 | 2.5-4.3 | 3.4 | MS | 7--14 | S |
| 5 | KH-7502 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR | 9--18 | S |
| 6 | DH-269 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 25--32 | S |
| 7 | DH-270 | 3.8 | 3.0 | 3.0-3.8 | 3.4 | MS | 22--26 | S |
| 8 | DH-271 | 3.5 | 2.0 | 2.0-3.5 | 2.8 | MR | 14--23 | S |
| 9 | AH-1212 | 4.3 | 2.5 | 2.5-4.3 | 3.4 | MS | 9--17 | S |
| 10 | Vivek QPM 9 (C) | 4.3 | 1.5 | 1.5-4.3 | 2.9 | MR | 22--30 | S |
| 11 | Vivek Hybrid 9 (C) | 4.3 | 1.5 | 1.5-4.3 | 2.9 | MR | 21--28 | S |
| 12 | Vivek Hybrid 21 (C) | 4.3 | 1.3 | 1.3-4.3 | 2.8 | MR | 12--19 | S |
| 13 | Vivek Hybrid 43 (C) | 1.0 | 2.5 | 1.0-2.5 | 1.8 | R | 7--13 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 20--31 | S |

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA) **CHECK- CYST/PLANT :** UDAIPUR (NAVJOT)

Table 5. Screening of AVT I & AVT II (late maturity) maize hybrids (Trial 75)

| S.No | Genotype | MLB (1-5) | | | | | Range | Av. Score | Reaction |
|---------------|--------------------|-----------|------|------|------|------|---------|-----------|----------|
| | | DHO | KARN | LUDH | DHAU | DELH | | | |
| AVT-I | | | | | | | | | |
| 1 | FMH-11195 | 4.0 | 2.0 | 2.0 | 1.3 | 1.5 | 1.3-4.0 | 2.2 | MR |
| 2 | JH 31601 | 2.5 | 3.0 | 2.0 | 1.0 | 2.0 | 1.0-3.0 | 2.1 | MR |
| 3 | JH 31555 | 2.0 | 2.0 | 1.5 | 3.0 | 1.5 | 1.5-3.0 | 2.0 | R |
| 4 | LTH-20 | 2.5 | 1.5 | 2.3 | 2.0 | 2.0 | 1.5-2.5 | 2.0 | R |
| 5 | Ryder-M | 1.0 | 2.0 | 1.8 | 2.0 | 1.5 | 1.0-2.0 | 1.7 | R |
| 6 | CMH 10-477 | 2.0 | 2.5 | 2.0 | 2.5 | 1.5 | 1.5-2.5 | 2.1 | MR |
| 7 | P3491(X35B391) | 3.0 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0-3.0 | 2.3 | MR |
| 8 | P3596(X35B396) | 2.0 | 1.5 | 2.3 | 2.0 | 2.5 | 1.5-2.3 | 2.0 | R |
| 9 | Geo Premium Dimond | 2.5 | 2.0 | 1.8 | 4.0 | 2.0 | 1.8-4.0 | 2.5 | MR |
| 10 | LTH-22 | 3.5 | 2.5 | 2.3 | 1.3 | 2.0 | 1.3-3.5 | 2.3 | MR |
| 11 | CP-802 | 2.5 | 1.5 | 3.0 | 2.5 | 2.0 | 1.5-3.0 | 2.3 | MR |
| 12 | NMH-1265 | 4.0 | 2.5 | 2.0 | 2.0 | 1.5 | 1.5-4.0 | 2.4 | MR |
| 13 | A 7503 | 4.0 | 1.5 | 2.5 | 2.5 | 2.5 | 1.5-4.0 | 2.6 | MR |
| 14 | CMH 10-540 | 3.0 | 1.5 | 1.8 | 2.0 | 2.5 | 1.5-3.0 | 2.2 | MR |
| 15 | X35B390 | 1.5 | 2.5 | 1.5 | 2.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| 16 | P3292(X35B392) | 4.0 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0-4.0 | 2.5 | MR |
| AVT-II | | | | | | | | | |
| 17 | CMH 08-381 | 2.5 | 2.5 | 2.0 | 2.0 | 1.5 | 1.5-2.5 | 2.1 | MR |
| 18 | CMH 08-381 (G) | 3.0 | 2.5 | 2.0 | 4.0 | 1.5 | 1.5-4.0 | 2.6 | MR |
| 19 | CMH 09-464 | 1.5 | 2.0 | 1.5 | 1.3 | 1.5 | 1.3-2.0 | 1.6 | R |
| 20 | P3580(X35A180) | 2.5 | 2.5 | 2.8 | 2.0 | 3.0 | 2.0-3.0 | 2.6 | MR |
| 21 | Orbit | 2.5 | 1.5 | 2.3 | 3.0 | 3.0 | 1.5-3.0 | 2.5 | MR |
| 22 | Laxmi 333 | 2.0 | 3.5 | 1.8 | 1.3 | 2.0 | 1.3-3.5 | 2.1 | MR |
| 23 | P 4546 | 2.5 | 2.0 | 1.8 | 1.3 | 2.0 | 1.3-2.5 | 1.9 | R |
| 24 | PRO 385 | 3.0 | 2.5 | 1.8 | 2.0 | 2.0 | 1.8-3.0 | 2.3 | MR |
| 25 | MCH-46 | 3.0 | 1.5 | 1.5 | 1.3 | 1.5 | 1.3-3.0 | 1.8 | R |
| 26 | S 6668 | 3.0 | 1.5 | 1.5 | 1.5 | 2.5 | 1.5-3.0 | 2.0 | R |

Contd.

| | | MLB (1-5) | | | | | | | |
|------|--------------------|-----------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | DHO | KARN | LUDH | DHAU | DELH | Range | Av. Score | Reaction |
| 27 | HTMH 5106 | 2.0 | 1.0 | 2.3 | 2.0 | 1.5 | 1.0-2.3 | 1.8 | R |
| 28 | PFMH-97 I 57(AMAR) | 2.5 | 2.0 | 1.8 | 3.0 | 2.5 | 1.8-3.0 | 2.4 | MR |
| 29 | CP 333 | 2.0 | 1.5 | 2.0 | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R |
| 30 | HTMH 5402 | 2.0 | 2.0 | 2.8 | 2.5 | 2.0 | 2.0-2.8 | 2.3 | MR |
| 31 | MCH-45 | 3.5 | 2.5 | 1.8 | 2.0 | 2.0 | 1.8-3.5 | 2.4 | MR |
| 32 | PRO 384 | 1.5 | 2.0 | 2.3 | 2.0 | 2.0 | 1.5-2.3 | 2.0 | R |
| 33 | GK 3103 | 2.0 | 2.5 | 2.3 | 2.0 | 1.5 | 1.5-2.3 | 2.0 | R |
| 34 | PMH 1 (C) | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0-3.0 | 2.2 | MR |
| 35 | PMH 3 (C) | 1.5 | 2.5 | 1.8 | 2.0 | 2.0 | 1.5-2.5 | 2.0 | R |
| 36 | Seedtech-2324 (C) | 4.0 | 1.5 | 4.0 | 4.0 | 3.5 | 1.5-4.0 | 3.4 | MS |
| 37 | BIO-9681 (C) | 3.5 | 1.5 | 2.8 | 4.0 | 3.0 | 1.5-4.0 | 3.0 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 3.8 | - | 4.5 | 3.8-4.5 | 4.3 | S |

Contd.

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

| TLB (1-5) | | | | | | | | |
|---------------|--------------------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | |
| 1 | FMH-11195 | 1.3 | 2.0 | 4.3 | 3.7 | 1.3-4.3 | 2.8 | MR |
| 2 | JH 31601 | 2.0 | 1.5 | 3.3 | 4.0 | 1.5-4.0 | 2.7 | MR |
| 3 | JH 31555 | 2.0 | 2.0 | 4.5 | 3.7 | 2.0-4.5 | 3.0 | MR |
| 4 | LTH-20 | 1.8 | 2.5 | 3.8 | 3.7 | 1.8-3.8 | 2.9 | MR |
| 5 | Ryder-M | 2.0 | 2.5 | 3.0 | 2.1 | 2.0-3.0 | 2.4 | MR |
| 6 | CMH 10-477 | 2.0 | 1.0 | 2.8 | 2.3 | 1.0-2.8 | 2.0 | R |
| 7 | P3491(X35B391) | 2.5 | 2.0 | 4.3 | 2.9 | 2.0-4.3 | 2.9 | MR |
| 8 | P3596(X35B396) | 2.0 | 2.0 | 3.8 | 2.9 | 2.0-3.8 | 2.7 | MR |
| 9 | Geo Premium Dimond | 1.8 | 2.0 | 3.5 | 3.1 | 1.8-3.5 | 2.6 | MR |
| 10 | LTH-22 | 1.5 | 1.5 | 4.8 | 3.3 | 1.5-4.8 | 2.8 | MR |
| 11 | CP-802 | 1.3 | 1.5 | 3.5 | 3.7 | 1.3-3.7 | 2.5 | MR |
| 12 | NMH-1265 | 1.8 | 2.0 | 5.0 | 3.2 | 1.8-5.0 | 3.0 | MR |
| 13 | A 7503 | 2.0 | 2.0 | 4.5 | 3.5 | 2.0-4.5 | 3.0 | MR |
| 14 | CMH 10-540 | 2.3 | 2.0 | 4.0 | 3.2 | 2.0-4.0 | 2.9 | MR |
| 15 | X35B390 | 1.5 | 2.5 | 4.3 | 3.2 | 1.5-4.3 | 2.9 | MR |
| 16 | P3292(X35B392) | 1.8 | 1.5 | 4.3 | 2.8 | 1.5-4.3 | 2.6 | MR |
| AVT-II | | | | | | | | |
| 17 | CMH 08-381 | 1.3 | 1.5 | 4.0 | 2.1 | 1.3-4.0 | 2.2 | MR |
| 18 | CMH 08-381 (G) | 1.8 | 1.5 | 3.3 | 2.7 | 1.5-3.3 | 2.3 | MR |
| 19 | CMH 09-464 | 0.8 | 1.5 | 3.8 | 2.3 | 0.8-3.8 | 2.1 | MR |
| 20 | P3580(X35A180) | 1.5 | 2.5 | 4.5 | 3.1 | 1.5-4.5 | 2.9 | MR |
| 21 | Orbit | 0.8 | 1.0 | 2.0 | 3.1 | 0.8-3.1 | 1.7 | R |
| 22 | Laxmi 333 | 1.5 | 2.5 | 2.0 | 3.4 | 1.5-3.4 | 2.4 | MR |
| 23 | P 4546 | 2.0 | 2.5 | 4.5 | 3.1 | 2.0-4.5 | 3.0 | MR |
| 24 | PRO 385 | 1.5 | 2.0 | 4.0 | 3.1 | 1.5-4.0 | 2.6 | MR |
| 25 | MCH-46 | 2.0 | 2.0 | 3.3 | 1.9 | 1.9-3.3 | 2.3 | MR |
| 26 | S 6668 | 2.8 | 1.0 | 2.0 | 2.9 | 1.0-2.9 | 2.2 | MR |

Contd.

| | | TLB (1-5) | | | | | | |
|------|--------------------|-----------|------|------|------|----------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH | Range | Av. Score | Reaction |
| 27 | HTMH 5106 | 2.5 | 2.0 | 5.0 | 2.8 | 2.0-5.0 | 3.1 | MS |
| 28 | PFMH-97 I 57(AMAR) | 2.5 | 1.0 | 3.0 | 3.1 | 1.0-3.1 | 2.4 | MR |
| 29 | CP 333 | 1.5 | 1.5 | 3.8 | 3.1 | 1.5-3.8 | 2.5 | MR |
| 30 | HTMH 5402 | 1.5 | 1.0 | 4.5 | 3.2 | 1.0-4.5 | 2.5 | MR |
| 31 | MCH-45 | 1.8 | 1.5 | 3.8 | 3.1 | 1.5-3.8 | 2.5 | MR |
| 32 | PRO 384 | 2.0 | 1.0 | 3.5 | 2.3 | 1.0-3.5 | 2.2 | MR |
| 33 | GK 3103 | 2.0 | 1.0 | 4.0 | 2.9 | 1.0-4.0 | 2.5 | MR |
| 34 | PMH 1 (C) | 2.0 | 1.0 | 3.3 | 3.1 | 1.0-3.3 | 2.4 | MR |
| 35 | PMH 3 (C) | 1.3 | 1.0 | 3.8 | 3.0 | 1.0-3.8 | 2.3 | MR |
| 36 | Seedtech-2324 (C) | 2.5 | 2.5 | 4.5 | 3.1 | 2.5-4.5 | 3.1 | MS |
| 37 | BIO-9681 (C) | 2.0 | 2.0 | 3.8 | 2.1 | 2.0-3.58 | 2.5 | MR |
| RC | RES. CHECK | - | - | 1.3 | - | 1.3 | 1.3 | R |
| SC | SUS. CHECK | 4.5 | 4.5 | 4.8 | - | 4.5-4.8 | 4.6 | S |

Contd.

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)
SUSCEPTIBLE CHECK- TLB : ALMORA(DHARI), MANDYA (219J)

| BLSB (1-5) | | | | | | | | | |
|---------------|--------------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | | |
| 1 | FMH-11195 | 3.0 | 2.8 | 3.8 | 4.0 | 2.5 | 2.5-4.0 | 3.2 | MS |
| 2 | JH 31601 | 3.0 | 3.5 | 3.8 | 3.0 | 2.5 | 2.5-3.8 | 3.2 | MS |
| 3 | JH 31555 | 2.0 | 3.3 | 3.3 | 4.5 | 3.5 | 2.0-4.5 | 3.3 | MS |
| 4 | LTH-20 | 3.0 | 3.5 | 2.8 | NG | 3.0 | 2.8-3.5 | 3.0 | MR |
| 5 | Ryder-M | 2.0 | 3.8 | 4.3 | NG | 2.5 | 2.0-4.3 | 3.2 | MS |
| 6 | CMH 10-477 | 3.0 | 3.8 | 3.8 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 7 | P3491(X35B391) | 2.5 | 2.8 | 3.0 | NG | 2.5 | 2.5-3.0 | 2.7 | MR |
| 8 | P3596(X35B396) | 3.0 | 3.0 | 4.3 | 3.0 | 3.0 | 3.0-4.3 | 3.3 | MS |
| 9 | Geo Premium Dimond | 2.5 | 3.8 | 4.8 | 3.0 | 3.0 | 2.5-4.8 | 3.4 | MS |
| 10 | LTH-22 | 3.0 | 3.8 | 4.0 | 4.0 | 2.5 | 2.5-4.0 | 3.5 | MS |
| 11 | CP-802 | 2.5 | 3.3 | 2.8 | 2.0 | 3.0 | 2.0-3.3 | 2.7 | MR |
| 12 | NMH-1265 | 3.0 | 3.3 | 3.5 | 3.0 | 3.0 | 3.0-3.5 | 3.2 | MS |
| 13 | A 7503 | 2.5 | 3.5 | 4.5 | 4.0 | 3.0 | 2.5-4.5 | 3.5 | MS |
| 14 | CMH 10-540 | 3.0 | 4.5 | 4.3 | 4.0 | 2.0 | 2.0-4.5 | 3.6 | MS |
| 15 | X35B390 | 3.0 | 4.5 | 5.0 | 4.0 | 3.0 | 3.0-5.0 | 3.9 | MS |
| 16 | P3292(X35B392) | 3.0 | 3.3 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.6 | MS |
| AVT-II | | | | | | | | | |
| 17 | CMH 08-381 | 3.0 | 3.3 | 3.0 | 2.5 | 2.5 | 2.5-3.3 | 2.9 | MR |
| 18 | CMH 08-381 (G) | 3.0 | 3.8 | 2.8 | 4.0 | 2.5 | 2.5-4.0 | 3.2 | MS |
| 19 | CMH 09-464 | 3.0 | 3.8 | 2.0 | 4.0 | 2.5 | 2.0-4.0 | 3.0 | MR |
| 20 | P3580(X35A180) | 3.0 | 3.3 | 4.5 | 2.5 | 2.5 | 2.5-4.5 | 3.2 | MS |
| 21 | Orbit | 4.0 | 3.3 | 3.8 | 4.0 | 2.5 | 2.5-4.0 | 3.5 | MS |
| 22 | Laxmi 333 | 3.0 | 3.3 | 4.3 | 2.5 | 2.5 | 2.5-4.3 | 3.1 | MS |
| 23 | P 4546 | 3.0 | 3.0 | 4.3 | 2.5 | 2.5 | 2.5-4.3 | 3.0 | MR |
| 24 | PRO 385 | 3.0 | 3.8 | 4.0 | NG | 2.5 | 2.5-4.0 | 3.3 | MS |
| 25 | MCH-46 | 3.0 | 3.8 | 3.8 | 4.0 | 2.5 | 2.5-4.0 | 3.4 | MS |
| 26 | S 6668 | 3.0 | 2.8 | 4.5 | 4.0 | 3.0 | 2.8-4.5 | 3.5 | MS |

Contd.

| BLSB (1-5) | | | | | | | | | |
|------------|--------------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| 27 | HTMH 5106 | 3.0 | 3.0 | 4.3 | 4.0 | 3.0 | 3.0-4.3 | 3.5 | MS |
| 28 | PFMH-97 I 57(AMAR) | 3.0 | 3.3 | 3.8 | 4.0 | 2.0 | 2.0-4.0 | 3.2 | MS |
| 29 | CP 333 | 4.0 | 3.5 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.7 | MS |
| 30 | HTMH 5402 | 3.0 | 3.5 | 4.3 | 4.0 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 31 | MCH-45 | 3.0 | 3.5 | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 32 | PRO 384 | 3.0 | 3.5 | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 33 | GK 3103 | 3.0 | 3.8 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.6 | MS |
| 34 | PMH 1 (C) | 3.0 | 3.8 | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.6 | MS |
| 35 | PMH 3 (C) | 3.0 | 3.3 | 2.8 | 4.0 | 2.0 | 2.0-4.0 | 3.0 | MR |
| 36 | Seedtech-2324 (C) | 3.0 | 3.3 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.6 | MS |
| 37 | BIO-9681 (C) | 4.0 | 3.8 | 3.5 | 4.0 | 2.0 | 2.0-4.0 | 3.5 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 3.3 | 5.0 | 4.0 | 3.5 | 3.3-5.0 | 3.9 | MS |

Contd.

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501) BHUBNESWER (Hishell)

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|---------------|--------------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| AVT-I | | | | | | | | | |
| 1 | FMH-11195 | 1.0 | 6.4 | 4.3 | 4.3-6.4 | 5.4 | MS | 2.3 | R |
| 2 | JH 31601 | 1.0 | 4.1 | 5.3 | 4.1-5.3 | 4.7 | MR | 1.7 | R |
| 3 | JH 31555 | 1.0 | 6.6 | 5.0 | 5.0-6.6 | 5.8 | MS | 2.8 | R |
| 4 | LTH-20 | 1.0 | 6.6 | 4.0 | 4.0-6.6 | 5.3 | MS | 6.0 | MS |
| 5 | Ryder-M | 1.0 | 6.5 | 4.7 | 4.7-6.5 | 5.6 | MS | 5.1 | MS |
| 6 | CMH 10-477 | 1.0 | 4.9 | 4.9 | 4.9-4.9 | 4.9 | MR | 2.7 | R |
| 7 | P3491(X35B391) | 1.0 | 5.5 | 4.7 | 4.7-5.5 | 5.1 | MS | 3.7 | MR |
| 8 | P3596(X35B396) | 1.0 | 5.7 | 5.4 | 5.4-5.7 | 5.5 | MS | 3.6 | MR |
| 9 | Geo Premium Dimond | 1.0 | 5.9 | 4.0 | 4.0-5.9 | 5.0 | MR | 3.5 | MR |
| 10 | LTH-22 | 1.0 | 5.1 | 4.4 | 4.4-5.1 | 4.8 | MR | 4.6 | MR |
| 11 | CP-802 | 1.0 | 5.9 | 5.6 | 5.6-5.9 | 5.8 | MS | 3.5 | MR |
| 12 | NMH-1265 | 1.0 | 5.1 | 5.5 | 5.1-5.5 | 5.3 | MS | 3.9 | MR |
| 13 | A 7503 | 1.0 | 4.6 | 4.7 | 4.6-4.7 | 4.7 | MR | 4.1 | MR |
| 14 | CMH 10-540 | 1.0 | 6.0 | 4.8 | 4.8-6.0 | 5.4 | MS | 3.0 | R |
| 15 | X35B390 | 1.0 | 5.7 | 5.3 | 5.3-5.7 | 5.5 | MS | 2.6 | R |
| 16 | P3292(X35B392) | 1.0 | 4.7 | 4.5 | 4.5-4.7 | 4.6 | MR | 3.1 | MR |
| AVT-II | | | | | | | | | |
| 17 | CMH 08-381 | 1.0 | 7.4 | 5.4 | 5.4-7.4 | 6.4 | MS | 3.8 | MR |
| 18 | CMH 08-381 (G) | 1.0 | 5.4 | 4.9 | 4.9-5.4 | 5.2 | MS | 3.0 | R |
| 19 | CMH 09-464 | 1.0 | 7.6 | 4.5 | 4.5-7.6 | 6.1 | MS | 3.5 | MR |
| 20 | P3580(X35A180) | 1.0 | 5.8 | 4.1 | 4.1-5.8 | 5.0 | MR | 3.8 | MR |
| 21 | Orbit | 1.0 | 4.9 | 5.0 | 4.9-5.0 | 5.0 | MR | 4.3 | MR |
| 22 | Laxmi 333 | 1.0 | 5.2 | 5.7 | 5.2-5.7 | 5.5 | MS | 3.6 | MR |
| 23 | P 4546 | 1.0 | 6.4 | 5.4 | 5.4-6.4 | 5.9 | MS | 3.8 | MR |
| 24 | PRO 385 | 1.0 | 4.6 | 3.8 | 3.8-4.6 | 4.2 | MR | 2.7 | R |
| 25 | MCH-46 | 1.0 | 4.9 | 4.9 | 4.9-4.9 | 4.9 | MR | 2.7 | R |
| 26 | S 6668 | 1.0 | 4.0 | 5.0 | 4.0-5.0 | 4.5 | MR | 2.4 | R |

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|------|--------------------|------------|------|-------------|---------|-----------|-----------|------|----------|
| | | DHU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 27 | HTMH 5106 | 1.0 | 6.1 | 4.9 | 4.9-6.1 | 5.5 | MS | 2.9 | R |
| 28 | PFMH-97 I 57(AMAR) | 1.0 | 6.8 | 4.1 | 4.1-6.8 | 5.4 | MS | 3.0 | R |
| 29 | CP 333 | 1.0 | 5.3 | 5.6 | 5.3-5.6 | 5.5 | MS | 2.7 | R |
| 30 | HTMH 5402 | 1.0 | 5.7 | 4.7 | 4.7-5.7 | 5.2 | MS | 3.5 | MR |
| 31 | MCH-45 | 1.0 | 5.4 | 4.2 | 4.2-5.4 | 4.8 | MR | 4.1 | MR |
| 32 | PRO 384 | 1.0 | 4.1 | 5.2 | 4.1-5.2 | 4.7 | MR | 3.9 | MR |
| 33 | GK 3103 | 1.0 | 6.8 | 5.6 | 5.6-6.8 | 6.2 | MS | 3.4 | MR |
| 34 | PMH 1 (C) | 1.0 | 4.6 | 6.3 | 4.6-6.3 | 5.4 | MS | 2.7 | R |
| 35 | PMH 3 (C) | 1.0 | 4.5 | 4.1 | 4.1-4.5 | 4.3 | MR | 2.3 | R |
| 36 | Seedtech-2324 (C) | 1.0 | 7.1 | 5.2 | 5.2-7.1 | 6.2 | MS | 3.2 | MR |
| 37 | BIO-9681 (C) | 1.0 | 5.3 | 5.3 | 5.3-5.3 | 5.3 | MS | 3.3 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 7.1 | 6.3 | 6.3-7.1 | 6.7 | MS | 8.7 | S |

Contd.

* Data not considered due to low disease pressure

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92) **FSR:** UDAIPUR (SURYA), MANDYA(CM 500)

| S.No | Genotype | C.RUST (1-5) | RDM (%) | Reaction | SDM (%) | Reaction |
|---------------|--------------------|--------------|---------|----------|---------|----------|
| | | ARBH* | UDAI | | MAND | |
| AVT-I | | | | | | |
| 1 | FMH-11195 | 1.5 | 16.0 | MR | 55.7 | S |
| 2 | JH 31601 | 1.5 | 7.0 | R | 9.5 | R |
| 3 | JH 31555 | 1.9 | 55.5 | S | 100.0 | S |
| 4 | LTH-20 | 2.0 | 49.0 | MS | 100.0 | S |
| 5 | Ryder-M | 1.7 | 28.5 | MR | 97.2 | S |
| 6 | CMH 10-477 | 1.6 | 8.5 | R | 89.8 | S |
| 7 | P3491(X35B391) | 1.4 | 10.0 | R | 84.0 | S |
| 8 | P3596(X35B396) | 1.6 | 21.5 | MR | 90.0 | S |
| 9 | Geo Premium Dimond | 1.6 | 11.5 | MR | 80.6 | S |
| 10 | LTH-22 | 1.9 | 31.5 | MS | 95.8 | S |
| 11 | CP-802 | 1.9 | 10.0 | R | 26.3 | S |
| 12 | NMH-1265 | 1.8 | 32.5 | MR | 97.2 | S |
| 13 | A 7503 | 1.4 | 6.5 | R | 14.2 | MR |
| 14 | CMH 10-540 | 1.5 | 15.0 | MR | 93.6 | S |
| 15 | X35B390 | 1.3 | 28.0 | MS | 70.2 | S |
| 16 | P3292(X35B392) | 1.3 | 16.5 | MR | 100.0 | S |
| AVT-II | | | | | | |
| 17 | CMH 08-381 | 1.5 | 15.0 | MR | 89.5 | S |
| 18 | CMH 08-381 (G) | 1.6 | 30.5 | MS | 88.5 | S |
| 19 | CMH 09-464 | 1.6 | 24.5 | MR | 85.8 | S |
| 20 | P3580(X35A180) | 1.8 | 49.5 | MS | 100.0 | S |
| 21 | Orbit | 1.9 | 17.0 | MR | 96.7 | S |
| 22 | Laxmi 333 | 1.8 | 29.5 | MS | 82.6 | S |
| 23 | P 4546 | 1.9 | 10.5 | MR | 54.9 | MS |
| 24 | PRO 385 | 2.0 | 17.5 | MR | 95.7 | S |
| 25 | MCH-46 | 1.6 | 11.0 | MR | 67.7 | S |
| 26 | S 6668 | 1.5 | 12.5 | MR | 59.1 | S |

Contd.

| S.No | Genotype | C.RUST (1-5) | RDM (%) | Reaction | SDM (%) | | Reaction |
|------|--------------------|--------------|---------|----------|---------|-------|----------|
| | | ARB* | UDAI | | MAND | COIM* | |
| 27 | HTMH 5106 | 1.5 | 33.0 | MS | 35.5 | 0.0 | MS |
| 28 | PFMH-97 I 57(AMAR) | 1.1 | 22.5 | MR | 98.2 | 11.3 | S |
| 29 | CP 333 | 1.3 | 22.0 | MR | 89.7 | 0.0 | S |
| 30 | HTMH 5402 | 1.1 | 33.5 | MS | 38.1 | 0.0 | MS |
| 31 | MCH-45 | 1.3 | 26.0 | MS | 67.2 | 0.0 | S |
| 32 | PRO 384 | 1.8 | 27.0 | MS | 66.1 | 8.9 | S |
| 33 | GK 3103 | 1.9 | 28.5 | MS | 72.8 | 0.0 | S |
| 34 | PMH 1 (C) | 2.1 | 0.0 | R | 41.7 | 15.6 | MS |
| 35 | PMH 3 (C) | 1.9 | 13.5 | MR | 84.3 | 15.6 | S |
| 36 | Seedtech-2324 (C) | 1.7 | 80.0 | S | 98.1 | 11.3 | S |
| 37 | BIO-9681 (C) | 1.7 | 32.5 | S | 78.5 | 0.0 | S |
| RC | RES. CHECK | - | - | - | 13.5 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 88.0 | S |

Contd.

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)**SUCEPTIBLE CHECK-RDM:** UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|---------------|--------------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| AVT-I | | | | | | |
| 1 | FMH-11195 | 11.1 | 37.5 | 11.1-37.5 | 24.3 | MR |
| 2 | JH 31601 | 11.1 | 52.4 | 11.1-52.4 | 31.8 | MS |
| 3 | JH 31555 | 0.0 | 61.9 | 0.0-61.9 | 31.0 | MS |
| 4 | LTH-20 | 33.3 | 58.3 | 33.3-58.3 | 45.8 | MS |
| 5 | Ryder-M | 5.6 | 45.5 | 5.6-45.5 | 25.6 | MS |
| 6 | CMH 10-477 | 0.0 | 57.7 | 0.0-57.7 | 28.9 | MS |
| 7 | P3491(X35B391) | 16.7 | 85.7 | 16.7-85.7 | 51.2 | MS |
| 8 | P3596(X35B396) | 16.7 | 26.9 | 16.7-26.9 | 21.8 | MR |
| 9 | Geo Premium Dimond | 41.7 | 22.7 | 22.7-41.7 | 32.2 | MS |
| 10 | LTH-22 | 0.0 | 12.5 | 0.0-12.5 | 6.3 | R |
| 11 | CP-802 | 7.7 | 13.0 | 7.7-13.0 | 10.4 | MR |
| 12 | NMH-1265 | 0.0 | 31.0 | 0.0-31.0 | 15.5 | MR |
| 13 | A 7503 | 47.8 | 17.4 | 17.4-47.8 | 32.6 | MS |
| 14 | CMH 10-540 | 0.0 | 11.5 | 0.0-11.5 | 5.8 | R |
| 15 | X35B390 | 59.2 | 24.0 | 24.0-59.2 | 41.6 | MS |
| 16 | P3292(X35B392) | 58.3 | 16.7 | 16.7-58.3 | 37.5 | MS |
| AVT-II | | | | | | |
| 17 | CMH 08-381 | 8.3 | 15.0 | 8.3-15.0 | 11.7 | MR |
| 18 | CMH 08-381 (G) | 0.0 | 22.2 | 0.0-22.2 | 11.1 | MR |
| 19 | CMH 09-464 | 0.0 | 46.7 | 0.0-46.7 | 23.4 | MR |
| 20 | P3580(X35A180) | 53.3 | 75.0 | 53.3-75.0 | 64.2 | S |
| 21 | Orbit | 0.0 | 29.2 | 0.0-29.2 | 14.6 | MR |
| 22 | Laxmi 333 | 22.7 | 21.1 | 21.1-22.7 | 21.9 | MR |
| 23 | P 4546 | 7.7 | 14.3 | 7.7-14.3 | 11.0 | MR |
| 24 | PRO 385 | 30.0 | 42.9 | 30.0-42.9 | 36.5 | MS |
| 25 | MCH-46 | 0.0 | 20.0 | 0.0-20.0 | 10.0 | R |
| 26 | S 6668 | 0.0 | 28.6 | 0.0-28.6 | 14.3 | MR |

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|------|--------------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| 27 | HTMH 5106 | 13.4 | 15.4 | 13.4-15.4 | 14.4 | MR |
| 28 | PFMH-97 I 57(AMAR) | 0.0 | 14.3 | 0.0-14.3 | 7.2 | R |
| 29 | CP 333 | 25.0 | 0.0 | 0.0-25.0 | 12.5 | MR |
| 30 | HTMH 5402 | 0.0 | 0.0 | 0.0-0.0 | 0.0 | R |
| 31 | MCH-45 | 10.0 | 42.9 | 10.0-42.9 | 26.5 | MS |
| 32 | PRO 384 | 0.0 | 40.0 | 0.0-40.0 | 20.0 | MR |
| 33 | GK 3103 | 16.7 | 44.4 | 16.7-44.4 | 30.6 | MS |
| 34 | PMH 1 (C) | 26.9 | 62.5 | 26.9-62.5 | 44.7 | MS |
| 35 | PMH 3 (C) | 11.1 | 41.7 | 11.1-41.7 | 26.4 | MS |
| 36 | Seedtech-2324 (C) | 52.8 | 42.9 | 42.9-52.8 | 47.9 | MS |
| 37 | BIO-9681 (C) | 16.7 | 25.0 | 16.7-25.0 | 20.9 | MR |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 58.5 | 50.0 | 50.0-58.5 | 54.25 | S |

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074)

Contd.

| S.No | Genotype | CLS (1-5) | | | | Reaction | Cyst/ plant (n=5) | |
|---------------|--------------------|-----------|------|---------|-----------|----------|-------------------|----------|
| | | UDAI | DHAU | Range | Av. Score | | UDAI | Reaction |
| AVT-I | | | | | | | | |
| 1 | FMH-11195 | 2.0 | 1.3 | 1.3-2.0 | 1.6 | R | 10--18 | S |
| 2 | JH 31601 | 2.3 | - | 2.3 | 2.3 | MR | 13--23 | S |
| 3 | JH 31555 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 19--27 | S |
| 4 | LTH-20 | 3.3 | 2.0 | 2.0-3.3 | 2.6 | MR | 23--34 | S |
| 5 | Ryder-M | 3.8 | 1.3 | 1.3-3.8 | 2.5 | MR | 21--30 | S |
| 6 | CMH 10-477 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 16--25 | S |
| 7 | P3491(X35B391) | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R | 25--36 | S |
| 8 | P3596(X35B396) | 0.8 | 3.0 | 0.8-3.0 | 1.9 | R | 11--17 | S |
| 9 | Geo Premium Dimond | 1.0 | 2.5 | 1.0-2.5 | 1.8 | R | 13--21 | S |
| 10 | LTH-22 | 2.8 | 1.3 | 1.3-2.8 | 2.0 | R | 23--35 | S |
| 11 | CP-802 | 1.0 | 2.0 | 1.0-2.0 | 1.5 | R | 20--29 | S |
| 12 | NMH-1265 | 0.8 | 1.5 | 0.8-1.5 | 1.1 | R | 7--14 | S |
| 13 | A 7503 | 1.8 | 3.0 | 1.8-3.0 | 2.4 | MR | 12--18 | S |
| 14 | CMH 10-540 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 6--12 | S |
| 15 | X35B390 | 1.0 | 3.0 | 1.0-3.0 | 2.0 | R | 11--20 | S |
| 16 | P3292(X35B392) | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | 18--26 | S |
| AVT-II | | | | | | | | |
| 17 | CMH 08-381 | 2.8 | 2.0 | 2.0-2.8 | 2.4 | MR | 21--32 | S |
| 18 | CMH 08-381 (G) | 2.5 | 2.5 | 2.5-2.5 | 2.5 | MR | 23--34 | S |
| 19 | CMH 09-464 | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R | 7--15 | S |
| 20 | P3580(X35A180) | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R | 10--19 | S |
| 21 | Orbit | 3.3 | 3.0 | 3.0-3.3 | 3.1 | MS | 22--32 | S |
| 22 | Laxmi 333 | 1.0 | 2.5 | 1.0-2.5 | 1.8 | R | 15--23 | S |
| 23 | P 4546 | 1.8 | 2.5 | 1.8-2.5 | 2.1 | MR | 7--16 | S |
| 24 | PRO 385 | 2.5 | 2.5 | 2.5-2.5 | 2.5 | MR | 13--19 | S |
| 25 | MCH-46 | 2.3 | - | 2.3 | 2.3 | MR | 6--13 | S |
| 26 | S 6668 | 1.5 | 1.3 | 1.3-1.5 | 1.4 | R | 2--9 | MR |

Contd.

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|-------|--------------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHAU | Range | Av. Score | Reaction | UDAI | Reaction |
| 27 | HTMH 5106 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 10--15 | S |
| 28 | PFMH-97 I 57(AMAR) | 3.0 | 2.5 | 2.5-3.0 | 2.8 | MR | 15--23 | S |
| 29 | CP 333 | 1.0 | 2.0 | 1.0-2.0 | 1.5 | R | 3--8 | MR |
| 30 | HTMH 5402 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 10--20 | S |
| 31 | MCH-45 | 2.0 | Tr | Tr-2.0 | 2.0 | R | 21--33 | S |
| 32 | PRO 384 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 30--36 | S |
| 33 | GK 3103 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 11--21 | S |
| 34 | PMH 1 (C) | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 21--32 | S |
| 35 | PMH 3 (C) | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 28--36 | S |
| 36 | Seedtech-2324 (C) | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 25--34 | S |
| 37 | BIO-9681 (C) | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 10--21 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 25--33 | S |

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

Table 6. Disease screening of AVT I & AVT II (medium maturity) maize hybrids (Trial 76)

| | | MLB (1-5) | | | | | | | | |
|---------------|---------------|-----------|------|------|------|------|---------|-----------|----------|--|
| S.No | Genotype | DHOL | KARN | LUDH | DHAU | DELH | Range | Av. Score | Reaction | |
| AVT-I | | | | | | | | | | |
| 1 | KMH-25K-45 | 1.0 | 2.0 | 2.8 | 2.0 | 2.0 | 1.0-2.8 | 2.0 | R | |
| 2 | KMH-3110 | 3.0 | 1.5 | 2.8 | 2.5 | 2.0 | 1.5-3.0 | 2.4 | MR | |
| 3 | KMH-7148 | 2.0 | 2.0 | 2.0 | 3.5 | 2.0 | 2.0-3.5 | 2.3 | MR | |
| 4 | NMH-1276 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | |
| 5 | IJ8533 | 3.0 | 2.5 | 2.0 | 1.5 | 2.0 | 1.5-3.0 | 2.2 | MR | |
| 6 | X35B403 | 2.0 | 2.0 | 2.3 | 1.5 | 2.0 | 1.5-2.3 | 2.0 | R | |
| 7 | S-6790 | 3.0 | 2.5 | 2.0 | 1.5 | 2.5 | 1.5-3.0 | 2.3 | MR | |
| 8 | S-6850 | 2.0 | 2.0 | 2.5 | 2.0 | 2.0 | 2.0-2.5 | 2.1 | MR | |
| 9 | Proline -777 | 1.5 | 1.5 | 2.3 | 2.0 | 2.0 | 1.5-2.3 | 1.9 | R | |
| 10 | Rasi 3033 | 2.5 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0-2.5 | 2.2 | MR | |
| 11 | CMH 10-473 | 2.0 | 1.5 | 1.8 | 1.5 | 2.5 | 1.5-2.5 | 1.9 | R | |
| 12 | EHL-2211 | 2.0 | 2.5 | 1.5 | 1.5 | 2.0 | 1.5-2.5 | 1.9 | R | |
| 13 | Bio 719 | 1.5 | 2.5 | 2.3 | 1.5 | 2.0 | 1.5-2.5 | 2.0 | R | |
| AVT-II | | | | | | | | | | |
| 14 | EHL-161708 | 2.5 | 2.0 | 2.5 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR | |
| 15 | X35A189 | 1.5 | 1.5 | 2.8 | 3.0 | 2.0 | 1.5-3.0 | 2.2 | MR | |
| 16 | P3377 | 2.5 | 1.0 | 2.5 | 2.5 | 2.5 | 1.0-2.5 | 2.2 | MR | |
| 17 | PRO 383 | 2.5 | 2.0 | 2.3 | 1.3 | 2.0 | 1.3-2.5 | 2.0 | R | |
| 18 | JH 31470 | 2.5 | 1.5 | 1.8 | 2.0 | 2.0 | 1.5-2.5 | 2.0 | R | |
| 19 | EH-1974 | 2.0 | 2.0 | 2.3 | 1.0 | 2.0 | 1.0-2.3 | 1.9 | R | |
| 20 | PMH 4(C) | 3.0 | 2.0 | 2.0 | 1.5 | 2.0 | 1.5-3.0 | 2.1 | MR | |
| 21 | BIO 9637 (C) | 3.0 | 2.0 | 1.5 | 1.3 | 2.0 | 1.3-3.0 | 2.0 | R | |
| 22 | HM8 (C) | 1.5 | 3.0 | 2.5 | 2.0 | 3.0 | 1.5-3.0 | 2.4 | MR | |
| RC | RES. CHECK | | - | - | - | - | - | - | - | |
| SC | SUS. CHECK | 4.5 | - | 4.5 | - | 5.0 | - | 4.7 | S | |

Contd.

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

| TLB (1-5) | | | | | | | | |
|---------------|--------------|------|------|------|-------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH* | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | |
| 1 | KMH-25K-45 | 2.0 | 2.0 | 3.8 | 3.2 | 2.0-3.8 | 2.7 | MR |
| 2 | KMH-3110 | 2.5 | 2.5 | 4.3 | 3.1 | 2.5-4.3 | 3.1 | MS |
| 3 | KMH-7148 | 1.8 | 1.5 | 3.8 | 3.2 | 1.5-3.8 | 2.6 | MR |
| 4 | NMH-1276 | 2.0 | 3.0 | 4.0 | 2.9 | 2.0-4.0 | 3.0 | MR |
| 5 | IJ8533 | 0.8 | 1.5 | 3.3 | 3.1 | 0.8-3.3 | 2.2 | MR |
| 6 | X35B403 | 1.8 | 1.5 | 4.3 | 2.4 | 1.5-4.3 | 2.5 | MR |
| 7 | S-6790 | 1.5 | 1.5 | 2.0 | 2.1 | 1.5-2.0 | 1.8 | R |
| 8 | S-6850 | 2.0 | 2.0 | 3.8 | 3.0 | 2.0-3.8 | 2.7 | MR |
| 9 | Proline -777 | 2.0 | 2.0 | 3.0 | 3.1 | 2.0-3.1 | 2.5 | MR |
| 10 | Rasi 3033 | 1.8 | 2.5 | 4.5 | 3.1 | 1.8-4.5 | 3.0 | MR |
| 11 | CMH 10-473 | 2.5 | 1.0 | 3.8 | 3.2 | 1.0-3.8 | 2.6 | MR |
| 12 | EHL-2211 | 2.0 | 1.0 | 3.3 | 1.9 | 1.0-3.3 | 2.0 | R |
| 13 | Bio 719 | 2.0 | 1.0 | 3.8 | 2.0 | 1.0-3.8 | 2.2 | MR |
| AVT-II | | | | | | | | |
| 14 | EHL-161708 | 1.5 | 2.0 | 3.3 | 2.5 | 1.5-3.3 | 2.3 | MR |
| 15 | X35A189 | 2.0 | 2.0 | 4.8 | 2.9 | 2.0-4.8 | 2.9 | MR |
| 16 | P3377 | 2.5 | 3.0 | 4.5 | 3.2 | 2.5-4.5 | 3.3 | MS |
| 17 | PRO 383 | 2.5 | 2.0 | 3.8 | 3.3 | 2.0-3.8 | 2.9 | MR |
| 18 | JH 31470 | 2.0 | 2.0 | 4.0 | 3.2 | 2.0-4.0 | 2.8 | MR |
| 19 | EH-1974 | 2.0 | 1.5 | 3.5 | 2.8 | 1.5-3.5 | 2.4 | MR |
| 20 | PMH 4(C) | 2.5 | 2.5 | 5.0 | 2.2 | 2.2-5.0 | 3.0 | MR |
| 21 | BIO 9637 (C) | 2.0 | 1.5 | 3.0 | 2.7 | 1.5-3.0 | 2.3 | MR |
| 22 | HM8 (C) | 2.5 | 1.5 | 4.3 | 1.8 | 1.5-4.3 | 2.5 | MR |
| RC | RES. CHECK | - | - | 1.3 | - | 1.3 | 1.3 | R |
| SC | SUS. CHECK | 4.5 | 4.5 | 5.0 | - | 4.5-5.0 | 4.7 | S |

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)

Contd.

SUSCEPTIBLE CHECK- TLB : ALMORA(DHARI), MANDYA (219J)

| BLSB (1-5) | | | | | | | | | |
|---------------|--------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | | |
| 1 | KMH-25K-45 | 3.0 | 3.5 | 4.5 | 4.0 | 3.5 | 3.0-4.5 | 3.7 | MS |
| 2 | KMH-3110 | 3.0 | 3.3 | 3.8 | 3.0 | 3.0 | 3.0-3.8 | 3.2 | MS |
| 3 | KMH-7148 | 3.0 | 3.3 | 3.3 | 4.0 | 3.5 | 3.0-4.0 | 3.4 | MS |
| 4 | NMH-1276 | 3.0 | 3.8 | 5.0 | 3.0 | 3.0 | 3.0-5.0 | 3.6 | MS |
| 5 | IJ8533 | 2.0 | 4.0 | 3.8 | 3.0 | 2.5 | 2.0-4.0 | 3.0 | MR |
| 6 | X35B403 | 3.0 | 3.8 | 4.5 | 3.0 | 2.5 | 2.5-4.5 | 3.4 | MS |
| 7 | S-6790 | 2.0 | 3.8 | 4.3 | 5.0 | 3.0 | 2.0-5.0 | 3.6 | MS |
| 8 | S-6850 | 2.0 | 3.8 | 4.0 | 3.0 | 2.5 | 2.0-4.0 | 3.0 | MR |
| 9 | Proline -777 | 3.0 | 3.8 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.5 | MS |
| 10 | Rasi 3033 | 3.0 | 3.8 | 4.8 | 4.0 | 3.5 | 3.0-4.8 | 3.8 | MS |
| 11 | CMH 10-473 | 3.0 | 2.8 | 3.8 | 4.0 | 3.0 | 2.8-4.0 | 3.3 | MS |
| 12 | EHL-2211 | 3.0 | 2.8 | 3.5 | 4.0 | 3.0 | 2.8-4.0 | 3.3 | MS |
| 13 | Bio 719 | 3.0 | 2.8 | 2.8 | 2.0 | 2.5 | 2.0-3.0 | 2.6 | MR |
| AVT-II | | | | | | | | | |
| 14 | EHL-161708 | 4.0 | 2.8 | 4.3 | 2.0 | 3.0 | 2.0-4.3 | 3.2 | MS |
| 15 | X35A189 | 3.0 | 2.8 | 4.5 | 3.0 | 3.0 | 2.8-4.5 | 3.3 | MS |
| 16 | P3377 | 3.0 | 3.0 | 3.8 | 3.0 | 3.0 | 3.0-3.8 | 3.2 | MS |
| 17 | PRO 383 | 3.0 | 3.5 | 4.3 | NG | 3.5 | 3.0-4.3 | 3.6 | MS |
| 18 | JH 31470 | 4.0 | 3.8 | 4.8 | NG | 3.0 | 3.0-4.8 | 3.9 | MS |
| 19 | EH-1974 | 4.0 | 3.8 | 5.0 | 3.0 | 3.0 | 3.0-5.0 | 3.8 | MS |
| 20 | PMH 4(C) | 3.0 | 3.8 | 5.0 | 3.0 | 3.0 | 3.0-5.0 | 3.6 | MS |
| 21 | BIO 9637 (C) | 3.0 | 3.8 | 4.5 | NG | 2.5 | 2.5-4.5 | 3.4 | MS |
| 22 | HM8 (C) | 3.5 | 4.0 | 5.0 | 2.5 | 3.0 | 2.5-5.0 | 3.6 | MS |
| RC | RES. CHECK | - | - | - | - | - | | | |
| SC | SUS. CHECK | - | 3.8 | 4.8 | 3.5 | 4.0 | 3.5-4.8 | 4.0 | MS |

Contd.

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501) BHUBNESWER (Hishell)

| S.No | Genotype | BSDM (1-5) | C.ROT (1-9) | | | FSR (1-9) | | | |
|---------------|--------------|------------|-------------|------|---------|-----------|----------|------|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| AVT-I | | | | | | | | | |
| 1 | KMH-25K-45 | 1.0 | 4.7 | 6.3 | 4.7-6.3 | 5.5 | MS | 4.8 | MR |
| 2 | KMH-3110 | 1.0 | 6.0 | 4.7 | 4.7-6.0 | 5.4 | MS | 2.9 | R |
| 3 | KMH-7148 | 1.0 | 5.0 | 5.1 | 5.0-5.1 | 5.0 | MR | 6.6 | MS |
| 4 | NMH-1276 | 1.0 | 5.1 | 5.9 | 5.1-5.9 | 5.5 | MS | 2.5 | R |
| 5 | IJ8533 | 1.0 | 5.8 | 6.0 | 5.8-6.0 | 5.9 | MS | 3.2 | MR |
| 6 | X35B403 | 1.0 | 5.9 | 4.3 | 4.3-5.9 | 5.1 | MS | 2.3 | R |
| 7 | S-6790 | 1.0 | 5.7 | 5.1 | 5.1-5.7 | 5.4 | MS | 1.8 | R |
| 8 | S-6850 | 1.0 | 4.5 | 6.1 | 4.5-6.1 | 5.3 | MS | 3.2 | MR |
| 9 | Proline -777 | 1.0 | 5.3 | 5.3 | 5.3-5.3 | 5.3 | MS | 3.8 | MR |
| 10 | Rasi 3033 | 1.0 | 4.9 | 6.0 | 4.9-6.0 | 5.5 | MS | 4.1 | MR |
| 11 | CMH 10-473 | 1.0 | 7.1 | 5.1 | 5.1-7.1 | 6.1 | MS | 4.2 | MR |
| 12 | EHL-2211 | 1.0 | 4.8 | 3.6 | 3.6-4.8 | 4.2 | MR | 2.4 | R |
| 13 | Bio 719 | 1.0 | 5.3 | 4.0 | 4.0-5.3 | 4.7 | MR | 2.8 | R |
| AVT-II | | | | | | | | | |
| 14 | EHL-161708 | 1.0 | 4.9 | 5.6 | 4.9-5.6 | 5.3 | MS | 2.3 | R |
| 15 | X35A189 | 1.0 | 5.6 | 5.0 | 5.0-5.6 | 5.3 | MS | 4.9 | MR |
| 16 | P3377 | 1.0 | 6.2 | 5.6 | 5.6-6.2 | 5.9 | MS | 2.7 | R |
| 17 | PRO 383 | 1.0 | 6.1 | 5.1 | 5.1-6.1 | 5.6 | MS | 4.9 | MR |
| 18 | JH 31470 | 1.0 | 5.4 | 5.6 | 5.4-5.6 | 5.5 | MS | 3.3 | MR |
| 19 | EH-1974 | 1.0 | 6.3 | 6.1 | 6.1-6.3 | 6.2 | MS | 2.3 | R |
| 20 | PMH 4(C) | 1.0 | 5.2 | 5.4 | 5.2-5.4 | 5.3 | MS | 2.9 | R |
| 21 | BIO 9637 (C) | 1.0 | 7.1 | 4.9 | 4.9-7.1 | 6.0 | MS | 3.2 | MR |
| 22 | HM8 (C) | 1.0 | 7.1 | 5.4 | 5.4-7.1 | 6.3 | MS | 3.0 | R |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 7.6 | 6.4 | 6.4-7.6 | 7.0 | S | 8.6 | S |

* Data not considered due to low disease pressure

Contd.

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92) **FSR:** UDAIPUR (SURYA), MANDYA(CM 500)

| S.No | Genotype | C.RUST (1-5) | | RDM (%) | | SDM (%) | |
|---------------|--------------|--------------|-------|----------|-------|---------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | Reaction |
| AVT-I | | | | | | | |
| 1 | KMH-25K-45 | 1.6 | 75.0 | S | 96.4 | 16.7 | S |
| 2 | KMH-3110 | 1.8 | 39.0 | MS | 100.0 | 3.1 | S |
| 3 | KMH-7148 | 1.7 | 64.5 | S | 100.0 | 0.0 | S |
| 4 | NMH-1276 | 1.1 | 36.5 | MS | 82.7 | 0.0 | S |
| 5 | IJ8533 | 1.4 | 28.0 | MS | 82.1 | 18.4 | S |
| 6 | X35B403 | 1.6 | 34.5 | MS | 92.1 | 0.0 | S |
| 7 | S-6790 | 1.3 | 0.0 | R | 63.0 | 6.3 | S |
| 8 | S-6850 | 1.9 | 5.5 | R | 41.8 | 2.5 | MS |
| 9 | Proline -777 | 1.8 | 74.5 | S | 100.0 | 0.0 | S |
| 10 | Rasi 3033 | 1.5 | 8.5 | R | 97.6 | 0.0 | S |
| 11 | CMH 10-473 | 1.3 | 13.0 | MR | 89.6 | 12.5 | S |
| 12 | EHL-2211 | 1.8 | 0.0 | R | 46.5 | 0.0 | MS |
| 13 | Bio 719 | 2.0 | 22.5 | MR | 63.2 | 9.2 | S |
| AVT-II | | | | | | | |
| 14 | EHL-161708 | 1.7 | 40.5 | MS | 88.8 | 0.0 | S |
| 15 | X35A189 | 1.5 | 38.5 | MS | 100.0 | 5.6 | S |
| 16 | P3377 | 1.4 | 19.5 | MR | 98.4 | 12.5 | S |
| 17 | PRO 383 | 1.2 | 27.0 | MS | 92.2 | 0.0 | S |
| 18 | JH 31470 | 2.0 | 43.5 | MS | 100.0 | 29.3 | S |
| 19 | EH-1974 | 1.9 | 36.5 | MS | 100.0 | 0.0 | S |
| 20 | PMH 4(C) | 1.8 | 67.5 | S | 100.0 | 7.7 | S |
| 21 | BIO 9637 (C) | 1.8 | 42.0 | MS | 100.0 | 2.8 | S |
| 22 | HM8 (C) | 1.1 | 62.5 | S | 10.0 | 0.0 | R |
| RC | RES. CHECK | - | - | - | 22.4 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 93.0 | S |

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)

Contd.

SUCEPTIBLE CHECK-RDM: UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

| S.No | Genotype | ESR (%) | | Range | Av. Score | Reaction |
|---------------|--------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | | | |
| AVT-I | | | | | | |
| 1 | KMH-25K-45 | 0.0 | 17.4 | 0.0-17.4 | 8.7 | R |
| 2 | KMH-3110 | 17.1 | 41.2 | 17.1-41.2 | 29.2 | MS |
| 3 | KMH-7148 | 0.0 | 20.0 | 0.0-20.0 | 10.0 | R |
| 4 | NMH-1276 | 26.8 | 29.4 | 26.8-29.4 | 28.1 | MS |
| 5 | IJ8533 | 0.0 | 42.9 | 0.0-42.9 | 21.5 | MR |
| 6 | X35B403 | 36.7 | 34.8 | 34.8-36.7 | 35.8 | MS |
| 7 | S-6790 | 0.0 | 27.8 | 0.0-27.8 | 13.9 | MR |
| 8 | S-6850 | 0.0 | 21.4 | 0.0-21.4 | 10.7 | MR |
| 9 | Proline -777 | 36.7 | 30.8 | 30.8-36.7 | 33.8 | MS |
| 10 | Rasi 3033 | 4.5 | 36.4 | 4.5-36.4 | 20.5 | MR |
| 11 | CMH 10-473 | 11.5 | 36.7 | 11.5-36.7 | 24.1 | MR |
| 12 | EHL-2211 | 10.0 | 37.0 | 10.0-37.0 | 23.5 | MR |
| 13 | Bio 719 | 14.2 | 40.0 | 14.2-40.0 | 27.1 | MS |
| AVT-II | | | | | | |
| 14 | EHL-161708 | 0.0 | 27.6 | 0.0-27.6 | 13.8 | MR |
| 15 | X35A189 | 7.1 | 50.0 | 7.1-50.0 | 28.6 | MS |
| 16 | P3377 | 25.0 | 33.3 | 25.0-33.3 | 29.2 | MS |
| 17 | PRO 383 | 5.0 | 51.5 | 5.0-51.5 | 28.3 | MS |
| 18 | JH 31470 | 42.8 | 58.3 | 42.8-58.3 | 50.6 | S |
| 19 | EH-1974 | 22.2 | 60.0 | 22.2-60.0 | 41.1 | MS |
| 20 | PMH 4(C) | 16.7 | 16.7 | 16.7-16.7 | 16.7 | MR |
| 21 | BIO 9637 (C) | 12.5 | 17.1 | 12.5-17.1 | 14.8 | MR |
| 22 | HM8 (C) | 46.4 | 40.0 | 40.0-46.4 | 43.2 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 57.3 | 40.6 | 40.6-57.3 | 48.95 | MS |

Contd.

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074)

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|---------------|---------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHAU | Range | Av. Score | Reaction | UDAI | Reaction |
| AVT-I | | | | | | | | |
| 1 | KMH-25K-45 | 3.3 | 3.0 | 3.0-3.3 | 3.1 | MS | 7--15 | S |
| 2 | KMH-3110 | 3.3 | 3.0 | 3.0-3.3 | 3.1 | MS | 19--28 | S |
| 3 | KMH-7148 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 25--36 | S |
| 4 | NMH-1276 | 1.5 | 1.5 | 1.5-1.5 | 1.5 | R | 14--22 | S |
| 5 | IJ8533 | 1.0 | 1.5 | 1.0-1.5 | 1.3 | R | 19--27 | S |
| 6 | X35B403 | 0.8 | 3.0 | 0.8-3.0 | 1.9 | R | 10--20 | S |
| 7 | S-6790 | 0.8 | 1.5 | 0.8-1.5 | 1.1 | R | 9--16 | S |
| 8 | S-6850 | 1.3 | 2.0 | 1.3-2.0 | 1.6 | R | 11--18 | S |
| 9 | Proline -777 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 20--30 | S |
| 10 | Rasi 3033 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 17--24 | S |
| 11 | CMH 10-473 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 7--15 | S |
| 12 | EHL-2211 | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | 11--17 | S |
| 13 | Bio 719 | 3.3 | 2.5 | 2.5-3.3 | 2.9 | MR | 12--20 | S |
| AVT-II | | | | | | | | |
| 14 | EHL-161708 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R | 15--26 | S |
| 15 | X35A189 | 2.3 | 2.0 | 2.0-2.3 | 2.1 | MR | 22--33 | S |
| 16 | P3377 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | 7--16 | S |
| 17 | PRO 383 | 1.3 | - | 1.3 | 1.3 | R | 24--35 | S |
| 18 | JH 31470 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 11--19 | S |
| 19 | EH-1974 | 3.0 | Tr | Tr-3.0 | 3.0 | MR | 5--9 | MR |
| 20 | PMH 4(C) | 3.3 | - | 3.3 | 3.3 | MS | 8--16 | S |
| 21 | BIO 9637 (C) | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 19--28 | S |
| 22 | HM8 (C) | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 10--17 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 23--35 | S |

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)

Table 7. Disease screening of AVT I & AVT II (early maturity) maize hybrids (Trial 77)

| | | MLB (1-5) | | | | | | | |
|---------------|--------------|-----------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | DHOL | KARN | LUDH | DHAU | DELH | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | | |
| 1 | FH-3609 | 3.5 | 2.0 | 2.3 | 3.0 | 2.0 | 2.0-3.5 | 2.6 | MR |
| 2 | FH-3626 | 2.0 | 1.5 | 2.3 | 2.0 | 2.0 | 1.5-2.3 | 2.0 | R |
| 3 | EH-2212 | 4.5 | 2.0 | 3.5 | 4.0 | 2.5 | 2.0-4.5 | 3.3 | MS |
| 4 | EH-2223 | 3.0 | 2.0 | 3.3 | 4.0 | 3.5 | 2.0-4.0 | 3.2 | MS |
| 5 | Bio 6008 | 2.5 | 2.0 | 3.3 | 4.0 | 2.5 | 2.0-4.0 | 2.9 | MR |
| 6 | REH-2011-2 | 3.0 | 1.0 | 2.5 | 2.0 | 2.5 | 1.0-3.0 | 2.2 | MR |
| 7 | FH-3605 | 2.0 | 2.0 | 2.3 | 1.3 | 2.0 | 1.3-2.3 | 1.9 | R |
| 8 | EH-2170 | 4.5 | 2.0 | 3.3 | 4.0 | 2.0 | 2.0-4.5 | 3.2 | MS |
| 9 | CMH 10-484 | 4.5 | 2.0 | 2.3 | 1.5 | 2.5 | 1.5-4.5 | 2.6 | MR |
| 10 | JH 31602 | 3.0 | 1.5 | 3.0 | 3.0 | 2.5 | 1.5-3.0 | 2.6 | MR |
| 11 | AH-1206 | 4.0 | 2.5 | 3.8 | 4.0 | 2.5 | 2.5-4.0 | 3.4 | MS |
| 12 | KMH-7021 | 2.5 | 2.5 | 2.3 | 3.0 | 3.5 | 2.3-3.0 | 2.8 | MR |
| 13 | CMH 10-531 | 2.0 | 1.5 | 2.3 | 2.5 | 2.0 | 1.5-2.5 | 2.0 | R |
| AVT-II | | | | | | | | | |
| 14 | K-21 | 3.5 | 1.5 | 3.3 | 4.0 | 2.0 | 1.5-4.0 | 2.9 | MR |
| 15 | DAS-MH-501 | 3.0 | 1.5 | 2.8 | 3.0 | 2.0 | 1.5-3.0 | 2.5 | MR |
| 16 | Bisco 2238 | 3.5 | 2.0 | 3.8 | 3.5 | 3.5 | 2.0-3.8 | 3.3 | MS |
| 17 | EHL 162508 | 2.5 | 2.5 | 2.0 | 1.0 | 2.0 | 1.0-2.5 | 2.0 | R |
| 18 | KNMH-4010141 | 3.0 | 2.5 | 2.8 | 4.0 | 2.0 | 2.0-4.0 | 2.9 | MR |
| 19 | FH-3548 | 2.0 | 1.5 | 2.8 | 1.0 | 1.5 | 1.0-2.8 | 1.8 | R |
| 20 | JH 31485 | 3.0 | 2.0 | 3.3 | 3.5 | 2.5 | 2.0-3.5 | 2.9 | MR |
| 21 | Prakash (C) | 2.5 | 2.5 | 2.3 | 4.0 | 2.5 | 2.3-4.0 | 2.8 | MR |
| 22 | PMH 5 (C) | 1.5 | 2.0 | 2.5 | 4.0 | 2.0 | 1.5-4.0 | 2.4 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.0 | - | 4.5 | - | 5.0 | 4.0-5.0 | 4.5 | S |

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

Contd.

| TLB (1-5) | | | | | | | | |
|---------------|--------------|------|------|------|-------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH* | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | |
| 1 | FH-3609 | 2.0 | 2.5 | 3.5 | 3.7 | 2.0-3.7 | 2.9 | MR |
| 2 | FH-3626 | 2.5 | 2.5 | 3.7 | 2.0 | 2.0-3.7 | 2.7 | MR |
| 3 | EH-2212 | 2.0 | 2.5 | 4.2 | 3.4 | 2.0-4.2 | 3.0 | MR |
| 4 | EH-2223 | 2.0 | 2.5 | 4.5 | 3.8 | 2.0-4.5 | 3.2 | MS |
| 5 | Bio 6008 | 2.5 | 2.0 | 3.5 | 3.5 | 2.0-3.5 | 2.9 | MR |
| 6 | REH-2011-2 | 1.8 | 3.5 | 4.5 | 3.5 | 1.8-4.5 | 3.3 | MS |
| 7 | FH-3605 | 1.5 | 2.5 | 4.0 | 3.6 | 1.5-4.0 | 2.9 | MR |
| 8 | EH-2170 | 2.5 | 4.0 | 4.5 | 3.8 | 2.5-4.5 | 3.7 | MS |
| 9 | CMH 10-484 | 1.5 | 1.5 | 3.3 | 1.7 | 1.5-3.3 | 2.0 | R |
| 10 | JH 31602 | 2.5 | 4.0 | 4.5 | 2.0 | 2.0-4.5 | 3.2 | MS |
| 11 | AH-1206 | 2.0 | 4.0 | 4.5 | 4.0 | 2.0-4.5 | 3.6 | MS |
| 12 | KMH-7021 | 1.3 | 1.5 | 4.8 | 3.8 | 1.3-4.8 | 2.8 | MR |
| 13 | CMH 10-531 | 1.8 | 2.5 | 3.5 | 1.9 | 1.8-3.5 | 2.4 | MR |
| AVT-II | | | | | | | | |
| 14 | K-21 | 2.0 | 2.0 | 4.5 | 3.5 | 2.0-4.5 | 3.0 | MR |
| 15 | DAS-MH-501 | 1.8 | 1.5 | 3.5 | 3.6 | 1.5-3.6 | 2.6 | MR |
| 16 | Bisco 2238 | 2.0 | 2.5 | 4.8 | 3.9 | 2.0-4.8 | 3.3 | MS |
| 17 | EHL 162508 | 2.5 | 2.0 | 3.5 | 3.9 | 2.0-3.9 | 3.0 | MR |
| 18 | KNMH-4010141 | 2.0 | 1.5 | 4.3 | 3.7 | 1.5-4.3 | 2.9 | MR |
| 19 | FH-3548 | 2.3 | 1.5 | 4.5 | 3.3 | 1.5-4.5 | 2.9 | MR |
| 20 | JH 31485 | 4.0 | 3.5 | 4.0 | 3.9 | 3.5-4.0 | 3.8 | MS |
| 21 | Prakash (C) | 3.3 | 4.5 | 4.8 | 3.6 | 3.3-4.8 | 4.0 | S |
| 22 | PMH 5 (C) | 3.3 | 4.5 | 4.3 | 3.8 | 3.3-4.5 | 4.0 | S |
| RC | RES. CHECK | - | - | 1.8 | - | 1.8 | 1.8 | R |
| SC | SUS. CHECK | 4.5 | 5.0 | 4.8 | - | 4.5-5.0 | 4.8 | S |

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)

SUSCEPTIBLE CHECK- TLB : ALMORA(DHARI), MANDYA (219J)

Contd.

| BLSB (1-5) | | | | | | | | | |
|---------------|--------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | | |
| 1 | FH-3609 | 4.0 | 3.5 | 4.8 | NG | 3.0 | 3.0-4.8 | 3.8 | MS |
| 2 | FH-3626 | 4.0 | 3.5 | 4.5 | 2.5 | 2.5 | 2.5-4.5 | 3.4 | MS |
| 3 | EH-2212 | 3.0 | 3.8 | 4.8 | 4.0 | 2.0 | 2.0-4.8 | 3.5 | MS |
| 4 | EH-2223 | 3.0 | 3.5 | 5.0 | 4.0 | 3.0 | 3.0-5.0 | 3.7 | MS |
| 5 | Bio 6008 | 3.0 | 3.8 | 4.0 | 4.0 | 2.5 | 2.5-4.0 | 3.5 | MS |
| 6 | REH-2011-2 | 3.5 | 3.8 | 4.8 | 3.0 | 2.5 | 2.5-4.8 | 3.5 | MS |
| 7 | FH-3605 | 3.0 | 3.8 | 4.3 | 3.0 | 3.5 | 3.0-4.3 | 3.5 | MS |
| 8 | EH-2170 | 3.0 | 3.8 | 5.0 | 3.0 | 4.0 | 3.0-5.0 | 3.8 | MS |
| 9 | CMH 10-484 | 3.0 | 3.5 | 2.8 | 2.5 | 2.5 | 2.5-3.5 | 2.9 | MR |
| 10 | JH 31602 | 3.0 | 4.0 | 5.0 | 4.0 | 3.0 | 3.0-5.0 | 3.8 | MS |
| 11 | AH-1206 | 4.0 | 4.0 | 4.5 | 4.0 | 3.0 | 4.0-4.5 | 3.9 | MS |
| 12 | KMH-7021 | 4.0 | 4.3 | 5.0 | 4.0 | 3.0 | 3.0-5.0 | 4.0 | MS |
| 13 | CMH 10-531 | 4.0 | 3.8 | 3.5 | 2.0 | 3.0 | 2.0-4.0 | 3.3 | MS |
| AVT-II | | | | | | | | | |
| 14 | K-21 | 3.5 | 3.5 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.4 | MS |
| 15 | DAS-MH-501 | 3.0 | 3.3 | 4.8 | 3.0 | 3.5 | 3.0-4.8 | 3.5 | MS |
| 16 | Bisco 2238 | 3.0 | 3.0 | 4.8 | 3.0 | 3.5 | 3.0-4.8 | 3.5 | MS |
| 17 | EHL 162508 | 4.0 | 3.3 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 18 | KNMH-4010141 | 4.0 | 3.5 | 4.0 | 3.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 19 | FH-3548 | 3.5 | 3.8 | 4.5 | 2.5 | 2.5 | 2.5-4.5 | 3.4 | MS |
| 20 | JH 31485 | 4.0 | 4.0 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.8 | MS |
| 21 | Prakash (C) | 3.0 | 4.0 | 5.0 | 3.0 | 2.5 | 2.5-5.0 | 3.5 | MS |
| 22 | PMH 5 (C) | 4.0 | 4.3 | 4.3 | 4.0 | 2.5 | 2.5-4.3 | 3.8 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 3.8 | 5.0 | 4.0 | 3.5 | 3.8-5.0 | 4.1 | S |

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1), DELHI (CM 501) BHUBNESWER (Hishell)

Contd.

| S.No | Genotype | C.ROT (1-9) | | | | FSR (1-9) | | |
|---------------|--------------|-------------|------|---------|-----------|-----------|------|----------|
| | | LUDH | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| AVT-I | | | | | | | | |
| 1 | FH-3609 | 5.7 | 5.7 | 5.7-5.7 | 5.7 | MS | 2.8 | R |
| 2 | FH-3626 | 4.5 | 5.7 | 4.5-5.7 | 5.1 | MS | 3.8 | MR |
| 3 | EH-2212 | 7.8 | 4.6 | 4.6-7.8 | 6.2 | MS | 3.1 | MR |
| 4 | EH-2223 | 6.7 | 4.0 | 4.0-6.7 | 5.4 | MS | 3.2 | MR |
| 5 | Bio 6008 | 4.7 | 6.1 | 4.7-6.1 | 5.4 | MS | 3.3 | MR |
| 6 | REH-2011-2 | 4.7 | 3.7 | 3.7-4.7 | 4.2 | MR | 3.6 | MR |
| 7 | FH-3605 | 6.0 | 3.7 | 3.7-6.0 | 4.9 | MR | 3.0 | R |
| 8 | EH-2170 | 6.9 | 5.4 | 5.4-6.9 | 6.2 | MS | 2.4 | R |
| 9 | CMH 10-484 | 3.0 | 4.1 | 3.0-4.1 | 3.6 | MR | 4.2 | MR |
| 10 | JH 31602 | 6.2 | 3.0 | 3.0-6.2 | 4.6 | MR | 3.8 | MR |
| 11 | AH-1206 | 6.7 | 4.7 | 4.7-6.7 | 5.7 | MS | 4.4 | MR |
| 12 | KMH-7021 | 8.2 | 5.1 | 5.1-8.2 | 6.6 | MS | 2.4 | R |
| 13 | CMH 10-531 | 3.5 | 5.6 | 3.5-5.6 | 4.6 | MR | 3.2 | MR |
| AVT-II | | | | | | | | |
| 14 | K-21 | 7.2 | 4.6 | 4.6-7.2 | 5.9 | MS | 1.7 | R |
| 15 | DAS-MH-501 | 7.9 | 4.1 | 4.1-7.9 | 6.0 | MS | 4.0 | MR |
| 16 | Bisco 2238 | 6.0 | 5.1 | 5.1-6.0 | 5.6 | MS | 3.2 | MR |
| 17 | EHL 162508 | 7.3 | 5.3 | 5.3-7.3 | 6.3 | MS | 3.0 | R |
| 18 | KNMH-4010141 | 3.2 | 6.0 | 3.2-6.0 | 4.6 | MR | 1.6 | R |
| 19 | FH-3548 | 7.6 | 4.3 | 4.3-7.6 | 6.0 | MS | 2.9 | R |
| 20 | JH 31485 | 5.8 | 3.7 | 3.7-5.8 | 4.8 | MR | 3.7 | MR |
| 21 | Prakash (C) | 4.9 | 3.6 | 3.6-4.9 | 4.3 | MR | 4.8 | MR |
| 22 | PMH 5 (C) | 7.7 | 5.1 | 5.1-7.7 | 6.4 | MS | 2.6 | R |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 7.7 | 6.0 | 6.0-7.7 | 6.9 | MS | 8.1 | S |

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92) FSR: UDAIPUR (SURYA), MANDYA(CM 500)

Contd.

| S.No | Genotype | C.RUST (1-5) | RDM (%) | | SDM (%) | | Reaction |
|---------------|--------------|--------------|---------|----------|---------|-------|----------|
| | | ARBH* | UDAI | Reaction | MAND | COIM* | |
| AVT-I | | | | | | | |
| 1 | FH-3609 | 1.9 | 0.0 | R | 41.4 | 26.7 | MS |
| 2 | FH-3626 | 1.7 | 7.5 | R | 98.1 | 0.0 | S |
| 3 | EH-2212 | 1.4 | 0.0 | R | 100.0 | 10.0 | S |
| 4 | EH-2223 | 1.4 | 38.0 | MS | 95.6 | 0.0 | S |
| 5 | Bio 6008 | 1.2 | 29.0 | MS | 98.4 | 16.7 | S |
| 6 | REH-2011-2 | 1.6 | 75.0 | S | 95.0 | 6.3 | S |
| 7 | FH-3605 | 1.4 | 0.0 | R | 77.8 | 3.3 | S |
| 8 | EH-2170 | 1.7 | 78.5 | S | 83.8 | 12.5 | S |
| 9 | CMH 10-484 | 1.8 | 0.0 | R | 89.4 | 21.1 | S |
| 10 | JH 31602 | 1.9 | 100.0 | S | 72.5 | 18.3 | S |
| 11 | AH-1206 | 2.2 | 47.0 | MS | 100.0 | 9.2 | S |
| 12 | KMH-7021 | 1.9 | 25.0 | MR | 100.0 | 2.5 | S |
| 13 | CMH 10-531 | 1.8 | 0.0 | R | 50.1 | 6.3 | S |
| AVT-II | | | | | | | |
| 14 | K-21 | 1.6 | 36.0 | MS | 97.0 | 20.8 | S |
| 15 | DAS-MH-501 | 1.3 | 100.0 | S | 100.0 | 16.3 | S |
| 16 | Bisco 2238 | 1.3 | 16.0 | MR | 100.0 | 11.7 | S |
| 17 | EHL 162508 | 2.0 | 29.5 | MS | 100.0 | 16.7 | S |
| 18 | KNMH-4010141 | 1.9 | 48.0 | MS | 95.8 | 6.7 | S |
| 19 | FH-3548 | 1.7 | 0.0 | R | 96.6 | 9.8 | S |
| 20 | JH 31485 | 1.5 | 100.0 | S | 100.0 | 16.7 | S |
| 21 | Prakash (C) | 1.7 | 88.0 | S | 100.0 | 12.9 | S |
| 22 | PMH 5 (C) | 1.7 | 100.0 | S | 100.0 | 11.7 | S |
| RC | RES. CHECK | - | - | - | 15.4 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 89.0 | S |

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)**SUCEPTIBLE CHECK-RDM: UDAIPUR (SURYA), SDM: MANDYA (CM 500), COIMBATORE (CM 500)**

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|---------------|--------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| AVT-I | | | | | | |
| 1 | FH-3609 | 61.0 | 37.1 | 37.1-61.0 | 49.1 | MS |
| 2 | FH-3626 | 5.0 | 37.5 | 5.0-37.5 | 21.3 | MR |
| 3 | EH-2212 | 40.6 | 21.9 | 21.9-40.6 | 31.3 | MS |
| 4 | EH-2223 | 22.5 | 38.5 | 22.5-38.5 | 30.5 | MS |
| 5 | Bio 6008 | 0.0 | 19.4 | 0.0-19.4 | 9.7 | R |
| 6 | REH-2011-2 | 16.7 | 27.8 | 16.7-27.8 | 22.3 | MR |
| 7 | FH-3605 | 10.1 | 27.6 | 10.1-27.6 | 18.9 | MR |
| 8 | EH-2170 | 32.6 | 18.5 | 18.5-32.6 | 25.6 | MS |
| 9 | CMH 10-484 | 0.0 | 40.7 | 0.0-40.7 | 20.4 | MR |
| 10 | JH 31602 | 35.9 | 72.0 | 35.9-72.0 | 54.0 | S |
| 11 | AH-1206 | 8.3 | 28.0 | 8.3-28.0 | 18.2 | MR |
| 12 | KMH-7021 | 16.7 | 45.5 | 16.7-45.5 | 31.1 | MS |
| 13 | CMH 10-531 | 0.0 | 28.6 | 0.0-28.6 | 14.3 | MR |
| AVT-II | | | | | | |
| 14 | K-21 | 12.5 | 44.4 | 12.5-44.4 | 28.5 | MS |
| 15 | DAS-MH-501 | 0.0 | 36.0 | 0.0-36.0 | 18.0 | MR |
| 16 | Bisco 2238 | 43.3 | 45.8 | 43.3-45.8 | 44.6 | MS |
| 17 | EHL 162508 | 3.8 | 42.1 | 3.8-42.1 | 23.0 | MR |
| 18 | KNMH-4010141 | 9.5 | 19.0 | 9.5-19.0 | 14.3 | MR |
| 19 | FH-3548 | 32.6 | 25.0 | 25.0-32.6 | 28.8 | MS |
| 20 | JH 31485 | 76.0 | 36.8 | 36.8-76.0 | 56.4 | S |
| 21 | Prakash (C) | 50.0 | 33.3 | 33.3-50.0 | 41.7 | MS |
| 22 | PMH 5 (C) | 29.6 | 24.0 | 24.0-29.6 | 26.8 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 63.4 | 52.6 | 52.6-63.4 | 58 | S |

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|---------------|--------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDAI | DHAU | Range | Av. Score | Reaction | UDAI | Reaction |
| AVT-I | | | | | | | | |
| 1 | FH-3609 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 19--27 | S |
| 2 | FH-3626 | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 13--21 | S |
| 3 | EH-2212 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | 7--16 | S |
| 4 | EH-2223 | 1.0 | 3.0 | 1.0-3.0 | 2.0 | R | 8--13 | S |
| 5 | Bio 6008 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 10--16 | S |
| 6 | REH-2011-2 | 2.8 | - | 2.8 | 2.8 | MR | 19--28 | S |
| 7 | FH-3605 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 14--22 | S |
| 8 | EH-2170 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS | 20--30 | S |
| 9 | CMH 10-484 | 3.0 | 1.3 | 1.3-3.0 | 2.1 | MR | 7--14 | S |
| 10 | JH 31602 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 20--29 | S |
| 11 | AH-1206 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 25--36 | S |
| 12 | KMH-7021 | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R | 11--17 | S |
| 13 | CMH 10-531 | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R | 5--9 | MR |
| AVT-II | | | | | | | | |
| 14 | K-21 | 3.3 | 3.0 | 3.0-3.3 | 3.1 | MS | 16--22 | S |
| 15 | DAS-MH-501 | 3.3 | 2.0 | 2.0-3.3 | 2.6 | MR | 25--34 | S |
| 16 | Bisco 2238 | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS | 21--29 | S |
| 17 | EHL 162508 | 3.5 | 2.0 | 2.0-3.5 | 2.8 | MR | 25--32 | S |
| 18 | KNMH-4010141 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 21--31 | S |
| 19 | FH-3548 | 4.3 | 3.0 | 3.0-4.3 | 3.6 | MS | 19--27 | S |
| 20 | JH 31485 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 20--33 | S |
| 21 | Prakash (C) | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 18--29 | S |
| 22 | PMH 5 (C) | 1.8 | 3.0 | 1.8-3.0 | 2.4 | MR | 10--20 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | - | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 20--28 | S |

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)

Table 8. Disease screening of AVT I & AVT II (extra early maturity) maize hybrids (Trial 78)

| | | MLB (1-5) | | | | | | | | |
|---------------|--------------------|-----------|------|------|------|------|---------|-----------|----------|--|
| S.No | Genotype | DHOL | KARN | LUDH | DHAU | DELH | Range | Av. Score | Reaction | |
| AVT-I | | | | | | | | | | |
| 1 | FH-3594 | 3.5 | 2.0 | 2.3 | 3.0 | 2.5 | 2.0-3.5 | 2.7 | MR | |
| 2 | AH-1202 | 2.0 | 1.5 | 2.5 | 3.5 | 3.0 | 1.5-3.5 | 2.5 | MR | |
| 3 | DH-238 | 4.5 | 1.5 | 2.8 | 4.0 | 3.0 | 1.5-4.5 | 3.2 | MS | |
| 4 | DH-262 | 3.5 | 2.0 | 3.5 | 3.5 | 2.5 | 2.0-3.5 | 3.0 | MR | |
| AVT-II | | | | | | | | | | |
| 5 | K-75 | 3.5 | 2.0 | 2.5 | 4.0 | 2.0 | 2.0-4.0 | 2.8 | MR | |
| 6 | FH-3554 | 3.0 | 0.5 | 2.5 | 3.0 | 2.0 | 0.5-3.0 | 2.2 | MR | |
| 7 | FH-3556 | 1.5 | 2.5 | 2.3 | 3.0 | 2.0 | 1.5-3.0 | 2.3 | MR | |
| 8 | FH-3558 | 4.0 | 1.5 | 2.5 | 2.0 | 2.0 | 1.5-4.0 | 2.4 | MR | |
| 9 | FH-3555 | 3.0 | 1.5 | 2.5 | 4.0 | 2.0 | 1.5-4.0 | 2.6 | MR | |
| 10 | Vivek QPM 9 (C) | 3.0 | 1.5 | 2.8 | 4.0 | - | 1.5-4.0 | 2.8 | MR | |
| 11 | Vivek Hybrid 9 (C) | 2.5 | 2.0 | 2.3 | 3.0 | 1.5 | 1.5-3.0 | 2.3 | MR | |
| RC | RES. CHECK | - | - | - | - | - | - | - | - | |
| SC | SUS. CHECK | 5.0 | - | 4.3 | - | 4.5 | 4.3-5.0 | 4.6 | S | |

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

Contd.

| TLB (1-5) | | | | | | | | |
|---------------|--------------------|------|------|------|-------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH* | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | |
| 1 | FH-3594 | 1.8 | 2.5 | 4.5 | 3.7 | 1.8-4.5 | 3.1 | MS |
| 2 | AH-1202 | 1.5 | 3.0 | 5.0 | 3.3 | 1.5-5.0 | 3.2 | MS |
| 3 | DH-238 | 2.5 | 3.0 | 4.3 | 3.4 | 2.5-4.3 | 3.3 | MS |
| 4 | DH-262 | 1.8 | 3.0 | 4.8 | 3.8 | 1.8-4.8 | 3.3 | MS |
| AVT-II | | | | | | | | |
| 5 | K-75 | 2.0 | 2.5 | 4.5 | 3.5 | 2.0-4.5 | 3.1 | MS |
| 6 | FH-3554 | 2.5 | 3.5 | 4.8 | 3.9 | 2.5-4.8 | 3.7 | MS |
| 7 | FH-3556 | 1.8 | 3.0 | 4.3 | 3.0 | 1.8-4.3 | 3.0 | MR |
| 8 | FH-3558 | 3.3 | 4.0 | 4.8 | 3.7 | 3.3-4.8 | 3.9 | MS |
| 9 | FH-3555 | 1.5 | 2.0 | 3.8 | 2.8 | 1.5-3.8 | 2.5 | MR |
| 10 | Vivek QPM 9 (C) | 2.0 | 2.5 | 4.0 | 3.6 | 2.0-4.0 | 3.0 | MR |
| 11 | Vivek Hybrid 9 (C) | 2.5 | 2.5 | 4.3 | 3.8 | 2.5-4.3 | 3.3 | MS |
| RC | RES. CHECK | - | - | 1.8 | - | 1.8 | 1.8 | R |
| SC | SUS. CHECK | 4.5 | 5.0 | 4.8 | - | 4.5-5.0 | 4.8 | S |

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)

SUSCEPTIBLE CHECK- TLB : ALMORA(DHARI), MANDYA (219J)

Contd.

| BLSB (1-5) | | | | | | | | | |
|---------------|--------------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| AVT-I | | | | | | | | | |
| 1 | FH-3594 | 3.0 | 3.3 | 3.8 | 2.5 | 3.5 | 2.5-3.8 | 3.2 | MS |
| 2 | AH-1202 | 3.0 | 3.0 | 4.3 | 3.0 | 2.5 | 3.0-4.3 | 3.2 | MS |
| 3 | DH-238 | 4.0 | 3.5 | 4.8 | 2.5 | 3.0 | 2.5-4.8 | 3.6 | MS |
| 4 | DH-262 | 3.0 | 3.5 | 4.3 | 2.5 | 3.0 | 2.5-4.3 | 3.3 | MS |
| AVT-II | | | | | | | | | |
| 5 | K-75 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0-4.0 | 3.4 | MS |
| 6 | FH-3554 | 3.0 | 3.8 | 4.3 | 4.0 | 3.0 | 3.0-4.3 | 3.6 | MS |
| 7 | FH-3556 | 3.0 | 4.0 | 4.5 | 3.0 | 3.0 | 3.0-4.5 | 3.5 | MS |
| 8 | FH-3558 | 3.0 | 4.0 | 4.5 | 3.0 | 3.0 | 3.0-4.5 | 3.5 | MS |
| 9 | FH-3555 | 4.0 | 4.0 | 4.5 | 4.0 | 3.5 | 3.5-4.5 | 4.0 | MS |
| 10 | Vivek QPM 9 (C) | 3.0 | 3.0 | 4.8 | 4.0 | - | 3.5-4.8 | 3.7 | MS |
| 11 | Vivek Hybrid 9 (C) | 3.5 | 3.8 | 4.8 | 4.0 | 3.5 | 3.5-4.8 | 3.9 | MS |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 3.8 | 4.8 | - | 3.5 | 3.5-4.8 | 4.0 | S |

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1)
 DELHI (CM 501) BHUBNESWER (Hishell)

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|---------------|--------------------|------------|------|-------------|---------|-----------|-----------|-----|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDP | Reaction |
| AVT-I | | | | | | | | | |
| 1 | FH-3594 | 1.0 | 5.2 | 4.4 | 4.4-5.2 | 4.8 | MR | 3.5 | MR |
| 2 | AH-1202 | 1.0 | 6.7 | 5.6 | 5.6-6.7 | 6.2 | MS | 4.4 | MR |
| 3 | DH-238 | 1.0 | 7.3 | 4.9 | 4.9-7.3 | 6.1 | MS | 3.9 | MR |
| 4 | DH-262 | 1.0 | 6.4 | 4.9 | 4.9-6.4 | 5.7 | MS | 4.6 | MR |
| AVT-II | | | | | | | | | |
| 5 | K-75 | 1.0 | 5.1 | 5.4 | 5.1-5.4 | 5.3 | MS | 2.5 | R |
| 6 | FH-3554 | 1.0 | 5.2 | 4.3 | 4.3-5.2 | 4.8 | MR | 4.3 | MR |
| 7 | FH-3556 | 1.0 | 5.1 | 3.9 | 3.9-5.1 | 4.5 | MR | 3.2 | MR |
| 8 | FH-3558 | 1.0 | 5.0 | 5.1 | 5.0-5.1 | 5.1 | MS | 3.5 | MR |
| 9 | FH-3555 | 1.0 | 4.2 | 5.3 | 4.2-5.3 | 4.8 | MR | 2.7 | R |
| 10 | Vivek QPM 9 (C) | 1.3 | 4.6 | 5.3 | 4.6-5.3 | 5.0 | MR | 3.4 | MR |
| 11 | Vivek Hybrid 9 (C) | 1.5 | 4.0 | 4.0 | 4.0-4.0 | 4.0 | MR | 4.9 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 6.5 | 6.7 | 6.5-6.7 | 6.6 | MS | 8.4 | S |

* Data not considered due to low disease pressure

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92)
FSR: UDAIPUR (SURYA), MANDYA(CM 500)

Contd.

| S.No | Genotype | C.RUST (1-5) | | RDM (%) | | SDM (%) | |
|---------------|--------------------|--------------|-------|----------|-------|---------|----------|
| | | ARBH* | UDP | Reaction | MAND | COIM* | Reaction |
| AVT-I | | | | | | | |
| 1 | FH-3594 | 2.2 | 0.0 | R | 41.4 | 10.9 | MS |
| 2 | AH-1202 | 1.9 | 59.0 | S | 98.1 | 0.0 | S |
| 3 | DH-238 | 1.6 | 44.0 | MS | 100.0 | 0.0 | S |
| 4 | DH-262 | 1.7 | 59.0 | S | 95.6 | 11.3 | S |
| AVT-II | | | | | | | |
| 5 | K-75 | 1.7 | 26.5 | MS | 98.4 | 22.5 | S |
| 6 | FH-3554 | 1.8 | 18.0 | MR | 95.0 | 22.5 | S |
| 7 | FH-3556 | 1.5 | 6.5 | R | 77.8 | 18.8 | S |
| 8 | FH-3558 | 1.7 | 24.0 | MR | 83.6 | 0.0 | S |
| 9 | FH-3555 | 1.8 | 14.5 | MR | 89.4 | 0.0 | S |
| 10 | Vivek QPM 9 (C) | 2.1 | 57.0 | S | 72.5 | 5.6 | S |
| 11 | Vivek Hybrid 9 (C) | 1.9 | 53.5 | S | 100.0 | 12.1 | S |
| RC | RES. CHECK | - | - | - | 17.2 | - | MR |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 89.0 | S |

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)

SUCEPTIBLE CHECK-RDM: UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|---------------|--------------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| AVT-I | | | | | | |
| 1 | FH-3594 | 0.0 | 47.4 | 0.0-47.4 | 23.7 | MR |
| 2 | AH-1202 | 16.7 | 60.0 | 16.7-60.0 | 38.4 | MS |
| 3 | DH-238 | 29.2 | 43.8 | 29.2-43.8 | 36.5 | MS |
| 4 | DH-262 | 27.8 | 40.0 | 27.8-40.0 | 33.9 | MS |
| AVT-II | | | | | | |
| 5 | K-75 | 10.9 | 41.2 | 10.9-41.2 | 26.1 | MS |
| 6 | FH-3554 | 41.7 | 43.5 | 41.7-43.5 | 42.6 | MS |
| 7 | FH-3556 | 0.0 | 36.4 | 0.0-36.4 | 18.2 | MR |
| 8 | FH-3558 | 14.3 | 50.0 | 14.3-50.0 | 32.2 | MS |
| 9 | FH-3555 | 10.0 | 60.0 | 10.0-60.0 | 35.0 | MS |
| 10 | Vivek QPM 9 (C) | 39.3 | 33.3 | 33.3-39.3 | 36.3 | MS |
| 11 | Vivek Hybrid 9 (C) | 27.5 | 41.7 | 27.5-41.7 | 34.6 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 60.6 | - | 60.6 | 60.6 | S |

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074)

Contd.

| S.No | Genotype | CLS (1-5) | | | Av. Score | Reaction | Cyst/ plant (n=5) | |
|---------------|--------------------|-----------|------|---------|-----------|----------|-------------------|----------|
| | | UDP | DHAU | Range | | | UDP | Reaction |
| AVT-I | | | | | | | | |
| 1 | FH-3594 | 2.3 | 1.3 | 1.3-2.3 | 1.8 | R | 21--32 | S |
| 2 | AH-1202 | 2.3 | 2.5 | 2.3-2.5 | 2.4 | MR | 10--16 | S |
| 3 | DH-238 | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | 7--18 | S |
| 4 | DH-262 | 2.8 | 1.3 | 1.3-2.8 | 2.0 | R | 11--16 | S |
| AVT-II | | | | | | | | |
| 5 | K-75 | 3.3 | 3.0 | 3.0-3.3 | 3.1 | MS | 4--8 | MR |
| 6 | FH-3554 | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 18--28 | S |
| 7 | FH-3556 | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | 7--15 | S |
| 8 | FH-3558 | 1.3 | 1.3 | 1.3-1.3 | 1.3 | R | 22--30 | S |
| 9 | FH-3555 | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 12--19 | S |
| 10 | Vivek QPM 9 (C) | 2.3 | 3.0 | 2.3-3.0 | 2.6 | MR | 15--28 | S |
| 11 | Vivek Hybrid 9 (C) | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R | 17--29 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 23--32 | S |

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)

Table 9. Disease screening of specialty corn hybrids

| S.No | Genotype | MLB (1-5) | | | | | Range | Av. Score | Reaction |
|-------------------|--------------------|-----------|------|------|------|------|---------|-----------|----------|
| | | DHOL | KARN | LUDH | DHAU | DELH | | | |
| QPM | | | | | | | | | |
| 1 | EHQ-63 | 3.0 | 1.5 | 4.0 | 4.0 | 3.5 | 1.5-4.0 | 3.2 | MS |
| 2 | EHQ-64 | 2.0 | 1.5 | 3.3 | 3.0 | 3.5 | 1.5-3.5 | 2.7 | MR |
| 3 | VEHQ 11-1 | 3.0 | 1.5 | 2.3 | 2.5 | 2.5 | 1.5-3.0 | 2.4 | MR |
| 4 | JH (QPM)3 | 3.0 | 1.0 | 2.0 | 1.5 | 1.5 | 1.0-3.0 | 1.8 | R |
| 5 | MMH QPM-6-12-13 | 3.0 | 2.0 | 2.0 | 1.5 | 2.0 | 1.5-3.0 | 2.1 | MR |
| 6 | VEHQ -3020 | 3.0 | 2.0 | 2.3 | 1.5 | 2.0 | 1.5-3.0 | 2.2 | MR |
| 7 | HQPM 1 (C) | 3.0 | 1.5 | 2.8 | 3.0 | 2.0 | 1.5-3.0 | 2.5 | MR |
| 8 | HQPM 5 (C) | 2.5 | 1.5 | 2.8 | 3.5 | 2.0 | 1.5-3.5 | 2.5 | MR |
| 9 | HQPM 7 (C) | 3.5 | 1.5 | 3.3 | 2.5 | 2.5 | 1.5-3.5 | 2.7 | MR |
| 10 | Vivek QPM 9 (C) | 3.5 | 2.0 | 2.3 | 3.0 | 1.5 | 1.5-3.5 | 2.5 | MR |
| Popcorn | | | | | | | | | |
| 11 | KDPC-2 | 4.5 | 1.5 | 2.5 | 3.5 | 3.5 | 1.5-4.5 | 3.1 | MS |
| 12 | BPC 3 | 4.0 | 1.5 | 3.8 | 3.5 | 4.0 | 1.5-4.0 | 3.4 | MS |
| 13 | BPCH 27 | 4.0 | 1.5 | 4.3 | 4.0 | 3.5 | 1.5-4.3 | 3.5 | MS |
| 14 | Bajaura Popcorn | 4.5 | 1.0 | 4.0 | 2.5 | 4.0 | 1.0-4.5 | 3.2 | MS |
| 15 | VL Popcorn-2 | 3.0 | 2.0 | 3.8 | 3.0 | 4.0 | 2.0-4.0 | 3.2 | MS |
| 16 | VL POPCORN(C) | 3.0 | 2.0 | 4.0 | 2.5 | 4.0 | 2.0-4.0 | 3.1 | MS |
| Sweet corn | | | | | | | | | |
| 17 | ADVSW-1 | 4.0 | 1.0 | 2.5 | 3.0 | 2.0 | 1.0-4.0 | 2.5 | MR |
| 18 | ADVSW-2 | 2.0 | 1.5 | 2.3 | 3.0 | 2.0 | 1.5-3.0 | 2.2 | MR |
| 19 | FSCH-41 | 3.5 | 1.0 | 3.8 | 2.0 | 3.0 | 1.0-3.8 | 2.7 | MR |
| 20 | KSCH-222 | 4.0 | 2.0 | 3.5 | 3.0 | 3.0 | 2.0-4.0 | 3.1 | MS |
| 21 | KSCH-333 | 3.5 | 2.0 | 4.3 | 4.0 | 3.0 | 2.0-4.3 | 3.4 | MS |
| 22 | FSCH-18 | 3.5 | 1.5 | 2.8 | 2.5 | 3.0 | 1.5-3.5 | 2.7 | MR |
| 23 | Bajaura Sweet Corn | 3.5 | 2.0 | 3.3 | 2.5 | 3.5 | 2.0-3.5 | 3.0 | MR |
| 24 | Bisco Madhu | 4.5 | 1.5 | 3.3 | 3.0 | 2.5 | 1.5-4.5 | 3.0 | MR |

Contd.

| MLB (1-5) | | | | | | | | | |
|-----------------|-----------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | DHOL | KARN | LUDH | DHAU | DELH | Range | Av. Score | Reaction |
| 25 | Madhuri (C) | 5.0 | 1.0 | 3.8 | 3.0 | 2.5 | 1.0-5.0 | 3.1 | MS |
| 26 | PRIYA (C) | 3.0 | 2.0 | 3.5 | 2.0 | 3.0 | 2.0-3.5 | 2.7 | MR |
| 27 | WOSC(C) | 3.0 | 1.5 | 3.8 | 2.0 | 3.0 | 1.5-3.8 | 2.7 | MR |
| Babycorn | | | | | | | | | |
| 28 | CMH 11-658 | 3.5 | 2.0 | 2.0 | 1.5 | - | 1.5-3.5 | 2.3 | MR |
| 29 | CMH 11-659 | 3.5 | 1.0 | 2.0 | 1.3 | 2.0 | 1.0-3.5 | 2.0 | R |
| 30 | Vivek Hybrid-27 | 4.0 | 2.0 | 3.3 | 1.0 | 2.5 | 1.0-4.0 | 2.6 | MR |
| 31 | HM 4(C) | 2.5 | 1.0 | 2.5 | 3.0 | 3.5 | 1.0-3.5 | 2.5 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 5.0 | - | 4.5 | - | 4.5 | 4.5-5.0 | 4.7 | S |

SUSEPTIBLE CHECK- MLB: DHOLI (CML 186), LUDHIANA (CM 600), DELHI (CM 600)

Contd.

| S.No | Genotype | TLB (1-5) | | | | Range | Av. Score | Reaction |
|-------------------|--------------------|-----------|------|------|-------|---------|-----------|----------|
| | | BAJA | ALMO | MAND | ARBH* | | | |
| QPM | | | | | | | | |
| 1 | EHQ-63 | 2.0 | 2.5 | 4.0 | 3.7 | 2.0-4.0 | 3.0 | MR |
| 2 | EHQ-64 | 2.3 | 1.5 | 3.8 | 2.4 | 1.5-3.8 | 2.5 | MR |
| 3 | VEHQ 11-1 | 1.8 | 2.0 | 2.0 | 3.3 | 1.8-3.3 | 2.3 | MR |
| 4 | JH (QPM)3 | 2.0 | 2.5 | 4.3 | 3.2 | 2.0-4.3 | 3.0 | MR |
| 5 | MMH QPM-6-12-13 | 2.5 | 2.5 | 3.8 | 3.9 | 2.5-3.9 | 3.2 | MS |
| 6 | VEHQ -3020 | 1.5 | 1.5 | 2.8 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 7 | HQPM 1 (C) | 1.3 | 1.5 | 3.5 | 2.6 | 1.3-3.5 | 2.2 | MR |
| 8 | HQPM 5 (C) | 1.3 | 1.5 | 3.8 | 2.7 | 1.3-3.8 | 2.3 | MR |
| 9 | HQPM 7 (C) | 2.0 | 2.0 | 2.8 | 2.3 | 2.0-2.8 | 2.3 | MR |
| 10 | Vivek QPM 9 (C) | 2.5 | 2.5 | 3.8 | 3.6 | 2.5-3.8 | 3.1 | MS |
| Popcorn | | | | | | | | |
| 11 | KDPC-2 | 2.0 | 4.0 | 4.3 | 3.6 | 2.0-4.3 | 3.5 | MS |
| 12 | BPC 3 | 2.0 | 4.5 | 3.8 | 3.3 | 2.0-4.5 | 3.4 | MS |
| 13 | BPCH 27 | 3.0 | 2.5 | 4.3 | 3.5 | 2.5-4.3 | 3.3 | MS |
| 14 | Bajaura Popcorn | 2.5 | 3.5 | 4.0 | 3.2 | 2.5-4.0 | 3.3 | MS |
| 15 | VL Popcorn-2 | 2.3 | 3.5 | 2.8 | 3.2 | 2.3-3.5 | 2.9 | MR |
| 16 | VL POPCORN(C) | 2.5 | 3.5 | 4.3 | 3.2 | 2.5-4.3 | 3.4 | MS |
| Sweet corn | | | | | | | | |
| 17 | ADVSW-1 | 2.3 | 2.0 | 3.8 | 3.1 | 2.0-3.8 | 2.8 | MR |
| 18 | ADVSW-2 | 2.8 | 2.5 | 4.3 | 3.2 | 2.5-4.3 | 3.2 | MS |
| 19 | FSCH-41 | 2.5 | 3.0 | 3.8 | 3.6 | 2.5-3.8 | 3.2 | MS |
| 20 | KSCH-222 | 3.0 | 3.0 | 3.8 | 3.6 | 3.0-3.8 | 3.3 | MS |
| 21 | KSCH-333 | 2.5 | 1.5 | 3.8 | 3.5 | 1.5-3.8 | 2.8 | MR |
| 22 | FSCH-18 | 2.5 | 1.5 | 4.3 | 3.2 | 1.5-4.3 | 2.9 | MR |
| 23 | Bajaura Sweet Corn | 2.0 | 2.5 | 4.0 | 3.4 | 2.0-4.0 | 3.0 | MR |
| 24 | Bisco Madhu | 3.3 | 3.5 | 4.0 | 3.6 | 3.3-4.0 | 3.6 | MS |

Contd.

| TLB (1-5) | | | | | | | | |
|-----------------|-----------------|------|------|------|-------|---------|-----------|----------|
| S.No | Genotype | BAJA | ALMO | MAND | ARBH* | Range | Av. Score | Reaction |
| 25 | Madhuri (C) | 2.5 | 2.5 | 3.0 | 3.7 | 2.5-3.7 | 2.9 | MR |
| 26 | PRIYA (C) | 2.0 | 1.5 | 2.8 | 3.2 | 1.5-3.2 | 2.4 | MR |
| 27 | WOSC(C) | 2.0 | 2.0 | 4.0 | 3.6 | 2.0-4.0 | 2.9 | MR |
| Babycorn | | | | | | | | |
| 28 | CMH 11-658 | 1.8 | 2.0 | 2.0 | 3.2 | 1.8-3.2 | 2.2 | MR |
| 29 | CMH 11-659 | 2.0 | 2.0 | 3.5 | 3.5 | 2.0-3.5 | 2.7 | MR |
| 30 | Vivek Hybrid-27 | 2.0 | 2.5 | 3.5 | 3.5 | 2.0-3.5 | 2.9 | MR |
| 31 | HM 4(C) | 2.5 | 3.5 | 3.8 | 3.6 | 2.5-3.8 | 3.3 | MS |
| RC | RES. CHECK | - | - | 1.8 | - | 1.8 | 1.8 | R |
| SC | SUS. CHECK | 4.5 | 5.0 | 4.8 | - | 4.5-5.0 | 4.8 | S |

RESISTANT CHECK-TLB: BAJAURA (MAJ-1137), MANDYA (NITYASHREE)

SUSCEPTIBLE CHECK- TLB : ALMORA (DHARI), MANDYA (219J)

Contd.

| BLSB (1-5) | | | | | | | | | |
|-------------------|--------------------|------|------|------|------|------|---------|-----------|----------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| QPM | | | | | | | | | |
| 1 | EHQ-63 | 2.5 | 3.8 | 4.8 | 3.0 | 3.0 | 2.5-4.8 | 3.4 | MS |
| 2 | EHQ-64 | 3.0 | 3.0 | 3.8 | 3.0 | 3.0 | 3.0-3.8 | 3.2 | MS |
| 3 | VEHQ 11-1 | 2.5 | 3.0 | 4.0 | 3.0 | 3.0 | 2.5-4.0 | 3.1 | MS |
| 4 | JH (QPM)3 | 3.5 | 3.8 | 3.8 | 2.0 | 2.5 | 2.0-3.8 | 3.1 | MS |
| 5 | MMH QPM-6-12-13 | 3.0 | 3.8 | 4.3 | 2.0 | 3.0 | 2.0-4.3 | 3.2 | MS |
| 6 | VEHQ -3020 | 3.0 | 4.0 | 3.8 | 2.0 | 4.0 | 2.0-4.0 | 3.4 | MS |
| 7 | HQPM 1 (C) | 3.0 | 4.0 | 4.0 | 2.0 | 3.0 | 2.0-4.0 | 3.2 | MS |
| 8 | HQPM 5 (C) | 3.0 | 4.0 | 4.0 | 2.0 | 3.0 | 2.0-4.0 | 3.2 | MS |
| 9 | HQPM 7 (C) | 3.0 | 3.8 | 3.8 | 2.0 | 3.0 | 2.0-3.8 | 3.1 | MS |
| 10 | Vivek QPM 9 (C) | 3.5 | 3.5 | 4.5 | 3.0 | 3.5 | 3.0-4.5 | 3.6 | MS |
| Popcorn | | | | | | | | | |
| 11 | KDPC-2 | 2.5 | 3.5 | 3.5 | 2.0 | 3.5 | 2.0-3.5 | 3.0 | MR |
| 12 | BPC 3 | 2.5 | 3.8 | 4.5 | 3.5 | 3.5 | 2.5-4.5 | 3.6 | MS |
| 13 | BPCH 27 | 3.5 | 4.0 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.7 | MS |
| 14 | Bajaura Popcorn | 3.0 | 4.0 | 4.3 | 3.0 | 3.5 | 3.0-4.3 | 3.6 | MS |
| 15 | VL Popcorn-2 | 3.0 | 3.5 | 4.8 | 4.0 | 3.5 | 3.0-4.8 | 3.8 | MS |
| 16 | VL POPCORN(C) | 3.0 | 3.5 | 4.8 | 3.0 | 3.0 | 3.0-4.8 | 3.5 | MS |
| Sweet corn | | | | | | | | | |
| 17 | ADVSW-1 | 3.0 | 2.8 | 5.0 | 2.0 | 2.5 | 2.0-5.0 | 3.0 | MR |
| 18 | ADVSW-2 | 2.5 | 2.8 | 3.5 | 3.0 | 3.0 | 2.5-3.5 | 3.0 | MR |
| 19 | FSCH-41 | 2.5 | 3.3 | 4.0 | 3.0 | 3.0 | 2.5-4.0 | 3.2 | MS |
| 20 | KSCH-222 | 3.0 | 3.5 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.7 | MS |
| 21 | KSCH-333 | 3.0 | 3.3 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.6 | MS |
| 22 | FSCH-18 | 3.0 | 3.5 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.7 | MS |
| 23 | Bajaura Sweet Corn | 3.0 | 3.5 | 4.0 | 3.0 | 3.5 | 3.0-4.0 | 3.4 | MS |
| 24 | Bisco Madhu | 3.0 | 3.5 | 4.3 | 3.0 | 3.5 | 3.0-4.3 | 3.5 | MS |

Contd.

| BLSB (1-5) | | | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------|-----------------|
| S.No | Genotype | MEDI | BHUB | PANT | DHAU | DELH | Range | Av. Score | Reaction |
| 25 | Madhuri (C) | 2.5 | 4.0 | 4.8 | 4.0 | 3.0 | 2.5-4.8 | 3.7 | MS |
| 26 | PRIYA (C) | 3.0 | 4.0 | 4.5 | 4.0 | 4.0 | 3.0-4.5 | 3.9 | MS |
| 27 | WOSC(C) | 3.0 | 3.3 | 4.8 | 4.0 | 3.0 | 3.0-4.8 | 3.6 | MS |
| Babycorn | | | | | | | | | |
| 28 | CMH 11-658 | 3.5 | 3.3 | 2.8 | 3.0 | - | 2.8-3.5 | 3.1 | MS |
| 29 | CMH 11-659 | 2.5 | 3.5 | 2.8 | 2.0 | 2.5 | 2.0-3.5 | 2.7 | MR |
| 30 | Vivek Hybrid-27 | 3.0 | 3.8 | 4.0 | 3.0 | 3.0 | 3.0-4.0 | 3.4 | MS |
| 31 | HM 4(C) | 3.0 | 3.5 | 4.3 | 3.0 | 2.5 | 2.5-4.3 | 3.3 | MS |
| RC | RES. CHECK | - | - | - | - | - | | | |
| SC | SUS. CHECK | - | 3.5 | 5.0 | - | 3.0 | | 3.8 | S |

SUSCEPTIBLE CHECK-BLSB : PANTNAGAR(CM 600), DHAULAKUAN (HQPM-1),
DELHI (CM 501) BHUBNESWER (Hishell)

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | Range | Av. Score | Reaction | FSR (1-9) | |
|-------------------|--------------------|------------|------|-------------|---------|-------|-----------|----------|-----------|--|
| | | DHAU* | LUDH | HYDE | UDP | | | | Reaction | |
| QPM | | | | | | | | | | |
| 1 | EHQ-63 | 2.0 | 5.1 | 6.0 | 5.1-6.0 | 5.6 | MS | 2.9 | R | |
| 2 | EHQ-64 | 1.0 | 4.8 | 4.0 | 4.0-4.8 | 4.4 | MR | 2.5 | R | |
| 3 | VEHQ 11-1 | 1.0 | 3.5 | 4.6 | 3.5-4.6 | 4.1 | MR | 1.9 | R | |
| 4 | JH (QPM)3 | 1.0 | 5.5 | 3.7 | 3.7-5.5 | 4.6 | MR | 2.5 | R | |
| 5 | MMH QPM-6-12-13 | 1.0 | 6.1 | 4.3 | 4.3-6.1 | 5.2 | MS | 2.7 | R | |
| 6 | VEHQ -3020 | 1.0 | 4.5 | 4.7 | 4.5-4.7 | 4.6 | MR | 2.7 | R | |
| 7 | HQPM 1 (C) | 1.0 | 6.8 | 4.0 | 4.0-6.8 | 5.4 | MS | 2.3 | R | |
| 8 | HQPM 5 (C) | 1.5 | 6.2 | 5.4 | 5.4-6.2 | 5.8 | MS | 2.6 | R | |
| 9 | HQPM 7 (C) | 2.0 | 4.7 | 4.6 | 4.6-4.7 | 4.7 | MR | 2.5 | R | |
| 10 | Vivek QPM 9 (C) | 1.0 | 5.8 | 5.1 | 5.1-5.8 | 5.5 | MS | 2.7 | R | |
| Popcorn | | | | | | | | | | |
| 11 | KDPC-2 | 3.0 | 4.9 | 4.9 | 4.9-4.9 | 4.9 | MR | 4.1 | MR | |
| 12 | BPC 3 | 4.0 | 5.3 | 4.0 | 4.0-5.3 | 4.7 | MR | 3.5 | MR | |
| 13 | BPCH 27 | 1.0 | 6.4 | 3.6 | 3.6-6.4 | 5.0 | MR | 4.0 | MR | |
| 14 | Bajaura Popcorn | 1.0 | 6.8 | 4.9 | 4.9-6.8 | 5.9 | MS | 2.9 | R | |
| 15 | VL Popcorn-2 | 1.0 | 6.9 | 5.7 | 5.7-6.9 | 6.3 | MS | 2.6 | R | |
| 16 | VL POPCORN(C) | 2.5 | 6.7 | 4.7 | 4.7-6.7 | 5.7 | MS | 4.3 | MR | |
| Sweet corn | | | | | | | | | | |
| 17 | ADVSW-1 | 1.0 | 5.4 | 3.6 | 3.6-5.4 | 4.5 | MR | 2.0 | R | |
| 18 | ADVSW-2 | 1.0 | 4.9 | 3.2 | 3.2-4.9 | 4.1 | MR | 1.6 | R | |
| 19 | FSCH-41 | 1.0 | 7.4 | 4.3 | 4.3-7.4 | 5.9 | MS | 2.0 | R | |
| 20 | KSCH-222 | 1.0 | 8.3 | 3.6 | 3.6-8.3 | 6.0 | MS | 3.0 | R | |
| 21 | KSCH-333 | 1.0 | 6.9 | 3.9 | 3.9-6.9 | 5.4 | MS | 1.6 | R | |
| 22 | FSCH-18 | 1.0 | 4.7 | 3.1 | 3.1-4.7 | 3.9 | MR | 1.9 | R | |
| 23 | Bajaura Sweet Corn | 1.0 | 8.2 | 3.4 | 3.4-8.2 | 5.8 | MS | 2.5 | R | |
| 24 | Bisco Madhu | 1.0 | 5.6 | 3.0 | 3.0-5.6 | 4.3 | MR | 1.8 | R | |

Contd.

| S.No | Genotype | BSDM (1-5) | | C.ROT (1-9) | | | FSR (1-9) | | |
|-----------------|-----------------|------------|------|-------------|---------|-----------|-----------|-----|----------|
| | | DHAU* | LUDH | HYDE | Range | Av. Score | Reaction | UDP | Reaction |
| 25 | Madhuri (C) | 1.0 | 7.3 | 4.4 | 4.4-7.3 | 5.9 | MS | 2.1 | R |
| 26 | PRIYA (C) | 1.0 | 8.3 | 3.6 | 3.6-8.3 | 6.0 | MS | 2.4 | R |
| 27 | WOSC(C) | 1.0 | 6.6 | 3.3 | 3.3-6.6 | 5.0 | MR | 2.1 | R |
| Babycorn | | | | | | | | | |
| 28 | CMH 11-658 | 1.0 | 6.7 | 3.3 | 3.3-6.7 | 5.0 | MR | 3.0 | R |
| 29 | CMH 11-659 | 1.0 | 4.9 | 3.7 | 3.7-4.9 | 4.3 | MR | 3.5 | MR |
| 30 | Vivek Hybrid-27 | 1.0 | 8.3 | 3.3 | 3.3-8.3 | 5.8 | MS | 2.7 | R |
| 31 | HM 4(C) | 1.0 | 4.7 | 4.0 | 4.0-4.7 | 4.4 | MR | 3.8 | MR |
| RC | RES. CHECK | - | - | - | - | - | - | - | - |
| SC | SUS. CHECK | - | 7.3 | 6.4 | 7.3 | 6.9 | S | 8.6 | S |

* Data not considered due to low disease pressure

SUSCEPTIBLE CHECK- C. ROT: LUDHIANA (CM 600), HYDERABAD (30V92)
FSR: UDAIPUR (SURYA), MANDYA(CM 500)

Contd.

| S.No | Genotype | C.RUST (1-5) | | RDM (%) | | SDM (%) | |
|-------------------|--------------------|--------------|-------|----------|-------|---------|----------|
| | | ARBH* | UDP | Reaction | MAND | COIM* | Reaction |
| QPM | | | | | | | |
| 1 | EHQ-63 | 1.6 | 57.5 | S | 100.0 | 26.2 | S |
| 2 | EHQ-64 | 1.6 | 51.0 | S | 100.0 | 20.0 | S |
| 3 | VEHQ 11-1 | 1.9 | 66.5 | S | 100.0 | 5.9 | S |
| 4 | JH (QPM)3 | 1.8 | 49.0 | MS | 100.0 | 0.0 | S |
| 5 | MMH QPM-6-12-13 | 1.7 | 78.0 | S | 100.0 | 7.5 | S |
| 6 | VEHQ -3020 | 1.4 | 82.5 | S | 100.0 | 5.9 | S |
| 7 | HQPM 1 (C) | 2.0 | 71.5 | S | 100.0 | 0.0 | S |
| 8 | HQPM 5 (C) | 1.7 | 69.5 | S | 100.0 | 7.1 | S |
| 9 | HQPM 7 (C) | 1.7 | 71.5 | S | 100.0 | 6.7 | S |
| 10 | Vivek QPM 9 (C) | 1.4 | 84.0 | S | 100.0 | 9.4 | S |
| Popcorn | | | | | | | |
| 11 | KDPC-2 | 1.8 | 90.5 | S | 100.0 | 0.0 | S |
| 12 | BPC 3 | 1.9 | 85.5 | S | 100.0 | 0.0 | S |
| 13 | BPCH 27 | 1.2 | 73.5 | S | 100.0 | 0.0 | S |
| 14 | Bajaura Popcorn | 1.9 | 92.0 | S | 100.0 | 10.3 | S |
| 15 | VL Popcorn-2 | 1.7 | 87.5 | S | 100.0 | 6.3 | S |
| 16 | VL POPCORN(C) | 1.7 | 100.0 | S | 100.0 | 17.3 | S |
| Sweet corn | | | | | | | |
| 17 | ADVSW-1 | 2.0 | 16.5 | MR | 64.3 | 0.0 | S |
| 18 | ADVSW-2 | 1.7 | 12.5 | MR | 100.0 | 16.3 | S |
| 19 | FSCH-41 | 1.7 | 91.5 | S | 100.0 | 15.9 | S |
| 20 | KSCH-222 | 1.5 | 56.0 | S | 100.0 | 0.0 | S |
| 21 | KSCH-333 | 1.8 | 97.5 | S | 100.0 | 15.0 | S |
| 22 | FSCH-18 | 1.8 | 48.5 | MS | 100.0 | 0.0 | S |
| 23 | Bajaura Sweet Corn | 1.6 | 39.0 | MS | 100.0 | 20.0 | S |
| 24 | Bisco Madhu | 1.5 | 70.0 | S | 100.0 | 0.0 | S |

Contd.

| S.No | Genotype | C.RUST (1-5) | RDM (%) | SDM (%) | | | |
|-----------------|-----------------|--------------|---------|----------|-------|-------|----------|
| | | ARBH* | UDP | Reaction | MAND | COIM* | Reaction |
| 25 | Madhuri (C) | 1.3 | 81.0 | S | 100.0 | 28.1 | S |
| 26 | PRIYA (C) | 1.8 | 89.5 | S | 100.0 | 46.9 | S |
| 27 | WOSC(C) | 1.7 | 89.0 | S | 100.0 | 27.8 | S |
| Babycorn | | | | | | | |
| 28 | CMH 11-658 | 1.6 | 29.0 | MS | 100.0 | 0.0 | S |
| 29 | CMH 11-659 | 2.3 | 19.5 | MR | 100.0 | 0.0 | S |
| 30 | Vivek Hybrid-27 | 2.1 | 87.5 | S | 100.0 | 0.0 | S |
| 31 | HM 4(C) | 2.6 | 84.5 | S | 100.0 | 31.9 | S |
| RC | RES. CHECK | - | - | - | 11.4 | - | R |
| SC | SUS. CHECK | - | 100.0 | S | 100.0 | 95.0 | S |

* Data not considered due to low disease pressure

RESISTANT CHECK-SDM: MANDYA (NITYASHREE)

SUCEPTIBLE CHECK-RDM: UDAIPUR (SURYA), **SDM:** MANDYA (CM 500), COIMBATORE (CM 500)

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|-------------------|--------------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| QPM | | | | | | |
| 1 | EHQ-63 | 28.6 | 72.7 | 28.6-72.7 | 50.7 | S |
| 2 | EHQ-64 | 11.1 | 43.8 | 11.1-43.8 | 27.5 | MS |
| 3 | VEHQ 11-1 | 14.1 | 40.0 | 14.1-40.0 | 27.1 | MS |
| 4 | JH (QPM)3 | 0.0 | 37.5 | 0.0-37.5 | 18.8 | MR |
| 5 | MMH QPM-6-12-13 | 47.2 | 50.0 | 47.2-50.0 | 48.6 | MS |
| 6 | VEHQ -3020 | 5.0 | 23.8 | 5.0-23.8 | 14.4 | MR |
| 7 | HQPM 1 (C) | 5.6 | 20.0 | 5.6-20.0 | 12.8 | MR |
| 8 | HQPM 5 (C) | 0.0 | 15.8 | 0.0-15.8 | 7.9 | R |
| 9 | HQPM 7 (C) | 18.8 | 28.6 | 18.8-28.6 | 23.7 | MR |
| 10 | Vivek QPM 9 (C) | 25.0 | 58.3 | 25.0-58.3 | 41.7 | MS |
| Popcorn | | | | | | |
| 11 | KDPC-2 | 31.7 | 17.6 | 17.6-31.7 | 24.7 | MR |
| 12 | BPC 3 | 27.5 | 33.3 | 27.5-33.3 | 30.4 | MS |
| 13 | BPCH 27 | 41.0 | 35.7 | 35.7-41.0 | 38.4 | MS |
| 14 | Bajaura Popcorn | 47.3 | 38.5 | 38.5-47.3 | 42.9 | MS |
| 15 | VL Popcorn-2 | 25.0 | 33.3 | 25.0-33.3 | 29.2 | MS |
| 16 | VL POPCORN(C) | 48.8 | 46.7 | 46.7-48.8 | 47.8 | MS |
| Sweet corn | | | | | | |
| 17 | ADVSW-1 | 53.3 | 17.4 | 17.4-53.3 | 35.4 | MS |
| 18 | ADVSW-2 | 16.7 | 47.6 | 16.7-47.6 | 32.2 | MS |
| 19 | FSCH-41 | 20.0 | 45.0 | 20.0-45.0 | 32.5 | MS |
| 20 | KSCH-222 | 67.5 | 68.8 | 67.5-68.8 | 68.2 | S |
| 21 | KSCH-333 | 43.8 | 72.2 | 43.8-72.2 | 58.0 | S |
| 22 | FSCH-18 | 29.2 | 57.1 | 29.2-57.1 | 43.2 | MS |
| 23 | Bajaura Sweet Corn | 12.1 | 52.2 | 12.1-52.2 | 32.2 | MS |
| 24 | Bisco Madhu | 53.3 | 40.0 | 40.0-53.3 | 46.7 | MS |

Contd.

| S.No | Genotype | ESR (%) | | | Av. Score | Reaction |
|-----------------|-----------------|---------|------|-----------|-----------|----------|
| | | PANT | DHAU | Range | | |
| 25 | Madhuri (C) | 56.1 | 61.5 | 56.1-61.5 | 58.8 | S |
| 26 | PRIYA (C) | 45.0 | 33.3 | 33.3-45.0 | 39.2 | MS |
| 27 | WOSC(C) | 37.9 | 33.3 | 33.3-37.9 | 35.6 | MS |
| Babycorn | | | | | | |
| 28 | CMH 11-658 | 0.0 | 50.0 | 0.0-50.0 | 25.0 | MR |
| 29 | CMH 11-659 | 0.0 | 45.8 | 0.0-45.8 | 22.9 | MR |
| 30 | Vivek Hybrid-27 | 12.5 | 85.7 | 12.5-85.7 | 49.1 | MS |
| 31 | HM 4(C) | 25.0 | 62.5 | 25.0-62.5 | 43.8 | MS |
| RC | RES. CHECK | - | - | - | - | - |
| SC | SUS. CHECK | 61.8 | 65.0 | 61.8-65.0 | 63.4 | S |

SUSEPTIBLE CHECK-ESR: DHAULAKUAN (DAC 7074)

Contd.

| S.No | Genotype | CLS (1-5) | | | | Reaction | Cyst/ plant (n=5) | |
|-------------------|--------------------|-----------|------|---------|-----------|----------|-------------------|----------|
| | | UDP | DHAU | Range | Av. Score | | UDP | Reaction |
| QPM | | | | | | | | |
| 1 | EHQ-63 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 14--21 | S |
| 2 | EHQ-64 | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | 4--8 | MR |
| 3 | VEHQ 11-1 | 2.3 | 2.0 | 2.0-2.3 | 2.1 | MR | 11--18 | S |
| 4 | JH (QPM)3 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 8--14 | S |
| 5 | MMH QPM-6-12-13 | 3.3 | 2.0 | 2.0-3.3 | 2.6 | MR | 19--28 | S |
| 6 | VEHQ -3020 | 1.3 | 2.5 | 1.3-2.5 | 1.9 | R | 16--23 | S |
| 7 | HQPM 1 (C) | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | 10--19 | S |
| 8 | HQPM 5 (C) | 1.3 | 3.0 | 1.3-3.0 | 2.1 | MR | 5--8 | MR |
| 9 | HQPM 7 (C) | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 10--15 | S |
| 10 | Vivek QPM 9 (C) | 4.3 | 2.5 | 2.5-4.3 | 3.4 | MR | 12--20 | S |
| Popcorn | | | | | | | | |
| 11 | KDPC-2 | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS | 10--18 | S |
| 12 | BPC 3 | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR | 15--22 | S |
| 13 | BPCH 27 | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR | 8--16 | S |
| 14 | Bajaura Popcorn | 4.3 | 2.0 | 2.0-4.3 | 3.1 | MS | 6--14 | S |
| 15 | VL Popcorn-2 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR | 12--18 | S |
| 16 | VL POPCORN(C) | 2.8 | 2.5 | 2.5-2.8 | 2.6 | MR | 13--24 | S |
| Sweet corn | | | | | | | | |
| 17 | ADVSW-1 | 4.3 | 3.0 | 3.0-4.3 | 3.6 | MS | 12--20 | S |
| 18 | ADVSW-2 | 4.3 | 2.0 | 2.0-4.3 | 3.1 | MS | 8--17 | S |
| 19 | FSCH-41 | 3.5 | 1.0 | 1.0-3.5 | 2.3 | MR | 21--32 | S |
| 20 | KSCH-222 | 4.5 | 1.0 | 1.0-4.5 | 2.8 | MR | 19--31 | S |
| 21 | KSCH-333 | 2.8 | 3.0 | 2.8-3.0 | 2.9 | MR | 13--22 | S |
| 22 | FSCH-18 | 3.0 | 1.3 | 1.3-3.0 | 2.1 | MR | 7--13 | S |
| 23 | Bajaura Sweet Corn | 1.5 | 1.0 | 1.0-1.5 | 1.3 | R | 9--16 | S |
| 24 | Bisco Madhu | 2.0 | 1.3 | 1.3-2.0 | 1.6 | R | 6--12 | S |

Contd.

| S.No | Genotype | CLS (1-5) | | | | Cyst/ plant (n=5) | | |
|-----------------|-----------------|-----------|------|---------|-----------|-------------------|--------|----------|
| | | UDP | DHAU | Range | Av. Score | Reaction | UDP | Reaction |
| 25 | Madhuri (C) | 3.0 | 2.5 | 2.5-3.0 | 2.8 | MR | 10--18 | S |
| 26 | PRIYA (C) | 4.0 | 1.0 | 1.0-4.0 | 2.5 | MR | 18--29 | S |
| 27 | WOSC(C) | 2.8 | 1.0 | 1.0-2.8 | 1.9 | R | 13--20 | S |
| Babycorn | | | | | | | | |
| 28 | CMH 11-658 | 2.8 | 1.0 | 1.0-2.8 | 1.9 | R | 11--17 | S |
| 29 | CMH 11-659 | 4.0 | 1.0 | 1.0-4.0 | 2.5 | MR | 4--9 | MR |
| 30 | Vivek Hybrid-27 | 2.0 | 1.0 | 1.0-2.0 | 1.5 | R | 16--26 | S |
| 31 | HM 4(C) | 2.8 | 1.0 | 1.0-2.8 | 1.9 | R | 7--13 | S |
| RC | RES. CHECK | - | - | - | - | - | - | - |
| SC | SUS. CHECK | 4.5 | - | 4.5 | 4.5 | S | - | - |
| CHECK | NAVJOT | - | - | - | - | - | 25--36 | S |

CHECK- CYST/PLANT : UDAIPUR (NAVJOT)

SUSEPTIBLE CHECK- CLS: UDAIPUR (SURYA)

Table 10. Disease screening of Private Sector hybrids against Bacterial stalk rot (*Erwinia chrysanthemi* pv *zeae*), maydis leaf blight (MLB), banaded leaf and sheath blight (BLSB) and curvularia leaf spot (CLS) of maize at Dhaulakuan

| S No. | Code | ESR (%) | MLB (1-5) | BLSB (1-5) | CLS (1-5) |
|-------|----------|---------|-----------|------------|-----------|
| 1 | M 1301 | 50.0 | 1.3 | 2.0 | 2.0 |
| 2 | M 1302 | 31.3 | 1.3 | 2.0 | 2.0 |
| 3 | M 1303 | 36.8 | 3.0 | 3.0 | 3.0 |
| 4 | M 1304 | 26.7 | 1.5 | 2.5 | 3.0 |
| 5 | M 1305 | 36.4 | 1.0 | 4.0 | 2.0 |
| 6 | M 1306 | 28.6 | 1.3 | 1.0 | 1.0 |
| 7 | M 1307 | 60.0 | 1.3 | 4.0 | 4.0 |
| 8 | M 1308 | 47.6 | 1.3 | 3.0 | 3.0 |
| 9 | M 1309 | 31.8 | 2.0 | 2.0 | 2.0 |
| 10 | M 1310 | 27.8 | 1.3 | 1.0 | 1.0 |
| 11 | M 1311 | 37.5 | 1.3 | 4.0 | 2.0 |
| 12 | M 1312 | 47.4 | 1.0 | 2.0 | 2.0 |
| 13 | M 1313 | 58.3 | 1.0 | 3.0 | 3.0 |
| 14 | M 1314 | 63.6 | 1.0 | 3.0 | 3.0 |
| 15 | M 1315 | 73.3 | 1.3 | 4.0 | 2.0 |
| 16 | M 1316 | 30.0 | 1.3 | 3.0 | 2.0 |
| 17 | M 1317 | 33.3 | 2.5 | 2.0 | 2.0 |
| 18 | M 1318 | 42.9 | 1.3 | 2.0 | 2.0 |
| 19 | M 1319 | 25.0 | 1.5 | 3.0 | 3.0 |
| 20 | M 1320 | 100.0 | 1.0 | 1.0 | 3.0 |
| SC | DAC 7074 | 50.0 | - | - | - |
| SC | HQPM 1 | - | - | 3.0 | - |

Table 11. Evaluation of maize hybrids against SDM disease at Mandya

| S. No. | Pedigree | SDM % | S. No. | Pedigree | SDM % | S. No. | Pedigree | SDM % |
|--------|----------|--------|--------|----------|--------------|--------|----------|--------------|
| 1 | MAH-991 | 100.00 | 5 | MAH-1000 | 85.00 | 9 | MAH-1028 | 50.00 |
| 2 | MAH-955 | 100.00 | 6 | MAH-1005 | 100.00 | 10 | MAH-1042 | 12.50 |
| 3 | MAH-957 | 52.94 | 7 | MAH-1017 | 25.00 | SC | CM 500 | 100.00 |
| 4 | MAH-974 | 50.00 | 8 | MAH-1024 | 44.44 | RC | NAH 1137 | 18.92 |

Note:SC: Susceptible check, RC: Resistant check

* Note: Values in the parenthesis are transformed values

Table 12. Disease screening of maize inbred lines against major diseases

| S.No | Genotype | MLB (1-5) | | | Range | Av. Score | Reaction |
|------|--------------------------------|-----------|------|------|---------|-----------|----------|
| | | DELH | LUDH | KARN | | | |
| 1 | HKISCST | 4.5 | 2.5 | 3.0 | 2.5-4.5 | 3.3 | MS |
| 2 | HKI 1040-11-7 | 4.5 | 3.0 | 3.5 | 3.0-4.5 | 3.7 | MS |
| 3 | SKV18 | 4.5 | 4.5 | 2.5 | 2.5-4.5 | 3.8 | MS |
| 4 | WINPOP43 | 4.5 | 2.0 | 2.0 | 2.0-4.5 | 2.8 | MR |
| 5 | DMSC16-2 | 1.5 | 2.0 | 2.0 | 1.5-2.0 | 1.8 | R |
| 6 | CM130 | 2.5 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 7 | DMRQPM 03-113 | - | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 8 | Tempx Trop(H0)QPM-B-B-B-57-B-B | 3.5 | 2.0 | 2.0 | 2.0-3.5 | 2.5 | MR |
| 9 | HKI PC8 | 4.5 | 3.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 10 | S99TLWQ-HG-B-B-B-20 | 4.5 | 4.0 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 11 | HKI164—4(1-3) | 4.0 | 4.5 | 2.5 | 2.5-4.5 | 3.7 | MS |
| 12 | SHD-1 ER6 | 5.0 | 4.5 | 3.5 | 3.5-5.0 | 4.3 | S |
| 13 | V 335 | 3.0 | 3.5 | 1.5 | 1.5-3.5 | 2.7 | MR |
| 14 | HKI 164-D-3-3-2 | 3.5 | 3.5 | 2.0 | 2.0-3.5 | 3.0 | MR |
| 15 | HKI 31-2 | 2.5 | 2.0 | 1.5 | 1.5-2.5 | 2.0 | R |
| 16 | DMSC 20 | 4.5 | 3.5 | 1.5 | 1.5-4.5 | 3.2 | MS |
| 17 | CM111 | - | 4.0 | 3.5 | 3.5-4.0 | 3.8 | MS |
| 18 | V390 | 2.0 | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R |
| 19 | BML13 | 2.0 | 3.0 | 1.0 | 1.0-3.0 | 2.0 | R |
| 20 | CML 44 | 3.0 | 2.5 | 1.5 | 1.5-3.0 | 2.3 | MR |
| 21 | CM 115 | 2.5 | 3.5 | 2.5 | 2.5-3.5 | 2.8 | MR |
| 22 | HKI 2-6-2-4 | 4.5 | 3.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 23 | CLQ-RCYQ40 | 4.0 | 3.5 | 1.0 | 1.0-4.0 | 2.8 | MR |
| 24 | CM117-3-2-1-1-1-2-1 | 2.5 | 4.0 | 2.5 | 2.5-4.0 | 3.0 | MR |
| 25 | HKI-2-6-2-4(1-2)-4 | 2.5 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 26 | G18seqcef74-2-1 | 2.5 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 27 | V336 | 2.0 | 3.0 | 2.0 | 2.0-3.0 | 2.3 | MR |
| 28 | CML161 | 3.0 | 2.0 | 3.0 | 2.0-3.0 | 2.7 | MR |
| 29 | HKI1352-5-8-9 | 2.0 | 2.5 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 30 | Pop.31DMR-88-3#-B*13-B-B-1 | 2.5 | 3.0 | 1.5 | 1.5-3.0 | 2.3 | MR |
| 31 | HKI191-1-2-5 | 2.5 | 2.0 | 1.5 | 1.5-2.5 | 2.0 | R |
| 32 | HKI 164-7-6 x 161 | 2.5 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 33 | P72c1xBrasil 1177-2-2-1-B-B | 2.5 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 34 | CUBA 377 | 2.5 | 2.0 | 1.5 | 1.5-2.5 | 2.0 | R |

Contd.

| S.No | Genotype | MLB (1-5) | | | Range | Av. Score | Reaction |
|------|---------------------------------------|-----------|------|------|---------|-----------|----------|
| | | DELH | LUDH | KARN | | | |
| 35 | HKI-484-5 | 4.0 | 2.5 | 1.0 | 1.0-4.0 | 2.5 | MR |
| 36 | CM 132 | 4.5 | 4.0 | 2.0 | 2.0-4.5 | 3.5 | MS |
| 37 | DMSC 36 | 4.0 | 3.0 | 2.5 | 2.5-4.0 | 3.2 | MS |
| 38 | DMSC8 | 3.5 | 3.0 | 1.0 | 1.0-3.5 | 2.5 | MR |
| 39 | POBLAC61C4 | 4.0 | 2.0 | 1.0 | 1.0-4.0 | 2.3 | MR |
| 40 | CML 451(P2) | 2.0 | 3.0 | 1.5 | 1.5-3.0 | 2.2 | MR |
| 41 | CM123 | 2.0 | 2.5 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 42 | CM 129 | 4.5 | 4.0 | 1.5 | 1.5-4.5 | 3.3 | MS |
| 43 | La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B | 2.0 | 4.5 | 2.5 | 2.0-4.5 | 3.0 | MR |
| 44 | DMSC6 | 3.5 | 4.0 | 2.0 | 2.0-4.0 | 3.2 | MS |
| 45 | HKI 586-1 WG'33 | - | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 46 | Tempx Trop(H0)QPM-B-B-B-57 | 1.5 | 2.0 | 3.0 | 1.5-3.0 | 2.2 | MR |
| 47 | DMSC1 | - | 4.5 | 2.5 | 2.5-4.5 | 3.5 | MS |
| 48 | CML 33 | 2.0 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R |
| 49 | CM149 | - | 2.5 | 1.5 | 1.5-2.5 | 2.0 | R |
| 50 | BML15 | - | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 51 | HKI 1128 | 3.5 | 3.5 | 2.5 | 2.5-3.5 | 3.2 | MS |
| 52 | KML 3-3 | 3.5 | 3.0 | 1.5 | 1.5-3.5 | 2.7 | MR |
| 53 | EC 646012 | 2.0 | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R |
| 54 | SC24- (C12)-3-2-1-1 | 3.5 | 3.0 | 1.5 | 1.5-3.5 | 2.7 | MR |
| 55 | V 351 | 2.5 | 2.0 | 1.5 | 1.5-2.5 | 2.0 | R |
| 56 | CM202 | 2.0 | 2.0 | 2.5 | 2.0-2.5 | 2.2 | MR |
| 57 | KML 225 | 2.0 | 3.5 | 1.0 | 1.0-3.5 | 2.2 | MR |
| 58 | SC7-2-1-2-6-1 | 2.5 | 2.0 | 1.5 | 1.5-2.5 | 2.0 | R |
| 59 | V334 | 2.0 | 2.5 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 60 | La Posta Seq C7-F10-3-1 | 2.5 | 3.5 | 2.0 | 2.0-3.5 | 2.7 | MR |
| 61 | CM119 | 4.5 | 4.0 | 2.0 | 2.0-4.5 | 3.5 | MS |
| 62 | ITNA04 | 5.0 | 2.0 | 2.0 | 2.0-5.0 | 3.0 | MR |
| 63 | P390AM/CMLC4F230-B-2-1 | 4.0 | 2.5 | 2.0 | 2.0-4.0 | 2.8 | MR |
| 64 | CM145 | 2.0 | 2.0 | 2.5 | 2.0-2.5 | 2.2 | MR |
| 65 | CM128 | 3.0 | 2.0 | 2.5 | 2.0-3.0 | 2.5 | MR |
| 66 | CML287 | 4.0 | 4.5 | 2.0 | 2.0-4.5 | 3.5 | MS |
| 67 | SC7-2-1-2-6 | 4.0 | 3.0 | 2.0 | 2.0-4.0 | 3.0 | MR |
| 68 | Temp.HOC15 | 5.0 | 4.5 | 2.0 | 2.0-5.0 | 3.8 | MS |
| 69 | WS KHOTHAI-1-WAXY-1-1 | 4.5 | 4.0 | 2.5 | 2.5-4.5 | 3.7 | MS |

Contd.

| S.No | Genotype | MLB (1-5) | | | Range | Av. Score | Reaction |
|------|----------------------------------|-----------|------|------|---------|-----------|----------|
| | | DELH | LUDH | KARN | | | |
| 70 | CM105 | 2.5 | 2.0 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 71 | V345 | - | 3.5 | 2.0 | 2.0-3.5 | 2.8 | MR |
| 72 | HKI C 322 | 4.0 | 3.5 | 1.5 | 1.5-4.0 | 3.0 | MR |
| 73 | S01slyq-B-B-13-B | 4.5 | 4.5 | 2.0 | 2.0-4.5 | 3.7 | MS |
| 74 | BML 6 | 4.0 | 4.0 | 2.5 | 2.5-4.0 | 3.5 | MS |
| 75 | EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B | - | NG | 2.5 | 2.5 | 2.5 | MR |
| 76 | 42050-1 | 2.0 | 2.0 | 1.0 | 1.0-2.0 | 1.7 | R |
| 77 | HYDE05R/204-1 | 2.0 | 3.5 | 2.0 | 2.0-3.5 | 2.5 | MR |
| 78 | TS2TR1107 | 2.0 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R |
| 79 | WINPOP2 | 5.0 | 2.5 | 1.5 | 1.5-5.0 | 3.0 | MR |
| 80 | SC24-(C12)-3-2-1-1 | 5.0 | 3.5 | 1.5 | 1.5-5.0 | 3.3 | MS |
| 81 | DMR QPM-03-124 | 3.5 | 3.0 | 2.0 | 2.0-3.5 | 2.8 | MR |
| 82 | BML5 | 3.5 | 2.0 | 2.5 | 2.0-3.5 | 2.7 | MR |
| 83 | BML8 | 4.5 | 3.5 | 2.5 | 2.5-4.5 | 3.5 | MS |
| 84 | P72c1Xbrasil1177-2 | 2.5 | 4.0 | 2.0 | 2.0-4.0 | 2.8 | MR |
| 85 | BML 7 | 2.5 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 86 | LM 5 | 2.0 | 3.5 | 3.0 | 2.0-3.5 | 2.8 | MR |
| 87 | HKI163 | 2.5 | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 88 | SC PINK | 5.0 | 2.5 | 2.0 | 2.0-5.0 | 3.2 | MS |
| 89 | HKI 226 | - | 2.5 | 1.5 | 1.5-2.5 | 2.0 | R |
| 90 | P3C45SB-33-##-11 | 4.0 | 2.0 | 1.5 | 1.5-4.0 | 2.5 | MR |
| 91 | LTP 1 | 3.5 | 3.0 | 2.5 | 2.5-3.5 | 3.0 | MR |
| 92 | WOSC | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.7 | MS |
| 93 | SCF | 2.5 | 2.5 | 3.0 | 2.5-3.0 | 2.7 | MR |
| 94 | EI-586-2 | 2.5 | 2.0 | 1.0 | 1.0-2.5 | 1.8 | R |
| 95 | HKI 164-3 (2-1)-1 | 3.5 | 4.0 | 1.5 | 1.5-4.0 | 3.0 | MR |
| 96 | CM 500 | 3.0 | 2.0 | 1.5 | 1.5-3.0 | 2.2 | MR |
| 97 | CML171 | 4.5 | 3.0 | 2.0 | 2.0-4.5 | 3.2 | MS |
| 98 | CM 501 | 2.0 | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R |
| 99 | Temp. Trop High oil QPM | 2.5 | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR |
| 100 | CML321 | 4.0 | 2.0 | 2.5 | 2.0-4.0 | 2.8 | MR |
| 101 | HKI193-1 | 4.0 | 3.0 | 3.0 | 3.0-4.0 | 3.3 | MS |
| 102 | CML3 | 2.0 | 2.5 | 1.0 | 1.0-2.5 | 1.8 | R |
| 103 | DMRQPM 58 | 4.0 | 4.0 | 2.5 | 2.5-4.0 | 3.5 | MS |
| 104 | HKI193-2-2-1 | 4.0 | 4.5 | 2.5 | 2.5-4.5 | 3.7 | MS |

Contd.

| | | MLB (1-5) | | | | | |
|------|--------------------------|-----------|------|------|---------|-----------|----------|
| S.No | Genotype | DELH | LUDH | KARN | Range | Av. Score | Reaction |
| 105 | Gen 6033 | 2.0 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R |
| 106 | CML 154 | 3.0 | 2.5 | 1.5 | 1.5-3.0 | 2.3 | MR |
| 107 | CM 502 | 2.5 | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 108 | DMHOC4 | 4.0 | 3.0 | 1.5 | 1.5-4.0 | 2.8 | MR |
| 109 | HKI-164-7-4-2 | 2.0 | 2.5 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 110 | WSCShrunken X MUS MADHAU | 3.0 | 2.0 | 2.5 | 2.0-3.0 | 2.5 | MR |
| 111 | CML 175 | 3.5 | 2.5 | 2.5 | 2.5-3.5 | 2.8 | MR |
| 112 | EI-670-2 | 2.0 | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R |
| 113 | Resistant check | 2.0 | 2.0 | 1.5 | 1.5-2.0 | 1.8 | R |
| 114 | Suseptible check | 5.0 | 4.5 | 4.0 | 4.0-5.0 | 4.5 | S |

Contd.

Resistant check : MLB- DELHI (SC24), LUDHIANA (LET DR** 99X ENTRY 49..)

Suseptible check : MLB - DELHI (CM119), LUDHIANA (WINPOP-1), KARN (536 CBT)

| S.No | Genotype | TLB (1-5) | | | Range | Av. Score | Reaction |
|------|--------------------------------|-----------|------|------|---------|-----------|----------|
| | | BAJA | ALMO | MAND | | | |
| 1 | HKISCST | 2.5 | 3.5 | 3.5 | 2.5-3.5 | 3.2 | MS |
| 2 | HKI 1040-11-7 | 2.5 | 4.0 | 3.5 | 2.5-4.0 | 3.3 | MS |
| 3 | SKV18 | 2.5 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 4 | WINPOP43 | 3.0 | 4.0 | 3.5 | 3.0-4.0 | 3.5 | MS |
| 5 | DMSC16-2 | 2.0 | NG | 3.0 | 2.0-3.0 | 2.5 | MR |
| 6 | CM130 | 2.0 | 2.5 | 3.5 | 2.0-3.5 | 2.7 | MR |
| 7 | DMRQPM 03-113 | 1.5 | NG | NG | 1.5 | 1.5 | R |
| 8 | Tempx Trop(H0)QPM-B-B-B-57-B-B | 1.5 | 1.0 | 2.5 | 1.0-2.5 | 1.7 | R |
| 9 | HKI PC8 | 2.5 | 4.0 | 3.5 | 2.5-4.0 | 3.3 | MS |
| 10 | S99TLWQ-HG-B-B-B-20 | 2.0 | 2.5 | 4.0 | 2.0-4.0 | 2.8 | MR |
| 11 | HKI164-4(1-3) | 1.5 | 1.5 | 2.5 | 1.5-2.5 | 1.8 | R |
| 12 | SHD-1 ER6 | 2.5 | 3.5 | 4.5 | 2.5-4.5 | 3.5 | MS |
| 13 | V 335 | 4.5 | 4.5 | 4.5 | 4.5-4.5 | 4.5 | S |
| 14 | HKI 164-D-3-3-2 | 2.0 | 2.0 | 2.5 | 2.0-2.5 | 2.2 | MR |
| 15 | HKI 31-2 | 3.5 | 3.5 | 3.5 | 3.5-3.5 | 3.5 | MS |
| 16 | DMSC 20 | 4.5 | 4.5 | 3.0 | 3.0-4.5 | 4.0 | MS |
| 17 | CM111 | 2.5 | 4.5 | 3.0 | 2.5-4.5 | 3.3 | MS |
| 18 | V390 | 2.0 | 4.0 | 3.5 | 2.0-4.0 | 3.2 | MS |
| 19 | BML13 | 1.5 | 2.0 | 2.5 | 1.5-2.5 | 2.0 | R |
| 20 | CML 44 | 1.5 | 4.5 | 3.5 | 1.5-4.5 | 3.2 | MS |
| 21 | CM 115 | 2.0 | 3.5 | 3.0 | 2.0-3.5 | 2.8 | MR |
| 22 | HKI 2-6-2-4 | 1.5 | 1.5 | 2.5 | 1.5-2.5 | 1.8 | R |
| 23 | CLQ-RCYQ40 | 1.0 | 2.0 | 3.0 | 1.0-3.0 | 2.0 | R |
| 24 | CM117-3-2-1-1-1-2-1 | 1.5 | 4.0 | 3.0 | 1.5-4.0 | 2.8 | MR |
| 25 | HKI-2-6-2-4(1-2)-4 | 1.5 | 1.5 | 2.5 | 1.5-2.5 | 1.8 | R |
| 26 | G18seqcef74-2-1 | 2.0 | 1.0 | 2.5 | 1.0-2.5 | 1.8 | R |
| 27 | V336 | 2.0 | 2.0 | 3.0 | 2.0-3.0 | 2.3 | MR |
| 28 | CML161 | 1.5 | 1.5 | 2.0 | 1.5-2.0 | 1.7 | R |
| 29 | HKI1352-5-8-9 | 2.0 | 2.5 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 30 | Pop.31DMR-88-3#-B*13-B-B-1 | 2.0 | 4.5 | 2.0 | 2.0-4.5 | 2.8 | MR |
| 31 | HKI191-1-2-5 | 2.0 | 2.5 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 32 | HKI 164-7-6 x 161 | 1.5 | 3.0 | 2.5 | 1.5-3.0 | 2.3 | MR |
| 33 | P72c1xBrasil 1177-2-2-1-B-B | 2.0 | 1.5 | 3.0 | 1.5-3.0 | 2.2 | MR |
| 34 | CUBA 377 | 2.0 | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R |

Contd.

| S.No | Genotype | TLB (1-5) | | | Range | Av. Score | Reaction |
|------|---------------------------------------|-----------|------|------|---------|-----------|----------|
| | | BAJA | ALMO | MAND | | | |
| 35 | HKI-484-5 | 1.5 | 2.0 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 36 | CM 132 | 1.5 | 1.5 | 3.0 | 1.5-3.0 | 2.0 | R |
| 37 | DMSC 36 | 2.5 | 4.0 | 4.0 | 2.5-4.0 | 3.5 | MS |
| 38 | DMSC8 | 3.0 | 4.0 | 3.5 | 3.0-4.0 | 3.5 | MS |
| 39 | POBLAC61C4 | 1.5 | 1.5 | 3.0 | 1.5-3.0 | 2.0 | R |
| 40 | CML 451(P2) | 1.0 | 2.5 | 2.5 | 1.0-2.5 | 2.0 | R |
| 41 | CM123 | 0.5 | 1.5 | 2.5 | 0.5-2.5 | 1.5 | R |
| 42 | CM 129 | 1.5 | 3.5 | 4.0 | 1.5-4.0 | 3.0 | MR |
| 43 | La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B | 2.0 | 2.0 | 3.0 | 2.0-3.0 | 2.3 | MR |
| 44 | DMSC6 | 3.0 | 2.0 | 3.5 | 2.0-3.5 | 2.8 | MR |
| 45 | HKI 586-1 WG'33 | 3.0 | 1.5 | 3.0 | 1.5-3.0 | 2.5 | MR |
| 46 | Tempx Trop(H0)QPM-B-B-B-57 | 1.5 | 1.0 | 4.5 | 1.0-4.5 | 2.3 | MR |
| 47 | DMSC1 | 1.5 | 2.0 | 3.0 | 1.5-3.0 | 2.2 | MR |
| 48 | CML 33 | 1.5 | 1.5 | 3.0 | 1.5-3.0 | 2.0 | R |
| 49 | CM149 | 1.0 | 1.0 | 2.5 | 1.0-2.5 | 1.5 | R |
| 50 | BML15 | 1.5 | 2.5 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 51 | HKI 1128 | 2.0 | 3.0 | 4.0 | 2.0-4.0 | 3.0 | MR |
| 52 | KML 3-3 | 1.5 | 3.0 | 2.5 | 1.5-3.0 | 2.3 | MR |
| 53 | EC 646012 | 2.0 | 1.5 | 4.5 | 1.5-4.5 | 2.7 | MR |
| 54 | SC24- (C12)-3-2-1-1 | 2.5 | 2.5 | 5.0 | 2.5-5.0 | 3.3 | MS |
| 55 | V 351 | 2.5 | 4.0 | 4.0 | 2.5-4.0 | 3.5 | MS |
| 56 | CM202 | 2.0 | 3.5 | 3.5 | 2.0-3.5 | 3.0 | MR |
| 57 | KML 225 | NG | 1.5 | 4.5 | 1.5-4.5 | 3.0 | MR |
| 58 | SC7-2-1-2-6-1 | 1.5 | 2.5 | 3.5 | 1.5-3.5 | 2.5 | MR |
| 59 | V334 | 1.5 | 2.5 | 4.0 | 1.5-4.0 | 2.7 | MR |
| 60 | La Posta Seq C7-F10-3-1 | 2.0 | 3.5 | 3.0 | 2.0-3.5 | 2.8 | MR |
| 61 | CM119 | 2.0 | 1.5 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 62 | ITNA04 | 2.5 | 4.5 | 4.5 | 2.5-4.5 | 3.8 | MS |
| 63 | P390AM/CMLC4F230-B-2-1 | 1.5 | 3.0 | 4.0 | 1.5-4.0 | 2.8 | MR |
| 64 | CM145 | 1.5 | 1.5 | 3.0 | 1.5-3.0 | 2.0 | R |
| 65 | CM128 | 1.0 | 2.0 | 2.5 | 1.0-2.5 | 1.8 | R |
| 66 | CML287 | 2.0 | 1.5 | 4.0 | 1.5-4.0 | 2.5 | MR |
| 67 | SC7-2-1-2-6 | 2.5 | 4.0 | 3.5 | 2.5-4.0 | 3.3 | MS |
| 68 | Temp.HOC15 | 2.5 | 3.5 | 4.0 | 2.5-4.0 | 3.3 | MS |
| 69 | WS KHOTHAI-1-WAXY-1-1 | 2.5 | 1.5 | 2.5 | 1.5-2.5 | 2.2 | MR |

Contd.

| S.No | Genotype | TLB (1-5) | | | Range | Av. Score | Reaction |
|------|----------------------------------|-----------|------|------|---------|-----------|----------|
| | | BAJA | ALMO | MAND | | | |
| 70 | CM105 | 1.0 | 1.5 | 3.5 | 1.0-3.5 | 2.0 | R |
| 71 | V345 | 2.0 | 2.5 | 4.0 | 2.0-4.0 | 2.8 | MR |
| 72 | HKI C 322 | 2.0 | 1.5 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 73 | S01slyq-B-B-13-B | 2.0 | 2.5 | 3.5 | 2.0-3.5 | 2.7 | MR |
| 74 | BML 6 | 1.5 | 2.5 | NG | 1.5-2.5 | 2.0 | R |
| 75 | EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B | 1.5 | 1.5 | 2.5 | 1.5-2.5 | 1.8 | R |
| 76 | 42050-1 | 1.5 | 1.5 | 3.5 | 1.5-3.5 | 2.2 | MR |
| 77 | HYDE05R/204-1 | 2.5 | 2.5 | 3.0 | 2.5-3.0 | 2.7 | MR |
| 78 | TS2TR1107 | 2.0 | 2.5 | 4.0 | 2.0-4.0 | 2.8 | MR |
| 79 | WINPOP2 | 2.5 | 2.5 | 4.0 | 2.5-4.0 | 3.0 | MR |
| 80 | SC24-(C12)-3-2-1-1 | 1.5 | 2.0 | 4.5 | 1.5-4.5 | 2.7 | MR |
| 81 | DMR QPM-03-124 | 2.0 | 2.5 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 82 | BML5 | 2.0 | 2.5 | 4.0 | 2.0-4.0 | 2.8 | MR |
| 83 | BML8 | 2.5 | 2.5 | 4.5 | 2.5-4.5 | 3.2 | MS |
| 84 | P72c1Xbrasil1177-2 | 1.5 | 1.5 | 2.5 | 1.5-2.5 | 1.8 | R |
| 85 | BML 7 | 1.5 | 1.5 | 2.0 | 1.5-2.0 | 1.7 | R |
| 86 | LM 5 | 2.0 | 2.0 | 2.5 | 2.0-2.5 | 2.2 | MR |
| 87 | HKI163 | 2.0 | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R |
| 88 | SC PINK | 1.5 | 1.5 | 4.0 | 1.5-4.0 | 2.3 | MR |
| 89 | HKI 226 | 2.0 | NG | 2.0 | 2.0-2.0 | 2.0 | R |
| 90 | P3C45SB-33-##-11 | 2.5 | 3.5 | 3.0 | 2.5-3.5 | 3.0 | MR |
| 91 | LTP 1 | 1.5 | 3.5 | 3.0 | 1.5-3.5 | 2.7 | MR |
| 92 | WOSC | 2.5 | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 93 | SCF | 1.5 | 4.0 | 4.0 | 1.5-4.0 | 3.2 | MS |
| 94 | EI-586-2 | 2.0 | 1.0 | 3.5 | 1.0-3.5 | 2.2 | MR |
| 95 | HKI 164-3 (2-1)-1 | 3.5 | 3.0 | 3.0 | 3.0-3.5 | 3.2 | MS |
| 96 | CM 500 | 2.0 | 1.5 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 97 | CML171 | 2.0 | 2.0 | 2.5 | 2.0-2.5 | 2.2 | MR |
| 98 | CM 501 | 1.5 | 1.5 | 3.0 | 1.5-3.0 | 2.0 | R |
| 99 | Temp. Trop High oil QPM | 3.5 | 1.5 | 2.5 | 1.5-3.5 | 2.5 | MR |
| 100 | CML321 | 2.0 | 2.5 | 2.0 | 2.0-2.5 | 2.2 | MR |
| 101 | HKI193-1 | 2.0 | 1.5 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 102 | CML3 | 3.0 | 3.5 | 3.0 | 3.0-3.5 | 3.2 | MS |
| 103 | DMRQPM 58 | 3.0 | 4.5 | 4.0 | 3.0-4.5 | 3.8 | MS |
| 104 | HKI193-2-2-1 | 2.0 | 2.5 | 2.5 | 2.0-2.5 | 2.3 | MR |

Contd.

| S.No | Genotype | TLB (1-5) | | | Range | Av. Score | Reaction |
|------|--------------------------|-----------|------|------|---------|-----------|----------|
| | | BAJA | ALMO | MAND | | | |
| 105 | Gen 6033 | 2.5 | 4.0 | 3.5 | 2.5-4.0 | 3.3 | MS |
| 106 | CML 154 | 2.0 | 2.5 | 3.0 | 2.0-3.0 | 2.5 | MR |
| 107 | CM 502 | 1.5 | 2.0 | 4.0 | 1.5-4.0 | 2.5 | MR |
| 108 | DMHOC4 | 2.0 | 1.5 | 3.5 | 1.5-3.5 | 2.3 | MR |
| 109 | HKI-164-7-4-2 | 4.5 | 1.0 | 2.0 | 1.0-4.5 | 2.5 | MR |
| 110 | WSCShrunken X MUS MADHAU | 2.5 | 2.0 | 4.5 | 2.0-4.5 | 3.0 | MR |
| 111 | CML175 | 2.0 | 2.0 | 3.0 | 2.0-3.0 | 2.3 | MR |
| 112 | EI-670-2 | 2.0 | 1.0 | NG | 1.0-2.0 | 1.5 | R |
| 113 | Resistant check | 1.5 | 2.0 | 2.0 | 1.5-2.0 | 1.8 | R |
| 114 | Suseptible check | 4.5 | 4.5 | 4.5 | 4.5-4.5 | 4.5 | S |

Contd.

Resistant check : TLB- MANDYA (NITYASHREE), ALMORA (V373)

Suseptible check : TLB - MANDYA (219J), ALMORA(V351)

| S.No | Genotype | BLSB (1-5) | | | | | | SDM (%) | | | |
|------|--------------------------------|------------|------|------|------|---------|-----------|----------|-------|-------|----------|
| | | DELH | KARN | PANT | DHAU | Range | Av. Score | Reaction | MAND | COIM* | Reaction |
| 1 | HKISCST | 4.0 | 1.5 | 5.0 | 5.0 | 1.5-5.0 | 3.9 | MS | 100.0 | 0.0 | S |
| 2 | HKI 1040-11-7 | 4.0 | 1.0 | 2.5 | 5.0 | 1.0-5.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 3 | SKV18 | 5.0 | 1.0 | 5.0 | - | 1.0-5.0 | 3.7 | MS | 100.0 | 30.8 | S |
| 4 | WINPOP43 | 4.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.6 | MS | 100.0 | 23.1 | S |
| 5 | DMSC16-2 | 2.5 | 1.5 | 0.0 | 4.0 | 0.0-4.0 | 2.0 | R | 100.0 | 0.0 | S |
| 6 | CM130 | 3.0 | 1.5 | 2.5 | 5.0 | 1.5-5.0 | 3.0 | MR | 100.0 | 0.0 | S |
| 7 | DMRQPM 03-113 | - | 2.0 | 0.0 | - | 0.0-2.0 | 1.0 | R | 100.0 | 18.8 | S |
| 8 | Tempx Trop(H0)QPM-B-B-B-57-B-B | 2.5 | 2.0 | 5.0 | 5.0 | 2.0-5.0 | 3.6 | MS | 50.0 | 16.7 | MS |
| 9 | HKI PC8 | 3.5 | 1.5 | 3.5 | 4.0 | 1.5-4.0 | 3.1 | MR | 100.0 | 26.7 | S |
| 10 | S99TLWQ-HG-B-B-B-20 | 4.0 | 2.5 | 4.0 | 4.0 | 2.5-4.0 | 3.6 | MS | 100.0 | 30.0 | S |
| 11 | HKI164—4(1-3) | 4.0 | 2.0 | 0.0 | 4.0 | 0.0-4.0 | 2.5 | MR | 100.0 | 0.0 | S |
| 12 | SHD-1 ER6 | 4.0 | 2.0 | 3.5 | 3.0 | 2.0-4.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 13 | V 335 | 4.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 14 | HKI 164-D-3-3-2 | 3.0 | 1.0 | 4.5 | 4.0 | 1.0-4.5 | 3.1 | MS | 100.0 | 0.0 | S |
| 15 | HKI 31-2 | 3.5 | 2.5 | 5.0 | 4.0 | 2.5-5.0 | 3.8 | MS | 100.0 | 0.0 | S |
| 16 | DMSC 20 | 3.0 | 2.5 | 5.0 | 4.0 | 2.5-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 17 | CM111 | 4.0 | 2.5 | 0.0 | 3.0 | 0.0-4.0 | 2.4 | MR | 100.0 | 0.0 | S |
| 18 | V390 | 4.5 | 1.0 | 0.0 | 4.0 | 0.0-4.5 | 2.4 | MR | 66.7 | 0.0 | S |
| 19 | BML13 | 4.0 | 1.5 | 2.5 | 4.0 | 1.5-4.0 | 3.0 | MR | 54.6 | 0.0 | S |
| 20 | CML 44 | 3.5 | 1.0 | 3.5 | 2.0 | 1.0-3.5 | 2.5 | MR | 100.0 | 0.0 | S |
| 21 | CM 115 | 3.5 | 1.5 | 0.0 | 4.0 | 0.0-4.0 | 2.3 | MR | 100.0 | 0.0 | S |
| 22 | HKI 2-6-2-4 | 4.0 | 1.5 | 0.0 | 4.0 | 0.0-4.0 | 2.4 | MR | 100.0 | 23.5 | S |
| 23 | CLQ-RCYQ40 | 3.0 | 2.0 | 5.0 | 4.5 | 2.0-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 24 | CM117-3-2-1-1-1-2-1 | 2.5 | 1.5 | 2.5 | 4.0 | 1.5-4.0 | 2.6 | MR | 28.6 | 41.7 | MS |
| 25 | HKI-2-6-2-4(1-2)-4 | 4.0 | 1.0 | 4.5 | 4.0 | 1.0-4.5 | 3.4 | MS | 100.0 | 26.7 | S |
| 26 | G18seqcef74-2-1 | 3.0 | 2.5 | 2.0 | 1.3 | 1.3-3.0 | 2.2 | MR | 66.7 | 0.0 | S |
| 27 | V336 | 4.5 | 1.5 | 3.5 | 4.0 | 1.5-4.5 | 3.4 | MS | 61.5 | 0.0 | S |
| 28 | CML161 | 4.0 | 2.5 | 0.0 | 5.0 | 0.0-5.0 | 2.9 | MR | 100.0 | 17.7 | S |
| 29 | HKI1352-5-8-9 | 3.5 | 1.5 | 0.0 | - | 0.0-3.5 | 1.7 | R | 100.0 | 0.0 | S |
| 30 | Pop.31DMR-88-3#-B*13-B-B-1 | 4.5 | 1.0 | 3.5 | 4.0 | 1.0-4.5 | 3.3 | MS | 100.0 | 0.0 | S |
| 31 | HKI191-1-2-5 | 2.5 | 1.0 | 4.0 | 3.0 | 1.0-4.0 | 2.6 | MR | 100.0 | 0.0 | S |
| 32 | HKI 164-7-6 x 161 | 3.5 | 1.0 | 5.0 | - | 1.0-5.0 | 3.2 | MS | 92.9 | 23.5 | S |
| 33 | P72c1xBrasil 1177-2-2-1-B-B | 1.5 | 1.5 | 2.5 | - | 1.5-2.5 | 1.8 | R | 90.9 | 0.0 | S |
| 34 | CUBA 377 | 1.5 | 1.5 | 5.0 | - | 1.5-5.0 | 2.7 | MR | 22.2 | 0.0 | MR |

Contd.

| S.No | Genotype | BLSB (1-5) | | | | | | SDM (%) | | | |
|------|---------------------------------------|------------|------|------|------|---------|-----------|----------|-------|-------|----------|
| | | DELH | KARN | PANT | DHAU | Range | Av. Score | Reaction | MAND | COIM* | Reaction |
| 35 | HKI-484-5 | 2.5 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 36 | CM 132 | 3.5 | 1.0 | 4.5 | 4.0 | 1.0-4.5 | 3.3 | MS | 100.0 | 0.0 | S |
| 37 | DMSC 36 | 3.0 | 1.0 | 5.0 | 5.0 | 1.0-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 38 | DMSC8 | 4.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.6 | MS | 100.0 | 28.6 | S |
| 39 | POBLAC61C4 | 3.0 | 1.5 | 0.0 | 4.0 | 0.0-4.0 | 2.1 | MR | 100.0 | 0.0 | S |
| 40 | CML 451(P2) | 3.5 | 1.5 | 0.0 | - | 0.0-3.5 | 1.7 | R | 37.5 | 81.3 | MS |
| 41 | CM123 | 3.5 | 1.0 | 4.0 | 5.0 | 1.0-5.0 | 3.4 | MS | 50.0 | 25.0 | MS |
| 42 | CM 129 | 4.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 43 | La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B | 4.0 | 1.0 | 5.0 | - | 1.0-5.0 | 3.3 | MS | 100.0 | 87.5 | S |
| 44 | DMSC6 | 4.5 | 2.0 | 5.0 | - | 2.0-5.0 | 3.8 | MS | 100.0 | 0.0 | S |
| 45 | HKI 586-1 WG'33 | 4.5 | 1.0 | 3.0 | 4.0 | 1.0-4.5 | 3.1 | MS | 100.0 | 0.0 | S |
| 46 | Tempx Trop(H0)QPM-B-B-B-57 | 2.5 | 1.5 | 4.0 | 4.0 | 1.5-4.0 | 3.0 | MR | 100.0 | 0.0 | S |
| 47 | DMSC1 | 4.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 48 | CML 33 | 2.5 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 49 | CM149 | 3.5 | 2.0 | 0.0 | 5.0 | 0.0-5.0 | 2.6 | MR | 100.0 | 0.0 | S |
| 50 | BML15 | 3.0 | 1.0 | 2.5 | - | 1.0-3.0 | 2.2 | MR | 100.0 | 18.8 | S |
| 51 | HKI 1128 | 4.0 | 1.0 | 0.0 | - | 0.0-4.0 | 1.7 | R | 100.0 | 0.0 | S |
| 52 | KML 3-3 | 3.0 | 1.0 | 4.0 | 4.0 | 1.0-4.0 | 3.0 | MR | 100.0 | 0.0 | S |
| 53 | EC 646012 | 3.5 | 1.0 | 3.5 | 2.0 | 1.0-3.5 | 2.5 | MR | 50.0 | 0.0 | MS |
| 54 | SC24- (C12)-3-2-1-1 | 4.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 55 | V 351 | 3.5 | 1.0 | 5.0 | 5.0 | 1.0-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 56 | CM202 | 4.0 | 1.0 | 3.5 | 4.0 | 1.0-4.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 57 | KML 225 | 3.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.4 | MS | 100.0 | 0.0 | S |
| 58 | SC7-2-1-2-6-1 | 4.0 | 1.5 | 5.0 | 1.3 | 1.5-5.0 | 2.9 | MR | 10.0 | 37.5 | R |
| 59 | V334 | 3.5 | 1.0 | 4.5 | - | 1.0-4.5 | 3.0 | MR | 100.0 | 0.0 | S |
| 60 | La Posta Seq C7-F10-3-1 | 3.5 | 1.5 | 5.0 | 3.0 | 1.5-5.0 | 3.3 | MS | 100.0 | 55.6 | S |
| 61 | CM119 | 4.0 | 1.5 | 4.5 | 5.0 | 1.5-5.0 | 3.8 | MS | 100.0 | 0.0 | S |
| 62 | ITNA04 | 4.5 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 63 | P390AM/CMLC4F230-B-2-1 | 3.5 | 1.5 | 5.0 | - | 1.5-5.0 | 3.3 | MS | 100.0 | 0.0 | S |
| 64 | CM145 | 4.0 | 2.0 | 5.0 | 4.0 | 2.0-5.0 | 3.8 | MS | 22.2 | 11.8 | MR |
| 65 | CM128 | 3.5 | 1.0 | 5.0 | 5.0 | 1.0-5.0 | 3.6 | MS | 100.0 | 21.4 | S |
| 66 | CML287 | 4.0 | 3.0 | 0.0 | - | 0.0-4.0 | 2.3 | MR | 72.7 | 33.3 | S |
| 67 | SC7-2-1-2-6 | 4.0 | 1.5 | 0.0 | 4.0 | 0.0-4.0 | 2.4 | MR | 100.0 | 25.0 | S |
| 68 | Temp.HOC15 | 4.5 | 1.5 | 0.0 | 3.0 | 0.0-4.5 | 2.3 | MR | 100.0 | 0.0 | S |
| 69 | WS KHOTHAI-1-WAXY-1-1 | 4.0 | 1.5 | 4.5 | - | 1.5-4.5 | 3.3 | MS | 100.0 | 0.0 | S |

Contd.

| S.No | Genotype | BLSB (1-5) | | | | Range | Av. Score | Reaction | SDM (%) | | |
|------|----------------------------------|------------|------|------|------|---------|-----------|----------|---------|-------|----------|
| | | DELH | KARN | PANT | DHAU | | | | MAND | COIM* | Reaction |
| 70 | CM105 | 4.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 71 | V345 | 4.0 | 1.5 | 5.0 | - | 1.5-5.0 | 3.5 | MS | 100.0 | 58.8 | S |
| 72 | HKI C 322 | 3.0 | 2.5 | 4.0 | - | 2.5-4.0 | 3.2 | MS | 100.0 | 55.6 | S |
| 73 | S01slyq-B-B-B-13-B | 4.0 | 1.0 | 3.0 | 4.0 | 1.0-4.0 | 3.0 | MR | 100.0 | 46.7 | S |
| 74 | BML 6 | 3.0 | 2.0 | 2.5 | 4.0 | 2.0-4.0 | 2.9 | MR | 100.0 | 0.0 | S |
| 75 | EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B | - | 2.0 | 0.0 | 4.0 | 0.0-4.0 | 2.0 | R | 100.0 | 0.0 | S |
| 76 | 42050-1 | 2.0 | 1.5 | 2.0 | 5.0 | 1.5-5.0 | 2.6 | MR | 100.0 | 0.0 | S |
| 77 | HYDE05R/204-1 | 3.5 | 1.0 | 3.0 | 4.0 | 1.0-4.0 | 2.9 | MR | 100.0 | 0.0 | S |
| 78 | TS2TR1107 | 3.5 | 1.5 | 3.0 | 4.0 | 1.5-4.0 | 3.0 | MR | 100.0 | 23.5 | S |
| 79 | WINPOP2 | 3.5 | 1.0 | 4.0 | 4.0 | 1.0-4.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 80 | SC24-(C12)-3-2-1-1 | 3.5 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.4 | MS | 100.0 | 25.0 | S |
| 81 | DMR QPM-03-124 | 3.0 | 1.5 | 4.0 | 4.0 | 1.5-4.0 | 3.1 | MS | 100.0 | 26.7 | S |
| 82 | BML5 | 3.0 | 2.5 | 5.0 | - | 2.5-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 83 | BML8 | 3.5 | 1.5 | 5.0 | 5.0 | 1.5-5.0 | 3.8 | MS | 100.0 | 56.3 | S |
| 84 | P72c1Xbrasil1177-2 | 1.5 | 1.5 | 2.5 | 4.0 | 1.5-4.0 | 2.4 | MR | 100.0 | 46.7 | S |
| 85 | BML 7 | 3.5 | 1.5 | 0.0 | 2.0 | 0.0-3.5 | 1.8 | R | 50.0 | 0.0 | MS |
| 86 | LM 5 | 3.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.4 | MS | 100.0 | 25.0 | S |
| 87 | HKI163 | 3.0 | 1.5 | 0.0 | 5.0 | 0.0-5.0 | 2.4 | MR | 100.0 | 26.7 | S |
| 88 | SC PINK | 4.5 | 1.5 | 5.0 | - | 1.5-5.0 | 3.7 | MS | 100.0 | 0.0 | S |
| 89 | HKI 226 | 3.5 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 90 | P3C45SB-33-##-11 | 3.5 | 1.0 | 0.0 | 2.0 | 0.0-3.5 | 1.6 | R | 100.0 | 35.7 | S |
| 91 | LTP 1 | 3.0 | 1.0 | 0.0 | - | 0.0-3.0 | 1.3 | R | 100.0 | 0.0 | S |
| 92 | WOSC | 4.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 93 | SCF | 4.0 | 1.0 | 0.0 | 3.0 | 0.0-4.0 | 2.0 | R | 100.0 | 0.0 | S |
| 94 | EI-586-2 | 3.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.3 | MS | 100.0 | 0.0 | S |
| 95 | HKI 164-3 (2-1)-1 | 4.0 | 1.0 | 5.0 | - | 1.0-5.0 | 3.3 | MS | 100.0 | 43.8 | S |
| 96 | CM 500 | 3.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.4 | MS | 100.0 | 35.7 | S |
| 97 | CML171 | 4.0 | 1.5 | 5.0 | - | 1.5-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 98 | CM 501 | 3.0 | 1.0 | 4.0 | - | 1.0-4.0 | 2.7 | MR | 100.0 | 0.0 | S |
| 99 | Temp. Trop High oil QPM | 2.5 | 1.0 | 4.0 | 4.0 | 1.0-4.0 | 2.9 | MR | 100.0 | 0.0 | S |
| 100 | CML321 | 4.0 | 1.0 | 5.0 | 3.0 | 1.0-5.0 | 3.3 | MS | 100.0 | 37.5 | S |
| 101 | HKI193-1 | 3.0 | 1.5 | 5.0 | 2.0 | 1.5-5.0 | 2.9 | MR | 100.0 | 20.0 | S |
| 102 | CML3 | 3.5 | 1.0 | 5.0 | - | 1.0-5.0 | 3.2 | MS | 100.0 | 0.0 | S |
| 103 | DMRQPM 58 | 4.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.5 | MS | 100.0 | 0.0 | S |
| 104 | HKI193-2-2-1 | 3.0 | 1.0 | 5.0 | 4.0 | 1.0-5.0 | 3.3 | MS | 100.0 | 0.0 | S |

Contd.

| S.No | Genotype | BLSB (1-5) | | | | | SDM (%) | | | | |
|------|--------------------------|------------|------|------|------|---------|-----------|----------|-------|-------|----------|
| | | DELH | KARN | PANT | DHAU | Range | Av. Score | Reaction | MAND | COIM* | Reaction |
| 105 | Gen 6033 | 4.0 | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.6 | MS | 100.0 | 0.0 | S |
| 106 | CML 154 | - | 1.5 | 5.0 | 4.0 | 1.5-5.0 | 3.5 | MS | 33.3 | 53.9 | MS |
| 107 | CM 502 | 4.0 | 1.5 | 4.0 | 4.0 | 1.5-4.0 | 3.4 | MS | 100.0 | 0.0 | S |
| 108 | DMHOC4 | 4.0 | 3.5 | 4.5 | 4.0 | 3.5-4.5 | 4.0 | MS | 100.0 | 25.0 | S |
| 109 | HKI-164-7-4-2 | 3.0 | 1.0 | 0.0 | - | 0.0-3.0 | 1.3 | R | 60.0 | 28.6 | S |
| 110 | WSCShrunken X MUS MADHAU | - | 1.5 | 0.0 | - | 0.0-1.5 | 0.8 | R | 100.0 | 33.3 | S |
| 111 | CML175 | 3.0 | 1.5 | 4.0 | 4.0 | 1.5-4.0 | 3.1 | MS | 100.0 | 0.0 | S |
| 112 | EI-670-2 | 2.0 | 1.5 | 4.0 | - | 1.5-4.0 | 2.5 | MR | 100.0 | 0.0 | S |
| 113 | Resistant check | - | 1.5 | - | - | 1.5 | 1.5 | R | 6.7 | 0.0 | R |
| 114 | Suseptible check | 4.0 | 4.0 | 5.0 | 5.0 | 4.0-5.0 | 4.5 | S | 100.0 | 100.0 | S |

Contd.

* Data not considered due to low disease pressure

Resistant check : BLSB- DELHI (CM501)

Suseptible check : BLSB - DELHI (CM501), KARNAL (536 CBT), DHAULAKUAN (HKI 163)

| S.No | Genotype | C.ROT (1-9) | | | | FSR (1-9) | | | |
|------|--------------------------------|-------------|------|------|----------|-----------|----------|------|----------|
| | | LUDH | DMR | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | HKISCST | 9.0 | 6.5 | 2.5 | 2.5-9.0 | 6.0 | MS | 3.9 | MR |
| 2 | HKI 1040-11-7 | 4.8 | 5.8 | 2.8 | 2.8-5.8 | 4.5 | MR | 2.3 | R |
| 3 | SKV18 | 4.4 | 3.2 | 3.3 | 3.2-4.4 | 3.6 | MR | 2.4 | R |
| 4 | WINPOP43 | 8.6 | 7.6 | 3.9 | 3.9-8.6 | 6.7 | MS | 3.3 | MR |
| 5 | DMSC16-2 | 2.7 | 8.3 | 3.7 | 2.7-8.3 | 4.9 | MR | 3.0 | R |
| 6 | CM130 | 8.0 | 3.8 | 2.8 | 2.8-8.0 | 4.9 | MR | 3.2 | MR |
| 7 | DMRQPM 03-113 | 9.0 | 9.0 | 3.7 | 3.7-9.0 | 7.2 | S | 2.5 | R |
| 8 | Tempx Trop(H0)QPM-B-B-B-57-B-B | 3.6 | 4.4 | 3.6 | 3.6-4.4 | 3.9 | MR | 2.5 | R |
| 9 | HKI PC8 | 8.2 | 6.3 | 2.7 | 2.7-8.2 | 5.7 | MS | 3.2 | MR |
| 10 | S99TLWQ-HG-B-B-B-20 | 8.8 | 7.7 | 3.3 | 3.3-8.8 | 6.6 | MS | 2.6 | R |
| 11 | HKI164—4(1-3) | 5.8 | 4.6 | 3.0 | 3.0-5.8 | 4.5 | MR | 3.3 | MR |
| 12 | SHD-1 ER6 | 8.0 | 2.4 | 2.9 | 2.4-8.0 | 4.4 | MR | 5.5 | MS |
| 13 | V 335 | 3.5 | 6.7 | 2.6 | 2.6-6.7 | 4.3 | MR | 3.8 | MR |
| 14 | HKI 164-D-3-3-2 | 5.8 | 4.4 | 2.1 | 2.1-5.8 | 4.1 | MR | 2.8 | R |
| 15 | HKI 31-2 | 8.5 | 5.5 | 2.3 | 2.3-8.5 | 5.4 | MS | 6.1 | MS |
| 16 | DMSC 20 | 7.5 | 4.3 | 3.3 | 3.3-7.5 | 5.0 | MR | 2.8 | R |
| 17 | CM111 | 7.7 | 3.2 | 3.1 | 3.1-7.7 | 4.7 | MR | 4.2 | MR |
| 18 | V390 | 5.5 | 7.5 | 3.6 | 3.6-7.5 | 5.5 | MS | 3.4 | MR |
| 19 | BML13 | 7.7 | 1.2 | 3.0 | 1.2-7.7 | 4.0 | MR | 3.6 | MR |
| 20 | CML 44 | 8.3 | 4.5 | 2.7 | 2.7-8.3 | 5.2 | MS | 3.7 | MR |
| 21 | CM 115 | 8.3 | 10.8 | 2.4 | 2.4-11.3 | 7.2 | MS | 2.4 | R |
| 22 | HKI 2-6-2-4 | NG | 7.0 | 2.3 | 2.3-7.0 | 4.7 | MR | 2.8 | R |
| 23 | CLQ-RCYQ40 | 2.7 | 4.3 | 1.9 | 1.9-4.3 | 3.0 | R | 1.6 | R |
| 24 | CM117-3-2-1-1-1-2-1 | 4.0 | 3.1 | 3.1 | 3.1-4.0 | 3.4 | MR | 2.3 | R |
| 25 | HKI-2-6-2-4(1-2)-4 | 8.0 | 7.2 | 2.9 | 2.9-8.0 | 6.0 | MS | 2.5 | R |
| 26 | G18seqcef74-2-1 | 4.4 | 2.0 | 2.4 | 2.0-4.4 | 2.9 | R | 3.1 | MR |
| 27 | V336 | 7.0 | 4.8 | 2.5 | 2.5-7.0 | 4.8 | MR | 3.2 | MR |
| 28 | CML161 | 6.2 | 5.5 | 2.6 | 2.6-6.2 | 4.8 | MR | 1.7 | R |
| 29 | HKI1352-5-8-9 | 6.5 | 7.3 | 2.6 | 2.6-7.3 | 5.5 | MS | 2.0 | R |
| 30 | Pop.31DMR-88-3#-B*13-B-B-1 | 4.5 | 2.7 | 2.7 | 2.7-4.5 | 3.3 | MR | 3.6 | MR |
| 31 | HKI191-1-2-5 | 6.8 | 4.1 | 2.1 | 2.1-6.8 | 4.3 | MR | 4.2 | MR |
| 32 | HKI 164-7-6 x 161 | 8.3 | 2.2 | 2.3 | 2.2-8.3 | 4.3 | MR | 1.9 | R |
| 33 | P72c1xBrasil 1177-2-2-1-B-B | 5.7 | 4.5 | 2.3 | 2.3-5.7 | 4.2 | MR | 2.4 | R |
| 34 | CUBA 377 | 5.0 | 3.8 | 4.0 | 3.8-5.0 | 4.3 | MR | 3.6 | MR |

Contd.

| S.No | Genotype | C.ROT (1-9) | | | | FSR (1-9) | | | |
|------|---------------------------------------|-------------|-----|------|---------|-----------|----------|------|----------|
| | | LUDH | DMR | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 35 | HKI-484-5 | 7.5 | - | 2.3 | 2.3-7.5 | 4.9 | MR | 5.0 | MR |
| 36 | CM 132 | 6.7 | 5.8 | 2.1 | 2.1-6.7 | 4.9 | MR | 1.4 | R |
| 37 | DMSC 36 | 8.0 | 6.7 | 2.4 | 2.4-8.0 | 5.7 | MS | 2.3 | R |
| 38 | DMSC8 | 8.5 | 9.0 | 2.4 | 2.4-9.0 | 6.6 | MS | 3.3 | MR |
| 39 | POBLAC61C4 | 7.0 | 6.8 | 2.3 | 2.3-7.0 | 5.4 | MS | 3.3 | MR |
| 40 | CML 451(P2) | NG | 8.0 | 2.6 | 2.6-8.0 | 5.3 | MS | 1.9 | R |
| 41 | CM123 | 4.4 | 3.3 | 2.9 | 2.9-4.4 | 3.5 | MR | 2.6 | R |
| 42 | CM 129 | 6.3 | 8.0 | 3.3 | 3.3-8.0 | 5.9 | MS | 1.4 | R |
| 43 | La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B | 5.5 | 3.4 | 3.1 | 3.1-5.5 | 4.0 | MR | 3.3 | MR |
| 44 | DMSC6 | 6.8 | 9.0 | 2.7 | 2.7-9.0 | 6.2 | MS | 4.9 | MR |
| 45 | HKI 586-1 WG'33 | 9.0 | 5.3 | 2.7 | 2.7-9.0 | 5.7 | MS | 1.3 | R |
| 46 | Tempx Trop(H0)QPM-B-B-B-57 | 7.1 | 4.8 | 3.0 | 3.0-7.1 | 5.0 | MR | 5.2 | MS |
| 47 | DMSC1 | 9.0 | - | 2.3 | 2.3-9.0 | 5.7 | MS | 3.2 | MR |
| 48 | CML 33 | 6.5 | - | 2.7 | 2.7-6.5 | 4.6 | MR | 2.2 | R |
| 49 | CM149 | 4.8 | 3.7 | 2.9 | 2.9-4.8 | 3.8 | MR | 2.7 | R |
| 50 | BML15 | 6.3 | 3.5 | 2.4 | 2.4-6.3 | 4.1 | MR | 1.5 | R |
| 51 | HKI 1128 | 7.7 | 5.8 | 2.5 | 2.5-7.7 | 5.3 | MS | 3.5 | MR |
| 52 | KML 3-3 | 6.3 | 4.4 | 2.8 | 2.8-6.3 | 4.5 | MR | 2.1 | R |
| 53 | EC 646012 | 5.5 | 6.0 | 2.8 | 2.8-6.0 | 4.8 | MR | 5.2 | MS |
| 54 | SC24- (C12)-3-2-1-1 | 8.0 | 6.6 | 3.5 | 3.5-8.0 | 6.0 | MS | 3.7 | MR |
| 55 | V 351 | 9.0 | 4.8 | 3.8 | 3.8-9.0 | 5.9 | MS | 2.5 | R |
| 56 | CM202 | 7.2 | 3.2 | 3.3 | 3.2-7.2 | 4.6 | MR | 3.0 | R |
| 57 | KML 225 | 6.3 | 3.8 | 4.2 | 3.8-6.3 | 4.8 | MR | 3.3 | MR |
| 58 | SC7-2-1-2-6-1 | 3.7 | 5.6 | 2.7 | 2.7-5.6 | 4.0 | MR | 2.0 | R |
| 59 | V334 | 7.0 | 1.3 | 2.5 | 1.3-7.0 | 3.6 | MR | 2.0 | R |
| 60 | La Posta Seq C7-F10-3-1 | 6.3 | - | 3.5 | 3.5-6.3 | 4.9 | MR | 1.9 | R |
| 61 | CM119 | 7.0 | 5.3 | 3.8 | 3.8-7.0 | 5.4 | MS | 2.3 | R |
| 62 | ITNA04 | 7.5 | 3.3 | 2.8 | 2.8-7.5 | 4.5 | MR | 3.5 | MR |
| 63 | P390AM/CMLC4F230-B-2-1 | 5.7 | 5.4 | 2.7 | 2.7-5.7 | 4.6 | MR | 3.9 | MR |
| 64 | CM145 | 8.0 | 6.0 | 2.8 | 2.8-8.0 | 5.6 | MS | 3.0 | R |
| 65 | CM128 | 7.0 | 6.8 | 3.5 | 3.5-7.0 | 5.8 | MS | 2.4 | R |
| 66 | CML287 | 7.7 | 5.9 | 3.8 | 3.8-7.7 | 5.8 | MS | 2.9 | R |
| 67 | SC7-2-1-2-6 | 8.5 | 9.0 | 4.0 | 4.0-9.0 | 7.2 | S | 2.9 | R |
| 68 | Temp.HOC15 | 3.0 | 5.7 | 2.7 | 2.7-5.7 | 3.8 | MR | 3.2 | MR |
| 69 | WS KHOTHAI-1-WAXY-1-1 | 8.7 | 5.8 | 3.0 | 3.0-8.7 | 5.8 | MS | 3.9 | MR |

Contd.

| S.No | Genotype | C.ROT (1-9) | | | | | FSR (1-9) | | |
|------|----------------------------------|-------------|-----|------|---------|-----------|-----------|------|----------|
| | | LUDH | DMR | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 70 | CM105 | 6.0 | 3.9 | 3.0 | 3.0-6.0 | 4.3 | MR | 1.8 | R |
| 71 | V345 | 6.1 | 4.2 | 3.7 | 3.7-6.1 | 4.7 | MR | 2.0 | R |
| 72 | HKI C 322 | 6.0 | 6.6 | 3.7 | 3.7-6.6 | 5.4 | MS | 2.1 | R |
| 73 | S01slyq-B-B-B-13-B | 8.0 | - | 3.3 | 3.3-8.0 | 5.7 | MS | 1.9 | R |
| 74 | BML 6 | 8.6 | 3.6 | 4.3 | 3.6-8.6 | 5.5 | MS | 2.4 | R |
| 75 | EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B | NG | - | 2.8 | 2.8 | 2.8 | R | 1.9 | R |
| 76 | 42050-1 | 3.2 | 2.1 | 3.0 | 2.1-3.2 | 2.8 | R | 2.0 | R |
| 77 | HYDE05R/204-1 | 7.5 | 3.7 | 3.2 | 3.2-7.5 | 4.8 | MS | 7.2 | S |
| 78 | TS2TR1107 | 2.8 | 3.4 | 2.1 | 2.1-3.4 | 2.8 | R | 2.7 | R |
| 79 | WINPOP2 | 6.5 | 5.9 | 3.9 | 3.9-6.5 | 5.4 | MS | 1.7 | R |
| 80 | SC24-(C12)-3-2-1-1 | 7.0 | 8.6 | 2.7 | 2.7-8.6 | 6.1 | MS | 1.9 | R |
| 81 | DMR QPM-03-124 | NG | 4.7 | 3.6 | 3.6-4.7 | 4.1 | MR | 1.7 | R |
| 82 | BML5 | 7.0 | 2.7 | 3.6 | 2.7-7.0 | 4.4 | MR | 2.1 | R |
| 83 | BML8 | 4.0 | 5.7 | 3.9 | 3.9-5.7 | 4.5 | MR | 4.0 | MR |
| 84 | P72c1Xbrasil1177-2 | 2.5 | 4.0 | 2.7 | 2.5-4.0 | 3.0 | R | 2.4 | R |
| 85 | BML 7 | 3.4 | 5.5 | 2.6 | 2.6-5.5 | 3.8 | MR | 2.6 | R |
| 86 | LM 5 | 7.7 | 2.6 | 3.7 | 2.6-7.7 | 4.7 | MR | 1.5 | R |
| 87 | HKI163 | 7.5 | 7.3 | 3.6 | 3.6-7.5 | 6.1 | MS | 2.3 | R |
| 88 | SC PINK | 9.0 | 7.3 | 3.3 | 3.3-9.0 | 6.5 | MS | 2.8 | R |
| 89 | HKI 226 | 4.0 | 8.0 | 2.7 | 2.7-8.0 | 4.9 | MR | 2.7 | R |
| 90 | P3C45SB-33-##-11 | 5.8 | 4.3 | 3.1 | 3.1-5.8 | 4.4 | MR | 3.2 | MR |
| 91 | LTP 1 | 7.5 | 9.0 | 2.9 | 2.9-9.0 | 6.5 | MS | 2.8 | R |
| 92 | WOSC | 5.0 | 3.2 | 2.6 | 2.6-5.0 | 3.6 | MR | 1.7 | R |
| 93 | SCF | 6.0 | 3.7 | 2.6 | 2.6-6.0 | 4.1 | MR | 1.6 | R |
| 94 | EI-586-2 | 6.7 | 9.0 | 2.0 | 2.0-9.0 | 5.9 | MS | 2.3 | R |
| 95 | HKI 164-3 (2-1)-1 | 2.7 | 2.8 | 2.7 | 2.7-2.8 | 2.7 | R | 1.4 | R |
| 96 | CM 500 | 7.8 | 3.6 | 3.1 | 3.1-7.8 | 4.8 | MR | 1.9 | R |
| 97 | CML171 | 6.2 | 3.2 | 4.0 | 3.2-6.2 | 4.5 | MR | 3.4 | MR |
| 98 | CM 501 | 8.0 | 2.3 | 2.4 | 2.3-8.0 | 4.2 | MR | 2.1 | R |
| 99 | Temp. Trop High oil QPM | 5.6 | 2.3 | 2.7 | 2.3-5.6 | 3.5 | MR | 2.7 | R |
| 100 | CML321 | 5.2 | 7.4 | 2.3 | 2.3-7.4 | 5.0 | MR | 1.6 | R |
| 101 | HKI193-1 | 7.7 | 1.0 | 2.3 | 1.0-7.7 | 3.7 | MR | 1.7 | R |
| 102 | CML3 | 4.2 | 6.0 | 3.0 | 3.0-6.0 | 4.4 | MR | 2.3 | R |
| 103 | DMRQPM 58 | 7.1 | 3.8 | 2.2 | 2.2-7.1 | 4.4 | MR | 2.0 | R |
| 104 | HKI193-2-2-1 | 9.0 | 3.3 | 2.5 | 2.5-9.0 | 4.9 | MR | 1.7 | R |

Contd.

| S.No | Genotype | C.ROT (1-9) | | | | | FSR (1-9) | | |
|------|--------------------------|-------------|-----|------|---------|-----------|-----------|------|----------|
| | | LUDH | DMR | HYDE | Range | Av. Score | Reaction | UDAI | Reaction |
| 105 | Gen 6033 | 6.2 | 3.8 | 3.0 | 3.0-6.2 | 4.3 | MR | 2.6 | R |
| 106 | CML 154 | 4.7 | 4.3 | 2.4 | 2.4-4.7 | 3.8 | MR | 3.6 | MR |
| 107 | CM 502 | 5.7 | 3.5 | 2.7 | 2.7-5.7 | 4.0 | MR | 3.2 | MR |
| 108 | DMHOC4 | 5.3 | 4.8 | 3.4 | 3.4-5.3 | 4.5 | MR | 3.4 | MR |
| 109 | HKI-164-7-4-2 | 6.5 | 3.7 | 3.3 | 3.3-6.5 | 4.5 | MR | 2.4 | R |
| 110 | WSCShrunken X MUS MADHAU | 4.0 | 1.5 | 3.3 | 1.5-4.0 | 2.9 | R | 3.4 | MR |
| 111 | CML175 | 2.7 | 3.8 | 3.6 | 2.7-3.8 | 3.4 | MR | 2.9 | R |
| 112 | EI-670-2 | 3.5 | 1.0 | 2.9 | 1.0-3.5 | 2.5 | R | 3.5 | MR |
| 113 | Resistant check | 3.0 | - | 2.0 | 2.0-3.0 | 2.5 | R | 2.4 | R |
| 114 | Suseptible check | 8.6 | 9.0 | 5.9 | 5.6-9.0 | 7.8 | S | 8.8 | S |

Contd.

Resistant check : C.ROT- LUDHIANA(LM-13), DMR (PFSR R3)

Suseptible check :C.ROT- LUDHIANA (LTP 1-1 B-B.), HYDERBAD (30V92), DMR (CM 600)

| S.No | Genotype | RDM (%) | | ESR (%) | | CLS (1-5) | | | Av. Score | Reaction |
|------|--------------------------------|---------|----------|---------|----------|-----------|------|---------|-----------|----------|
| | | UDAI | Reaction | PANT | Reaction | UDAI | DHAU | Range | | |
| 1 | HKISCST | NG | - | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 2 | HKI 1040-11-7 | 100.0 | S | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 3 | SKV18 | 38.0 | MS | 0.0 | R | 2.5 | - | 2.5 | 2.5 | MR |
| 4 | WINPOP43 | 86.0 | S | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 5 | DMSC16-2 | 100.0 | S | 20.0* | MR | NG | - | - | - | - |
| 6 | CM130 | 100.0 | S | 100.0 | S | 4.5 | 4.0 | 4.0-4.5 | 4.3 | S |
| 7 | DMRQPM 03-113 | 18.0 | MR | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 8 | Tempx Trop(H0)QPM-B-B-B-57-B-B | 100.0 | S | 33.3 | MS | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 9 | HKI PC8 | 100.0 | S | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 10 | S99TLWQ-HG-B-B-B-20 | 100.0 | S | 40.0 | MS | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR |
| 11 | HKI164—4(1-3) | 100.0 | S | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 12 | SHD-1 ER6 | 83.0 | S | 100.0 | S | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 13 | V 335 | 100.0 | S | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 14 | HKI 164-D-3-3-2 | 86.0 | S | 0.0 | R | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 15 | HKI 31-2 | 100.0 | S | 0.0 | R | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR |
| 16 | DMSC 20 | 100.0 | S | 25.0 | MR | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 17 | CM111 | 62.0 | S | 100.0 | S | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 18 | V390 | 47.0 | MS | 80.0 | S | 1.5 | 1.3 | 1.3-1.5 | 1.4 | R |
| 19 | BML13 | 100.0 | S | 0.0 | R | 1.5 | 1.5 | 1.5-1.5 | 1.5 | R |
| 20 | CML 44 | 60.0 | S | 0.0 | R | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 21 | CM 115 | 100.0 | S | 0.0 | R | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 22 | HKI 2-6-2-4 | 100.0 | S | 0.0 | R | 1.5 | 1.3 | 1.3-1.5 | 1.4 | R |
| 23 | CLQ-RCYQ40 | 85.0 | S | 0.0 | R | 4.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 24 | CM117-3-2-1-1-1-2-1 | 67.0 | S | 0.0 | R | 4.0 | 1.3 | 1.3-4.0 | 2.6 | MR |
| 25 | HKI-2-6-2-4(1-2)-4 | 100.0 | S | 0.0 | R | 4.5 | 1.3 | 1.3-4.5 | 2.9 | MR |
| 26 | G18seqcef74-2-1 | 0.0 | R | 25.00* | MR | 4.0 | 1.3 | 1.3-4.0 | 2.6 | MR |
| 27 | V336 | 15.0 | MR | 0.0 | R | 4.5 | 3.0 | 3.0-4.5 | 3.8 | MS |
| 28 | CML161 | 85.0 | S | 0.0 | R | 4.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 29 | HKI1352-5-8-9 | 92.0 | S | 28.3 | MS | 2.0 | - | 2.0 | 2.0 | R |
| 30 | Pop.31DMR-88-3#-B*13-B-B-1 | 83.0 | S | 0.0 | R | 3.5 | 2.0 | 2.0-3.5 | 2.8 | MR |
| 31 | HKI191-1-2-5 | 64.0 | S | 0.0 | R | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R |
| 32 | HKI 164-7-6 x 161 | 67.0 | S | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 33 | P72c1xBrasil 1177-2-2-1-B-B | 0.0 | R | 0.0 | R | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R |
| 34 | CUBA 377 | 15.0 | MR | 0* | R | 1.0 | 2.5 | 1.0-2.5 | 1.8 | R |

Contd.

| S.No | Genotype | RDM (%) | | ESR (%) | | CLS (1-5) | | | Av. Score | Reaction |
|------|---------------------------------------|---------|----------|---------|----------|-----------|------|---------|-----------|----------|
| | | UDAI | Reaction | PANT | Reaction | UDAI | DHAU | Range | | |
| 35 | HKI-484-5 | 100.0 | S | 50.0 | MS | 1.0 | 3.0 | 1.0-3.0 | 2.0 | R |
| 36 | CM 132 | 100.0 | S | 50.0 | MS | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR |
| 37 | DMSC 36 | 75.0 | S | 33.3 | MS | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 38 | DMSC8 | 100.0 | S | 33.3 | | 3.5 | - | 3.5 | 3.5 | MS |
| 39 | POBLAC61C4 | 100.0 | S | 0.0 | R | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR |
| 40 | CML 451(P2) | 17.0 | MR | 0.0 | R | 2.5 | - | 2.5 | 2.5 | MR |
| 41 | CM123 | 50.0 | MS | 0.0 | R | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R |
| 42 | CM 129 | 100.0 | S | 0.0 | R | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR |
| 43 | La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B | 62.0 | S | 33.3 | MS | 3.5 | 2.0 | 2.0-3.5 | 2.8 | MR |
| 44 | DMSC6 | 100.0 | S | 0.0 | R | 2.5 | - | 2.5 | 2.5 | MR |
| 45 | HKI 586-1 WG'33 | 100.0 | S | 66.7 | S | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR |
| 46 | Tempx Trop(H0)QPM-B-B-B-57 | 0.0 | R | 0.0 | R | 1.0 | 1.5 | 1.0-1.5 | 1.3 | R |
| 47 | DMSC1 | 100.0 | S | 0.0 | R | 2.0 | - | 2.0 | 2.0 | R |
| 48 | CML 33 | 30.0 | MS | 0.0 | R | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R |
| 49 | CM149 | 69.0 | S | 0.0 | R | 3.0 | 2.0 | 2.0-3.0 | 2.5 | MR |
| 50 | BML15 | 0.0 | R | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 51 | HKI 1128 | 92.0 | S | 100.0 | S | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR |
| 52 | KML 3-3 | 75.0 | S | 75.0 | S | 2.5 | 3.0 | 2.5-3.0 | 2.8 | MR |
| 53 | EC 646012 | 17.0 | MR | 0.0 | R | 0.0 | 1.3 | 0.0-1.3 | 0.6 | R |
| 54 | SC24- (C12)-3-2-1-1 | 88.0 | S | 16.7 | MR | 0.5 | 3.0 | 0.5-3.0 | 1.8 | R |
| 55 | V 351 | 92.0 | S | 0.0 | R | 1.0 | 3.0 | 1.0-3.0 | 2.0 | R |
| 56 | CM202 | 100.0 | S | 0.0 | R | 0.0 | 1.3 | 0.0-1.3 | 0.6 | R |
| 57 | KML 225 | 86.0 | S | 0.0 | R | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R |
| 58 | SC7-2-1-2-6-1 | 47.0 | MS | 0.0 | R | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R |
| 59 | V334 | 85.0 | S | 25.0 | MR | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R |
| 60 | La Posta Seq C7-F10-3-1 | 100.0 | S | 0.0 | R | 1.0 | 2.0 | 1.0-2.0 | 1.5 | R |
| 61 | CM119 | 85.0 | S | 50.0 | MS | 4.5 | 2.5 | 2.5-4.5 | 3.5 | MS |
| 62 | ITNA04 | 100.0 | S | 66.7 | S | 3.0 | 3.0 | 3.0-3.0 | 3.0 | MR |
| 63 | P390AM/CMLC4F230-B-2-1 | 100.0 | S | 0.0 | R | 4.0 | 3.0 | 3.0-4.0 | 3.5 | MS |
| 64 | CM145 | 50.0 | MS | 50.0 | MS | 0.5 | 1.3 | 0.5-1.3 | 0.9 | R |
| 65 | CM128 | 71.0 | S | 28.3 | S | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R |
| 66 | CML287 | 77.0 | S | 0.0 | R | 2.0 | - | 2.0 | 2.0 | R |
| 67 | SC7-2-1-2-6 | 100.0 | S | 0.0 | R | 1.0 | - | 1.0 | 1.0 | R |
| 68 | Temp.HOC15 | 100.0 | S | 0.0 | R | 4.0 | | 4.0 | 4.0 | MS |
| 69 | WS KHOTHAI-1-WAXY-1-1 | 33.0 | MS | 14.1 | MR | 1.5 | - | 1.5 | 1.5 | R |

Contd.

| S.No | Genotype | RDM (%) | | ESR (%) | | CLS (1-5) | | | Av. Score | Reaction |
|------|----------------------------------|---------|----------|---------|----------|-----------|------|---------|-----------|----------|
| | | UDAI | Reaction | PANT | Reaction | UDAI | DHAU | Range | | |
| 70 | CM105 | 53.0 | S | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 71 | V345 | 100.0 | S | 14.1 | MR | 1.0 | - | 1.0 | 1.0 | R |
| 72 | HKI C 322 | 81.0 | S | 28.3 | MS | 3.0 | - | 3.0 | 3.0 | MR |
| 73 | S01slyg-B-B-B-13-B | 100.0 | S | 56.6 | S | 4.5 | - | 4.5 | 4.5 | S |
| 74 | BML 6 | 100.0 | S | 60.0 | S | 1.5 | - | 1.5 | 1.5 | R |
| 75 | EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B | 0.0 | R | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 76 | 42050-1 | 28.0 | MS | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 77 | HYDE05R/204-1 | 85.0 | S | 50.0 | MS | 2.0 | - | 2.0 | 2.0 | R |
| 78 | TS2TR1107 | 44.0 | MS | 33.3 | MS | 0.5 | 2.0 | 0.5-2.0 | 1.3 | R |
| 79 | WINPOP2 | 75.0 | S | 0.0 | R | 4.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 80 | SC24-(C12)-3-2-1-1 | 90.0 | S | 22.2 | MR | 4.5 | 2.0 | 2.0-4.5 | 3.3 | MS |
| 81 | DMR QPM-03-124 | 29.0 | MS | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 82 | BML5 | 100.0 | S | 0.0 | R | 0.5 | - | 0.5 | 0.5 | R |
| 83 | BML8 | 100.0 | S | 100.0 | S | 0.5 | - | 0.5 | 0.5 | R |
| 84 | P72c1Xbrasil1177-2 | 0.0 | R | 50.0 | MS | 1.0 | - | 1.0 | 1.0 | R |
| 85 | BML 7 | 43.0 | MS | 33.3 | MS | 1.0 | 1.3 | 1.0-1.3 | 1.1 | R |
| 86 | LM 5 | 29.0 | MS | 0.0 | R | 4.0 | 2.0 | 2.0-4.0 | 3.0 | MR |
| 87 | HKI163 | 100.0 | S | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 88 | SC PINK | 0.0 | R | 60.0 | S | 4.0 | - | 4.0 | 4.0 | MS |
| 89 | HKI 226 | 80.0 | S | 0.0 | R | 1.0 | - | 1.0 | 1.0 | R |
| 90 | P3C45SB-33-##-11 | 80.0 | S | 0.0 | R | 1.0 | - | 1.0 | 1.0 | R |
| 91 | LTP 1 | 100.0 | S | 50.0 | MS | 2.0 | - | 2.0 | 2.0 | R |
| 92 | WOSC | 100.0 | S | 16.7 | MR | 1.5 | - | 1.5 | 1.5 | R |
| 93 | SCF | 100.0 | S | 20.0 | MR | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R |
| 94 | EI-586-2 | 55.6 | S | 0.0 | R | 2.5 | - | 2.5 | 2.5 | MR |
| 95 | HKI 164-3 (2-1)-1 | 36.0 | MS | 20.0 | MR | 3.0 | - | 3.0 | 3.0 | MR |
| 96 | CM 500 | 65.0 | S | 0.0 | R | 0.5 | 1.3 | 0.5-1.3 | 0.9 | R |
| 97 | CML171 | 67.0 | S | 33.3 | MS | 3.0 | - | 3.0 | 3.0 | MR |
| 98 | CM 501 | 56.0 | S | 50.0 | MS | 2.0 | 2.0 | 2.0-2.0 | 2.0 | R |
| 99 | Temp. Trop High oil QPM | 0.0 | R | 0.0 | R | 1.0 | - | 1.0 | 1.0 | R |
| 100 | CML321 | 50.0 | MS | 0.0 | R | 2.0 | - | 2.0 | 2.0 | R |
| 101 | HKI193-1 | 77.0 | S | 28.3 | MR | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |
| 102 | CML3 | 75.0 | S | 0.0 | R | 1.5 | - | 1.5 | 1.5 | R |
| 103 | DMRQPM 58 | 100.0 | S | 33.3 | MS | 4.0 | - | 4.0 | 4.0 | MS |
| 104 | HKI193-2-2-1 | 57.0 | S | 20.0 | MR | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR |

Contd.

| S.No | Genotype | RDM (%) | | ESR (%) | | CLS (1-5) | | | Av. Score | Reaction |
|------|--------------------------|---------|----------|---------|----------|-----------|------|---------|-----------|----------|
| | | UDAI | Reaction | PANT | Reaction | UDAI | DHAU | Range | | |
| 105 | Gen 6033 | 0.0 | R | 0.0 | R | 3.0 | - | 3.0 | 3.0 | MR |
| 106 | CML 154 | 63.0 | S | 33.3 | MS | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR |
| 107 | CM 502 | 100.0 | S | 50.0 | MS | 3.5 | - | 3.5 | 3.5 | MS |
| 108 | DMHOC4 | 27.0 | MS | 0.0 | R | 4.0 | - | 4.0 | 4.0 | MS |
| 109 | HKI-164-7-4-2 | 0.0 | R | 0.0 | R | 2.5 | 1.3 | 1.3-2.5 | 1.9 | R |
| 110 | WCSShrunken X MUS MADHAU | 78.0 | S | 0.0 | R | 2.5 | - | 2.5 | 2.5 | MR |
| 111 | CML175 | 67.0 | S | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 112 | EI-670-2 | 0.0 | R | 0.0 | R | 4.5 | - | 4.5 | 4.5 | S |
| 113 | Resistant check | 0.0 | R | - | - | 0.5 | 2.0 | 0.5-2.0 | 1.3 | R |
| 114 | Suseptible check | 100.0 | S | - | - | 5.0 | - | 5 | 5.0 | S |

Contd.

Suseptible check :FSR - UDAIPUR (SURYA)

Table 13. Disease screening of maize inbred lines against MLB disease

| S.No | Genotype | DELH (1-5) | Reaction | S.No | Genotype | DELH (1-5) | Reaction |
|------|-----------|------------|----------|------|----------|------------|----------|
| 1 | DQL 501 | 4.5 | S | 23 | DQL 593 | 4.5 | S |
| 2 | DQL 502 | 3.0 | MR | 24 | DQL 594 | 4.5 | S |
| 3 | DQL 503 | 2.5 | MR | 25 | DQL 596 | 3.5 | MS |
| 4 | DQL 504 | 2.5 | MR | 26 | DQL 597 | 2.0 | R |
| 5 | DQL 505 | 3.5 | MS | 27 | DQL 598 | 3.0 | MR |
| 6 | DQL 506 | 2.0 | R | 28 | DQL 599 | 4.0 | MS |
| 7 | DQL 562 | 5.0 | S | 29 | DQL 768 | 3.5 | MS |
| 8 | DQL 564 a | 2.0 | R | 30 | DQL 769 | 1.5 | R |
| 9 | DQL 565 | 2.5 | MR | 31 | DQL 770 | 1.5 | R |
| 10 | DQL 570 | 2.0 | R | 32 | DQL 772 | 2.0 | R |
| 11 | DQL 571 | 4.0 | MS | 33 | DQL 774 | 4.0 | MS |
| 12 | DQL 572 | 3.5 | MS | 34 | DQL 776 | 4.5 | S |
| 13 | DQL 573 | 3.0 | MR | 35 | DQL 778 | 3.0 | MR |
| 14 | DQL 574 | 4.5 | S | 36 | DQL 779 | 4.0 | MS |
| 15 | DQL 575 | 3.5 | MS | 37 | DQL 780 | 2.5 | MR |
| 16 | DQL 576 | 3.0 | MR | 38 | DQL 781 | 3.5 | MS |
| 17 | DQL 577 | 3.5 | MS | 39 | DQL 782 | 3.5 | MS |
| 18 | DQL 578 | 2.5 | MR | 40 | DQL 784 | 3.0 | MR |
| 19 | DQL 580 | 4.5 | S | 41 | DQL 785 | 3.0 | MR |
| 20 | DQL 588 | 3.5 | MS | 42 | DQL 786 | 3.5 | MS |
| 21 | DQL 590 | 4.5 | S | 43 | DQL 787 | 1.5 | R |
| 22 | DQL 591 | - | - | 44 | DQL 788 | 2.0 | R |

Table 14. Disease screening of QPM lines against different diseases

| Sl. No. | Pedigree | MLB (1-5) | | | | | | TLB (1-5) | | | | | |
|---------|------------|-----------|------|------|---------|-----------|----------|-----------|------|---------|-----------|----------|--|
| | | LUDH | KARN | DELH | Range | Av. Score | Reaction | BAJA | MAND | Range | Av. Score | Reaction | |
| 1 | DQL-2006 | 4.0 | 2.0 | 4.0 | 2.0-4.0 | 3.3 | MS | 2.5 | 4.5 | 2.5-4.5 | 3.5 | MS | |
| 2 | DQL-2008-1 | 3.0 | N.G | 3.5 | 3.0-3.5 | 3.3 | MS | 2.0 | 4.0 | 2.0-4.0 | 3.0 | MR | |
| 3 | DQL-2009 | 2.5 | 3.0 | 3.0 | 2.5-3.0 | 2.8 | MR | 3.0 | 3.0 | 3.0 | 3.0 | MR | |
| 4 | DQL-2010 | 2.0 | N.G | 2.0 | 2.0 | 2.0 | R | 2.5 | 2.0 | 2.0-2.5 | 2.3 | MR | |
| 5 | DQL-2015 | 2.0 | 2.0 | 3.0 | 2.0-3.0 | 2.3 | MR | 1.5 | 2.0 | 1.5-2.0 | 1.8 | R | |
| 6 | DQL-2019 | 2.5 | 2.0 | 3.5 | 2.0-3.5 | 2.7 | MR | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | |
| 7 | DQL-2024 | 2.0 | 2.0 | 4.0 | 2.0-4.0 | 2.7 | MR | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R | |
| 8 | DQL-2025 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | R | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R | |
| 9 | DQL-2028 | 2.5 | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR | 2.0 | 3.5 | 2.0-3.5 | 2.8 | MR | |
| 10 | DQL-2031 | 2.5 | 2.0 | 2.9 | 2.0-2.9 | 2.5 | MR | 2.0 | 2.5 | 2.0-2.5 | 2.3 | MR | |
| 11 | DQL-2034 | 3.0 | 2.0 | 2.5 | 2.0-3.0 | 2.5 | MR | 2.5 | 2.5 | 2.5 | 2.5 | MR | |
| 12 | DQL-2038 | 2.0 | N.G | 2.5 | 2.0-2.5 | 2.3 | MR | 2.5 | 2.5 | 2.5 | 2.5 | MR | |
| 13 | DQL-2039 | 2.5 | N.G | 2.5 | 2.5 | 2.5 | MR | 2.0 | 3.0 | 2.0-3.0 | 2.5 | MR | |
| 14 | DQL-2048 | 2.5 | 4.0 | 2.5 | 2.5-4.0 | 3.0 | MR | 1.5 | 2.5 | 1.5-2.5 | 2.0 | R | |
| 15 | DQL-2054 | 4.0 | 3.0 | 3.5 | 3.0-4.0 | 3.5 | MS | 1.5 | 4.0 | 1.5-4.0 | 2.8 | MR | |
| 16 | DQL-2055 | 3.5 | N.G | 3.5 | 3.5 | 3.5 | MS | 1.5 | 3.5 | 1.5-3.5 | 2.5 | MR | |
| 17 | DQL-2071 | 2.0 | 2.0 | 3.5 | 2.0-3.5 | 2.5 | MR | 1.5 | 3.0 | 1.5-3.0 | 2.3 | MR | |

* Resistant check : MLB- KARNAL (HKI 1128), TLB- MANDYA (NITYASHREE)

* Suseptible check : MLB- KARNAL (536CBT), TLB -MANDYA (219J), BAJAAURA (WINPOP-1)

| Sl. No. | Pedigree | C.ROT (1-9) | | | | Reaction | FSR (%) | | RDM (%) | |
|---------|------------|-------------|------|---------|-----------|----------|---------|----------|---------|----------|
| | | DELH | LUDH | Range | Av. Score | | UDAI | Reaction | UDAI | Reaction |
| 1 | DQL-2006 | 4.0 | 7.2 | 4.0-7.2 | 5.6 | MS | - | - | - | - |
| 2 | DQL-2008-1 | 5.8 | 6.0 | 5.8-6.0 | 5.9 | MS | 2.5 | R | 53.0 | S |
| 3 | DQL-2009 | 4.2 | 3.0 | 3.0-4.2 | 3.6 | MR | - | - | - | - |
| 4 | DQL-2010 | 5.2 | 2.5 | 2.5-5.2 | 3.9 | MR | - | - | - | - |
| 5 | DQL-2015 | 3.5 | 3.5 | 3.5 | 3.5 | MR | - | - | - | - |
| 6 | DQL-2019 | 6.2 | 6.0 | 6.0-6.2 | 6.1 | MS | - | - | - | - |
| 7 | DQL-2024 | 2.5 | 7.7 | 2.5-7.7 | 5.1 | MS | - | - | - | - |
| 8 | DQL-2025 | 4.9 | 7.0 | 4.9-7.0 | 6.0 | MS | - | - | - | - |
| 9 | DQL-2028 | 4.5 | 4.3 | 4.3-4.5 | 4.4 | MR | 1.2 | R | 50.0 | MS |
| 10 | DQL-2031 | 3.0 | 4.6 | 3.0-4.6 | 3.8 | MR | 3.3 | MR | 31.0 | MS |
| 11 | DQL-2034 | 3.0 | 5.2 | 3.0-5.2 | 4.1 | MR | - | - | - | - |
| 12 | DQL-2038 | 1.3 | 6.3 | 1.3-6.3 | 3.8 | MR | 1.7 | R | 70.0 | S |
| 13 | DQL-2039 | 3.3 | 5.0 | 3.3-5.0 | 4.2 | MR | 3.6 | MR | 86.0 | S |
| 14 | DQL-2048 | 3.8 | 6.2 | 3.8-6.2 | 5.0 | MR | - | - | - | - |
| 15 | DQL-2054 | 6.5 | 3.0 | 3.0-6.5 | 4.8 | MR | - | - | - | - |
| 16 | DQL-2055 | 3.0 | 6.2 | 3.0-6.2 | 4.6 | MR | - | - | - | - |
| 17 | DQL-2071 | 2.7 | 5.0 | 2.7-5.0 | 3.9 | MR | 2.5 | R | 100.0 | S |

* Resistant check : C.ROT - DELHI(HKI 1128)

* Suseptible check : C.ROT -DELHI (HKI 536 CBT) FSR - UDAIPUR (SURYA) RDM - UDAIPUR (SURYA)

Table . 15. Disease screening of maize genotypes against post flowering stalk rots

| S.No. | Pedigree | PFSR (1-9) | | | | | |
|-------|--|------------|------|------|------|---------|-----------|
| | | HYDE | LUDH | DELI | UDAI | Range | Av. Score |
| 1. | TL02A-1184A-32-1-3-1-1 | 2.9 | 5.5 | 1.2 | 2.7 | 1.2-5.5 | 3.1 |
| 2. | TL02A-1184A-32-1-3-1-2 | 3.6 | 5.2 | 2.0 | 3.1 | 2.0-5.2 | 3.5 |
| 3. | TL02A-1184A-32-4 -1-1-1-1 | 3.0 | 4.4 | 3.9 | 3.7 | 3.0-4.4 | 3.8 |
| 4. | TL02A-1184A-32-4 -1-1-2-1 | 3.7 | 5.6 | 2.6 | 4.9 | 2.6-5.6 | 4.2 |
| 5. | CML 248 -2-1-1-1 | 3.1 | 5.5 | 2.0 | 2.6 | 2.0-5.5 | 3.3 |
| 6. | CML 248 -2-1-2-2 | 3.4 | 7.0 | 1.7 | 2.7 | 1.7-7.0 | 3.7 |
| 7. | CML 269-1-2-1-1 | 2.8 | 5.7 | 2.2 | 2.2 | 2.2-5.7 | 3.2 |
| 8. | CML 269-1-2-1-2 | 4.1 | 6.0 | 3.3 | 3.4 | 3.3-6.0 | 4.2 |
| 9. | AF -04-B-5779-22-3-3-2-1-1 | 3.0 | 4.2 | 4.1 | 2.4 | 3.0-4.2 | 3.4 |
| 10. | AF -04-B-5779-22-3-3-2-2-1 | 3.6 | 5.7 | 3.4 | 3.7 | 3.4-5.7 | 4.1 |
| 11. | AF-04-B-5796-A- 7-1-2-2-1-1 | 2.7 | 4.0 | 3.7 | 4.2 | 2.7-4.0 | 3.7 |
| 12. | AF-04-B-5796-A- 7-1-2-2-1-2-1 | 2.8 | 5.8 | 2.5 | 3.3 | 2.5-5.8 | 3.6 |
| 13. | CM 115-4-2 -3-2-2-1-1 | 3.2 | 5.7 | 1.9 | 3.1 | 1.9-5.7 | 3.5 |
| 14. | CM 115-4-2 -3-2-2-1-2 | 3.3 | 7.0 | 2.6 | 3.8 | 2.6-7.0 | 4.2 |
| 15. | SKV 18-1-1-1-1-1 | 3.7 | 6.5 | 1.7 | 3.3 | 1.7-6.5 | 3.8 |
| 16. | SKV 18-1-1-1-1-2 | 3.4 | 5.7 | 1.0 | 2.9 | 1.0-5.7 | 3.3 |
| 17. | CML 249-1-2-1-1 | 3.9 | 3.6 | 2.1 | 4.2 | 2.1-4.2 | 3.5 |
| 18. | PFSR (Y)-C0-1-⊗-4-1⊗-1-1-1-3⊗-1-1-1 | 3.8 | 6.8 | 1.4 | 2.2 | 1.4-6.8 | 3.6 |
| 19. | PFSR (Y)-C0-1-⊗-4-1⊗-1-1-1-3⊗-1-1-2 | 3.3 | 4.0 | 3.8 | 3.4 | 3.3-4.0 | 3.6 |
| 20. | V406 -2 ⊗-1-1-1 | 3.4 | 7.6 | 1.5 | 3.8 | 1.5-7.6 | 4.1 |
| 21. | V338 -1⊗-1-1-1 | 2.7 | 5.2 | 1.3 | 3.9 | 1.3-5.2 | 3.3 |
| 22. | V338 -1⊗-1-1-2 | 3.3 | 5.0 | 2.3 | 3.7 | 2.3-5.0 | 3.6 |
| 23. | PFSR (Y)-C1-A-B1 White heart Small grains-3⊗-1-1-1 | 3.4 | 5.2 | - | 4.1 | 3.4-5.2 | 4.2 |
| 24. | PFSR (Y)-C1-A-B1 White heart Small grains-3⊗-1-2-1 | 2.3 | 7.0 | 5.9 | 1.9 | 1.9-7.0 | 4.3 |
| 25. | PFSR (Y)-C1-B-1⊗-1-1-1 | 2.9 | 7.7 | 3.7 | 2.1 | 2.1-7.7 | 4.1 |
| 26. | PFSR (Y)-C1-B-1⊗-1-2-1 | 3.4 | 5.7 | 5.2 | 1.7 | 1.7-5.7 | 4.0 |
| 27. | PFSR (Y)-C0-3⊗-1-1-1 | 4.0 | 3.0 | 1.3 | 2.4 | 1.3-4.0 | 2.7 |
| 28. | PFSR (Y)-C0-3⊗-1-2-1 | 2.3 | 6.0 | 1.0 | 2.3 | 1.0-6.0 | 2.9 |
| 29. | Extra-early (White)-1⊗-1-1-1 | 3.0 | 5.0 | - | 2.9 | 2.9-5.0 | 3.6 |
| 30. | Extra-early (White)-1⊗-1-2-1 | 4.1 | 5.2 | - | 4.7 | 4.1-5.2 | 4.7 |
| 31. | Indimyt-100-2⊗-1-1-1 | 2.9 | 6.2 | - | 5.7 | 2.9-6.2 | 4.9 |
| 32. | Indimyt-100-2⊗-1-1-2 | 2.7 | 7.0 | - | 2.9 | 2.7-7.0 | 4.2 |
| 33. | Indimyt-300-B (Bold grain Golden colour)-2⊗-1-1-1 | 2.9 | 4.7 | - | 2.5 | 2.5-4.7 | 3.4 |
| 34. | Indimyt-300-B (Bold grain Golden colour)-2⊗-1-1-2 | 4.0 | 5.2 | - | 3.1 | 3.1-5.2 | 4.1 |
| 35. | Indimyt-145-2⊗-1-1-1 | 3.9 | 8.0 | 1.0 | 3.1 | 1.0-8.0 | 4.0 |
| 36. | Indimyt-345-2⊗-1 | 2.7 | 6.0 | - | 2.8 | 2.7-6.0 | 3.8 |
| 37. | Indimyt-345-3⊗-2 | 3.3 | 5.3 | - | 2.3 | 2.3-5.3 | 3.6 |
| 38. | PFSR (Y)-C1-A-A1 Pink heart Bold grains-2⊗-1-2-1 | 3.7 | 5.2 | - | 3.9 | 3.7-5.2 | 4.3 |
| 39. | North east 3-1 (N)- ⊗ -1 | 2.9 | 3.3 | 1.8 | 1.7 | 1.7-3.3 | 2.4 |
| 40. | North east 4-1 (N)- ⊗ -1 | 3.1 | 5.7 | 1.1 | 3.2 | 1.1-5.7 | 3.3 |
| 41. | North east 4-1 (N)- ⊗-2 | 3.3 | 7.7 | 1.2 | 3.8 | 1.2-7.7 | 4.0 |
| 42. | North east 4-2 (N)- ⊗-1 | 4.3 | 4.0 | 1.5 | 3.5 | 1.5-4.3 | 3.3 |

| | | | | | | | |
|-----|-------------------------|-----|-----|-----|-----|---------|-----|
| 43. | North east 4-3 (N)- ⊗-1 | 2.7 | 4.0 | 1.8 | 2.2 | 1.8-4.0 | 2.7 |
| 44. | NEH (W) -2 (N)- ⊗-1 | 3.9 | 4.9 | 2.2 | 3.1 | 2.2-3.9 | 3.5 |
| 45. | NEH (W) -2 (N)- ⊗-2 | 3.6 | 3.8 | 1.6 | 2.4 | 1.6-3.8 | 2.9 |
| 46. | NEH (W) -3 (N)- ⊗-1 | 3.8 | 5.5 | 3.3 | 2.4 | 3.3-5.5 | 3.8 |
| 47. | NEH (W) -3 (N)- ⊗-2 | 3.6 | 3.5 | 2.6 | 3.1 | 2.6-3.6 | 3.2 |
| 48. | CM 202-1-1 (red heart) | 3.0 | 5.7 | 3.3 | 2.0 | 2.0-5.7 | 3.5 |
| 49. | CML 433-2-1 | 3.6 | 3.7 | 2.0 | 2.7 | 2.0-3.6 | 3.0 |
| 50. | North east 4-1 (N)- ⊗-1 | 3.6 | 4.0 | 1.2 | 3.8 | 1.2-4.0 | 3.2 |
| SC | 30V 92 | 6.8 | - | 1.5 | - | 1.5-6.8 | 4.2 |
| SC | WINPOP-1 | - | 8.6 | - | - | 8.6 | 8.6 |
| SC | LTP-1-B-B | - | 8.5 | - | - | 8.5 | 8.5 |
| SC | Local Sus Check | 6.2 | 8.5 | 7.5 | - | 6.2-7.5 | 7.4 |
| SC | Surya | - | - | - | 8.5 | 8.5 | 8.5 |

Table 16. Disease screening of inbred lines of maize genotypes against BLSB and RDM

| S.No. | Pedigree | BLSB (1-5) | | | | | | RDM (%) | |
|-------|---------------------------------|------------|------|------|---------|-----------|----------|---------|----------|
| | | PANT | UDAI | DELI | Range | Av. Score | Reaction | UDAI | Reaction |
| 1 | AF-04-B-5796-A- 7-1-1-3-1-1 | 4.3 | 3.0 | 4.0 | 3.0-4.3 | 3.8 | MS | 0.0 | R |
| 2 | Indimyt-345-2-1 | 4.3 | 2.5 | 4.0 | 2.5-4.3 | 3.6 | MS | 0.0 | R |
| 3 | Indimyt-300-A -2 | 3.5 | 1.0 | 4.0 | 1.0-4.0 | 2.8 | MR | 35.0 | MS |
| 4 | JCY3-7-1-2-1-'b-2-3-2-1-3-1-1-2 | 3.3 | 2.5 | 3.5 | 2.5-3.5 | 3.1 | MS | 38.0 | MS |
| 5 | CML 269-1-2-1 | 4.3 | 1.5 | 4.0 | 1.5-4.3 | 3.3 | MS | 75.0 | S |
| 6 | PFSR – R-9 | 4.0 | 0.5 | 3.5 | 0.5-4.0 | 2.7 | MR | 76.0 | S |
| 7 | PFSR – R-1 | 4.5 | 3.5 | 3.5 | 3.5-4.5 | 3.8 | MS | 32.0 | MS |
| 8 | PFSR – R-3 | 3.5 | 1.5 | 3.5 | 1.5-3.5 | 2.8 | MR | 75.0 | S |
| 9 | PFSR – R-5 | 4.5 | 1.5 | 3.5 | 1.5-4.5 | 3.2 | MS | 70.0 | S |
| 10 | PFSR – R-6 | 5.0 | 0.5 | 4.0 | 0.5-5.0 | 3.2 | MS | 88.0 | S |
| 11 | BLSB N - 21-1-⊗-1 | 5.0 | 0.5 | 4.0 | 0.5-5.0 | 3.2 | MS | 50.0 | MS |
| 12 | BLSB N - 21-2-⊗-1 | 4.5 | 3.5 | 2.0 | 2.0-4.5 | 3.3 | MS | 14.0 | MR |
| 13 | BLSB N - 21-3-⊗-1 | 4.0 | 4.0 | 3.0 | 3.0-4.0 | 3.7 | MS | 35.0 | MS |
| 14 | BLSB N - 21-4-⊗-1 | 3.3 | 1.5 | 3.5 | 1.5-3.5 | 2.8 | MR | 100.0 | S |
| 15 | BLSB N - 21-5-⊗-1 | 4.3 | 4.5 | 4.0 | 4.0-4.3 | 4.3 | S | 83.0 | S |
| 16 | BLSB N - 21-6-⊗-1 | 2.8 | 1.5 | 3.5 | 1.5-3.5 | 2.6 | MR | 0.0 | R |
| 17 | BLSB N - 21-7-⊗-1 | 4.3 | 4.5 | 3.5 | 3.5-4.5 | 4.1 | S | 0.0 | R |
| 18 | BLSB N - 21-8-⊗-1 | 4.3 | 0.5 | 3.0 | 0.5-4.3 | 2.6 | MR | 50.0 | MS |
| 19 | Indimyt-100-2⊗-1-1-1 | 4.5 | 4.5 | 2.5 | 2.5-4.5 | 3.8 | MS | 100.0 | S |
| 20 | PFSR (Y)-C1-A-B1-3⊗-1-1 | 3.5 | 4.5 | 3.5 | 3.5-4.5 | 3.8 | MS | 0.0 | R |
| 21 | PFSR (Y)-C1-A-B1 -3⊗-1-2 | 4.3 | 4.5 | 3.5 | 3.5-4.5 | 4.1 | S | 39.0 | MS |
| 22 | PFSR (Y)-C1-B-1⊗-1-1 | 2.8 | 2.0 | 4.0 | 2.0-4.0 | 2.9 | MR | 17.0 | MR |
| 23 | PFSR (Y)-C1-B-1⊗-1-2 | 4.3 | 5.0 | 4.0 | 4.0-5.0 | 4.4 | S | 81.0 | S |
| 24 | PFSR (Y)-C0-3⊗-1-1 | 4.5 | 5.0 | 3.5 | 3.5-5.0 | 4.3 | S | 33.0 | MS |
| 25 | PFSR (Y)-C0-3⊗-1-2 | 4.8 | 5.0 | 3.5 | 3.5-5.0 | 4.4 | S | 79.0 | S |
| 26 | Extra-early -1⊗-1-1 | 5.0 | 5.0 | 3.0 | 3.0-5.0 | 4.3 | S | 61.0 | S |
| 27 | Extra-early -1⊗-1-2 | 5.0 | 5.0 | 2.5 | 2.5-5.0 | 4.2 | S | 72.0 | S |
| 28 | CM 600 | 5.0 | - | 4.0 | 4.0-5.0 | 4.5 | S | - | - |
| 29 | Surya | - | 4.5 | - | 4.5 | 4.5 | S | 100.0 | S |
| 30 | Talk Local | - | 0.5 | - | 0.5 | 0.5 | R | 17.0 | MR |

Table 17. Disease screening of maize inbred lines against SDM disease at Mandya

| S. No. | Pedigree | SDM % | S. No. | Pedigree | SDM % | S. No. | Pedigree | SDM % |
|--------|----------|-------|--------|----------|--------|--------|----------|--------|
| 1 | MAI-740 | 30.00 | 21 | MAI-762 | 76.92 | 41 | MAI-727 | 95.00 |
| 2 | MAI-741 | 66.67 | 22 | MAI-763 | 57.14 | 42 | MAI-728 | 26.09 |
| 3 | MAI-743 | 26.67 | 23 | MAI-764 | 16.67 | 43 | MAI-729 | 15.79 |
| 4 | MAI-744 | 76.92 | 24 | MAI-765 | 71.43 | 44 | MAI-1 | 4.88 |
| 5 | MAI-745 | 57.14 | 25 | MAI-766 | 16.67 | 45 | MAI-2 | 12.50 |
| 6 | MAI-746 | 84.62 | 26 | MAI-767 | 15.38 | 46 | MAI-7 | 10.00 |
| 7 | MAI-747 | 60.00 | 27 | MAI-768 | 100.00 | 47 | MAI-8 | 31.25 |
| 8 | MAI-749 | 54.55 | 28 | MAI-769 | 42.86 | 48 | MAI-10 | 79.49 |
| 9 | MAI-750 | 88.24 | 29 | MAI-702 | 21.43 | 49 | MAI-11 | 3.70 |
| 10 | MAI-751 | 25.00 | 30 | MAI-707 | 15.38 | 50 | MAI-12 | 2.38 |
| 11 | MAI-752 | 86.67 | 31 | MAI-708 | 13.33 | 51 | MAI-13 | 2.50 |
| 12 | MAI-753 | 86.67 | 32 | MAI-711 | 57.14 | 52 | MAI-15 | 77.78 |
| 13 | MAI-754 | 69.57 | 33 | MAI-712 | 100.00 | 53 | MAI-16 | 89.47 |
| 14 | MAI-755 | 23.53 | 34 | MAI-713 | 26.09 | 54 | MAI-19 | 6.90 |
| 15 | MAI-756 | 8.70 | 35 | MAI-714 | 35.00 | 55 | MAI-20 | 2.70 |
| 16 | MAI-757 | 37.50 | 36 | MAI-715 | 73.33 | 56 | MAI-21 | 68.75 |
| 17 | MAI-758 | 26.32 | 37 | MAI-722 | 30.00 | SC | CM 500 | 100.00 |
| 18 | MAI-759 | 50.00 | 38 | MAI-724 | 88.89 | RC | NAH 1137 | 9.38 |
| 19 | MAI-760 | 33.33 | 39 | MAI-725 | 9.09 | | | |
| 20 | MAI-761 | 20.00 | 40 | MAI-726 | 5.26 | | | |

Note: SC: Susceptible check, RC: Resistant check

* Note: Values in the parenthesis are transformed values

Table 18. Disease screening of maize inbred lines against TLB disease at Mandya

| Sl. No. | Pedigree | TLB (1-5) | Sl. No. | Pedigree | TLB (1-5) |
|---------|--------------------|------------|---------|--------------------|------------|
| 1 | NAI-102-X-MA-2012K | 3.0 | 20 | NAI-162-#-MA-2012K | 3.5 |
| 2 | NAI-104-#-MA-2012K | 3.0 | | 219J | 4.5 |
| 3 | NAI-109-#-MA-2012K | 4.0 | 21 | NAI-165-#-MA-2012K | 3.5 |
| 4 | NAI-113-X-MA-2012K | 3.5 | 22 | NAI-167-X-MA-2012K | 3.5 |
| 5 | NAI-116-X-MA-2012K | 2.0 | 23 | NAI-169-X-MA-2012K | 3.0 |
| 6 | NAI-117-#-MA-2012K | 4.0 | 24 | NAI-170-#-MA-2012K | 3.0 |
| 7 | NAI-123-X-MA-2012K | 4.0 | 25 | NAI-171-#-MA-2012K | 4.0 |
| 8 | NAI-124-#-MA-2012K | 2.5 | 26 | NAI-173-#-MA-2012K | 4.0 |
| 9 | NAI-125-X-MA-2012K | 3.0 | 27 | NAI-174-#-MA-2012K | 3.0 |
| 10 | NAI-127-X-MA-2012K | 3.0 | 28 | NAI-175-X-MA-2012K | 2.0 |
| | 219J | 5.0 | 29 | NAI-176-X-MA-2012K | 2.5 |
| 11 | NAI-137-X-MA-2012K | 2.0 | 30 | NAI-177-X-MA-2012K | 4.0 |
| 12 | NAI-138-#-MA-2012K | 2.0 | | 219J | 5.0 |
| 13 | NAI-139-X-MA-2012K | 3.5 | 31 | NAI-178-X-MA-2012K | 3.5 |
| 14 | NAI-142-#-MA-2012K | 2.0 | 32 | NAI-179-X-MA-2012K | 2.0 |
| 15 | NAI-143-X-MA-2012K | 2.5 | 33 | NAI-180-X-MA-2012K | 3.0 |
| 16 | NAI-147-X-MA-2012K | 2.0 | 34 | NAI-181-#-MA-2012K | 3.5 |
| 17 | NAI-154-X-MA-2012K | 3.0 | 35 | NAI-188-X-MA-2012K | 3.0 |
| 18 | NAI-158-X-MA-2012K | 3.5 | 36 | NAI-190-#-MA-2012K | 3.5 |
| 19 | NAI-161-X-MA-2012K | 2.0 | 37 | NAI-191-#-MA-2012K | 3.0 |

| Sl. No. | Pedigree | TLB (1-5) | Sl. No. | Pedigree | TLB (1-5) |
|---------|-----------------------|------------|---------|-------------------------|------------|
| 38 | NAI-193-#-MA-2012K | 4.0 | 79 | CM-205-X-MA-2012K | 4.5 |
| 39 | NAI-194-#-MA-2012K | 4.0 | 80 | NAB-(Y)-2-X-MA-2012K | 4.0 |
| 40 | NAI-197-#-MA-2012K | 2.0 | | 219J | 4.5 |
| | 219J | 4.5 | 81 | WINPOP-21-X-MA-2012K | 4.0 |
| 41 | NAI-199-X-MA-2012K | 3.5 | 82 | WINPOP-26-#-MA-2012K | 3.5 |
| 42 | NAI-204-#-MA-2012K | 3.0 | 83 | WINPOP-45-X-MA-2012K | 4.0 |
| 43 | NAI-207-#-MA-2012K | 2.0 | 84 | WINPOP-47-X-MA-2012K | 4.0 |
| 44 | NAI-208-X-MA-2012K | 3.0 | 85 | POP-61CI-QPMTEYEX-2012K | 2.5 |
| 45 | NAI-209-#-MA-2012K | 2.0 | 86 | POP-446CI-#-2012K | 3.0 |
| 46 | NAI-212-#-MA-2012K | 4.5 | 87 | DMSC-4-X-MA-2012K | 4.5 |
| 47 | NAI-213-#-MA-2012K | 4.5 | 88 | DMSC-8-X-MA-2012K | 3.5 |
| 48 | NAI-214-2-X-MA-2012K | 3.0 | 89 | DMSC-14-#-MA-2012K | 4.0 |
| 49 | NAI-215-X-MA-2012K | 3.5 | 90 | DMSC-15-X-MA-2012K | 4.5 |
| 50 | NAI-216-7-X-MA-2012K | 3.5 | | 219J | 5.0 |
| | 219J | 4.5 | 91 | DMSC-18-#-MA-2012K | 4.5 |
| 51 | NAI-217-1-X-MA-2012K | 4.5 | 92 | DMSC-19-X-MA-2012K | 4.5 |
| 52 | NAI-218-10-X-MA-2012K | 3.0 | 93 | DMSC-20-#-MA-2012K | 3.5 |
| 53 | NAI-219-4-X-MA-2012K | 3.5 | 94 | DMSC-24-X-MA-2012K | 4.0 |
| 54 | NAI-220-1-X-MA-2012K | 3.0 | 95 | DMSC-28-X-MA-2012K | 3.0 |
| 55 | NAI-221-7X-MA-2012K | 4.0 | 96 | DMSC-36-X-MA-2012K | 4.5 |
| 56 | NAI-222-4-X-MA-2012K | 4.5 | 97 | JCY-2-7-1-X-2012K | 3.5 |
| 57 | NAI-224-6-#-MA-2012K | 3.0 | 98 | V-351-#-2012K | 2.5 |
| 58 | NAI-225-3-#-MA-2012K | 5.0 | 99 | U-139-X-2012K | 2.5 |
| 59 | NAI-226-X-MA-2012K | 3.0 | 100 | U-295-#-2012K | 4.0 |
| 60 | NAI-227-X-MA-2012K | 3.0 | | 219J | 4.5 |
| | 219J | 4.5 | 101 | U-298-X-2012K | 4.5 |
| 61 | NAI-228-X-MA-2012K | 5.0 | 102 | U-488-X-2012K | 3.5 |
| 62 | MAI-105-X-MA-2012K | 3.0 | 103 | U-536-#-2012K | 3.5 |
| 63 | MAI-110-X-MA-2012K | 3.0 | 104 | CML-124-X-MA-2012K | 5.0 |
| 64 | MAI-112-#-MA-2012K | 4.0 | 105 | CML-134-X-MA-2012K | 4.5 |
| 65 | KUI-1411-#-MA-2012K | 2.0 | 106 | CML-154-X-MA-2012K | 3.5 |
| 66 | KUI-1411a-#-MA-2012K | 2.0 | 107 | CML-247-X-MA-2012K | 3.5 |
| 67 | CM-114-#-MA-2012K | 3.0 | 108 | CML-248-X-MA-2012K | 3.0 |
| 68 | CM-115-#-MA-2012K | 4.5 | 109 | CML-300-X-MA-2012K | 4.5 |
| 69 | CM-118-#-MA-2012K | 3.5 | 110 | CML-336-X-MA-2012K | 4.0 |
| 70 | CM-122-#-MA-2012K | 3.5 | | 219J | 4.5 |
| | 219J | 4.5 | 111 | CML-362-X-MA-2012K | 3.0 |
| 71 | CM-123-#-MA-2012K | 3.5 | 112 | CML-363-X-MA-2012K | 4.0 |
| 72 | CM-131-X-MA-2012K | 3.5 | 113 | CML-404-X-MA-2012K | 3.5 |
| 73 | CM-132-#-MA-2012K | 3.0 | 114 | CML-410-X-MA-2012K | 2.0 |
| 74 | CM-137-#-MA-2012K | 4.5 | 115 | CML-413-X-MA-2012K | 4.5 |
| 75 | CM-138-#-MA-2012K | 4.5 | 116 | CML-436-X-MA-2012K | 3.5 |
| 76 | CM-139-X-MA-2012K | 5.0 | 117 | CML-480-#-MA-2012K | 4.0 |
| 77 | CM-142-X-MA-2012K | 4.5 | 118 | CML-481-X-MA-2012K | 4.0 |
| 78 | CM-145-#-MA-2012K | 3.5 | 119 | HKI-PC-5-X-MA-2012K | 4.5 |

| Sl. No. | Pedigree | TLB (1-5) | Sl. No. | Pedigree | TLB (1-5) |
|---------|--------------------------|------------|---------|-------------------------|------------|
| 120 | HKI-PC-7-X-MA-2012K | 3.0 | 135 | DM-HOC-14-X-2012K | 3.0 |
| | 219J | 4.5 | 136 | DM-HOC-15-X-2012K | 4.5 |
| 121 | HKI-163-X-MA-2012K | 2.0 | 137 | CLQ-RC-X-2012K | 4.5 |
| 122 | HKI-164-X-MA-2012K | 3.5 | 138 | CLQ-PCY-#-2012K | 4.0 |
| 123 | HKI-164-7-2-#-MA-2012K | 2.5 | 139 | V-341-#-2012K | 4.0 |
| 124 | HKI-193-1-X-MA-2012K | 3.0 | 140 | DMR-QPM-58-X-MA-2012K | 5.0 |
| 125 | HKI-209-#-MA-2012K | 4.0 | | 219J | 4.5 |
| | | | 141 | AQO-3134-B-B-13-#-2012K | 3.5 |
| 126 | HKI-PC-413-X-MA-2012K | 4.5 | 142 | HP-36-4-#-2012K | 3.0 |
| 127 | HKI-488-#-X-MA-2012K | 3.5 | 143 | HP-35-#-2012K | 3.5 |
| 128 | HKI-577-X-MA-2012K | 4.5 | 144 | WEP-1-#-2012K | 4.0 |
| 129 | HKI-1040-#-MA-2012K | 2.5 | 145 | WEP-6-#-2012K | 3.0 |
| 130 | HKI-1040-5-X-MA-2012K | 4.5 | 146 | LM-5-X-2012K | 4.0 |
| | 219J | 5.0 | 147 | ENT-1-#-2012K | 4.5 |
| 131 | HKI-1344-X-MA-2012K | 2.5 | 148 | SHD-1-ER-6-X-2012K | 4.0 |
| 132 | HKI-5072-2-BJ-#-MA-2012K | 5.0 | 149 | POBLAC-61C-X-2012K | 3.0 |
| 133 | POOL-16-X-2012K | 3.5 | | 219J | 4.5 |
| 134 | DM-HOC-1-#-2012K | 3.0 | | | |

Table 18A. Performance of previous years resistant lines (donors)

| S. No. | CODE | TLB (1-5) | S. No. | CODE | TLB (1-5) |
|--------|----------------|-----------|--------|-------------------|-----------|
| 1 | CM137 x NAI147 | 3.3 | 15 | CM138 x NAI112 | 3.3 |
| 2 | CM137 x NAI147 | 3.3 | 16 | CM138 x NAI112 | 2.8 |
| 3 | CM137 x NAI147 | 3.0 | 17 | CM139 x NAI147 | 3.3 |
| 4 | CM212 x SKV-18 | 2.8 | 18 | CM138 x NAI112 | 4.0 |
| 5 | CM212 x SKV-18 | 3.8 | 19 | CM139 x NAI112 | 2.3 |
| 6 | CM212 x SKV-18 | 3.8 | 20 | CM139 x NAI147 | 3.0 |
| 7 | CM212 x SKV-18 | 3.5 | 21 | CM137 x NAI147 PR | 3.3 |
| 8 | CM212 | 3.8 | 22 | CM138 x NAI112 | 3.3 |
| 9 | CM137 x NAI147 | 2.8 | 23 | CM139 x NAI112 | 3.0 |
| 10 | CM137 x NAI147 | 2.0 | 24 | CM137 x NAI147 | 3.0 |
| 11 | CM137 x NAI147 | 2.3 | 25 | CM137 x NAI147 | 3.3 |
| 12 | CM137 x NAI147 | 3.8 | 26 | CM137 x NAI147 | 2.5 |
| 13 | CM137 x NAI147 | 3.3 | RC | Nithyashree | 1.5 |
| 14 | CM137 x NAI147 | 3.3 | SC | 219J | 4.5 |

Table 19. Assessment of avoidable yield loss due to MLB at Dhaulakuan

| Treatment | Mean disease severity | Yield (kg/ha) | Yield loss (%) |
|-------------|-----------------------|---------------|----------------|
| Protected | 38.1 | 3889 | 40.0 |
| Unprotected | 67.28 | 2333 | |

Table 20. Assessment of yield loss due to TLB at Almora

| | | | |
|---------------------|------------|---------------------|------------------|
| Season | : Kharif | Row No. | : 4 |
| Treatment | : 2 | Hybrid | : Vivek hybrid 5 |
| Replication | : 9 | Plot size | : 2.2 x 2.4 m |
| Date of Sowing | : 27.06.13 | Date of Observation | : 23.09.13 |
| Date of Inoculation | : 25.07.13 | Date of Harvesting | : 10.10.13 |

| Treatment | Mean disease score | Yield (kg/ha) | Yield loss (%) |
|-------------|--------------------|---------------|----------------|
| Protected | 2.6 | 5592.3 | 17.62 |
| Unprotected | 4.6 | 4606.8 | |

Table 21. Assessment of avoidable yield loss due to BLSB at Delhi

| | | | |
|---------------|---------------|---------------------|--------------|
| Test cultivar | : Vivek QPM9 | Date of sowing | : 05-07-2013 |
| Design | : Paired plot | BLSB inoculation | : 12-08-2013 |
| Plot size | : 3 x 2.25m | Date of Observation | : 20-08-2013 |
| Replication | : 9 | Date of harvesting | : 31.10.2013 |

| Treatment | Mean disease score | Yield (q/ha) | Yield loss (%) |
|---------------|--------------------|--------------|----------------|
| Protected | 2.16 | 71.05 | 13.21 |
| Non-protected | 2.88 | 61.66 | |

Table 22. Assessment of avoidable yield loss due to BLSB at Pantnagar

| Treatment | Disease rating (0-5) | | | Yield (q/ha) | | | Disease control over check (%) | | | Yield increase over check (%) | | | Yield loss (%) | | |
|-------------|----------------------|------|------|--------------|-------|-------|--------------------------------|-------|-------|-------------------------------|-------|-------|----------------|-------|-------|
| | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 | 2011 | 2012 | 2013 |
| Protected | 2.77 | 2.55 | 2.15 | 35.96 | 36.94 | 43.58 | 40.55 | 39.57 | 55.67 | 40.90 | 52.64 | 51.84 | 29.03 | 34.48 | 34.14 |
| Unprotected | 4.66 | 4.22 | 4.85 | 25.52 | 24.20 | 28.70 | | | | | | | | | |
| CD at 5% | 0.41 | 0.29 | 0.18 | 1.34 | 2.43 | 1.51 | | | | | | | | | |

Average data of three years (2011-2013) on assessment of yield losses due to BL & SB

| Treatment | Disease rating (0-5) | Yield (q/ha) | Disease control over check (%) | Yield increase over check (%) | Yield loss (%) |
|-------------|----------------------|--------------|--------------------------------|-------------------------------|----------------|
| Protected | 2.49 | 38.83 | 45.63 | 48.54 | 32.68 |
| Unprotected | 4.58 | 26.14 | | | |
| CD at 5% | 0.29 | 1.76 | | | |

Table 23. Assessment of avoidable yield loss due to charcoal rot at Hyderabad

| | | | |
|---------------------|---------|-----------|---------------|
| Test cultivar | : 30V92 | Design | : Paired plot |
| Net plot size | : 3mx3m | Treatment | : 2 |
| No. of Replications | : 9 | | |

1. Protected:

- Seed treatment with mancozeb (3g/kg seed)
- *Trichoderma viride* (2 kg/100 kg of FIM plant placement)
- Murate of potash 80 kg/ha in addition to normal dose of N&P

2. Unprotected:

- Without above three treatments

| Treatment | Mean disease score | Yield (q/ha) | Yield loss (%) |
|---------------|--------------------|--------------|----------------|
| Protected | 2.77 | 7.70 | 21.04 |
| Non-protected | 3.80 | 6.08 | |

Table 24. Assessment of avoidable yield loss due to charcoal rot at Ludhiana

| | | | |
|---------------------|-----------|---------------------|-----------------|
| Test Variety | : PMH 2 | Date of sowing: | 4.7.13 |
| Plot Size | : 3 x 3 m | Date of Harvesting: | 22.10.13 |
| No. of replications | : 9 | Design- Paired plot | Treatments- Two |

| Treatment | Mean disease score | Yield (q/ha) | Yield loss (%) |
|---------------|--------------------|--------------|----------------|
| Protected | 4.9 | 7.5 | 12.0 |
| Non-protected | 6.3 | 6.6 | |

Protected

1. Seed treatment with Bavistin @3g/kg seed
2. Talc based formulation of *Trichoderma* (10g/kg FYM) row placement at the time of planting

Table 25. Occurrence of diseases (mean score) in trap nursery

| S.No | Inbred Line | MLB (1-5) | | | | | | | |
|------|-------------------------|-----------|------|------|------|------|------|------|------|
| | | DHOL | KARN | MAND | UDAI | PANT | DELI | HYDE | LUDH |
| 1 | CM 501 | 3.0 | 3.0 | 0.0 | 3.0 | 4.0 | 2.0 | 1.8 | 2.5 |
| 2 | CM 500 | 2.0 | 2.0 | 0.0 | 2.0 | - | 1.5 | 2.8 | 3.5 |
| 3 | LM 13 | 3.0 | 2.0 | 0.0 | 1.5 | 2.5 | 1.5 | 1.9 | 2.5 |
| 4 | CM 211 | 4.0 | 3.0 | 0.0 | 1.5 | - | 1.5 | 2.0 | 2.0 |
| 5 | CM 130 | 5.0 | 4.0 | 0.0 | 2.0 | 2.0 | 2.0 | 1.8 | 3.0 |
| 6 | LM 5 | 2.0 | 4.0 | 0.0 | 3.0 | - | 3.0 | 1.9 | 2.5 |
| 7 | CM 209 | 2.0 | 2.0 | 0.0 | 3.5 | 2.0 | 2.0 | 1.8 | 2.5 |
| 8 | CM 119 | 4.0 | 4.0 | 1.5 | 3.0 | 2.0 | 4.0 | 1.9 | 3.0 |
| 9 | CM 121 | 3.0 | 3.0 | 0.0 | 4.0 | 2.5 | 2.0 | 1.7 | 4.0 |
| 10 | CM 135 | 3.0 | 3.0 | 0.0 | 3.5 | 2.0 | 3.5 | 2.0 | 2.0 |
| 11 | CM 140 | 3.0 | N.G | 0.0 | 2.5 | 3.0 | 3.0 | 2.0 | 2.0 |
| 12 | CM 400 | 5.0 | N.G | 0.0 | 3.5 | - | 2.5 | 1.8 | 2.0 |
| 13 | Local susceptible check | - | - | - | 3.5* | - | - | - | - |
| 14 | Local susceptible check | - | - | - | - | - | - | 2.1* | - |

*Score of local susceptible check: Udaipur- Surya: HYDEerabad-30V92

| S.No | Inbred Line | TLB (1-5) | | | | | ESR (1-5) | |
|------|-------------------------|-----------|------|------|------|------|-----------|--|
| | | ALMO | MAND | COIM | HYDE | ARBH | DHOL | |
| 1 | CM 501 | 1.0 | 3.5 | 0.0 | 2.9 | 1.5 | - | |
| 2 | CM 500 | 2.0 | 4.5 | 0.0 | 3.2 | 2.0 | - | |
| 3 | LM 13 | 2.0 | 3.5 | 0.0 | 2.7 | 1.5 | 3.0 | |
| 4 | CM 211 | 2.0 | 3.5 | 3.0 | 1.9 | 2.5 | - | |
| 5 | CM 130 | 2.0 | 3.5 | 0.0 | 2.0 | 3.0 | 3.0 | |
| 6 | LM 5 | 2.0 | 4.0 | 0.0 | 2.0 | 2.5 | 2.0 | |
| 7 | CM 209 | 2.0 | 4.5 | 3.0 | 1.9 | 3.0 | - | |
| 8 | CM 119 | 1.5 | 3.0 | 3.0 | 2.7 | 1.8 | - | |
| 9 | CM 121 | 1.5 | 4.0 | 0.0 | 3.0 | 2.8 | - | |
| 10 | CM 135 | 1.5 | 4.0 | 0.0 | 3.1 | 1.5 | - | |
| 11 | CM 140 | 2.0 | 3.5 | 0.0 | 2.0 | 3.0 | - | |
| 12 | CM 400 | 2.0 | 3.5 | 3.0 | 1.9 | 2.5 | 2.0 | |
| 13 | Local susceptible check | - | - | - | 2.7* | - | - | |

*Score of local susceptible check: Hyderabad-30V92

contd.

| S.No | Inbred Line | BLSB (1-5) | | | | | | C.ROT (1-9) | |
|------|-------------------------|------------|------|------|------|------|--------|-------------|--|
| | | DHOL | KARN | MAND | UDAI | PANT | LUDH | HYDE | |
| 1 | CM 501 | 2.0 | 4.0 | 0.0 | 0.5 | 3.0 | - | 4.0 | |
| 2 | CM 500 | - | 4.0 | 0.0 | 0.5 | - | - | 5.1 | |
| 3 | LM 13 | - | 3.0 | 0.0 | 1.5 | 4.0 | - | 3.8 | |
| 4 | CM 211 | 3.0 | 4.0 | 0.0 | 0.5 | - | - | 3.4 | |
| 5 | CM 130 | - | 3.0 | 0.0 | 0.5 | 4.5 | Traces | 3.4 | |
| 6 | LM 5 | - | 3.0 | 1.5 | 2.0 | - | - | 3.0 | |
| 7 | CM 209 | - | 4.0 | 0.0 | 1.5 | 3.5 | - | 2.8 | |
| 8 | CM 119 | 1.0 | 2.0 | 0.0 | 1.0 | 4.0 | Traces | 3.0 | |
| 9 | CM 121 | - | 5.0 | 0.0 | 1.0 | 4.5 | - | 3.8 | |
| 10 | CM 135 | - | 3.0 | 0.0 | 1.5 | 4.0 | - | 4.7 | |
| 11 | CM 140 | 2.0 | N.G | 0.0 | 1.5 | 3.0 | 3.0 | 5.0 | |
| 12 | CM 400 | 3.0 | N.G | 0.0 | 2.0 | - | - | 5.3 | |
| 13 | Local susceptible check | - | - | - | 2.5* | - | - | - | |
| 14 | Local susceptible check | - | - | - | - | - | - | 6.4* | |

*Score of local susceptible check: Udaipur- Surya: Hyderaba-30V92

| S.No | Inbred Line | PFSR | PFSR | C.ROT | FSR | SDM | SDM | CLS | CLS | RDM |
|------|-------------------------|------|------|-------|-------|------|-------|-------|-------|-------|
| | | (%) | (%) | (1-9) | (1-9) | (%) | (%) | (1-5) | (1-5) | (%) |
| | | COIM | DELI | LUDH | UDAI | MAND | COIM | MAND | UDAI | UDAI |
| 1 | CM 501 | 0.0 | 26.7 | - | 3.5 | 7.7 | 0.0 | 1.5 | 1.5 | 0.0 |
| 2 | CM 500 | 0.0 | 50.0 | 5.0 | 2.5 | 28.6 | 100.0 | 1.0 | 1.0 | 40.0 |
| 3 | LM 13 | 0.0 | 42.9 | 6.0 | 2.0 | 10.0 | 40.0 | 1.0 | 0.5 | 30.0 |
| 4 | CM 211 | 0.0 | 0.0 | 7.0 | 3.0 | 27.8 | 50.0 | 1.5 | 3.5 | 0.0 |
| 5 | CM 130 | 0.0 | 16.7 | 6.5 | 1.5 | 35.7 | 0.0 | 2.0 | 1.5 | 10.0 |
| 6 | LM 5 | 0.0 | 23.5 | - | 4.5 | 27.3 | 50.0 | 1.0 | 2.5 | 10.0 |
| 7 | CM 209 | 0.0 | 0.0 | 6.0 | 5.5 | 8.3 | 0.0 | 1.5 | 3.0 | 10.0 |
| 8 | CM 119 | 0.0 | 0.0 | 6.0 | 6.0 | 55.0 | 70.0 | 1.0 | 3.0 | 10.0 |
| 9 | CM 121 | 0.0 | 42.9 | 6.5 | 3.5 | 71.4 | 30.8 | 1.0 | 3.5 | 20.0 |
| 10 | CM 135 | 26.7 | 35.7 | 6.7 | 4.5 | 23.0 | 0.0 | 1.0 | 3.5 | 20.0 |
| 11 | CM 140 | 33.3 | 42.9 | 6.3 | 4.5 | 40.0 | 0.0 | 1.5 | 3.5 | 20.0 |
| 12 | CM 400 | 0.0 | 22.2 | 4.0 | 2.5 | 7.1 | 0.0 | 1.5 | 2.5 | 20.0 |
| 13 | Local susceptible check | - | - | - | 4.5* | - | - | - | 4.0* | 60.0* |

*Score of local susceptible check: Udaipur- Surya

contd.

| S.No | Inbred Line | Brown Spot | C.RUST | Other Diseases |
|------|-------------------------|---------------|---------------|-------------------------------------|
| | | (1-5) UDAI | (1-5) ARBH | MAND |
| 1 | CM 501 | 2.0 | 1.0 | Polysora rust, curvularia leaf spot |
| 2 | CM 500 | 1.0 | 1.5 | post flowering stalk rost |
| 3 | LM 13 | 1.5 | 1.0 | Maydis leaf blight |
| 4 | CM 211 | 2.0 | 1.0 | - |
| 5 | CM 130 | 1.5 | 1.5 | Curvularia leaf spot |
| 6 | LM 5 | 1.0 | 2.0 | - |
| 7 | CM 209 | 1.0 | 1.0 | Polysora rust |
| 8 | CM 119 | 1.5 | 1.0 | - |
| 9 | CM 121 | 1.0 | 1.0 | Curvularia leaf spot |
| 10 | CM 135 | 1.5 | 1.5 | Phaeospora leaf spot |
| 11 | CM 140 | 1.5 | 2.0 | - |
| 12 | CM 400 | 1.0 | 2.5 | - |
| 13 | Local susceptible check | 2.0* | - | - |

*Score of local susceptible check: Udaipur- Surya

Table 26. Survey and surveillance of maize diseases in Himachal Pradesh

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Mandi, Kullu and Bilaspur district of Himachal Pradesh during the year. The most common diseases of these areas were Turcicum Leaf Blight (TLB) Banded leaf and sheath blight (BLSB) and Maydis leaf blight. Brown spot and curvularia leaf spot diseases of maize were of minor importance.

| District/Disease | TLB | BLSB | MLB | BS | CLS |
|------------------|------------------|------------------|------------------|-----|-----|
| Mandi | Moderate | High | Moderate | Low | Low |
| Kullu | Moderate to High | Moderate to High | Low to Moderate | Low | Low |
| Bilaspur | Moderate | Moderate to High | Moderate to High | Low | Low |

Table 27. Survey & Surveillance of maize diseases in Karnataka

| S.No. | State district taluk | Area (ha) | Date of survey | Variety/Hybrid | Crop stage | | Disease intensity mil/Moderate/sever | | Remarks irrigated/ Rainfed |
|-------------------|----------------------|-----------|----------------|----------------|------------|------------------|--------------------------------------|------------|----------------------------|
| | | | | | Veg. stage | Grain fill stage | Foliar disease | Stalk rots | |
| KARNNATAKA | | | | | | | | | |
| 1 | Belgaum | 12 | 6.09.2013 | Hybrid | ✓ | ✓ | Severe | Mild | Irrigated |
| 2 | Bagalkot | 4 | 25.09.2013 | Hybrid | ✓ | ✓ | Severe | - | Irrigated |
| 3 | Dharwad | 6 | 27.09.2013 | Hybrid | ✓ | ✓ | Severe | - | Rainfed |
| 4 | Gadag | 4 | 28.10.2013 | Hybrid | ✓ | ✓ | Severe | - | Rainfed |
| 5 | Haveri | 8 | 20.08.2013 | Hybrid | ✓ | ✓ | Severe | - | Rainfed/ Irrigated |

Table 28. Survey and surveillance of maize diseases in Uttarakhand

Season: Kharif: 2013
 State : Uttarakhand
 Zone : 2
 Centre : Pantnagar

| Sl. No | Place | Date | No. of field surveyed | Crop stage | Foliar diseases (Disease Score) | | | | Remarks |
|--------|-----------|------------|-----------------------|---------------------|---------------------------------|-----|-------|-----|--|
| | | | | Grain filling stage | MLB | TLB | BL&SB | CLS | |
| 1. | Haldwani | 22.09.2013 | 30 | yes | 4.0 | 5.0 | 3.0 | 3.0 | During the survey BSDM was not observed in any area except in traces at few places |
| 2. | Kashipur | 05.10.2013 | 25 | yes | 3.0 | 3.0 | 3.5 | 2.0 | |
| 3. | Sitarganj | 06.10.2013 | 20 | yes | 2.0 | 3.0 | 3.0 | 1.0 | |
| 4. | Haridwar | 20.10.2013 | 25 | yes | 3.0 | 2.0 | - | 1.0 | |
| 5. | Dehradun | 22.10.2013 | 30 | yes | 3.0 | 2.0 | - | 2.0 | |

MLB = Maydis leaf blight
 TLB = Turcicum leaf blight
 BL&SB = Banded leaf & sheath blight
 CLS = Curvularia leaf spot

Table 29. Survey and surveillance of maize diseases in Rajasthan

Season: *Kharif* 2013

State: Rajasthan

Zone: IV a

Centre: Udaipur

| S.No | Place | Date | No. of field surveyed | Crop variety | Disease Intensity/Severity | | | | | | | | | | | |
|------|---------------|---------|-----------------------|----------------------------|----------------------------|-----|-----|------|------|-----|-----|-------|-------------|-----|----|----------------|
| | | | | | Foliar diseases | | | | | | | | PFSR/ SMUT | | | |
| | | | | | DM (%) | MLB | TLB | BSDM | BLSB | CLS | BS | OTHER | PFSR | CSR | LW | Head smut |
| 1. | Kaladwas | 17.8.13 | 4 | Sweet Corn | 10.0 | 2.5 | - | - | - | 2.0 | 1.0 | - | - | - | - | - |
| 2. | Kharwa chanda | 17.8.13 | 4 | Maize local | 15.0 | 2.0 | - | - | - | 1.5 | 2.0 | - | - | - | - | - |
| 3. | Nai | 11.9.13 | 2 | Maize local | 15.0 | 3.0 | - | - | - | 1.0 | 1.5 | - | - | - | - | - |
| 4. | Bujhda | 11.9.13 | 3 | Maize Local | 25.0 | 2.0 | - | - | - | 2.5 | 1.5 | - | Sev. | - | - | - |
| 5. | Fateh nagar | 4.9.13 | 3 | Maize Local (Yellow/white) | 10.0 | 3.0 | - | - | 1.0 | 3.0 | 1.5 | - | Mod. | - | - | Flag smut Mod. |
| 6. | Mavli | 4.9.13 | 4 | Maize Local (Yellow/white) | - | 2.5 | - | - | - | 2.0 | 2.0 | - | Mod. | - | - | - |
| 7. | Dabok | 4.9.13 | 6 | Maize Local | - | 2.0 | 1.0 | - | - | 2.5 | 2.0 | - | Tr. To Mod. | - | - | - |
| 8. | Mangal war | 4.9.13 | 5 | Maize Local | - | 1.5 | - | - | 2.0 | 1.5 | 2.0 | - | - | - | - | Flag smut Mod. |
| 9. | Bheel khera | 14.9.13 | 4 | Maize Local (Yellow/white) | 30.0 | 1.0 | 1.5 | 20.0 | 2.5 | 1.5 | 1.5 | - | - | - | - | - |
| 10. | Kavita | 7.9.13 | 3 | Maize Local | 25.0 | 2.0 | - | - | 1.0 | 1.0 | 1.0 | - | Sev. | - | - | - |
| 11. | Iswal | 7.9.13 | 4 | Maize Local | 20.0 | 2.0 | 1.0 | 25.0 | 1.5 | 1.5 | 0.5 | - | Sev. | -- | - | - |

RDM – Rajasthan Downy Mildew, PFSR – Post Flowering Stalk Rot, MLB – Maydis Leaf Blight, CLS – Curvularia Leaf Spot, BS – Brown Spot BLSB – Banded Leaf & Sheath Blight, HS = Head Smut, Tr. – Traces, Mod. – Moderate, Sev. – Severe.

Table 30. Distribution and population status of maize cyst nematode, *Heterodera zeae* in maize growing areas of Rajasthan

Survey results showed that maximum nematode population (13.00 cyst/plant, 15.42 cyst/100 cc soil and 483.33 larvae/100 cc soil) was observed in samples collected from Rajsamand district with occurrence of 75.00 % while minimum nematode population (4.60 cyst/plant, 6.40 cyst/100 cc soil and 160.00 larvae/ 100 cc soil) was obtained from Banswara district of Rajasthan with 55.56 % occurrence . On the whole, occurrence of maize cyst nematode, *H. zeae* was observed 68.00 per cent in maize growing areas.

| Name of district | Places surveyed | No. of samples collected | No. of samples containing <i>H. zeae</i> | Occurrence (%) | Average Nematode Population | | |
|--------------------|--|--------------------------|--|----------------|-----------------------------|-------------------|----------------------|
| | | | | | Cyst / plant | Cyst/ 100 cc soil | Larvae / 100 cc soil |
| Banswara | Banswara, Borwat, ThiKARNia and Talwara | 9 | 5 | 55.56 | 4.60 | 6.40 | 160.00 |
| Udaipur | Udaipur, Balicha, Kaya, Dakan Kotra, Nahar Magra, Khemli, Sangwa and Ghasa | 25 | 17 | 68.00 | 10.88 | 13.00 | 425.00 |
| Rajsamand | Oden , Gunjol, Mohi, Kunwaria, Kelwa, Padasali, and Gomti | 16 | 12 | 75.00 | 13.00 | 15.42 | 483.33 |
| Grand Total | | 50 | 34 | 68.00 | | | |

Table 31. Effect of seed treatment with chemicals against maize cyst nematode (*Heterodera zeae*) on maize To check the initial infection of nematodes, seed treatment trial was carried out to test the efficacy chemicals *i.e.* acephate 75 SP , methomyl 40 SP, thiodicARBH 50 WP and thiamethoxam 25 WG against maize cyst nematode, *H. zeae* on maize. Results revealed that seed treatment with acephate at 2% w/w found most effective and significantly reduced the infection of maize cyst nematode, *Heterodera zeae* (33.32 - 36.54 %) followed by methomyl 40 SP at 1 % w/w (28.57 - 30.78 %) over untreated check. Maximum grain yield (32.97q/ha) was obtained with acephate at 2 % w/w with an increase of 39.53 % over check (23.63 q/ha) followed by methomyl 40 SP at 1 % w/w and thiamethoxam 25 WG at 1 % w/w.

| Treatments | Nematode Population | | | | | | Grain Yield | |
|------------------------|---------------------|-------------------------------|-------------------|-------------------------------|---------------------|-------------------------------|-------------|------------------------------|
| | Cyst / 5 g root | Per cent reduction over check | Cyst/ 100 cc soil | Per cent reduction over check | Larvae/ 100 cc soil | Per cent reduction over check | q/ha | Per cent increase over check |
| Methomyl 0.5 % w/w | 23.67 | 15.46 | 28.00 | 19.23 | 926.67 | 17.75 | 28.75 | 21.67 |
| Methomyl 1 % w/w | 20.00 | 28.57 | 24.00 | 30.78 | 796.67 | 29.29 | 32.06 | 35.67 |
| ThiodicARBH 0.5 % w/w | 26.33 | 5.96 | 31.33 | 9.63 | 1030.00 | 8.58 | 24.85 | 5.16 |
| ThiodicARBH 1 % w/w | 24.00 | 14.29 | 28.67 | 17.31 | 940.00 | 16.57 | 27.06 | 14.52 |
| Thiamethoxam 0.5 % w/w | 24.67 | 11.89 | 29.33 | 15.40 | 970.00 | 13.91 | 26.07 | 10.33 |
| Thiamethoxam 1 % w/w | 20.67 | 26.18 | 25.00 | 27.89 | 826.67 | 26.63 | 30.39 | 28.61 |
| Acephate 2 % w/w | 18.67 | 33.32 | 22.00 | 36.54 | 733.33 | 34.91 | 32.97 | 39.53 |
| Untreated check | 28.00 | -- | 34.67 | -- | 1126.67 | -- | 23.63 | -- |
| SEm ± | 0.96 | -- | 1.50 | -- | 47.27 | -- | 1.12 | -- |
| CD at 5% | 2.93 | -- | 4.56 | -- | 143.37 | -- | 3.39 | -- |

Date of sowing : 06.07.2013
Soil type : Clay loam
Plot size : 7.50 sq. m

Design : R.B.D. Crop variety : Navjot
Replication : 3 Date of harvesting : 28.10.2013
Initial Nematode Population : 820 larvae/100 cc soil

Table 32. Integrated management of maize cyst nematode (*Heterodera zae*) on maize through bio-agent and botanicals (Kharif, 2013)

An experimental trial was carried out during Kharif, 2013 to find out integrated nematode management module against maize cyst nematode, *H. zae* on maize. Results showed that integration of bio-agent and botanicals as seed and soil treatment significantly reduced nematode population and enhanced grain yield over untreated check. Maximum reduction in nematode population (37.50 - 43.42 %) was obtained with integration of *Pochonia chlamydosporia* 10 g/kg seed + castor cake 2 q/ha followed by *Paecilomyces lilacinus* 10 g/kg seed + castor cake 2 q/ha (30.54 - 35.23 %) and *P. chlamydosporia* 10 g/kg seed + neem cake 2 q/ha (26.38 - 32.74 %). Maximum grain yield (37.18 q/ha) was obtained in *Pochonia chlamydosporia* 10 g/kg seed + castor cake 2 q/ha with an increase of 42.73 % over check (26.05 q/ha).

| Treatments | Nematode population | | | | | | Grain yield | |
|--|---------------------|-------------------------------------|----------------------|-------------------------------------|------------------------|-------------------------------------|-------------|------------------------------------|
| | Cyst/ 5 g root | Per cent reduction over check | Cyst/ 100 cc soil | Per cent reduction over check | Larvae/ 100 cc soil | Per cent reduction over check | q/ha | Per cent increase over check |
| <i>Pochonia chlamydosporia</i> 10 g/kg seed + Neem cake 2 q/ha | 17.67 | 26.38 | 20.33 | 29.90 | 630.00 | 32.74 | 33.93 | 30.25 |
| <i>Pochonia chlamydosporia</i> 10 g/kg seed + Castor cake 2 q/ha | 15.00 | 37.50 | 17.33 | 40.24 | 530.00 | 43.42 | 37.18 | 42.73 |
| <i>Pochonia chlamydosporia</i> 10 g/kg seed + Jatropha cake 2 q/ha | 18.67 | 22.21 | 22.00 | 24.14 | 683.33 | 27.05 | 32.17 | 23.49 |
| <i>Paecilomyces lilacinus</i> 10 g/kg seed + Neem cake 2 q/ha | 19.33 | 19.46 | 22.67 | 21.83 | 713.33 | 23.84 | 31.19 | 19.73 |
| <i>Paecilomyces lilacinus</i> 10 g/kg seed + Castor cake 2 q/ha | 16.67 | 30.54 | 19.33 | 33.34 | 606.67 | 35.23 | 35.79 | 37.39 |
| <i>Paecilomyces lilacinus</i> 10 g/kg seed + Jatropha cake 2 q/ha | 20.33 | 15.29 | 23.67 | 18.38 | 750.00 | 19.93 | 29.89 | 14.74 |
| Acephate 1% w/w + Phorate 1kg/ha | 13.00 | 45.83 | 14.67 | 49.41 | 453.33 | 51.60 | 40.78 | 56.55 |
| Untreated check | 24.00 | -- | 29.00 | -- | 936.67 | -- | 26.05 | -- |
| SEm ± | 1.47 | -- | 1.42 | -- | 45.26 | -- | 1.11 | -- |
| CD at 5% | 4.46 | -- | 4.32 | -- | 137.27 | -- | 3.38 | -- |

Date of sowing : 06.07.2013
Initial Nematode Population: 850 larvae/100 cc soil
Soil type : Clay loam

Design : R.B.D.
Plot size : 7.50 sq. m.
Date of harvesting : 29.10.2013

Replications : 3
Crop variety : Navjot

Molecular diversity among the isolates of *Peronosclerospora sorghi* causing sorghum downy mildew in maize

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An intensive roving survey was taken to assess the status of sorghum downy mildew in maize (SDM) across the maize growing regions of KARNnataka. The maize growing regions include Mandya, Mysore, Hunsur and Kolar from southern parts of KARNnataka. Maize growing regions like Dharwad, Hubli and Motebennur from northern parts of KARNnataka.

During the survey, the SDM fungus, *P. sorghi* infected plants were selected based on the age of the crop (for conidia collection, freshly infected plants). The age of the crop was kept main criteria to collect the conidia in order to avoid the late infection by the mixtures of the pathogen.

Conidia collection and preservation:

The freshly produced conidia on younger leaves were selected and such leaves were given slight cut with the help of scissors and then, those leaves were washed in 1000 ml beaker in presence of chilled water (carried through ice can). The suspension then filtered through sterilized muscline cloth and transferred into sterilized screwed tubes for preservation.

Experimental details:

The isolates were collected from major maize regions of KARNnataka. The DNA from those isolates was extracted using CTAB method. The extracted DNA was quantified and used for PCR-RAPD (Randomly Amplified Polymorphic DNA) amplification. The 20 RAPD markers have been screened. Among those only OPD-07 primer showed excellent amplification. The dendrogram results revealed that, presence of moderate diversity among the isolates.

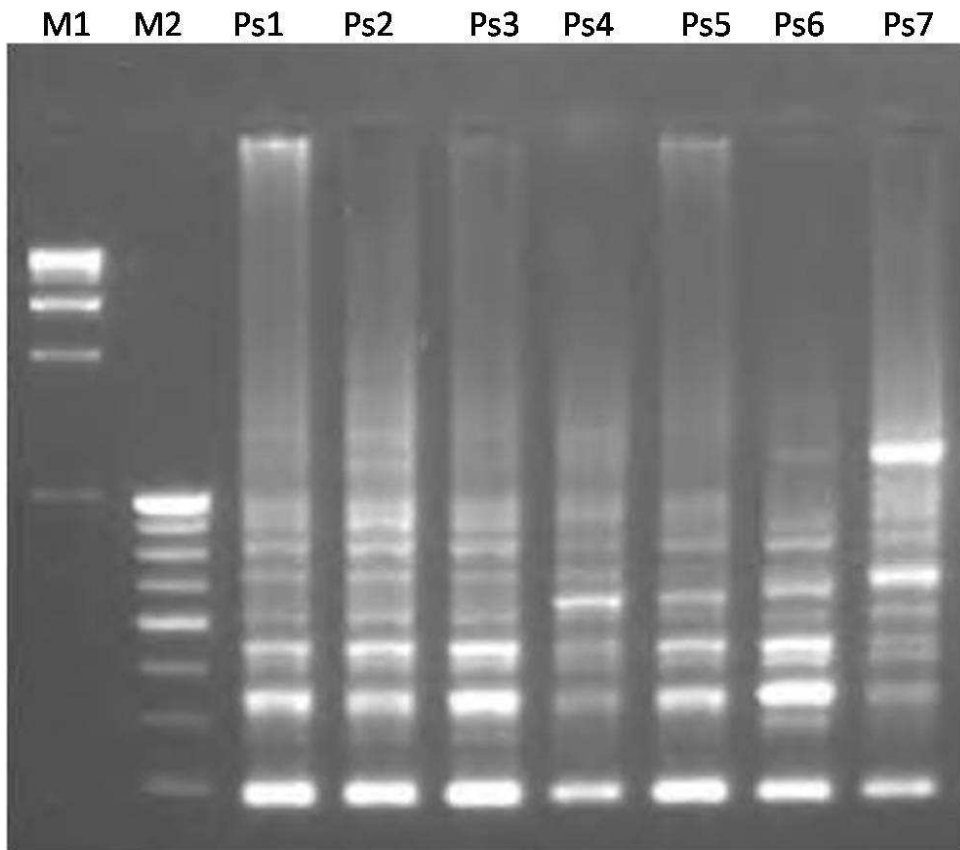


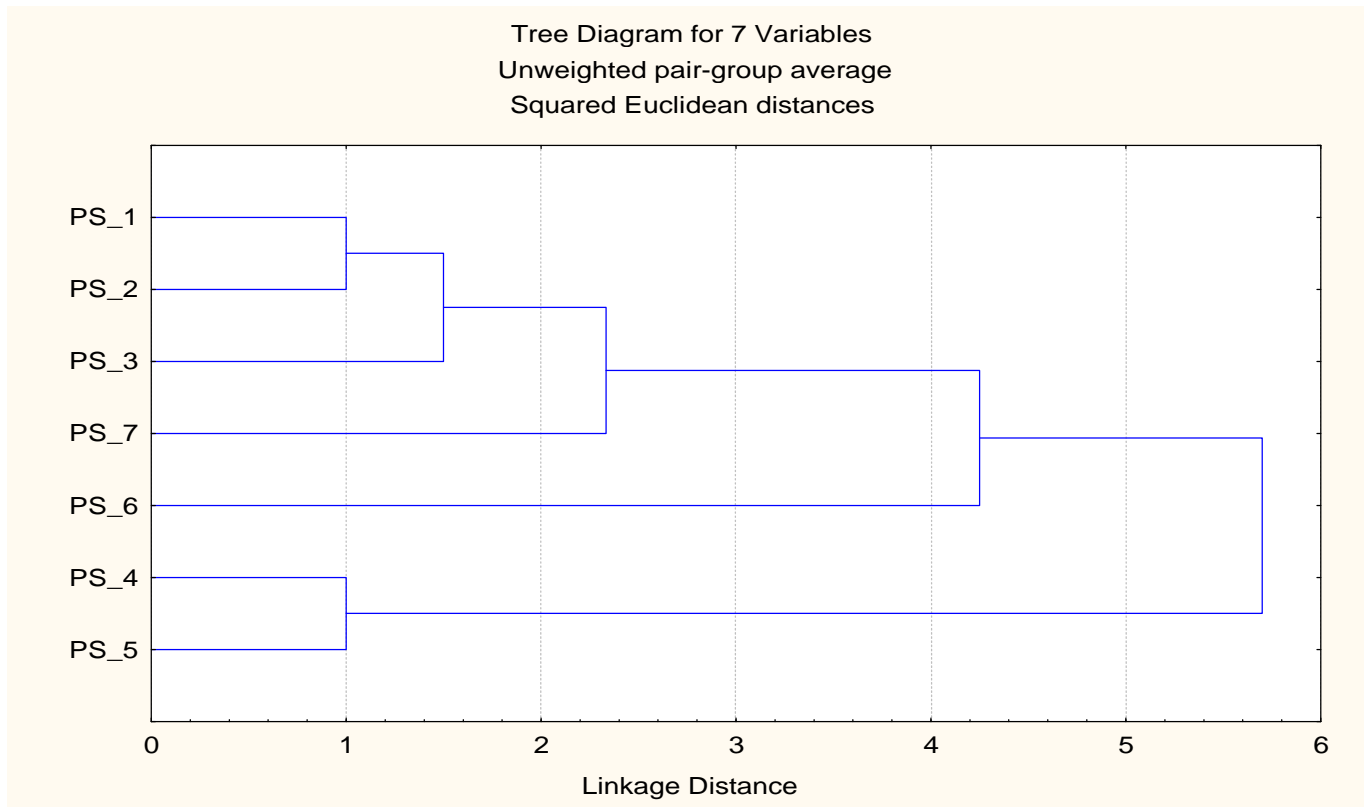
Fig: RAPD profile of seven isolates

Results:

Table 33. Isolates collected from various places in Karnataka

| Sl. No. | Place | Coded | Stage of the crop | % SDM Incidence | Remarks |
|---------|--------|-------|-------------------|-----------------|-----------|
| 1 | Mandya | Ps1 | 35 D-A-S | 80% | Preserved |

| | | | | | |
|---|------------|-----|----------|--------|-----------|
| 2 | Dudda | Ps2 | 35 D-A-S | 60% | Preserved |
| 3 | Hassan | Ps3 | 35 D-A-S | 80% | Preserved |
| 4 | Dharwad | Ps4 | 35 D-A-S | 40% | Preserved |
| 5 | Hubli | Ps5 | 35 D-A-S | 40-45% | Preserved |
| 6 | Hunsur | Ps6 | 35 D-A-S | 80% | Preserved |
| 7 | Motebennur | Ps7 | 35 D-A-S | 30% | Preserved |



Inference:

The genetic diversity among the isolates of P sorghi was assessed through RAPD-PCR technique. The scoring data on presence (1) or absence (0) was subjected to create dendrogram by using NTSYS software. The results revealed that, the seven isolates are grouped into two main clusters (I and II) at 58 per cent of genetic dissimilarity. The Cluster I includes, isolates of (PS 4 & 5) suggesting very less genetic diversity (10 %) exists.

The RAPD-PCR profiles showed that the isolates were collected from diverse geographical regions are location specific and showing the moderate level of diversity at their genetic level.

Scientists involved:

T. A. Sreeramasetty, S. V. Manjunatha, M. K. Prasnnakumar, H.C Lohitaswa,
K. T. Pandurange Gowda, K. N. Anand, Puttaramanaik and N. MallikARNJuna

Table 34. Interaction of maize cyst nematode, *Heterodera zae* with PFSR pathogen, *Fusarium verticillioides* and stem borer, *Chilo partellus* on maize (Kharif, 2013)

Experimental results revealed that nematode population significantly decreased when maize cyst nematode, *Heterodera zae* interacts with PFSR pathogen, *Fusarium verticillioides* and stem borer, *Chilo partellus*. Reduction in nematode population was recorded 7.71-12.07 % with PFSR, 27.62- 31.33 % with stem borer and 34.08-37.37 % when nematode interacts with both. Disease incidence (%) of PFSR was observed 2.57 in N+P and 2.80 in N+P+S. Leaf injury rating of *Chilo partellus* was recorded 5.29 in N+S and 6.38 in N+P+S. Maize yield significantly declined when nematode interacts with PFSR (10.24 %), stem borer (14.59 %) and PFSR + stem borer (35.08 %).

| Treatment | Cyst /5 g root | Cyst/100 cc soil | Larvae/ 100 cc soil | PDI of PFSR | LIR of <i>C. partellus</i> | Yield q/ha |
|--------------------------------------|------------------|------------------|---------------------|-------------|----------------------------|------------------|
| Nematode + PFSR (N+P) | 24.33 (12.07) | 27.50 (8.33) | 1096.67 (7.71) | 2.57 | --- | 26.20 (10.24) |
| Nematode + Stem Borer (N+S) | 19.00 (31.33) | 21.33 (28.90) | 860.00 (27.62) | --- | 5.29 | 24.93 (14.59) |
| Nematode + PFSR + Stem Borer (N+P+S) | 17.33 (37.37) | 19.33 (35.57) | 783.33 (34.08) | 2.80 | 6.38 | 18.95 (35.08) |
| Nematode alone (Check) | 27.67 | 30.00 | 1188.33 | --- | --- | 29.19 |
| SEm ± | 1.25 | 1.42 | 53.90 | --- | --- | 1.24 |
| CD at 5% | 3.76 | 4.29 | 162.48 | --- | --- | 3.74 |

Date of sowing : 23.07.2013 Design : R.B.D. Crop variety : Navjot Soil type : Clay loam
 Replication : 6 Plot size : 4.50 sq. m Initial Nematode Population : 800 larvae/100 cc soil figures in parentheses are the percent decrease over check

Table 35. Studies on interaction of maize cyst nematode with termite on maize in infested field

Interaction of maize cyst nematode with termite on maize revealed that cyst and final nematode larvae population in soil reduced 24.73 % and 19.13 % , respectively with nematode + termite interaction over nematode alone (check). Maize yield was recorded 34.58 and 46.17 g/plant in N+T and check, respectively. Reduction in yield was observed 25.10 % in N+T over check.

| Treatments | Nematode Population | | | | | Yield | |
|--------------------------------|-----------------------------|--------------------|------------------------------|------------------------------------|------------------------------|-----------------|------------------------------|
| | Initial Nematode population | Cyst / 100 cc soil | Per cent decrease over check | Final nematode larvae /100 cc soil | Per cent Decrease over check | Yield/plant (g) | Per cent decrease over check |
| Nematode +Termite (N+T) | 805.83 | 22.58 | 24.73 | 947.50 | 19.13 | 34.58 | 25.10 |
| Nematode alone (Check) | 805.83 | 30.00 | -- | 1171.67 | -- | 46.17 | -- |

Data are the average value of 12 plants.

**Guidelines for Uniform Method of Disease Assessment in Maize
Under Artificially/ Sick Plot Created Epiphytotics**

The screening techniques and rating of the disease intensities for uniform assessment of maize diseases are given below:

1. Turcicum leaf blight (TLB) and maydis leaf blight (MLB)

Sorghum grains soaked in water in a conical flask, autoclaved twice, seeded with fungus under aseptic condition are kept for incubation at 25-27°C. The flasks are shaken once in 2-3 days to facilitate uniform growth on grains. After 10 days the material is ready for inoculation. Prepare a fine powder of impregnated sorghum grains after shade drying. Put a pinch of this powder in the leaf whorl of 30-35 days old plant. Maintain adequate moisture for longer period to permit spore germination with the help of sprayer. Disease can also be created by spraying the spore suspension prepared from the pure culture of fungi or placing a pinch of leaf meal (prepared by grinding dried diseased leaves collected from the previous season) into whorl of each plant at 30-35 centimeter plant height with spray of 10-12 ml of water in whorl in case of dry weather. Second inoculation can be followed if the symptoms do not appear even after a week of first inoculation. Data can be recorded on 30-35 days after inoculation following rating scale of Payak and Sharma[#] (1983) mentioned below:

| Rating scale | Disease severity (%) | PDI* | Disease reaction |
|---------------------|--|-------------|--|
| 1.0 | Very slight to slight infection, one or two to few scattered lesions on lower leaves | 20.0 | Resistant (Score: ≤ 2.0) (PDI: ≤ 40.0) |
| 2.0 | Light infection, moderate number of lesions on lower leaves only | 40.0 | |
| 3.0 | Moderate infection, abundant lesions on lower leaves, few on middle leaves | 60.0 | Moderately resistant (Score: 2.1 – 3.0) (PDI: 40.1 – 60.0) |
| 4.0 | Heavy infections abundant on lower and middle leaves, extending to upper leaves | 80.0 | Moderately susceptible (Score: 3.1 – 4.0) (PDI: 60.1 – 80.0) |
| 5.0 | Very heavy infection, lesions abundant on almost all leaves plants prematurely dry or killed by the disease. | 100.0 | Susceptible (Score: ≥ 4.1) (PDI: ≥ 80.0) |

*Percent disease index (PDI)

2. Banded leaf and sheath blight (BLSB)

Soak barley grains in water for 24 hours and dispense 40g in 250 ml Erlenmeyer flask after removing excess water; autoclave at a pressure of 1.05 kg/sq. cm for 30 minutes. Homogenize 2-3 days old growth of pathogen taken from potato dextrose agar in sterile water and seed 5 ml in each flask. Incubate at 27°C for 10 days. Inoculations should be made during the rainy season on

30-45 days old plants with grain culture (2-4 grains) inserted between stalk and sheath at second or third level from soil. Grains placed at junction of sheath and leaf can also create optimum disease level and do not fall away with strong wind or heavy rain. Disease is recorded 45 days after inoculation on basis of following rating scale of Payak and Sharma[#] (1983).

| Rating scale | Disease severity (%) | PDI* | Disease reaction |
|--------------|--|-------|---|
| 1.0 | Disease on one leaf sheath only; few small, non-coalescent lesions present | 20.0 | Resistant (Score: ≤ 2.0) (PDI ≤ 40.0) |
| 1.5 | Disease on two sheaths: lesions large and coalescent | 30.0 | |
| 2.0 | Disease up to four sheaths; lesions many and always coalescent | 40.0 | |
| 2.5 | As in disease rating symptoms of 2.0 + rind discolored with small lesions | 50.0 | Moderately resistant (Score: 2.1 - 3.0) (PDI 40.1 - 60.0) |
| 3.0 | Disease on all sheaths except two internodes below the ear | 60.0 | |
| 3.5 | Disease up to one internode below ear shoot; rind discoloration on many internodes with large depressed lesions | 70.0 | Moderately susceptible (Score: 3.1 - 4.0) (PDI 60.1 - 80.0) |
| 4.0 | Disease up to the internode bearing the ear shoot but shank not affected | 80.0 | |
| 4.5 | Disease on the ear; husk leaves show bleaching, bands and caking among themselves as also silk fibres; abundant fungal growth between and on kernels; kernel formation normal except being lusterless; ear size less than normal; some plants prematurely dead | 90.0 | Susceptible (Score: ≥ 4.0) (≥ 80.0) |
| 5.0 | In addition to disease rating symptoms of 4.5, shrinkage of stalk; reduced ear dimensions, wet rot and disorganization of ear; kernel formation absent or rudimentary; prematurely dead plants common; abundant sclerotial production on husk leaves, kernels, ear tips and stalk fibres | 100.0 | |

*Percent disease index (PDI)

3. Brown stripe downy mildew (BSDM)

Artificial epiphytotic conditions can be created by placing the powdered infected maize leaves containing spores collected during the last season containing

oospores in furrows just before planting. This inoculum could also be prepared by collecting infected leaves supposed to be full of oospores from early plantings of maize of the same season, drying leaves and making powder out of the debris. Inoculum should be placed in furrows in such a manner that seeds were in proximity of inoculum.

Artificial epiphytotic condition could also be created by putting 2-3 cm pieces of freshly infected leaves containing sporangia of the fungus in the whorls of seedlings. This should be done during cloudy weather in the evening between 5 and 7 P.M. at 17, 24 and 30 days after planting. In experimental plots, where disease occurs year after year, only this method is adequate for creating epidemics. In areas of low disease incidence, both the methods of inoculation can be combined to obtain better results. Disease rating of individual maize varieties can be done by evaluation all plants of the row (s) using 1-5 rating scale of Payak and Sharma[#] (1983) as described below:

| Rating scale | Disease severity (%) | PDI* | Disease reaction |
|--------------|---|-------|---|
| 1.0 | Very slight infection, one or two to few scattered lesions on lower leaves | 20.0 | Resistant (Score: ≤ 2.0) (PDI: ≤ 40.0) |
| 2.0 | Light infection, a few scattered to moderate number of stripes on lower leaves | 40.0 | |
| 3.0 | Moderate infection, abundant stripes on lower leaves and few on middle leaves | 60.0 | Moderately resistant (Score: 2.1 - 3.0) (PDI: 40.1 - 60 .0) |
| 4.0 | Heavy infection, stripes abundant on lower and middle leaves extending to upper leaves | 80.0 | Moderately susceptible (Score: 3.1 - 4.0) (PDI: 60.1 - 80 .0) |
| 5.0 | Very heavy infection, stripes abundant on all leaves. No cob formation. Plants may be killed prematurely. | 100.0 | Susceptible (Score: ≥ 4.0) (PDI: ≥ 80 .0) |

*Percent disease index (PDI)

4. Curvularia leaf spot (CLS)

Mass multiplication of culture is done on half cooked sorghum grains and after evaporating excess moisture from surface, the grains are filled in 500 ml conical flasks and plugged properly. These are autoclaved for two hours at 15 lbs pressure and inoculated when cooled down at room temperature with pure culture of *Curvularia lunata*. After completion of mycelial growth which may take 15-20 days at temperature around 25-27 degree C, these grains are washed in RO water to get conidial suspension of 5×10^4 conidia per ml. A bucket full of suspension is enough for spray inoculation of two 480 meter strip. The washed grains are spread in a tray to get again mass of conidia. After two days gap, one more spray inoculation is done as per previous method, but this time conidial suspension should be half of the previous one.

At least three observations are made and third observation at 80-85 DAS would be final based on leaf area covered by spots caused by pathogen. Observations are recorded using 1-5 rating scale as described below:

| Rating scale | Disease severity (%) | Disease reaction |
|--------------|--------------------------------|--|
| 1.0 | 1-20 % area of leaf infected | Resistant (Score: \leq 2.0) (Severity: \leq 40.0) |
| 2.0 | 21-40 % area of leaf infected | |
| 3.0 | 41-60 % area of leaf infected | Moderately resistant (Score: 2.1 - 3.0) (Severity: 40.1 - 60 .0) |
| 4.0 | 61-80 % area of leaf infected | Moderately susceptible (Score: 3.1 - 4.0) (Severity: 60.1 - 80 .0) |
| 5.0 | 81-100 % area of leaf infected | Susceptible (Score: \geq 4.0) (Severity: \geq 80 .0) |

5. Common rust (*C. rust*) and Polysora rust (*P. rust*)

The rust is an obligate parasite and thus, it is very difficult to grow it on artificial media under laboratory condition. Though, for some specific purposes small amount of inoculum can be grown under laboratory condition on detached leaf culture. But, this meager amount of culture obtained by such method is not sufficient to be utilized for large scale screening trials under field conditions. Therefore, naturally infected leaves showing large number of uredopustules may be collected from different places so that all the prevalent races in the areas may be utilized for screening the materials against the prevalent rust fungus.

The infected leaves thus collected should be macerated thoroughly in between two palms of the hands dipped under a bucket of water until the water gets sufficiently coloured. The uredospores can also be collected on a butter paper by tapping the severely infected leaves with fingers and then stored in glass vial or glass tube which can be sealed easily under a flame. The uredospores, thus obtained may be kept for longer period in the freezer at lower temperature i.e. 5-7°C and can also be easily carried to some distant places for inoculation purposes.

For inoculating the plants in a field use of a knapsack sprayer is very useful. The spore suspension should be sprayed over the plants during the second half of the day when the sun becomes mild. While spraying inoculum, the nozzle of the sprayer should be kept over whorl of the plant and all the leaves may be sprayed thoroughly. The spore suspension must be stirred continuously during spraying as the light spores aggregate together on the upper surface of the water.

Repeating the inoculation two to three times gives a good result. In addition 2-4 lines of susceptible varieties grown as border rows around the screening plots also help to spread the disease. Disease rating is done as per scale devised by Payak and Sharma[#] (1983).

| Rating scale | Disease severity (%) | PDI* | Disease reaction |
|--------------|---|------|----------------------------------|
| 1.0 | Very slight to slight infection, one or two to few scattered pustules on lower leaves only. | 20.0 | Resistant (Score: \leq 1.0) |

| | | | |
|-----|--|-------|--|
| | | | (PDI: \leq 20.0) |
| 2.0 | Moderate number of pustules on lower leaves only (light infection) | 40.0 | Moderately resistant (Score: 1.1 - 2.0) (PDI: 20.1 - 40.0) |
| 3.0 | Abundant pustules on lower leaves; few on middle leaves (moderate infection) | 60.0 | Moderately susceptible (Score: 2.1 - 3.0) (PDI: 40.1 - 60.0) |
| 4.0 | Abundant pustules on lower and middle leaves; extending to upper leaves (heavy infection) | 80.0 | Susceptible (Score: 3.1 - 4.0) (PDI: 60.1 - 80.0) |
| 5.0 | Abundant pustules on all leaves, plant may dry prematurely or killed by the disease (very heavy infection) | 100.0 | Highly susceptible (Score: \geq 4.0) (PDI: \geq 80.0) |

***Percent disease index (PDI)**

6. Sorghum downy mildew (SDM)

A. Screening through direct inoculation with conidia:

- i. *Collection and maintenance of inoculum:* Sorghum plants showing systemic infection of downy mildew from the farmer's fields in and are collected during morning hours, preserved in polythene bags and brought to the laboratory. Conidiophores and conidia from the white bloom found on the lower surface of the leaves are washed with a fine jet of distilled water and conidial suspension is collected from the sorghum leaves. The seedlings of susceptible cultivar are spray inoculated at 2 leaf stage (6-7 days old) with the conidial suspension collected from the sorghum leaves. The inoculation of the seedlings is continued till the plants reached 15 days and systemic symptoms are seen. The inoculum from these plants is multiplied by spray inoculating to the fortnightly sowings of maize. The infected plants are maintained in the plot throughout the experimental period. Artificial inoculation technique developed by Lal and Singh (1984) is followed to induce the disease incidence by spraying conidial suspension between 2.30 a.m. and 4.00 a.m.
- ii. *Evaluation of maize genotypes under artificial inoculation:* Maize genotypes are evaluated against sorghum downy mildew by artificial inoculation. Artificial inoculation is done when the plants are at two leaves stage as described by Lal and Singh (1984). Diseased plants from which inoculum required to be drawn is sprayed with water at 6.00 PM so that leaves would have a thin film of water for good sporulation. By 2.00 AM, the inoculation crew assembles in the field with cleaned sprayers, torches and buckets. By 2.30 AM the diseased leaves with good sporulation are searched and washed in the water at the rate of 15 leaves per litre of water collected in the buckets. This operation is completed by 3.00 AM. Then the collected spore suspension in different buckets is thoroughly mixed and made upto 25 litres. The 25 litres of conidial inoculum is collected from 375 diseased leaves. The inoculation

is completed by 4.00 AM with hand compression sprayer. Between 6.00 AM and at 6.00 PM water spray is given to the inoculated plot to create the required humidity artificially. With this method 100 percent disease incidence was created.

- B. *Spreader row technique*: Spreader rows are sown 15-20 days prior to the sowing of the entries in 2.5 meter bands with a row spacing of 60 cm and plant to plant spacing of 30 cm. each band consisting of four rows surrounding on all the four directions. For this, highly susceptible variety will be used. Inoculation of these spreader rows is done by following the above artificial inoculation procedure. Test entries were sown as mentioned above.

Per cent disease incidence is recorded 35 days after sowing and the entries are classified according to their disease reaction as described by Lal and Singh (1984).

| Disease incidence (%) | Disease reaction |
|-----------------------|------------------------|
| ≤ 10 | Resistant |
| 10.1 - 25.0 | Moderately resistant |
| 25.1 - 50.0 | Moderately susceptible |
| ≥ 50.0 | Susceptible |

7. Rajasthan Downy Mildew (RDM)

Downy mildew nursery is required for artificial inoculation purposes. Susceptible maize cultivar is grown in cage house and the plants are inoculated at seedling stage by placing bits of downy mildew infected grasses *Heteropogon contortus* and *H. melanocarpus*. Humidity around 90% is maintained in the cage house. Chlorotic symptoms along with light green color extends up to upper green portion are typical symptoms. During midnight hours a layer of conidia can be seen. These plants serve as source of inoculum for artificial inoculation.

Since the pathogen is of nocturnal nature and produces conidia during 12:00 to 6 AM, hence the freshly harvested conidia are collected in distilled water or RO water. Before collecting conidia the leaves can be washed before an hour so as to get fresh viable conidia. For screening the test entries, susceptible entries should be planted before 15 days and should be inoculated first. Since this pathogen does not form oospores on maize, hence sick plot technique does not work. The conidial suspension of harvested conidia is filled in dropping bottle to put drops of inoculum at seedling stage (6-7 days old) in the whorl (a cup like structure of upper leaf) during 3-5 AM. This should be done for 4-5 days regularly to avoid any escape. After 15-20 days symptoms become visible.

The observation is recorded as percent infected plants in a row out of total plants. At least three observations are taken at 30, 50 and 80 DAS. The last observation is considered as final, but number of plants is considered as of first observation. This is because some plants die and disappear due to infection. The entries are classified according to their disease reaction as described by Lal and Singh (1984) for SDM.

8. Post flowering stalk rots (Charcoal rot, Fusarium stalk rot and Late wilt)

Screening for resistance against these diseases can easily be done in sick plots. However, artificial inoculation is necessary where such plots are not available. For this purpose the fungal material should be isolated from the infected stalks, cultured and multiplied in the laboratory as described below.

Small bits cut from the infected stalks should be surface sterilized with 0.1 per cent mercuric chloride solution for one minute followed by washing in sterile distilled water. Finally a single bit is to be aseptically transferred to sterilized potato dextrose agar days at $26\pm 2^{\circ}\text{C}$ for getting the fungal hyphae to come out from the infected bits. Finally, the fungal hyphae is to be aseptically transferred to culture tubes containing the sterile PDA medium and to be incubated for about 10 days to get the stock culture of the pathogen to be used for increase of the inoculum in the laboratory for field inoculation.

Among various methods of field inoculation, the toothpick inoculation is followed for these diseases under the co-ordinated programmes. Round bamboo toothpicks about 6.5 cm long are boiled three times (about 1 hour each time) in tap water to remove toxic substances. After each boiling these are thoroughly washed in fresh water and dried in the sun. When these are thoroughly dry, they are loosely packed in bundles and put into the glass jars/ bottles and enough potato dextrose broth (one- third length of toothpicks) is added to thoroughly moisten the toothpicks plus some quantity in the bottom of the jars. The jars with the toothpicks are autoclaved immediately after the broth is added. Later the sterilized toothpicks are inoculated with the culture of the pathogen aseptically. The growth of the fungus covers the toothpicks and inoculum is ready for use in about 10 days.

Inoculations should be made just after flowering stage of plants. For inoculating plants, the lower internode (second/third) above soil level is opened with a jabber and the toothpick is inserted into the hole. The jabber is made by driving a nail of the diameter of the toothpick into a wooden handle. The head of the nail is ground off to a point and to the desired length (2cm). The round toothpicks effectively seal the hole in the stalk and prevent drying. The measurement is based on the proportion of disease present in the inoculated internodes and its subsequent spread. For scoring disease severity of PFSR, 1-9 rating scale of Payak and Sharma[#] (1983) is followed:

| Rating scale | Disease severity (%) | PDI* | Disease reaction |
|--------------|--|-------|---|
| 1.0 | Healthy or trace/slight discolouration at the site of inoculation. | 11.11 | Resistant (Score: ≤ 3.0) (PDI: ≤ 33.33) |
| 2.0 | Up to 50% of the inoculated internode is discoloured | 22.22 | |
| 3.0 | 51-75% of the inoculated internode is discoloured | 33.33 | |
| 4.0 | 76-100% of the inoculated internode is discoloured | 44.44 | Moderately resistant (Score: 3.1- 5.0) (PDI: 33.34 - 55.55) |
| 5.0 | Less than 50% discolouration of the adjacent | 55.55 | |

| | | | |
|-----|--|-------|--|
| | internode | | |
| 6.0 | More than 50% discolouration of the adjacent internode | 66.66 | Moderately susceptible (Score: 5.1 - 7.0) (PDI: 55.56 - 77.77) |
| 7.0 | Discolouration of three internodes | 77.77 | |
| 8.0 | Discolouration of four internodes | 88.88 | Susceptible (Score: ≥ 7.0) (PDI: ≥ 77.77) |
| 9.0 | Discolouration of five or more internodes and premature death of plant | 99.99 | |

***Percent disease index (PDI)**

9. Bacterial stalk rot (Pre-flowering stalk rot)

A virulent isolate of *Erwinia chrysanthemi* corn pathotype should be selected for inoculation. To maintain the virulence of the bacterium, it should be inoculated on healthy plants and then reisolated every year before mass inoculation. In order to isolate a virulent strain, the inoculated plants showing characteristic symptoms of the disease are selected. A small piece of rotten internode is immediately dipped into mercuric chloride solution (1:1000) for 5 seconds and passed through three changes of sterile water. The piece is then cut into two halves with sterilized blade, put into little sterile water and then teased apart with sterile needle. The small quantities of resulting suspension are then removed with a flamed wireloop and streaked out on well dried nutrient agar plates, the aim being to separate the cells so that they produce individual colonies. The characteristic colonies are identified after 2 days of incubation at 30°C and used for subculturing. The culture is used for testing the pathogenicity. The cultures which induce the typical symptoms of the disease within 48 hours of inoculation are used for mass inoculation. The inoculum is increased for mass inoculation on nutrient broth for 48 hours at 30°C. The inoculum was diluted 10 times with sterile water to maintain a concentration of approximate $1 \times 10^{7-9}$ bacteria/ml.

The inoculation may be carried out when the crop is at the pre-silking stage or until flowering has reached 75%. To inoculate the plants a diagonal hole is made in the middle of second internode from the ground to the pith. One milliliter of bacterial suspension is injected into the plant through the hole by a hypodermic syringe. If necessary, a second inoculation may be done one week later in the third internode from the ground. Percent disease incidence is recorded 15 days after sowing and the entries are classified according to their disease reaction as described by Lal and Singh (1984) for SDM.

* Calculation of Percent Disease Index (PDI) of Foliar Diseases of Maize

Percent disease index (PDI) is calculated using the following formula of Mckinney (1923).

$$\text{Percent disease index (PDI)} = \frac{\text{Sum of individual rating}}{\text{No. of leaves examined}} \times \frac{100}{\text{Maximum disease rating}}$$

On the basis of PDI, the inbred lines/ varieties/ hybrids can be classified as resistant (R), moderately resistant (MR), moderately susceptible (MS) and susceptible (S). The test inbred lines/ varieties/ hybrids with resistant reaction are considered acceptable for a breeding programme whereas test inbred lines/ varieties/ hybrids with moderately resistant are acceptable when lines with resistant reaction are not available.

- # M.M. Payak and R.C. Sharma. Disease rating scales in maize in India. *In: Techniques of Scoring for Resistance to Important Diseases of Maize*. All India Coordinated Maize Improvement Project, Indian Agriculture Research Institute, New Delhi, 1983, pp. 1-4.

10. Maize cyst nematode (*Heterodera Zeae*)

Plant parasitic nematodes are responsible to causes 10.2% losses o maize. Though, large number of plant parasitic nematodes attacks on maize but maize cyst nematode (*Heterodera zae*) is considered as most important and therefore, screening trials are carried out under artificially inoculated conditions in permanent plots to find out source of resistance against maize cyst nematode (*Heterodera zae*). The observations on nematode infestation are recorded after 45 days of germination. The varieties/hybrids/ lines are categorized on the basis of cyst/plant as mentioned below:

| S. No. | Number of cyst/plant | Category |
|--------|------------------------|----------------------|
| 1 | 0 - 4 cyst/plant | Resistant |
| 2 | Above 4 - 9 cyst/plant | Moderately Resistant |
| 3 | Above 9 cyst/plant | Susceptible |

ENTOMOLOGY

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ABBREVIATIONS

AVT-Advanced variety trail

DAG- Days after Germination

DAI- Days after emergence

EC- Emulsifiable Concentrate

HS – Highly susceptible

LIR-Leaf Injury Rating

LS – Least Susceptible

MS – Moderately susceptible

NG- No germination

SC- Suspension Concentration

WP- Wettable Powder

Entomology

During Kharif 2013, ACRIP trials were conducted in Entomology. A total of 92 entries were screened against *Chilo partellus* at these centres. ACRIP trials of 92 entries of different maturity periods were evaluated at Karnal, Kohlapur, Hyderabad, Ludhiana and Udaipur for resistance against *Chilo partellus* under artificial infestation.

The entries were sown in two rows of three metres each. Sixteen seeds were sown; after ten days of germination, extra plants were rogued out leaving twelve plants in each row. When the plants were 14-16 days-old, 10-12 black-headed eggs of *Chilo partellus* laid on butter paper were pinned in the whorl. The eggs hatched within few hours and the neonate larvae nibbled on the leaves found their way in the stem. After 25 days of release of eggs, plants were observed for level of infestation by recording the leaf injury rating on 1-9 scale where

- 1= Plants showing no infestation symptom
- 2= 1-2 leaves with pinholes
- 3= 3-4 leaves with holes
- 4= 1/3 leaves showing infestation symptoms
- 5= Half the number of the leaves with infestation symptoms
- 6= 2/3 leaves with infestation symptoms and the holes becoming windows
- 7= Leaves with long window and plant growth is stunted
- 8= Almost all leaves displaying heavy infestation and plant growth is stunted
- 9= Dead heart formation observed

The following entries registered leaf injury rating (LIR) less than that of checks.

Full Season Maturity: LTH-20, CMH 08-381, CMH 08-381 (G), P3580 (X35A180), P4546, PRO 385, MCH-46, MCH-45, GK3103 and S6668

Medium Maturity: KMH-3110 and Rasi 3033

Early Maturity: FH-3609, FH-3626, EH-2212, EH-2223, Bio6608, REH2011-2, FH-3605, CMH10-484, JH31602, AH1206, KMH-7021, CMH10-531, K-21, DAS-MH-501, Bisco2238, EHL162508, KNMH-4010141, FH-3548 and JH31485

Extra Early Maturity: FH-3594, DH-262, K-75, FH-3554, FH-3556 and FH-3558

One hundred forty-one inbred lines were also evaluated for resistance against *C. partellus* in which 34, 106 and one were found to be least susceptible, moderately susceptible and highly susceptible respectively. Two hundred twelve inbred lines were evaluated against sorghum shoofly. The susceptibility index was worked out by taking into account three parameters of susceptibility, i.e. number of plants oviposited, number of eggs per plant and DH. The parameter in percentage was divided by 10 and data without percentage was multiplied by 10 to equalize the weightage of each parameter. The mean of these parameters was worked out as susceptibility index. Germplasm with mean susceptibility index minus standard deviation was categorized as least susceptible and mean susceptible index plus standard deviation as highly susceptible. Accordingly, 21, 157 and 24 inbred lines were found to be least susceptible, moderately susceptible and highly susceptible respectively.

Variation in level of susceptibility based on location:

| Zone | Location | Leaf injury level | |
|---------|----------|-------------------|-----------|
| | | Mean | Range |
| Zone II | KARN | 3.06 | 1.12-5.95 |
| | LUDH | 4.48 | 2.63-8.21 |
| Zone IV | HYDE | 5.81 | 2.00-9 |
| | KOLH | 5.08 | 1.55-5.9 |
| Zone V | UDAI | 3.08 | 1.00-8.80 |

Data based on 92 genotypes

MET 1: Evaluation of maize AICRP trails under artificial infestation for AVT I and II**Table 1: Summary of ACRIP entries evaluation against *Chilo partellus* in each maturity group at different Coordinating Centres**

(The figures indicate number of entries)

| Level of susceptibility | Full season maturity | | Medium maturity | | Early maturity | | Extra-early maturity | |
|-------------------------|----------------------|--------|-----------------|--------|----------------|--------|----------------------|--------|
| | AVT I | AVT II | AVT I | AVT II | AVT I | AVT II | AVT I | AVT II |
| | | | No. of entries | | | | | |
| KARN | | | | | | | | |
| Least susceptible | 03 | 13 | 09 | 08 | 12 | 01 | 01 | 04 |
| Moderately susceptible | 13 | 08 | 04 | 01 | 01 | 01 | 03 | 03 |
| Highly susceptible | - | - | - | - | - | - | - | - |
| KOLH | | | | | | | | |
| Least susceptible | - | - | 01 | 02 | 01 | - | 01 | 01 |
| Moderately susceptible | 06 | 09 | 08 | 06 | 02 | 03 | 01 | 02 |
| Highly susceptible | 10 | 12 | 04 | 01 | 10 | 03 | 01 | 04 |
| HYDE | | | | | | | | |
| Least susceptible | 01 | - | 02 | 02 | 01 | 01 | - | 02 |
| Moderately susceptible | 02 | 16 | 03 | 04 | 02 | 01 | 04 | 04 |
| Highly susceptible | 13 | 05 | 08 | 03 | 10 | 07 | - | 01 |
| LUDH | | | | | | | | |
| Least susceptible | 01 | 01 | 02 | - | 02 | - | 01 | 01 |
| Moderately susceptible | 14 | 14 | 10 | 09 | 10 | 08 | 03 | 06 |
| Highly susceptible | 01 | 06 | 01 | - | 01 | 01 | - | - |
| UDAI | | | | | | | | |
| Least susceptible | 03 | 10 | 07 | 03 | 08 | 07 | 03 | 04 |
| Moderately susceptible | 12 | 11 | 05 | 06 | 05 | 02 | 01 | 03 |
| Highly susceptible | 01 | - | 01 | - | - | - | - | - |

Table 2: Screening of maize ACRIP entries of Full season Maturity group against *Chilo partellus* during Kharif, 2013

(The figures indicate mean score in terms of LIR)

| Ent. No. | Pedigree | KARN | KOLH | HYDE | LUDH | UDAI | Mean | Category of infestation |
|---------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| AVT I | | | | | | | | |
| 1 | FMH-11195 | 3.20 | 5.10 | 8.50 | 4.19 | 3.70 | 4.90 | MS |
| 2 | JH 31601 | 3.00 | 7.20 | 5.30 | 3.36 | 6.50 | 5.07 | MS |
| 3 | JH 31555 | 3.60 | 4.90 | 6.90 | 5.08 | 3.60 | 4.81 | MS |
| 4 | LTH-20 | 2.70 | 3.10 | 2.70 | 4.54 | 3.60 | 3.32 | MS |
| 5 | Ryder-M | 3.40 | 6.50 | 9.00 | 3.90 | 4.60 | 5.48 | MS |
| 6 | CMH 10-477 | 4.07 | 8.00 | 8.30 | 3.63 | 4.10 | 5.62 | MS |
| 7 | P3491(X35B391) | 3.17 | 7.30 | 6.00 | 5.37 | 4.80 | 5.33 | MS |
| 8 | P3596(X35B396) | 4.90 | 6.60 | 9.00 | 3.40 | 3.60 | 5.50 | MS |
| 9 | Geo Premium Diamond | 3.80 | 5.40 | 8.00 | 3.64 | 2.70 | 4.71 | MS |
| 10 | LTH-22 | 2.90 | 7.20 | 9.00 | 4.07 | 2.20 | 5.07 | MS |
| 11 | CP-802 | 5.20 | 6.30 | 7.70 | 6.76 | 1.00 | 5.39 | MS |
| 12 | NMH-1265 | 3.30 | 5.00 | 7.60 | 4.90 | 3.50 | 4.86 | MS |
| 13 | A 7503 | 5.40 | 8.00 | 9.00 | 4.60 | 3.50 | 6.10 | HS |
| 14 | CMH 10-540 | 4.32 | 4.70 | 7.80 | 5.42 | 3.40 | 5.13 | MS |
| 15 | X35B390 | 3.95 | 7.30 | 7.60 | 3.12 | 3.60 | 5.11 | MS |
| 16 | P3292(X35B392) | 5.15 | 7.30 | 9.00 | 2.95 | 3.40 | 5.56 | MS |
| AVT II | | | | | | | | |
| 17 | CMH 08-381 | 3.25 | 5.30 | 6.30 | 4.27 | 2.70 | 4.36 | MS |
| 18 | CMH 08-381 (G) | 4.25 | 5.50 | 5.20 | 3.18 | 2.60 | 4.15 | MS |
| 19 | CMH 09-464 | 5.10 | 6.30 | 5.30 | 5.28 | 2.80 | 4.95 | MS |
| 20 | P3580(X35A180) | 4.27 | 4.70 | 5.30 | 3.74 | 3.20 | 4.24 | MS |
| 21 | Orbit | 4.70 | 8.40 | 7.20 | 4.16 | 1.90 | 5.27 | MS |
| 22 | Laxmi 333 | 2.97 | 7.60 | 4.90 | 8.06 | 2.20 | 5.15 | MS |
| 23 | P 4546 | 2.27 | 6.40 | 6.00 | 4.02 | 2.30 | 4.19 | MS |
| 24 | PRO 385 | 2.30 | 5.90 | 7.40 | 3.96 | 1.70 | 4.25 | MS |
| 25 | MCH-46 | 3.00 | 3.50 | 5.40 | 3.00 | 3.70 | 3.72 | MS |
| 26 | S 6668 | 2.45 | 3.90 | 5.70 | 5.02 | 4.10 | 4.23 | MS |
| 27 | HTMH 5106 | 2.67 | 6.20 | 7.20 | 4.80 | 4.50 | 5.07 | MS |
| 28 | PFMH-97 I 57(AMAR) | 4.00 | 7.70 | 4.60 | 4.11 | 3.30 | 4.74 | MS |
| 29 | CP 333 | 2.17 | 6.30 | 3.80 | 3.39 | 3.10 | 3.75 | MS |
| 30 | HTMH 5402 | 2.00 | 8.10 | 4.30 | 6.86 | 3.20 | 4.89 | MS |
| 31 | MCH-45 | 2.12 | 6.60 | 3.30 | 6.27 | 2.90 | 4.24 | MS |
| 32 | PRO 384 | 3.42 | 6.50 | 4.30 | 6.43 | 4.50 | 5.03 | MS |
| 33 | GK 3103 | 2.30 | 6.70 | 4.00 | 6.73 | 1.90 | 4.33 | MS |
| 34 | PMH 1 (C) | 5.90 | 5.70 | 3.60 | 8.21 | 2.80 | 5.24 | MS |
| 35 | PMH 3 (C) | 1.80 | 5.90 | 3.80 | 5.11 | 3.60 | 4.04 | MS |
| 36 | Seedtech-2324 (C) | 1.55 | 6.00 | 4.10 | 4.16 | 4.00 | 3.96 | MS |
| 37 | BIO-9681 (C) | 2.10 | 7.90 | 7.30 | 3.39 | 5.60 | 5.26 | MS |
| | Mean | 3.42 | 6.24 | 6.23 | 4.68 | 3.36 | | |
| | Mean of Checks | | | | | | 4.63 | MS |

Table 3: Screening of maize ACRIP entries of Medium Maturity group against *Chilo partellus* during Kharif, 2013

(The figures indicate mean score in terms of LIR)

| Ent. No. | Pedigree | KARN | KOLH | HYDE | LUDH | UDAI | Mean | Category of infestation |
|---------------|----------------|-------------|-------------|------------|-------------|-------------|-------------|-------------------------|
| AVT I | | | | | | | | |
| 1 | KMH-25K-45 | 2.30 | 4.90 | 2.70 | 4.40 | 5.80 | 4.02 | MS |
| 2 | KMH-3110 | 3.80 | 3.00 | 2.10 | 3.33 | 2.40 | 2.92 | LS |
| 3 | KMH-7148 | 4.70 | 3.10 | 6.40 | 5.88 | 8.80 | 5.77 | MS |
| 4 | NMH-1276 | 2.50 | 5.80 | 6.60 | 3.72 | 1.40 | 4.00 | MS |
| 5 | IJ8533 | 2.10 | 4.60 | 7.40 | 2.91 | 5.60 | 4.52 | MS |
| 6 | X35B403 | 4.10 | 6.60 | 7.00 | 3.84 | 1.50 | 4.61 | MS |
| 7 | S-6790 | 2.22 | 6.90 | 5.30 | 4.62 | 5.20 | 4.85 | MS |
| 8 | S-6850 | 2.17 | 6.50 | 7.00 | 3.71 | 2.40 | 4.35 | MS |
| 9 | Proline -777 | 1.95 | 6.30 | 5.40 | 3.70 | 3.60 | 4.19 | MS |
| 10 | Rasi 3033 | 2.35 | 4.60 | 3.30 | 6.52 | 2.60 | 3.87 | MS |
| 11 | CMH 10-473 | 2.80 | 5.10 | 7.70 | 4.50 | 4.00 | 4.82 | MS |
| 12 | EHL-2211 | 2.50 | 5.60 | 6.80 | 4.38 | 2.80 | 4.45 | MS |
| 13 | Bio 719 | 5.95 | 5.10 | 8.40 | 2.95 | 2.50 | 4.98 | MS |
| AVT II | | | | | | | | |
| 14 | EHL-161708 | 2.75 | 6.80 | 4.00 | 5.34 | 2.80 | 4.34 | MS |
| 15 | X35A189 | 2.80 | 2.60 | 9.00 | 3.13 | 3.70 | 4.25 | MS |
| 16 | P3377 | 2.56 | 5.90 | 8.60 | 4.75 | 2.90 | 4.94 | MS |
| 17 | PRO 383 | 2.56 | 3.00 | 5.70 | 5.58 | 3.90 | 4.15 | MS |
| 18 | JH 31470 | 1.65 | 5.10 | 6.80 | 4.30 | 4.40 | 4.45 | MS |
| 19 | EH-1974 | 3.32 | 5.80 | 2.80 | 5.22 | 3.10 | 4.05 | MS |
| 20 | PMH 4(C) | 3.25 | 5.30 | 3.90 | 4.73 | 3.20 | 4.07 | MS |
| 21 | BIO 9637 (C) | 2.10 | 4.40 | 3.00 | 6.00 | 3.60 | 3.82 | MS |
| 22 | HM8 (C) | 1.90 | 5.80 | 5.50 | 3.52 | 2.80 | 3.90 | MS |
| | Mean | 2.83 | 5.08 | 5.7 | 4.41 | 3.59 | | |
| | Mean of Checks | | | | | | 3.93 | |

Table 4: Screening of maize ACRIP entries of Early Maturity group against *Chilo partellus* during Kharif, 2013

(The figures indicate mean score in terms of LIR)

| Ent. No. | Pedigree | KARN | KOLH | HYDE | LUDH | UDAI | Mean | Category of infestation |
|--------------|----------|------|------|------|------|------|------|-------------------------|
| AVT I | | | | | | | | |
| 1 | FH-3609 | 1.90 | 6.60 | 7.50 | 2.63 | 1.00 | 3.92 | MS |
| 2 | FH-3626 | 2.30 | 6.20 | 2.20 | 5.62 | 3.40 | 3.94 | MS |
| 3 | EH-2212 | 1.80 | 6.80 | 6.50 | 4.77 | 2.60 | 4.49 | MS |

| | | | | | | | | |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| 4 | EH-2223 | 2.25 | 6.80 | 4.00 | 4.15 | 1.30 | 3.7 | MS |
| 5 | Bio 6008 | 2.55 | 5.90 | 8.20 | 4.15 | 3.40 | 4.84 | MS |
| 6 | REH-2011-2 | 1.30 | 6.20 | 7.00 | 6.75 | 1.90 | 4.63 | MS |
| 7 | FH-3605 | 2.57 | 6.90 | 6.60 | 4.32 | 2.80 | 4.64 | MS |
| 8 | EH-2170 | 2.30 | 8.80 | 9.00 | 4.95 | 3.60 | 5.73 | MS |
| 9 | CMH 10-484 | 2.55 | 2.80 | 5.40 | 4.12 | 1.00 | 3.17 | MS |
| 10 | JH 31602 | 2.25 | 6.50 | 6.10 | 5.00 | 3.20 | 4.61 | MS |
| 11 | AH-1206 | 1.67 | 7.50 | 6.40 | 4.08 | 3.20 | 4.57 | MS |
| 12 | KMH-7021 | 3.92 | 7.50 | 7.00 | 4.07 | 2.70 | 5.04 | MS |
| 13 | CMH 10-531 | 3.00 | 4.90 | 7.10 | 2.96 | 1.80 | 3.95 | MS |
| AVT II | | | | | | | | |
| 14 | K-21 | 1.12 | 7.30 | 4.00 | 5.04 | 2.50 | 3.99 | MS |
| 15 | DAS-MH-501 | 1.80 | 4.10 | 2.30 | 3.03 | 1.80 | 2.60 | LS |
| 16 | Bisco 2238 | 2.80 | 6.10 | 7.40 | 5.25 | 2.70 | 4.85 | MS |
| 17 | EHL 162508 | 2.20 | 8.80 | 7.60 | 5.92 | 1.70 | 5.24 | MS |
| 18 | KNMH-4010141 | 2.37 | 4.20 | 9.00 | 4.20 | 3.40 | 4.63 | MS |
| 19 | FH-3548 | 2.50 | 4.40 | 9.00 | 4.73 | 2.80 | 4.68 | MS |
| 20 | JH 31485 | 2.50 | 6.40 | 8.90 | 5.62 | 2.60 | 5.20 | MS |
| 21 | Prakash (C) | 2.40 | 7.90 | 9.00 | 5.76 | 1.80 | 5.37 | MS |
| 22 | PMH 5 (C) | 3.50 | 7.00 | 9.00 | 6.70 | 4.20 | 6.08 | HS |
| | Mean | 2.34 | 6.07 | 6.78 | 4.72 | 2.58 | | |
| | Mean of Checks | | | | | | 5.73 | |

Table 5: Screening of maize ACRIP entries of Extra Early Maturity group against *Chilo partellus* during Kharif, 2013

(The figures indicate mean score in terms of LIR)

| Ent. No. | Pedigree | KARN | KOLH | HYDE | LUDH | UDAI | Mean | Category of infestation |
|---------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| AVT I | | | | | | | | |
| 1 | FH-3594 | 3.97 | 2.80 | 4.40 | 5.63 | 2.40 | 3.84 | MS |
| 2 | AH-1202 | 4.70 | 6.00 | 5.10 | 4.16 | 2.00 | 4.39 | MS |
| 3 | DH-238 | 3.05 | 8.00 | 5.30 | 4.86 | 4.90 | 5.22 | MS |
| 4 | DH-262 | 3.00 | 4.30 | 5.70 | 3.53 | 1.00 | 3.50 | MS |
| AVT II | | | | | | | | |
| 5 | K-75 | 2.70 | 7.40 | 4.40 | 2.99 | 1.70 | 3.84 | MS |
| 6 | FH-3554 | 2.75 | 2.60 | 6.60 | 3.03 | 2.80 | 3.55 | MS |
| 7 | FH-3556 | 5.20 | 4.50 | 4.30 | 3.12 | 3.80 | 4.18 | MS |
| 8 | FH-3558 | 2.87 | 6.50 | 3.70 | 4.53 | 1.10 | 3.74 | MS |
| 9 | FH-3555 | 4.60 | 7.20 | 2.00 | 5.46 | 5.00 | 4.85 | MS |
| 10 | Vivek QPM 9 (C) | 4.90 | 6.90 | 2.60 | 3.53 | 1.80 | 3.95 | MS |
| 11 | Vivek Hybrid 9 (C) | 2.25 | 5.80 | 5.60 | 4.45 | 4.20 | 4.46 | MS |
| | Mean | 3.64 | 5.73 | 4.52 | 4.12 | 2.79 | | - |
| | Mean of Checks | | | | | | 4.21 | |

MET 2a: Evaluation of inbred lines under artificial infestation**Table 6: Screening of maize inbred lines against stem borer, *Chilo partellus* during Kharif, 2013**

(The figures indicate mean score in terms of LIR)

| S.No. | Pedigree | KARN | KOLH | HYDE | LUDH | UDAI | Mean |
|-------|---------------------|------|------|------|------|------|------|
| 1 | CM 202 | 1.50 | 6.50 | 4.30 | 8.18 | 3.50 | 4.79 |
| 2 | WNZPBT8 | 1.20 | 5.30 | 2.30 | 7.11 | 4.80 | 4.14 |
| 3 | CML305 | 1.40 | NG | 4.30 | 5.40 | 4.20 | 3.06 |
| 4 | CM501 | 4.22 | 6.30 | 5.20 | 4.20 | 6.20 | 5.22 |
| 5 | CM 500 | 1.62 | 5.30 | 2.00 | 4.10 | 2.60 | 3.12 |
| 6 | CM211 | 3.62 | 2.50 | 8.00 | 3.38 | 5.80 | 4.66 |
| 7 | S00TLWQHGBBB35-B | 4.16 | 3.00 | 4.30 | 4.33 | 2.40 | 3.64 |
| 8 | CM 500 | 4.75 | 3.30 | 3.40 | 3.22 | 4.00 | 3.73 |
| 9 | P69(5869Q)BBB-24 | 2.14 | NG | 3.00 | 4.87 | 4.20 | 2.84 |
| 10 | E60 FC | 1.80 | 2.00 | 5.50 | 5.90 | 7.20 | 4.48 |
| 11 | CUBA378 | 2.62 | 8.00 | 5.30 | 5.75 | 4.00 | 5.13 |
| 12 | PFSR5106/1 | 2.50 | 4.30 | 6.00 | 6.87 | 2.00 | 4.33 |
| 13 | AEBY2SELECTION | 1.88 | NG | 6.70 | 4.11 | 8.60 | 4.25 |
| 14 | CM123 | 2.55 | 8.50 | 8.00 | 8.70 | 9.00 | 7.35 |
| 15 | CM 202 | 1.33 | 6.00 | 7.70 | 6.30 | 4.20 | 5.11 |
| 16 | CML494 | 5.00 | 2.80 | 2.00 | 6.66 | 4.20 | 4.13 |
| 17 | AEB(Y) | 3.20 | 4.00 | 5.50 | 5.62 | 4.20 | 4.50 |
| 18 | BCK/BC8 | 1.33 | 4.70 | 5.10 | 5.77 | 5.60 | 4.50 |
| 19 | CM 202 | 3.00 | 5.00 | 5.70 | 7.16 | 7.40 | 5.65 |
| 20 | CM119 | 1.44 | 6.00 | 6.00 | 4.33 | 7.20 | 4.99 |
| 21 | LM13 | 5.00 | 4.70 | 4.20 | 5.46 | 4.60 | 4.79 |
| 22 | WP21 | 2.27 | 5.80 | 4.70 | 4.80 | 5.40 | 4.59 |
| 23 | WINPOP3 | 3.71 | 5.50 | 5.50 | 4.50 | 5.40 | 4.92 |
| 24 | HYBRID 9415-BBB-4 | 1.00 | 2.50 | 2.00 | 5.85 | 5.60 | 3.39 |
| 25 | EC672591 | 2.00 | 3.00 | NG | 5.50 | 2.80 | 2.66 |
| 26 | HKI577 | 1.00 | 2.50 | 2.20 | 4.14 | 1.00 | 2.17 |
| 27 | PFSRS3 | 5.33 | 6.30 | 3.20 | 7.20 | 5.60 | 5.53 |
| 28 | CM 500 | 1.88 | 2.30 | 5.40 | 3.75 | 1.00 | 2.86 |
| 29 | CML420 | 1.71 | 3.00 | 4.60 | 3.85 | 8.80 | 4.39 |
| 30 | CM 500 | 3.55 | 3.00 | 3.60 | 3.80 | 1.00 | 2.99 |
| 31 | CM 500 | 1.27 | 2.00 | 4.00 | 4.20 | 2.40 | 2.77 |
| 32 | JCS80106H | 2.25 | 8.30 | 2.70 | 5.50 | 4.00 | 4.55 |
| 33 | SWEETCORN SYNTHETIC | 4.66 | 8.30 | 4.70 | 4.50 | 4.20 | 5.27 |
| 34 | WINPOP8 | 2.25 | 3.30 | 5.20 | 5.90 | 2.60 | 3.85 |
| 35 | EI-670-2 | 2.91 | 7.50 | 4.00 | NG | 7.60 | 4.40 |
| 36 | Hk1170(1+2) | 1.50 | 5.50 | 6.20 | 6.77 | 5.40 | 5.07 |
| 37 | CM 500 | 1.66 | 7.30 | 3.00 | 4.20 | 4.00 | 4.03 |
| 38 | SOS1YQBB26-B | 1.72 | 6.00 | 2.00 | 4.50 | 4.40 | 3.72 |
| 39 | HKI586-1WG33 | 1.80 | 6.00 | 2.00 | NG | 7.40 | 3.44 |
| 40 | WNZPBT8 | 3.40 | 2.70 | 2.20 | 6.25 | 6.20 | 4.15 |
| 41 | WINPOPIIXWINPOPIII | 4.00 | 4.80 | 2.40 | 5.00 | 4.20 | 4.08 |
| 42 | V335 | 1.60 | 8.30 | 2.80 | 5.71 | 2.40 | 4.16 |
| 43 | CM142 | 3.75 | 7.30 | 5.80 | 4.75 | 1.00 | 4.52 |
| 44 | CML73 | 1.62 | 2.80 | 2.80 | 5.00 | 8.80 | 4.20 |
| 45 | CM 202 | 3.83 | 3.60 | 2.20 | 6.66 | 2.40 | 3.74 |

| | | | | | | | |
|----|---------------------|------|------|------|------|------|------|
| 46 | Sow1WQ-2-BBB-B | 2.25 | 2.40 | 2.20 | 7.00 | 5.60 | 3.89 |
| 47 | JCS2-7 | 5.83 | 4.50 | 2.00 | 9.00 | 1.00 | 4.46 |
| 48 | T2SR1101 | 3.44 | 3.30 | 3.40 | 7.22 | 4.20 | 4.31 |
| 49 | CML317 | 2.25 | 2.20 | 2.00 | 7.16 | 5.40 | 3.80 |
| 50 | WNZ EXOTIC POOLDC2 | 2.83 | 2.50 | 3.80 | 4.77 | 2.40 | 3.26 |
| 51 | ----- | 2.20 | 5.80 | 4.40 | 4.60 | 5.90 | 4.58 |
| 52 | CM 202 | 7.00 | 2.20 | 3.20 | 5.71 | 4.20 | 4.46 |
| 53 | CML485BBB | 3.20 | 2.80 | 3.30 | 4.66 | 2.40 | 3.27 |
| 54 | 97P65-BBB-26-B | 2.50 | 3.70 | 3.00 | 4.09 | 3.20 | 3.29 |
| 55 | P65C6-BBB-23 | 3.00 | 3.30 | 3.80 | 4.18 | 1.00 | 3.05 |
| 56 | P70C0BBB-5 | 3.90 | NG | 7.50 | 4.85 | 2.80 | 3.81 |
| 57 | HKI163EARLY | 2.00 | 8.30 | 5.80 | 4.66 | 1.00 | 4.35 |
| 58 | CM 202 | NG | 6.70 | 2.00 | 6.50 | 1.40 | 3.32 |
| 59 | CML491-B6 | 1.50 | 7.30 | 2.30 | 4.37 | 1.00 | 3.29 |
| 60 | CM130 | 1.62 | 5.70 | 2.40 | 4.33 | 2.60 | 3.3 |
| 61 | PFSRS2 | 1.00 | 8.80 | 5.00 | 4.57 | 1.00 | 4.07 |
| 62 | CM115 | 1.50 | 6.70 | 4.80 | 4.66 | 1.00 | 3.73 |
| 63 | HKI1105 | 1.66 | 9.00 | 5.30 | 5.60 | 5.60 | 5.43 |
| 64 | HKI488 EARLY | 3.14 | 8.30 | 4.60 | 4.33 | 2.60 | 4.59 |
| 65 | POBLAC70 C0 | 2.28 | 8.50 | 3.20 | 5.85 | 1.00 | 4.16 |
| 66 | HKIPC5 | 3.50 | 7.30 | 3.60 | 4.50 | 1.00 | 3.98 |
| 67 | CM 500 | 1.37 | 6.00 | 4.80 | 4.75 | 1.00 | 3.58 |
| 68 | CM 500 | 1.62 | 2.80 | 3.70 | NG | 1.00 | 1.82 |
| 69 | CML50 | 1.60 | 3.50 | 2.20 | 6.80 | 1.00 | 3.02 |
| 70 | CML49 | 1.44 | 8.50 | 4.70 | 6.60 | 5.40 | 5.33 |
| 71 | HKI164-3-(2-1)1 | 2.00 | 2.80 | 4.50 | 5.33 | 1.00 | 3.11 |
| 72 | CM 202 | 1.50 | 4.00 | 3.25 | NG | 3.20 | 2.39 |
| 73 | WS2 | 2.00 | 7.80 | 3.60 | 5.00 | 3.80 | 4.44 |
| 74 | HKI536-7 | 3.00 | 7.40 | NG | 4.50 | 4.00 | 3.78 |
| 75 | CML44-B-B-B | 2.00 | 7.40 | 5.80 | 5.75 | 1.20 | 4.43 |
| 76 | CML448 | 4.00 | 4.00 | 6.40 | 7.00 | 2.60 | 4.8 |
| 77 | HKI484-5 | 1.75 | 7.30 | 3.80 | 4.25 | 1.00 | 3.62 |
| 78 | CML261 | 4.33 | 2.80 | 4.00 | NG | 3.20 | 2.86 |
| 79 | AEBCYC34-2-1 | 1.33 | 3.70 | 6.00 | 4.42 | 2.80 | 3.65 |
| 80 | CM 500 | 1.33 | 2.20 | 3.90 | NG | 4.00 | 2.28 |
| 81 | EC610584 | 2.44 | 6.00 | 7.30 | 6.25 | 6.50 | 5.69 |
| 82 | CML281 | 2.00 | 2.80 | 3.80 | 4.20 | 2.60 | 3.08 |
| 83 | CM 202 | 1.37 | NG | 6.80 | 5.40 | 1.00 | 2.91 |
| 84 | DMRN7CH7 | 1.00 | NG | 4.70 | 4.33 | 4.40 | 2.88 |
| 85 | CM 500 | NG | 8.30 | 2.40 | 4.80 | 2.40 | 3.58 |
| 86 | S0S1YQBBB-13 | 2.36 | 5.30 | 3.40 | 4.80 | 5.60 | 4.29 |
| 87 | JCS789CH1 | 3.75 | NG | 5.80 | NG | 2.40 | 2.39 |
| 88 | CM502 | 3.50 | 6.80 | 7.30 | 4.14 | 4.20 | 5.18 |
| 89 | LM16 | 1.42 | 6.70 | 5.00 | 6.75 | 1.00 | 4.17 |
| 90 | TZAR106 | 3.14 | 2.70 | 3.10 | 4.45 | 2.60 | 3.19 |
| 91 | CM 500 | 2.77 | 2.00 | 2.00 | 4.60 | 1.00 | 2.47 |
| 92 | HKI193-1 | 2.14 | 7.50 | 4.70 | 4.71 | 1.00 | 4.01 |
| 93 | CML338 | 2.87 | 8.00 | 2.00 | 5.85 | 1.00 | 3.94 |
| 94 | CML344BB | 2.62 | 5.00 | 5.60 | 5.00 | 1.00 | 3.84 |
| 95 | CML289 | 2.40 | 6.00 | 2.00 | 4.85 | 2.00 | 3.45 |
| 96 | CM118 | 3.25 | 6.50 | 2.30 | 4.71 | 2.40 | 3.83 |
| 97 | BASILOCAL SELECTION | NG | 9.00 | 2.00 | NG | 1.00 | 2.4 |
| 98 | CM 202 | 1.50 | 7.70 | 5.50 | 5.70 | 1.00 | 4.28 |

| | | | | | | | |
|-----|----------------------|------|------|------|------|------|------|
| 99 | O2POOL33C23 | 1.33 | 4.70 | 5.60 | 4.66 | 1.00 | 3.46 |
| 100 | CML140 | 1.77 | NG | 5.60 | 4.00 | 2.40 | 2.75 |
| 101 | AEBYC534-1-1 | NG | 7.00 | 3.50 | 4.33 | 1.00 | 3.16 |
| 102 | CM 202 | 4.25 | 2.70 | 2.00 | 6.33 | 2.40 | 3.54 |
| 103 | AEBY2A | NG | 7.00 | 4.00 | NG | 3.80 | 2.96 |
| 104 | AEBYC555-1-1 | NG | 5.30 | 2.00 | 4.25 | 4.10 | 3.13 |
| 105 | CML424 | 1.00 | 2.80 | 2.80 | 5.14 | 2.40 | 2.83 |
| 106 | WNZEXOTIC POOL1 A | 1.50 | 3.40 | 2.80 | 8.00 | 1.20 | 3.38 |
| 107 | CM 500 | 1.50 | 3.50 | 2.30 | 5.42 | 1.00 | 2.74 |
| 108 | CML162 | 4.25 | 3.30 | 3.60 | 4.62 | 2.60 | 3.67 |
| 109 | ITNA004 | 3.11 | 6.50 | 5.80 | 4.28 | 1.00 | 4.14 |
| 110 | CM 202 | 3.75 | 7.50 | 5.00 | 6.37 | 1.20 | 4.76 |
| 111 | HKI 586 | 2.87 | 5.00 | 4.30 | 6.90 | 2.60 | 4.33 |
| 112 | CLQCM 500WQ31-B-6 | 2.33 | 7.00 | 3.30 | 6.42 | 1.40 | 4.09 |
| 113 | P390AM/CMLC4F230-B-2 | NG | 2.80 | 2.80 | 7.80 | 1.00 | 2.88 |
| 114 | CML321 | 1.00 | 4.00 | 4.80 | 7.25 | 1.20 | 3.65 |
| 115 | P3C4S5-33-11-BBBB-2 | 3.00 | 7.00 | 3.00 | 6.55 | 1.00 | 4.11 |
| 116 | HIGHOILQPMC13-BBB-61 | 2.00 | 4.00 | 2.00 | 5.20 | 1.50 | 2.94 |
| 117 | CM 500 | 1.00 | 2.80 | 2.80 | 5.00 | 1.00 | 2.52 |
| 118 | CM131 | 1.66 | 3.00 | 2.00 | NG | 1.00 | 1.53 |
| 119 | CM 202 | 1.57 | 8.00 | 6.00 | 5.80 | 1.90 | 4.65 |
| 120 | HKI1040C2 | 2.00 | 3.00 | 2.00 | 4.50 | 2.60 | 2.82 |
| 121 | AEBYC538-1-1 | 1.00 | 2.40 | 3.60 | 5.33 | 1.00 | 2.66 |
| 122 | CM 500 | 1.55 | 4.50 | 4.20 | 6.80 | 1.00 | 3.61 |
| 123 | AEBYC534-3-1 | 1.00 | 4.30 | 5.20 | 7.70 | 1.00 | 3.84 |
| 124 | CML384X176F3- 100-9 | 2.00 | 3.80 | 5.60 | 7.16 | 1.00 | 3.91 |
| 125 | G33QC20-BBB-37 | 1.33 | 5.80 | 4.00 | NG | 1.20 | 2.46 |
| 126 | CML482 | 1.09 | 7.30 | 3.60 | 4.20 | 1.00 | 3.43 |
| 127 | CM117 | 1.33 | 5.30 | 2.00 | 4.37 | 2.40 | 3.08 |
| 128 | CM 500 | 1.50 | 3.20 | 3.00 | 4.33 | 1.20 | 2.65 |
| 129 | WNS | 1.50 | 4.00 | 3.90 | 3.27 | 1.00 | 2.73 |
| 130 | CM 202 | 4.00 | 7.50 | 5.80 | 8.33 | 1.50 | 5.43 |
| 131 | AEBY1 | 1.75 | 6.60 | 3.80 | 7.40 | 1.00 | 4.11 |
| 132 | CM 202 | 2.00 | NG | 5.00 | 6.33 | 1.00 | 2.86 |
| 133 | BML14 | 1.66 | 3.00 | 2.00 | 5.18 | 1.00 | 2.57 |
| 134 | P3C4S5-33-11-BBBB-2 | 4.28 | NG | 5.30 | NG | 1.00 | 2.12 |
| 135 | HKI326-3 | 1.66 | NG | 5.00 | 4.62 | 1.00 | 2.45 |
| 136 | CML481 | 1.45 | 2.60 | 5.70 | 4.60 | 1.00 | 3.07 |
| 137 | CML227 | 2.75 | 4.30 | 5.80 | 6.77 | 1.40 | 4.20 |
| 138 | P63C2-BBB-17B | 3.08 | 4.80 | 5.00 | 6.42 | 1.00 | 4.06 |
| 139 | WNZPBT5 | 3.25 | NG | NG | 4.30 | 1.00 | 1.71 |
| 140 | CML408 | 1.60 | NG | 3.00 | 5.75 | 2.70 | 2.61 |
| 141 | CML12 | 1.00 | 5.60 | 4.00 | 4.33 | 1.00 | 3.18 |

Based on the mean leaf injury rating the inbred lines have been categorized as follow:

Least Susceptible (LIR 1-3): 34

Moderately Susceptible (LIR 3.1-6.0): 106

Highly Susceptible (LIR 6.1-9.0): 1

Table 7: Categorization of inbred lines based on their susceptibility to *Chilo partellus*

| S. No. | Entries | Mean LIR |
|--|----------------------|----------|
| Least susceptible lines | | |
| 1 | P69(5869Q)BBB-24 | 2.84 |
| 2 | EC672591 | 2.66 |
| 3 | HKI577 | 2.17 |
| 4 | CM 500 | 2.86 |
| 5 | CM 500 | 2.99 |
| 6 | CM 500 | 2.77 |
| 7 | CM 500 | 1.82 |
| 8 | CM 202 | 2.39 |
| 9 | CML261 | 2.86 |
| 10 | CM 500 | 2.28 |
| 11 | CM 202 | 2.91 |
| 12 | DMRN7CH7 | 2.88 |
| 13 | JCS789CH1 | 2.39 |
| 14 | CM 500 | 2.47 |
| 15 | BASILOCAL SELECTION | 2.40 |
| 16 | CML140 | 2.75 |
| 17 | AEBY2Ä | 2.96 |
| 18 | CML424 | 2.83 |
| 19 | CM 500 | 2.74 |
| 20 | P390AM/CMLC4F230-B-2 | 2.88 |
| 21 | HIGHOILQPMC13-BBB-61 | 2.94 |
| 22 | CM 500 | 2.52 |
| 23 | CM131 | 1.53 |
| 24 | HKI1040C2 | 2.82 |
| 25 | AEBYC538-1-1 | 2.66 |
| 26 | G33QC20-BBB-37 | 2.46 |
| 27 | CM 500 | 2.65 |
| 28 | WNS | 2.73 |
| 29 | CM 202 | 2.86 |
| 30 | BML14 | 2.57 |
| 31 | P3C4S5-33-11-BBBB-2 | 2.12 |
| 32 | HKI326-3 | 2.45 |
| 33 | WNZPBT5 | 1.71 |
| 34 | CML408 | 2.61 |
| Moderately susceptible inbred lines | | |
| 1 | CM 202 | 4.79 |
| 2 | WNZPBT8 | 4.14 |
| 3 | CML305 | 3.06 |
| 4 | CM501 | 5.22 |
| 5 | CM 500 | 3.12 |
| 6 | CM211 | 4.66 |
| 7 | S00TLWQHGBBB35-B | 3.64 |
| 8 | CM 500 | 3.73 |
| 9 | E60 FC | 4.48 |
| 10 | CUBA378 | 5.13 |
| 11 | PFSR5106/1 | 4.33 |
| 12 | AEBY2SELECTION | 4.25 |
| 13 | CM 202 | 5.11 |

E10

| | | |
|----|---------------------|------|
| 14 | CML494 | 4.13 |
| 15 | AEB(Y) | 4.50 |
| 16 | BCK/BC8 | 4.50 |
| 17 | CM 202 | 5.65 |
| 18 | CM119 | 4.99 |
| 19 | LM13 | 4.79 |
| 20 | WP21 | 4.59 |
| 21 | WINPOP3 | 4.92 |
| 22 | HYBRID 9415-BBB-4 | 3.39 |
| 23 | PFSRS3 | 5.53 |
| 24 | CML420 | 4.39 |
| 25 | JCS80106H | 4.55 |
| 26 | SWEETCORN SYNTHETIC | 5.27 |
| 27 | WINPOP8 | 3.85 |
| 28 | EI-670-2 | 4.40 |
| 29 | Hk1170(1+2) | 5.07 |
| 30 | CM 500 | 4.03 |
| 31 | SOS1YQBB26-B | 3.72 |
| 32 | HKI586-1WG33 | 3.44 |
| 33 | WNZPBTL9 | 4.15 |
| 34 | WINPOPIIXWINPOPIII | 4.08 |
| 35 | V335 | 4.16 |
| 36 | CM142 | 4.52 |
| 37 | CML73 | 4.20 |
| 38 | CM 202 | 3.74 |
| 39 | Sow1WQ-2-BBB-B | 3.89 |
| 40 | JCS2-7 | 4.46 |
| 41 | T2SR1101 | 4.31 |
| 42 | CML317 | 3.80 |
| 43 | WNZ EXOTIC POOLDC2 | 3.26 |
| 44 | ----- | 4.58 |
| 45 | CM 202 | 4.46 |
| 46 | CML485BBB | 3.27 |
| 47 | 97P65-BBB-26-B | 3.29 |
| 48 | P65C6-BBB-23 | 3.05 |
| 49 | P70C0BBB-5 | 3.81 |
| 50 | HKI163EARLY | 4.35 |
| 51 | CM 202 | 3.32 |
| 52 | CML491-B6 | 3.29 |
| 53 | CM130 | 3.30 |
| 54 | PFSRS2 | 4.07 |
| 55 | CM115 | 3.73 |
| 56 | HKI1105 | 5.43 |
| 57 | HKI488 EARLY | 4.59 |
| 58 | POBLAC70 C0 | 4.16 |
| 59 | HKIPC5 | 3.98 |
| 60 | CM 500 | 3.58 |
| 61 | CML50 | 3.02 |
| 62 | CML49 | 5.33 |
| 63 | HKI164-3-(2-1)1 | 3.11 |
| 64 | WS2 | 4.44 |
| 65 | HKI536-7 | 3.78 |
| 66 | CML44-B-B-B | 4.43 |
| 67 | CML448 | 4.80 |
| 68 | HKI484-5 | 3.62 |

E11

| | | |
|--------------------------------|---------------------|------|
| 69 | AEBCYC34-2-1 | 3.65 |
| 70 | EC610584 | 5.69 |
| 71 | CML281 | 3.08 |
| 72 | CM 500 | 3.58 |
| 73 | SOS1YQBBB-13 | 4.29 |
| 74 | CM502 | 5.18 |
| 75 | LM16 | 4.17 |
| 76 | TZAR106 | 3.19 |
| 77 | HKI193-1 | 4.01 |
| 78 | CML338 | 3.94 |
| 79 | CML344BB | 3.84 |
| 80 | CML289 | 3.45 |
| 81 | CM118 | 3.83 |
| 82 | CM 202 | 4.28 |
| 83 | O2POOL33C23 | 3.46 |
| 84 | AEBYC534-1-1 | 3.16 |
| 85 | CM 202 | 3.54 |
| 86 | AEBYC555-1-1 | 3.13 |
| 87 | WNZEXOTIC POOL1 Ä | 3.38 |
| 88 | CML162 | 3.67 |
| 89 | ITNA004 | 4.14 |
| 90 | CM 202 | 4.76 |
| 91 | HKI 586 | 4.33 |
| 92 | CLQCM 500WQ31-B-6 | 4.09 |
| 93 | CML321 | 3.65 |
| 94 | P3C4S5-33-11-BBBB-2 | 4.11 |
| 95 | CM 202 | 4.65 |
| 96 | CM 500 | 3.61 |
| 97 | AEBCYC534-3-1 | 3.84 |
| 98 | CML384X176F3- 100-9 | 3.91 |
| 99 | CML482 | 3.43 |
| 100 | CM117 | 3.08 |
| 101 | CM 202 | 5.43 |
| 102 | AEBY1 | 4.11 |
| 103 | CML481 | 3.07 |
| 104 | CML227 | 4.20 |
| 105 | P63C2-BBB-17B | 4.06 |
| 106 | CML12 | 3.18 |
| Highly susceptible line | | |
| 1 | CM123 | 7.35 |

Table 8: Evaluation of inbred lines against Sorghum shootfly under natural infestation

| Germplasm/ plot no. | Pedigree | No. of dead hearts | Total no. of plants | No. of pl. ovi- posited | total no. of eggs | Eggs /pl. | Dead Hearts (%) | Plant ovi- posited (%) /10 | eggs/ pl*10 | DH (%) /10 | Suscept ibility Index |
|------------------------|---------------------|--------------------------|---------------------------|-------------------------------|-------------------------|--------------|-----------------------|-------------------------------------|----------------|------------------|-----------------------------|
| EXP2E601 | BML5 | 9 | 15 | 13 | 65 | 5.00 | 60.00 | 8.67 | 50 | 6.00 | 21.56 |
| EXP2E602 | AEBYC534-1-1 | 0 | 7 | 5 | 11 | 2.20 | 0.00 | 7.14 | 22 | 0.00 | 9.71 |
| EXP2E603 | BASILOCAL SELECTION | 0 | 8 | 6 | 20 | 3.33 | 0.00 | 7.50 | 33.3 | 0.00 | 13.60 |
| EXP2E604 | WNZEXOTIC POOL1 □ | 0 | 1 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E605 | AEBYC555-1-1 | 0 | 6 | 5 | 16 | 3.20 | 0.00 | 8.33 | 32 | 0.00 | 13.44 |
| EXP2E606 | BML10 | 2 | 6 | 3 | 6 | 2.00 | 33.33 | 5.00 | 20 | 3.33 | 9.44 |
| EXP2E607 | T2SR1101 | 2 | 7 | 2 | 9 | 4.50 | 28.57 | 2.86 | 45 | 2.86 | 16.90 |
| EXP2E608 | WNZPBT6 | 1 | 1 | 0 | 0 | 0.00 | 100.00 | 0.00 | 0 | 10.00 | 3.33 |
| EXP2E609 | SU2SU2COMP-7-B | 1 | 4 | 1 | 1 | 1.00 | 25.00 | 2.50 | 10 | 2.50 | 5.00 |
| EXP2E610 | CM135 | 2 | 7 | 2 | 2 | 1.00 | 28.57 | 2.86 | 10 | 2.86 | 5.24 |
| EXP2E611 | JCS80106H | 2 | 6 | 2 | 9 | 4.50 | 33.33 | 3.33 | 45 | 3.33 | 17.22 |
| EXP2E612 | LM13 | 2 | 7 | 1 | 1 | 1.00 | 28.57 | 1.43 | 10 | 2.86 | 4.76 |
| EXP2E613 | ITNA004 | 2 | 8 | 3 | 3 | 1.00 | 25.00 | 3.75 | 10 | 2.50 | 5.42 |
| EXP2E614 | E60 FC | 3 | 7 | 3 | 5 | 1.67 | 42.86 | 4.29 | 16.7 | 4.29 | 8.42 |
| EXP2E615 | POBLAC70 C0 □□□ | 5 | 6 | 1 | 1 | 1.00 | 83.33 | 1.67 | 10 | 8.33 | 6.67 |
| EXP2E616 | CML44-B-B-B | 2 | 3 | 1 | 2 | 2.00 | 66.67 | 3.33 | 20 | 6.67 | 10.00 |
| EXP2E617 | AEB(Y) □ | 7 | 9 | 3 | 6 | 2.00 | 77.78 | 3.33 | 20 | 7.78 | 10.37 |
| EXP2E618 | PFSRS3 | 4 | 7 | 2 | 24 | 12.00 | 57.14 | 2.86 | 120 | 5.71 | 42.86 |
| EXP2E619 | LM16 | 3 | 12 | 3 | 16 | 5.33 | 25.00 | 2.50 | 53.3 | 2.50 | 19.43 |
| EXP2E620 | HKIPC5 | 3 | 4 | 2 | 6 | 3.00 | 75.00 | 5.00 | 30 | 7.50 | 14.17 |
| EXP2E621 | S99TLWQ-HG-BBB-65 | 3 | 11 | 2 | 4 | 2.00 | 27.27 | 1.82 | 20 | 2.73 | 8.18 |
| EXP2E622 | HKI193-1 | 4 | 11 | 2 | 5 | 2.50 | 36.36 | 1.82 | 25 | 3.64 | 10.15 |
| EXP2E623 | WINPOP3 | 1 | 6 | 1 | 11 | 11.00 | 16.67 | 1.67 | 110 | 1.67 | 37.78 |
| EXP2E624 | WINPOPIIXWINPOPIII | 3 | 5 | 0 | 0 | 0.00 | 60.00 | 0.00 | 0 | 6.00 | 2.00 |
| EXP2E625 | 97P65-BBB-26-B | 0 | 4 | 2 | 4 | 2.00 | 0.00 | 5.00 | 20 | 0.00 | 8.33 |
| EXP2E626 | WSC1XMASMADHU | 5 | 8 | 2 | 7 | 3.50 | 62.50 | 2.50 | 35 | 6.25 | 14.58 |
| EXP2E627 | EC610584 | 1 | 5 | 2 | 2 | 1.00 | 20.00 | 4.00 | 10 | 2.00 | 5.33 |
| EXP2E628 | CM118 | 0 | 4 | 1 | 2 | 2.00 | 0.00 | 2.50 | 20 | 0.00 | 7.50 |
| EXP2E629 | CM201 | 3 | 5 | 1 | 1 | 1.00 | 60.00 | 2.00 | 10 | 6.00 | 6.00 |
| EXP2E630 | CML77 | | | | | | | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E631 | CML321 | 1 | 3 | 0 | 0 | 0.00 | 33.33 | 0.00 | 0 | 3.33 | 1.11 |
| EXP2E632 | BML11 | 4 | 12 | 7 | 14 | 2.00 | 33.33 | 5.83 | 20 | 3.33 | 9.72 |
| EXP2E633 | WNZPBT8 | 1 | 4 | 1 | 1 | 1.00 | 25.00 | 2.50 | 10 | 2.50 | 5.00 |

E13

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|----------|---------------------|---|----|---|----|------|--------|-------|------|-------|-------|
| EXP2E634 | HKI164-3-(2-1)1 | 1 | 12 | 3 | 11 | 3.67 | 8.33 | 2.50 | 36.7 | 0.83 | 13.34 |
| EXP2E635 | AEBYC538-1-1 | 1 | 12 | 4 | 16 | 4.00 | 8.33 | 3.33 | 40 | 0.83 | 14.72 |
| EXP2E636 | POP31DMR-88-3#-13-1 | 2 | 8 | 3 | 5 | 1.67 | 25.00 | 3.75 | 16.7 | 2.50 | 7.65 |
| EXP2E637 | CM121 | 2 | 5 | 2 | 4 | 2.00 | 40.00 | 4.00 | 20 | 4.00 | 9.33 |
| EXP2E638 | E62FC | 2 | 2 | 1 | 1 | 1.00 | 100.00 | 5.00 | 10 | 10.00 | 8.33 |
| EXP2E639 | HKIPCBT3 | 0 | 1 | 1 | 4 | 4.00 | 0.00 | 10.00 | 40 | 0.00 | 16.67 |
| EXP2E640 | CM111 | 1 | 4 | 1 | 2 | 2.00 | 25.00 | 2.50 | 20 | 2.50 | 8.33 |
| EXP2E641 | P61C1BBB-8 | 1 | 3 | 2 | 4 | 2.00 | 33.33 | 6.67 | 20 | 3.33 | 10.00 |
| EXP2E642 | AEBY1 | 0 | 4 | 1 | 1 | 1.00 | 0.00 | 2.50 | 10 | 0.00 | 4.17 |
| EXP2E643 | S991S1WQETBBB-32 | 3 | 12 | 6 | 14 | 2.33 | 25.00 | 5.00 | 23.3 | 2.50 | 10.27 |
| EXP2E644 | WINPOP21 | 2 | 4 | 0 | 0 | 0.00 | 50.00 | 0.00 | 0 | 5.00 | 1.67 |
| EXP2E645 | SWEETCORN SYNTHETIC | 0 | 7 | 1 | 5 | 5.00 | 0.00 | 1.43 | 50 | 0.00 | 17.14 |
| EXP2E646 | DMRSC1 | 1 | 13 | 5 | 9 | 1.80 | 7.69 | 3.85 | 18 | 0.77 | 7.54 |
| EXP2E647 | CML73 | 0 | 3 | 1 | 1 | 1.00 | 0.00 | 3.33 | 10 | 0.00 | 4.44 |
| EXP2E648 | CML151 | 4 | 7 | 2 | 3 | 1.50 | 57.14 | 2.86 | 15 | 5.71 | 7.86 |
| EXP2E649 | WNZ EXOTIC POOLDC2 | 1 | 6 | 3 | 5 | 1.67 | 16.67 | 5.00 | 16.7 | 1.67 | 7.79 |
| EXP2E650 | WNS | 3 | 12 | 2 | 7 | 3.50 | 25.00 | 1.67 | 35 | 2.50 | 13.06 |
| EXP2E651 | LM13 | 3 | 6 | 4 | 4 | 1.00 | 50.00 | 6.67 | 10 | 5.00 | 7.22 |
| EXP2E652 | P65C6-BBB-23 | 3 | 4 | 2 | 6 | 3.00 | 75.00 | 5.00 | 30 | 7.50 | 14.17 |
| EXP2E653 | CM117-3-4-1 | 0 | 6 | 3 | 8 | 2.67 | 0.00 | 5.00 | 26.7 | 0.00 | 10.57 |
| EXP2E654 | CM502 | 3 | 6 | 4 | 5 | 1.25 | 50.00 | 6.67 | 12.5 | 5.00 | 8.06 |
| EXP2E655 | JCY3-7 | 2 | 6 | 3 | 5 | 1.67 | 33.33 | 5.00 | 16.7 | 3.33 | 8.34 |
| EXP2E656 | JCS2-7 | 2 | 10 | 3 | 8 | 2.67 | 20.00 | 3.00 | 26.7 | 2.00 | 10.57 |
| EXP2E657 | PFSRS2 | 3 | 11 | 4 | 14 | 3.50 | 27.27 | 3.64 | 35 | 2.73 | 13.79 |
| EXP2E658 | PFSR5106/1 | 0 | 4 | 1 | 4 | 4.00 | 0.00 | 2.50 | 40 | 0.00 | 14.17 |
| EXP2E659 | SOS1YQBBB-13 | 0 | 10 | 5 | 13 | 2.60 | 0.00 | 5.00 | 26 | 0.00 | 10.33 |
| EXP2E660 | BML14 | 0 | 6 | 3 | 5 | 1.67 | 0.00 | 5.00 | 16.7 | 0.00 | 7.23 |
| EXP2E661 | CML261 | 0 | 3 | 1 | 1 | 1.00 | 0.00 | 3.33 | 10 | 0.00 | 4.44 |
| EXP2E662 | CLQRCWQ02B-6 | | | | | | | | | | - |
| EXP2E663 | CML281 | 1 | 3 | 1 | 1 | 1.00 | 33.33 | 3.33 | 10 | 3.33 | 5.56 |
| EXP2E664 | CML338 | 0 | 4 | 1 | 1 | 1.00 | 0.00 | 2.50 | 10 | 0.00 | 4.17 |
| EXP2E665 | TZAR106 | 2 | 12 | 9 | 20 | 2.22 | 16.67 | 7.50 | 22.2 | 1.67 | 10.46 |
| EXP2E666 | TZAR101 | 1 | 4 | 1 | 2 | 2.00 | 25.00 | 2.50 | 20 | 2.50 | 8.33 |
| EXP2E667 | CM115 | 0 | 7 | 2 | 2 | 1.00 | 0.00 | 2.86 | 10 | 0.00 | 4.29 |
| EXP2E668 | CM208 | 1 | 1 | 1 | 1 | 1.00 | 100.00 | 10.00 | 10 | 10.00 | 10.00 |
| EXP2E669 | CML41 | 3 | 4 | 3 | 8 | 2.67 | 75.00 | 7.50 | 26.7 | 7.50 | 13.90 |
| EXP2E670 | AEBCYC534-2-1 | 4 | 10 | 3 | 6 | 2.00 | 40.00 | 3.00 | 20 | 4.00 | 9.00 |
| EXP2E671 | BCK/BC8 | 0 | 11 | 5 | 16 | 3.20 | 0.00 | 4.55 | 32 | 0.00 | 12.18 |
| EXP2E672 | AEBY2 | 4 | 11 | 8 | 16 | 2.00 | 36.36 | 7.27 | 20 | 3.64 | 10.30 |

E14

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|----------|----------------------|---|----|----|----|------|--------|-------|------|-------|-------|
| EXP2E673 | AEBCYC534-3-1 | 2 | 4 | 2 | 10 | 5.00 | 50.00 | 5.00 | 50 | 5.00 | 20.00 |
| EXP2E674 | WINPOP8 | 0 | 10 | 5 | 14 | 2.80 | 0.00 | 5.00 | 28 | 0.00 | 11.00 |
| EXP2E675 | CLQRCWQ31-B-6 | 1 | 4 | 1 | 1 | 1.00 | 25.00 | 2.50 | 10 | 2.50 | 5.00 |
| EXP2E676 | CML306 | 1 | 5 | 2 | 5 | 2.50 | 20.00 | 4.00 | 25 | 2.00 | 10.33 |
| EXP2E677 | CML162 | 0 | 12 | 7 | 14 | 2.00 | 0.00 | 5.83 | 20 | 0.00 | 8.61 |
| EXP2E678 | CML49 | 0 | 1 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E679 | CM211 | 1 | 1 | 1 | 2 | 2.00 | 100.00 | 10.00 | 20 | 10.00 | 13.33 |
| EXP2E680 | P3C4S5-33-11-BBBB-2 | 2 | 9 | 4 | 4 | 1.00 | 22.22 | 4.44 | 10 | 2.22 | 5.56 |
| EXP2E681 | HIGHOILQPMC13-BBB-61 | 0 | 1 | 1 | 4 | 4.00 | 0.00 | 10.00 | 40 | 0.00 | 16.67 |
| EXP2E682 | WNZPBTL5 | 3 | 5 | 3 | 6 | 2.00 | 60.00 | 6.00 | 20 | 6.00 | 10.67 |
| EXP2E683 | CM501 | 1 | 14 | 10 | 27 | 2.70 | 7.14 | 7.14 | 27 | 0.71 | 11.62 |
| EXP2E684 | CM123 | 1 | 6 | 1 | 3 | 3.00 | 16.67 | 1.67 | 30 | 1.67 | 11.11 |
| EXP2E685 | HKI1105 | 0 | 1 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E686 | CM142 | 3 | 12 | 4 | 9 | 2.25 | 25.00 | 3.33 | 22.5 | 2.50 | 9.44 |
| EXP2E687 | AEBY2SELECTION | 4 | 4 | 1 | 2 | 2.00 | 100.00 | 2.50 | 20 | 10.00 | 10.83 |
| EXP2E688 | WS2 | 2 | 6 | 2 | 6 | 3.00 | 33.33 | 3.33 | 30 | 3.33 | 12.22 |
| EXP2E689 | CM400 | 1 | 7 | 1 | 1 | 1.00 | 14.29 | 1.43 | 10 | 1.43 | 4.29 |
| EXP2E690 | JCS789CH1 | 0 | 1 | 1 | 2 | 2.00 | 0.00 | 10.00 | 20 | 0.00 | 10.00 |
| EXP2E691 | CML304 | 1 | 3 | 0 | 0 | 0.00 | 33.33 | 0.00 | 0 | 3.33 | 1.11 |
| EXP2E692 | HKI484-5 | 2 | 3 | 1 | 1 | 1.00 | 66.67 | 3.33 | 10 | 6.67 | 6.67 |
| EXP2E693 | CM117 | 0 | 6 | 4 | 8 | 2.00 | 0.00 | 6.67 | 20 | 0.00 | 8.89 |
| EXP2E694 | P69(5869Q)BBB-24 | 2 | 5 | 1 | 4 | 4.00 | 40.00 | 2.00 | 40 | 4.00 | 15.33 |
| EXP2E695 | CM140 | 2 | 2 | 1 | 1 | 1.00 | 100.00 | 5.00 | 10 | 10.00 | 8.33 |
| EXP2E696 | G15QC7-BBB-6-BBB | | | | | | | | | | - |
| EXP2E697 | V351 | 0 | 4 | 1 | 4 | 4.00 | 0.00 | 2.50 | 40 | 0.00 | 14.17 |
| EXP2E698 | HKI1040C2 | 1 | 3 | 1 | 1 | 1.00 | 33.33 | 3.33 | 10 | 3.33 | 5.56 |
| EXP2E699 | CM131 | 1 | 3 | 0 | 0 | 0.00 | 33.33 | 0.00 | 0 | 3.33 | 1.11 |
| EXP2E700 | BML15 | 2 | 8 | 1 | 1 | 1.00 | 25.00 | 1.25 | 10 | 2.50 | 4.58 |
| EXP2E701 | CM130 | 4 | 7 | 2 | 10 | 5.00 | 57.14 | 2.86 | 50 | 5.71 | 19.52 |
| EXP2E702 | BCK/BC2 | 0 | 3 | 1 | 1 | 1.00 | 0.00 | 3.33 | 10 | 0.00 | 4.44 |
| EXP2E703 | HKI170(1+2) | 1 | 16 | 5 | 10 | 2.00 | 6.25 | 3.13 | 20 | 0.63 | 7.92 |
| EXP2E704 | CUBA378 | 0 | 8 | 2 | 4 | 2.00 | 0.00 | 2.50 | 20 | 0.00 | 7.50 |
| EXP2E705 | CML287 | 1 | 2 | 1 | 1 | 1.00 | 50.00 | 5.00 | 10 | 5.00 | 6.67 |
| EXP2E706 | DMSC28 | 0 | 3 | 2 | 3 | 1.50 | 0.00 | 6.67 | 15 | 0.00 | 7.22 |
| EXP2E707 | SOS1WQ-2-BBB-2 | 0 | 5 | 2 | 5 | 2.50 | 0.00 | 4.00 | 25 | 0.00 | 9.67 |
| EXP2E708 | O2POOL33C23 | 1 | 6 | 5 | 15 | 3.00 | 16.67 | 8.33 | 30 | 1.67 | 13.33 |
| EXP2E709 | JCS796CH8 | 0 | 10 | 4 | 9 | 2.25 | 0.00 | 4.00 | 22.5 | 0.00 | 8.83 |
| EXP2E710 | HKI536-7 | 4 | 5 | 1 | 4 | 4.00 | 80.00 | 2.00 | 40 | 8.00 | 16.67 |
| EXP2E711 | JAHNGRAPOP | 2 | 8 | 4 | 20 | 5.00 | 25.00 | 5.00 | 50 | 2.50 | 19.17 |

E15

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|----------|---------------------|---|----|----|----|------|--------|-------|------|-------|-------|
| EXP2E712 | CM119 | 4 | 13 | 11 | 39 | 3.55 | 30.77 | 8.46 | 35.5 | 3.08 | 15.68 |
| EXP2E713 | EC672591 | 0 | 6 | 3 | 5 | 1.67 | 0.00 | 5.00 | 16.7 | 0.00 | 7.23 |
| EXP2E714 | HKI488 EARLY | 2 | 5 | 3 | 11 | 3.67 | 40.00 | 6.00 | 36.7 | 4.00 | 15.57 |
| EXP2E715 | CM125 | 5 | 9 | 1 | 1 | 1.00 | 55.56 | 1.11 | 10 | 5.56 | 5.56 |
| EXP2E716 | WP21 | 3 | 12 | 3 | 10 | 3.33 | 25.00 | 2.50 | 33.3 | 2.50 | 12.77 |
| EXP2E717 | SOS1YQBB26-B | 2 | 7 | 1 | 7 | 7.00 | 28.57 | 1.43 | 70 | 2.86 | 24.76 |
| EXP2E718 | HKI586-1WG33 | 2 | 13 | 8 | 16 | 2.00 | 15.38 | 6.15 | 20 | 1.54 | 9.23 |
| EXP2E719 | CML116 | 1 | 3 | 2 | 3 | 1.50 | 33.33 | 6.67 | 15 | 3.33 | 8.33 |
| EXP2E720 | DMRPP1 | 1 | 7 | 4 | 7 | 1.75 | 14.29 | 5.71 | 17.5 | 1.43 | 8.21 |
| EXP2E721 | HKI577 | 2 | 7 | 2 | 2 | 1.00 | 28.57 | 2.86 | 10 | 2.86 | 5.24 |
| EXP2E722 | CML448 | 3 | 3 | 1 | 1 | 1.00 | 100.00 | 3.33 | 10 | 10.00 | 7.78 |
| EXP2E723 | EC618222 | 2 | 3 | 1 | 1 | 1.00 | 66.67 | 3.33 | 10 | 6.67 | 6.67 |
| EXP2E724 | CML73 | 1 | 3 | 1 | 1 | 1.00 | 33.33 | 3.33 | 10 | 3.33 | 5.56 |
| EXP2E725 | CML305 | 2 | 4 | 1 | 2 | 2.00 | 50.00 | 2.50 | 20 | 5.00 | 9.17 |
| EXP2E726 | HKI1532 | 4 | 8 | 3 | 9 | 3.00 | 50.00 | 3.75 | 30 | 5.00 | 12.92 |
| EXP2E727 | CML371 | 2 | 2 | 2 | 6 | 3.00 | 100.00 | 10.00 | 30 | 10.00 | 16.67 |
| EXP2E728 | CML384X176F3- 100-9 | 1 | 3 | 1 | 3 | 3.00 | 33.33 | 3.33 | 30 | 3.33 | 12.22 |
| EXP2E729 | V335 | 3 | 6 | 2 | 13 | 6.50 | 50.00 | 3.33 | 65 | 5.00 | 24.44 |
| EXP2E730 | HKI163EARLY | 1 | 5 | 4 | 15 | 3.75 | 20.00 | 8.00 | 37.5 | 2.00 | 15.83 |
| EXP2E731 | CML338 | 4 | 5 | 3 | 6 | 2.00 | 80.00 | 6.00 | 20 | 8.00 | 11.33 |
| EXP2E732 | CML312 | | | | | | | | | | - |
| EXP2E733 | HKI326-3 | 0 | 3 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E734 | CML491-B6 | 0 | 6 | 6 | 17 | 2.83 | 0.00 | 10.00 | 28.3 | 0.00 | 12.77 |
| EXP2E735 | P63C2-BBB-17B | | | | | | | | | | - |
| EXP2E736 | CML140 | 4 | 9 | 3 | 4 | 1.33 | 44.44 | 3.33 | 13.3 | 4.44 | 7.03 |
| EXP2E737 | CML212 | 1 | 3 | 1 | 3 | 3.00 | 33.33 | 3.33 | 30 | 3.33 | 12.22 |
| EXP2E738 | CML227 | 1 | 6 | 2 | 9 | 4.50 | 16.67 | 3.33 | 45 | 1.67 | 16.67 |
| EXP2E739 | CLQRCWQ16-B6 | | | | | | | | | | - |
| EXP2E740 | CML288 | 2 | 3 | 2 | 3 | 1.50 | 66.67 | 6.67 | 15 | 6.67 | 9.44 |
| EXP2E741 | CML73 | 5 | 11 | 5 | 12 | 2.40 | 45.45 | 4.55 | 24 | 4.55 | 11.03 |
| EXP2E742 | CML435 | 1 | 2 | 2 | 4 | 2.00 | 50.00 | 10.00 | 20 | 5.00 | 11.67 |
| EXP2E743 | CML335 | 1 | 7 | 1 | 1 | 1.00 | 14.29 | 1.43 | 10 | 1.43 | 4.29 |
| EXP2E744 | CML408 | 1 | 3 | 1 | 1 | 1.00 | 33.33 | 3.33 | 10 | 3.33 | 5.56 |
| EXP2E745 | HKI287 | 0 | 3 | 1 | 1 | 1.00 | 0.00 | 3.33 | 10 | 0.00 | 4.44 |
| EXP2E746 | BML7 | 2 | 2 | 1 | 3 | 3.00 | 100.00 | 5.00 | 30 | 10.00 | 15.00 |
| EXP2E747 | G18QC8-36 | 0 | 1 | 1 | 6 | 6.00 | 0.00 | 10.00 | 60 | 0.00 | 23.33 |
| EXP2E748 | CML282 | 2 | 8 | 4 | 15 | 3.75 | 25.00 | 5.00 | 37.5 | 2.50 | 15.00 |
| EXP2E749 | CML303 | 5 | 6 | 2 | 13 | 6.50 | 83.33 | 3.33 | 65 | 8.33 | 25.56 |
| EXP2E750 | WNZPBTL9 | 1 | 3 | 2 | 2 | 1.00 | 33.33 | 6.67 | 10 | 3.33 | 6.67 |

E16

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|----------|---------------------|---|----|---|----|------|--------|-------|------|-------|-------|
| EXP2E751 | CML376 | 2 | 4 | 1 | 2 | 2.00 | 50.00 | 2.50 | 20 | 5.00 | 9.17 |
| EXP2E752 | CML189 | 3 | 7 | 5 | 13 | 2.60 | 42.86 | 7.14 | 26 | 4.29 | 12.48 |
| EXP2E753 | (CML161/CML165)BBB7 | 5 | 6 | 0 | 0 | 0.00 | 83.33 | 0.00 | 0 | 8.33 | 2.78 |
| EXP2E754 | HKI209 | 2 | 8 | 3 | 4 | 1.33 | 25.00 | 3.75 | 13.3 | 2.50 | 6.52 |
| EXP2E755 | CML317 | 3 | 5 | 4 | 7 | 1.75 | 60.00 | 8.00 | 17.5 | 6.00 | 10.50 |
| EXP2E756 | EC598464 | 0 | 3 | 1 | 1 | 1.00 | 0.00 | 3.33 | 10 | 0.00 | 4.44 |
| EXP2E757 | CML256 | 4 | 4 | 3 | 11 | 3.67 | 100.00 | 7.50 | 36.7 | 10.00 | 18.07 |
| EXP2E758 | CML479 | 2 | 5 | 4 | 12 | 3.00 | 40.00 | 8.00 | 30 | 4.00 | 14.00 |
| EXP2E759 | CML90 | 3 | 3 | 1 | 7 | 7.00 | 100.00 | 3.33 | 70 | 10.00 | 27.78 |
| EXP2E760 | CML494 | 3 | 6 | 2 | 2 | 1.00 | 50.00 | 3.33 | 10 | 5.00 | 6.11 |
| EXP2E761 | HKI2-6-2-4 | 0 | 4 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E762 | EC655779 | 3 | 5 | 2 | 5 | 2.50 | 60.00 | 4.00 | 25 | 6.00 | 11.67 |
| EXP2E763 | CML23 | 0 | 3 | 2 | 3 | 1.50 | 0.00 | 6.67 | 15 | 0.00 | 7.22 |
| EXP2E764 | CML292 | | | | | | | | | | - |
| EXP2E765 | CML50 | 0 | 5 | 3 | 6 | 2.00 | 0.00 | 6.00 | 20 | 0.00 | 8.67 |
| EXP2E766 | CML424 | 1 | 8 | 3 | 5 | 1.67 | 12.50 | 3.75 | 16.7 | 1.25 | 7.23 |
| EXP2E767 | EC614829 | 1 | 13 | 4 | 7 | 1.75 | 7.69 | 3.08 | 17.5 | 0.77 | 7.12 |
| EXP2E768 | CLQRCYQ42 | 0 | 8 | 1 | 0 | 0.00 | 0.00 | 1.25 | 0 | 0.00 | 0.42 |
| EXP2E769 | CML491 | 0 | 5 | 4 | 8 | 2.00 | 0.00 | 8.00 | 20 | 0.00 | 9.33 |
| EXP2E770 | CML402 | 0 | 3 | 1 | 5 | 5.00 | 0.00 | 3.33 | 50 | 0.00 | 17.78 |
| EXP2E771 | CML420 | 1 | 11 | 6 | 8 | 1.33 | 9.09 | 5.45 | 13.3 | 0.91 | 6.55 |
| EXP2E772 | HKI335 | 7 | 8 | 3 | 9 | 3.00 | 87.50 | 3.75 | 30 | 8.75 | 14.17 |
| EXP2E773 | CML12 | 5 | 7 | 2 | 3 | 1.50 | 71.43 | 2.86 | 15 | 7.14 | 8.33 |
| EXP2E774 | CML327 | 4 | 10 | 1 | 2 | 2.00 | 40.00 | 1.00 | 20 | 4.00 | 8.33 |
| EXP2E775 | CML289 | 3 | 4 | 1 | 1 | 1.00 | 75.00 | 2.50 | 10 | 7.50 | 6.67 |
| EXP2E776 | CML451-B6 | 2 | 5 | 2 | 8 | 4.00 | 40.00 | 4.00 | 40 | 4.00 | 16.00 |
| EXP2E777 | CML482 | 3 | 3 | 1 | 4 | 4.00 | 100.00 | 3.33 | 40 | 10.00 | 17.78 |
| EXP2E778 | HYBRID 9415-BBB-4 | 1 | 4 | 2 | 5 | 2.50 | 25.00 | 5.00 | 25 | 2.50 | 10.83 |
| EXP2E779 | CML238 | 2 | 7 | 4 | 13 | 3.25 | 28.57 | 5.71 | 32.5 | 2.86 | 13.69 |
| EXP2E780 | S00TLWQHGBBB35-B | 3 | 7 | 5 | 9 | 1.80 | 42.86 | 7.14 | 18 | 4.29 | 9.81 |
| EXP2E781 | G24QC19BBB-4 | 2 | 8 | 5 | 25 | 5.00 | 25.00 | 6.25 | 50 | 2.50 | 19.58 |
| EXP2E782 | CML187B | 2 | 4 | 1 | 1 | 1.00 | 50.00 | 2.50 | 10 | 5.00 | 5.83 |
| EXP2E783 | G31QC2BB23 | 3 | 6 | 1 | 3 | 3.00 | 50.00 | 1.67 | 30 | 5.00 | 12.22 |
| EXP2E784 | CML481 | 0 | 3 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E785 | CML290 | 1 | 6 | 1 | 4 | 4.00 | 16.67 | 1.67 | 40 | 1.67 | 14.44 |
| EXP2E786 | CML411 | 2 | 6 | 3 | 5 | 1.67 | 33.33 | 5.00 | 16.7 | 3.33 | 8.34 |
| EXP2E787 | CML120 | 1 | 1 | 1 | 1 | 1.00 | 100.00 | 10.00 | 10 | 10.00 | 10.00 |
| EXP2E788 | HKI209 | 1 | 12 | 4 | 9 | 2.25 | 8.33 | 3.33 | 22.5 | 0.83 | 8.89 |
| EXP2E789 | CML344BB | 1 | 3 | 2 | 2 | 1.00 | 33.33 | 6.67 | 10 | 3.33 | 6.67 |

E17

| | | | | | | | | | | | |
|------------------------------------|----------------------|----------------------------|----|---|--------------------------------------|------|-------|------|-------------------------------|------|-------|
| EXP2E790 | CML111BBB | 1 | 7 | 0 | 0 | 0.00 | 14.29 | 0.00 | 0 | 1.43 | 0.48 |
| EXP2E791 | S87P66Q-BBB-30 | 0 | 9 | 3 | 7 | 2.33 | 0.00 | 3.33 | 23.3 | 0.00 | 8.88 |
| EXP2E792 | LTP1 | 1 | 9 | 2 | 2 | 1.00 | 11.11 | 2.22 | 10 | 1.11 | 4.44 |
| EXP2E793 | CML114 | 2 | 6 | 3 | 8 | 2.67 | 33.33 | 5.00 | 26.7 | 3.33 | 11.68 |
| EXP2E794 | DMRN7CH7 | 2 | 4 | 1 | 1 | 1.00 | 50.00 | 2.50 | 10 | 5.00 | 5.83 |
| EXP2E795 | CLQ6310 | 2 | 5 | 2 | 3 | 1.50 | 40.00 | 4.00 | 15 | 4.00 | 7.67 |
| EXP2E796 | G33QC20-BBB-37 | 1 | 9 | 1 | 2 | 2.00 | 11.11 | 1.11 | 20 | 1.11 | 7.41 |
| EXP2E797 | HKISCSTPINK | 4 | 5 | 0 | 0 | 0.00 | 80.00 | 0.00 | 0 | 8.00 | 2.67 |
| EXP2E798 | HKI1831 | 0 | 2 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E799 | COMPMODBCOBBB-48 | 4 | 12 | 3 | 3 | 1.00 | 33.33 | 2.50 | 10 | 3.33 | 5.28 |
| EXP2E800 | CML336 | | | | 0 | | | | | | - |
| EXP2E801 | CML18 | | | | 0 | | | | | | - |
| EXP2E802 | EC440414 | 0 | 4 | 1 | 2 | 2.00 | 0.00 | 2.50 | 20 | 0.00 | 7.50 |
| EXP2E803 | CML298 | 0 | 2 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E804 | P70C0BBB-5 | 1 | 2 | 1 | 2 | 2.00 | 50.00 | 5.00 | 20 | 5.00 | 10.00 |
| EXP2E805 | CML55BB | 0 | 1 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E806 | CML485BBB | 0 | 6 | 1 | 1 | 1.00 | 0.00 | 1.67 | 10 | 0.00 | 3.89 |
| EXP2E807 | CLQRCY47B6 | 0 | 3 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| EXP2E808 | CML249 | 1 | 7 | 2 | 7 | 3.50 | 14.29 | 2.86 | 35 | 1.43 | 13.10 |
| EXP2E809 | CML423 | 1 | 6 | 0 | 0 | 0.00 | 16.67 | 0.00 | 0 | 1.67 | 0.56 |
| EXP2E810 | CML165BBB | 3 | 8 | 3 | 4 | 1.33 | 37.50 | 3.75 | 13.3 | 3.75 | 6.93 |
| EXP2E811 | HKI 586 | 3 | 11 | 2 | 2 | 1.00 | 27.27 | 1.82 | 10 | 2.73 | 4.85 |
| EXP2E812 | P390AM/CMLC4F230-B-2 | 1 | 11 | 4 | 4 | 1.00 | 9.09 | 3.64 | 10 | 0.91 | 4.85 |
| Mean Susceptibility index \pm SD | | Least susceptible(LS) <3.7 | | | Moderately susceptible (MS) 3.7-16.0 | | | | Highly susceptible (HS) = >16 | | |
| 9.81 \pm 6.15 | | 21 | | | 157 | | | | 24 | | |

MET 3: Evaluation of insecticides against *Chilo partellus***DELH**

Date of sowing=6.7.13

Date of germination=14.7.13

Sub treatment I: Spray of insecticide on 24.7.13, two days before infestation

Sub treatment II: Spray of insecticide on 3.8.13, two days after infestation

Table 9: Effect of insecticides on leaf Injury Rating at 25 DAI and Yield

| Treatment | Insecticide | Dose | Av. LIR* | Av. Yield (t/ha) |
|--|--------------------------|---------|--------------------|------------------|
| Sub Treatment I (spray of insecticide 2 days before artificial infestation) | | | | |
| 1 | Deltamethrin 2.8EC | 0.4mL/L | 4.21 ^b | 2.42 |
| 2 | Chlorantaniliprole 20 SC | 0.4mL/L | 2.77 ^{ab} | 2.55 |
| 3 | Thiodicarb 75WP | 1.25g/L | 3.07 ^{ab} | 3.31 |
| 4 | Novaluron 10EC | 1mL/L | 3.10 ^{ab} | 2.49 |
| 5 | Flubendiamide 480 SC | 0.1mL/L | 1.69 ^a | 2.93 |
| 6 | Carbaryl 50WP | 2.5g/L | 3.78 ^b | 3.92 |
| 7 | Quinalphos 25EC | 2.5mL/L | 3.08 ^{ab} | 3.02 |
| 8 | Control (Water) | | 3.53 ^b | 3.74 |
| | | | | NS |
| Sub Treatment II (spray of insecticide 2 days after artificial infestation) | | | | |
| 1 | Deltamethrin 2.8EC | 0.4mL/L | 1.00 | 3.36 |
| 2 | Chlorantaniliprole 20 SC | 0.4mL/L | 2.12 | 2.12 |
| 3 | Thiodicarb 75WP | 1.25g/L | 1.37 | 1.37 |
| 4 | Novaluron 10EC | 1mL/L | 1.55 | 1.55 |
| 5 | Flubendiamide 480 SC | 0.1mL/L | 1.78 | 1.78 |
| 6 | Carbaryl 50WP | 2.5g/L | 1.57 | 1.57 |
| 7 | Quinalphos 25EC | 2.5mL/L | 1.67 | 1.67 |
| 8 | Control (Water) | | 2.45 | 2.45 |
| | | | NS | NS |

* Mean of three replications

KARN**Date of sowing and germination:**

Date of sowing=17.7.2013

Date

of

germination=20.7.2013

Sub treatment I Spray of insecticide on 29.7.2013 two days before infestation

Sub treatment II Spray of insecticide on 02.8.2013 two days after infestation

Table 10: Effect of insecticide on percentage of plant damaged and dead hearts

| Sr. No. | Chemical name | Dose/lit of water | Damage (%) | Dead Hearts (%) |
|---------|--------------------------|-------------------|----------------------|--------------------|
| 1 | Deltamethrin 2.8EC | 0.4mL/L | 15.17 ^a | 7.17 ^a |
| 2 | Chlorantaniliprole 20 SC | 0.4mL/L | 12.03 ^a | 12.07 ^a |
| 3 | Thiodicarb 75WP | 1.25g/L | 28.50 ^{abc} | 13.03 ^a |
| 4 | Novaluron 10EC | 1mL/L | 65.60 ^c | 17.27 ^a |
| 5 | Flubendiamide 480 SC | 0.1mL/L | 23.53 ^{ab} | 11.35 ^a |
| 6 | Carbaryl 50WP | 2.5g/L | 18.60 ^a | 10.60 ^a |
| 7 | Quinalphos 25EC | 2.5mL/L | 33.77 ^{abc} | 12.00 ^a |
| 8 | Control (Water) | | 62.23 ^{bc} | 40.63 ^b |

No any leaf injury to plant was observed as there was rainfall during the spraying of insecticides and release of egg mass.

HYDE

Date of sowing: 20.08.2013

Sub treatment I: Spray of insecticide on 10.9.2013, two days before infestation

Sub treatment II: Spray of insecticide on 14.9.2013, two days after infestation

Table 11: Effect of insecticides on Leaf Injury Rating at 25 DAI and Yield

| S. No | Insecticide | Dose | Mean LIR | |
|-------|--------------------------|---------|--------------------|-------------------|
| | | | Before infestation | After infestation |
| 1 | Deltamethrin 2.8EC | 0.4mL/L | 2.52 | 2.45 |
| 2 | Chlorantaniliprole 20 SC | 0.4mL/L | 2.51 | 2.30 |
| 3 | Thiodicarb 75WP | 1.25g/L | 2.72 | 3.15 |
| 4 | Novaluron 10EC | 1mL/L | 2.51 | 2.41 |
| 5 | Flubendiamide 480 SC | 0.1mL/L | 2.15 | 2.29 |
| 6 | Carbaryl 50WP | 2.5g/L | 2.83 | 3.21 |
| 7 | Quinalphos 25EC | 2.5mL/L | 2.96 | 3.32 |
| 8 | Control (Water) | | 3.00 | 3.78 |

LUDH**Experimental detail**

Variety : PMH 2
 Plot size : 4 rows of 3m
 Replications : 3

Date of sowing: 12.08.2013 (for before infestation); 10.08.2013 (for after infestation)

Table 12: Effect of insecticides on number of plants infested, leaf injury rating and yield

a: Spray of insecticides two days before infestation

| Treatment | Dose | Mean number of infested plants | Mean LIR* | Yield (q/ha) |
|--------------------------|---------|--------------------------------|-----------|--------------|
| Deltamethrin 2.8EC | 0.4mL/L | 14.66 | 2.12 | 5.99 |
| Chlorantaniliprole 20 SC | 0.4mL/L | 11.33 | 1.92 | 6.11 |
| Thiodicarb 75WP | 1.25g/L | 7.66 | 1.55 | 6.23 |
| Novaluron 10EC | 1mL/L | 15.00 | 2.43 | 6.18 |
| Flubendiamide 480 SC | 0.1mL/L | 13.66 | 2.03 | 6.13 |
| Carbaryl 50WP | 2.5g/L | 13.66 | 2.01 | 6.06 |
| Quinalphos 25EC | 2.5mL/L | 16.66 | 2.10 | 5.74 |
| Control (Water) | | 20.00 | 4.45 | 5.59 |

* 20 plants in 2 central rows were infested in each of the replication

** Number based on artificial infested plants

b: Spray of insecticide two days after infestation

| Treatment | Dose | Mean number of infested plants | Mean LIR* | Yield (q/ha) |
|--------------------------|---------|--------------------------------|-----------|--------------|
| Deltamethrin 2.8EC | 0.4mL/L | 4.33 | 1.32 | 6.25 |
| Chlorantaniliprole 20 SC | 0.4mL/L | 4.33 | 1.30 | 6.4 |
| Thiodicarb 75WP | 1.25g/L | 4.00 | 1.47 | 6.48 |
| Novaluron 10EC | 1mL/L | 4.66 | 1.45 | 6.19 |
| Flubendiamide 480 SC | 0.1mL/L | 2.66 | 1.28 | 6.25 |
| Carbaryl 50WP | 2.5g/L | 3.66 | 1.25 | 6.66 |
| Quinalphos 25EC | 2.5mL/L | 5.33 | 1.60 | 6.43 |
| Control (Water) | | 20.00 | 4.65 | 5.92 |

MET 4: Evaluation of biocontrol agents

DELH

Chilo eggs were exposed in the maize fields. They were brought to laboratory and observed for parasite emergence

Table 13: Evaluation of natural parasitization of eggs of *Chilo partellus*

| DAG | Date of exposure of eggs | Date of collection | No. of parasitoids emerged |
|-----|--------------------------|--------------------|----------------------------|
| 10 | 28.8.13 | 29.8.13 | 0 |
| 20 | 20.8.13 | 21.8.13 | 0 |
| 30 | 19.8.13 | 21.8.13 | 0 |
| 37 | 19.8.13 | 21.8.13 | 0 |
| 46 | 28.8.13 | 29.8.13 | 0 |
| 50 | 31.8.13 | 2.9.13 | 0 |

Table 14: Evaluation of natural parasitization of *Chilo partellus* larvae

| DAG | No. of plants sampled | No. of larvae recovered | No. of larvae parasitized | Name of the parasitoid | No. of parasitoids | % incidence of parasitization |
|-----|-----------------------|-------------------------|---------------------------|------------------------|--------------------|-------------------------------|
| 40 | 8 | 0 | 0 | - | 0 | 0 |
| 50 | 20 | 7 | 2 | <i>Cotesia</i> | 138 | 28.57 |
| 60 | 15 | 1 | 1 | -do- | 17 | 100 |
| 70 | 9 | 0 | 0 | - | 0 | 0 |

HYDE**Table 15: Evaluation of Bio-control agents in the field**

| DAG | Egg parasitization (%) | No. of larvae recovered from 20 plants | Larval parasitization |
|-----|------------------------|--|-----------------------|
| 10 | 0.00 | - | - |
| 20 | 1.66 | - | - |
| 30 | 0.95 | 2 | - |
| 40 | 0.00 | 18 | 5.86 |
| 50 | 0.00 | 32 | - |

KOLH**Evaluation of Bio-control agents in the field****Table 16: Eggs and larval parasitism in maize field**

DOS: 11/07/2013

DOG: 17/07/2013

| Egg parasitism | DAG | Date of Egg exposed | Date of eggs collected | % parasitization |
|----------------|-----|---------------------|------------------------|------------------|
| | 10 | 26/07/2013 | 27/07/2013 | 0.00 |
| | 20 | 05/08/2013 | 06/08/2013 | 0.00 |
| | 30 | 15/08/2013 | 16/08/2013 | 0.00 |
| | 40 | 25/08/2013 | 26/08/2013 | 0.00 |
| | 50 | 04/09/2013 | 05/09/2013 | 0.00 |
| | 60 | 14/09/2013 | 15/09/2013 | 0.00 |

| Larval parasitism | DAG | Date of dissection of plants | No. of larvae recovered from 20 plants | % parasitization |
|-------------------|-----|------------------------------|--|------------------|
| | 40 | 27/08/2013 | 09 | 0.00 |
| | 50 | 04/09/2013 | 38 | 0.00 |
| | 60 | 14/09/2013 | 23 | 8.70 |

LUDH**Table 17: Prevalence of Biocontrol agents of *C. partellus* in the field****a: Egg parasitoid**

| | DAG | Date of Egg masses exposed | Date of collection of eggs from field | Percent parasitization of eggs | Remarks |
|---|-----|----------------------------|---------------------------------------|--------------------------------|---|
| Egg parasitism of <i>C. partellus</i> (egg mass on paper/ plant were exposed) | 10 | 17/07/13 | 19/07/13 | - | Eggs laid on butter paper were used |
| | 20 | - | - | - | |
| | 30 | 5/08/13 | 7/08/13 | - | Eggs were obtained on plants in rearing cages |
| | 40 | 14/08/13 | 16/08/13 | - | |
| Egg parasitism of <i>Corcyra</i> eggs; 10 Strips of <i>Corcyra</i> eggs (1000 eggs) | 16 | 23/07/13 | 25/07/13 | 13.3 | Eggs were pasted on paper |
| | 30 | 5/08/13 | 7/08/13 | 9.9 | |
| | 45 | 19/08/13 | 21/08/13 | 10.1 | |
| | 60 | 2/09/13 | 4/09/13 | 35.9 | |
| | 68 | 10/09/13 | 12/09/13 | 7.5 | |

b: Larval parasitoid

| Sampling area | Days after Germination | No. of larvae recovered from 20 plants | Percentage of larvae parasitized | Remarks |
|----------------------------|------------------------|--|----------------------------------|---|
| Full season maturity field | 40 | 21 | Nil | No parasitoid were observed after rearing them in lab |
| | 50 | 12 | Nil | |
| | 60 | - | - | |
| | 70 | - | - | |
| Inbred lines | 40 | 30 | Nil | |
| | 50 | 14 | Nil | |

UDAI**Table 18 a: Evaluation of egg parasitization in maize field**

| Plot No. | Mean No. of eggs/plot | Mean No. of <i>Trichogramma</i> emerged | % parasitization |
|----------|-----------------------|---|------------------|
| 1 | 212.33 | 106.00 | 49.92 |
| 2 | 217.00 | 120.00 | 55.30 |
| 3 | 242.67 | 115.67 | 47.66 |
| 4 | 263.00 | 136.00 | 51.71 |

Table 18b: Evaluation of larval parasitization in maize field

| Days | No. of larvae collected | Parasitized larvae | Unparasitized larvae | % Parasitization | Cocoon recovered | Sex ratio male / female |
|------|-------------------------|--------------------|----------------------|------------------|------------------|-------------------------|
| 30 | 20 | 4 | 16 | 20 | 54 | 01:01.0 |
| 40 | 20 | 9 | 11 | 45 | 63 | 01:01.1 |
| 50 | 20 | 5 | 15 | 25 | 46 | 01:01.1 |
| 60 | 20 | 7 | 13 | 35 | 62 | 01:01.1 |

Table 19: Template used for Crop loss assessment

| LIR | Yield | Loss | % loss | Frequency | C.Loss |
|---------------------------|--------|--------|--------|-----------|----------------|
| 1 | 148.99 | 0.00 | 0.00 | 76 | 0.00 |
| 2 | 136.89 | 12.10 | 8.12 | 17 | 138.06 |
| 3 | 120.47 | 28.51 | 19.14 | 15 | 287.13 |
| 4 | 105.06 | 43.92 | 29.49 | 10 | 294.85 |
| 5 | 92.79 | 56.19 | 37.72 | 9 | 339.49 |
| 6 | 71.05 | 77.94 | 52.31 | 7 | 366.19 |
| 7 | 58.16 | 90.83 | 60.96 | 13 | 792.53 |
| 8 | 25.70 | 123.29 | 82.75 | 22 | 1820.51 |
| 9 | 0.00 | 148.99 | 100.00 | 31 | 3100.00 |
| | | | | 200 | 7138.76 |
| %loss | | | | | 35.69 |
| Yield of cultivar (kg/ha) | | | | | 6200.00 |
| Estimated loss (kg) | | | | | 2213.02 |
| Expected yield | | | | | 3986.98 |
| Price of maize (Rs./kg) | | | | | 12.00 |
| Economic loss | | | | | 26556.19 |
| Actual yield (kg/ha) | | | | | 3126.60 |

Table 20: Crop loss assessment due to *Chilo partellus* and other factors

| Plot No. | Leaf Injury Rating (LIR) | | | | | | | | | Sample size | Realized yield (kg/ha) | Potential yield (Kg/ha) | Total Loss (%) | Loss Due to Chilo (%) | Loss Due to factors other than chilo (%) | Economic loss (@ Rs.14/kg) |
|------------------|--------------------------|----|----|----|----|---|----|----|----|-------------|------------------------|-------------------------|----------------|-----------------------|--|----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | |
| IPFT GURG | | | | | | | | | | | | | | | | |
| 1 | 76 | 17 | 15 | 10 | 9 | 7 | 13 | 22 | 31 | 200 | 3127 | 6200 | 49.56 | 35.69 | 13.87 | 30979 |
| 2 | 80 | 33 | 10 | 6 | 12 | 5 | 13 | 15 | 26 | 200 | 3824 | 6200 | 38.32 | 29.92 | 8.40 | 25971 |
| 3 | 130 | 30 | 7 | 4 | 4 | 5 | 12 | 6 | 2 | 200 | 5099 | 6200 | 17.76 | 11.68 | 6.08 | 10138 |
| 4 | 105 | 29 | 11 | 8 | 8 | 9 | 9 | 14 | 7 | 200 | 4618 | 6200 | 25.52 | 19.31 | 6.21 | 16761 |
| 5 | 108 | 27 | 18 | 8 | 5 | 3 | 13 | 14 | 4 | 200 | 3475 | 6200 | 43.95 | 17.48 | 26.47 | 15173 |
| 6 | 133 | 31 | 9 | 4 | 7 | 5 | 3 | 5 | 3 | 200 | 4113 | 6200 | 33.66 | 9.82 | 23.84 | 8524 |
| 7 | 136 | 27 | 7 | 6 | 5 | 6 | 0 | 9 | 4 | 200 | 3872 | 6200 | 37.55 | 10.89 | 26.66 | 9453 |
| 8 | 132 | 19 | 8 | 4 | 4 | 1 | 4 | 13 | 15 | 200 | 4461 | 6200 | 28.05 | 17.24 | 10.81 | 14964 |
| 9 | 112 | 30 | 9 | 14 | 3 | 4 | 6 | 10 | 12 | 200 | 4221 | 6200 | 31.92 | 17.72 | 14.20 | 15381 |
| 10 | 142 | 26 | 4 | 8 | 6 | 0 | 2 | 7 | 5 | 200 | 4858 | 6200 | 21.65 | 9.76 | 11.89 | 8472 |
| 11 | 127 | 47 | 14 | 1 | 1 | 4 | 1 | 5 | 0 | 200 | 4016 | 6200 | 35.23 | 7.00 | 28.23 | 6076 |
| 12 | 126 | 19 | 18 | 7 | 7 | 4 | 2 | 5 | 12 | 200 | 4514 | 6200 | 27.19 | 14.57 | 12.62 | 12647 |
| 13 | 116 | 48 | 24 | 3 | 3 | 1 | 2 | 1 | 2 | 200 | 4282 | 6200 | 30.94 | 7.54 | 23.40 | 6545 |
| 14 | 124 | 16 | 11 | 11 | 4 | 3 | 4 | 12 | 15 | 200 | 3856 | 6200 | 37.81 | 18.55 | 19.26 | 16101 |
| 15 | 142 | 13 | 14 | 6 | 2 | 1 | 0 | 12 | 10 | 200 | 4167 | 6200 | 32.79 | 13.36 | 19.43 | 11596 |
| LUDH | | | | | | | | | | | | | | | | |
| 16 | 160 | 6 | 2 | 2 | 0 | 4 | 10 | 4 | 12 | 200 | 2125 | 3125 | 32.00 | 12.48 | 19.52 | 5460 |
| 17 | 144 | 15 | 2 | 2 | 4 | 5 | 8 | 5 | 15 | 200 | 1907 | 5250 | 63.68 | 15.16 | 48.51 | 11146 |
| 18 | 122 | 12 | 7 | 3 | 5 | 4 | 7 | 10 | 30 | 200 | 1875 | 5250 | 64.29 | 24.86 | 39.43 | 18272 |
| 19 | 162 | 8 | 4 | 3 | 3 | 4 | 4 | 5 | 7 | 200 | 2125 | 5250 | 59.52 | 9.55 | 49.97 | 7019 |
| 20 | 149 | 10 | 5 | 4 | 6 | 3 | 6 | 5 | 12 | 200 | 2750 | 5250 | 47.62 | 13.29 | 34.33 | 9767 |
| HYDE | | | | | | | | | | | | | | | | |
| 21 | 23 | 19 | 7 | 10 | 9 | 8 | 4 | 2 | 18 | 200 | 2000 | 7500 | 73.33 | 35.50 | 37.83 | 37275 |

Mean (%) Total loss= 39.64 Loss due to *Chilo* Loss due to factors other than *Chilo*

BIOCHEMISTRY

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Biochemistry

Improving nutritional quality in cereal crops is particularly important as the benefits can easily spread to hundreds of millions of people in a most rapid and effective manner without changing the traditional food habits. Maize is a major cereal crop for both livestock feed and human nutrition, worldwide. It provides carbohydrates, protein, fat, minerals and vitamins to the consumers. The major nutritional component of the maize kernel is starch, which occupies approximately 70 percent of the kernel weight. It is mainly present in the kernel endosperm. The starch in maize is made up of two glucose polymers: amylose, an essentially linear molecule, and amylopectin, a branched form. In normal maize, amylose makes up 25 to 30 percent of the starch and amylopectin makes up 70 to 75 percent. Waxy maize contains a starch that is 100 percent amylopectin. An endosperm mutant called amylose-extender (ae) induces an increase in the amylose proportion of the starch to 50 percent and higher. Other carbohydrates present in maize kernel are simple sugars and complex carbohydrates. Simple sugars are present in the germ as well as endosperm and comprised of glucose, sucrose and fructose in quantities ranging from 1 to 6 percent of the kernel weight. Complex carbohydrate content of the maize kernel comes from the pericarp and the tip cap, although it is also provided by the endosperm cell walls and to a smaller extent the germ cell walls. It is composed of hemicellulose ($\approx 75\%$), cellulose ($\approx 25\%$) and negligible concentrations of lignin. Protein is the second largest and very important component of maize kernel. It is mainly found in the endosperm, followed by germ to a lesser extent. The protein quality of normal maize endosperm is poor as it is lacking in two essential amino acids such as tryptophan and lysine. In the QPM development programme, the analysis of maize endosperm for protein quality is, therefore, of paramount importance. The oil content of maize kernel comes mainly from the germ, although very small concentrations are also contributed by the endosperm. The oil content in normal maize ranges from 2 - 6 per cent, whereas high oil maize provides more than 6 per cent of oil. It also contains natural antioxidants such as vitamin E which is highly beneficial for use in human nutrition. Maize is rich in a number of carotenoids such as beta-carotene, zeaxanthene, lutein, cryptoxanthin which have highly diverse health benefits.

The Biochemistry laboratory of DMR facilitates the biochemical analysis of maize germplasm received from various maize centres of the coordinating unit and SAUs. The laboratory is well equipped with state of the art instruments such as Ultra Performance Liquid Chromatography (UPLC), automated geltech, automatic solvent extractor system, vacuum concentrator, lypholyzer, NIRT, double beam spectrophotometer, fermenter, alcohol distillation system, polarimeter, etc. The laboratory meets the requirement for analysis of various biochemical parameters such as protein quality (protein, tryptophan and lysine), carbohydrate profile (starch, sugar, amylose and amylopectin), oil, carotenoids etc. across India.

During the period of 2013–2014 a large number of samples received were analyzed for various quality parameters viz. protein, tryptophan, lysine, oil, sugar, starch, carotenoids, β -carotene etc. A total of 418 samples were analyzed for protein quality (protein, tryptophan and lysine), 191 for sugar, 221 for starch, 268 for oil content and 30 for starch profile i.e. amylose and amylopectin.

1. EVALUATION OF QPM GENOTYPES RECEIVED UNDER AICRP PROJECT

Samples received from different centres under coordinated QPM breeding programme were analyzed for protein quality viz: protein (PRO), tryptophan (TRY) and Lysine (LYS). In this programme samples were received from Ludhiana, Arbhavi and Varanasi and analyzed for protein quality (Table 1.1). The kernels were screened on the basis of opaqueness to select the representative sample. Out crossed as well as non uniform grains were discarded. The endosperm was separated, defatted and processed for protein quality. The lysine and tryptophan were expressed as percentage of endosperm protein. Variability for protein quality has been observed amongst different centres. The variability may be the result of human errors in the form of out crossing during selfing or the mechanical mixture.

Table 1.1: Protein quality of maize genotypes received under coordinated QPM breeding programme

| LUDHIANA | | | | |
|----------|-----------------|-------------|---------|---------|
| S. No. | GENOTYPE | PROTEIN (%) | TRY (%) | LYS (%) |
| 1 | EHQ-63 | 9.20 | 0.42 | 1.73 |
| 2 | EHQ-64 | 9.17 | 0.50 | 1.93 |
| 3 | VEHQ 11-1 | 9.00 | 0.64 | 2.85 |
| 4 | JH(QPM) 3 | 9.55 | 0.36 | 1.49 |
| 5 | MMH QPM-6-12-13 | 9.19 | 0.35 | 1.46 |
| 6 | VEHQ-3020 | 8.14 | 0.64 | 2.84 |
| 7 | HQPM 1(C) | 8.22 | 0.66 | 2.92 |
| 8 | HQPM 5(C) | 8.04 | 0.67 | 2.77 |
| 9 | HQPM 7(C) | 7.88 | 0.67 | 2.79 |
| 10 | VIVEK QPM 9(C) | 8.74 | 0.40 | 1.69 |
| ARBHAVI | | | | |
| S. No. | GENOTYPE | PROTEIN (%) | TRY (%) | LYS (%) |
| 1 | EHQ-63 | 8.40 | 0.35 | 1.48 |
| 2 | EHQ-64 | 8.40 | 0.64 | 2.68 |
| 3 | VEHQ 11-1 | 7.57 | 0.64 | 2.64 |
| 4 | JH(QPM) 3 | 9.53 | 0.35 | 1.48 |
| 5 | MMH QPM-6-12-13 | 8.20 | 0.38 | 1.59 |
| 6 | VEHQ-3020 | 7.63 | 0.63 | 2.72 |
| 7 | HQPM 1(C) | 9.1 | 0.65 | 2.93 |
| 8 | HQPM 5(C) | 7.70 | 0.44 | 1.85 |
| 9 | HQPM 7(C) | 7.63 | 0.62 | 2.59 |
| 10 | VIVEK QPM 9(C) | 7.08 | 0.36 | 1.51 |
| VARANASI | | | | |
| S. No. | GENOTYPE | PROTEIN (%) | TRY (%) | LYS (%) |
| 1 | EHQ-63 | 8.89 | 0.32 | 1.36 |
| 2 | EHQ-64 | 8.12 | 0.61 | 2.54 |
| 3 | VEHQ 11-1 | 8.52 | 0.61 | 2.55 |
| 4 | JH(QPM) 3 | 9.75 | 0.42 | 1.77 |
| 5 | MMH QPM-6-12-13 | 9.35 | 0.39 | 1.63 |
| 6 | VEHQ-3020 | 8.88 | 0.61 | 2.55 |
| 7 | HQPM 1(C) | 8.55 | 0.62 | 2.6 |
| 8 | HQPM 5(C) | 8.45 | 0.65 | 1.72 |
| 9 | HQPM 7(C) | 8.47 | 0.72 | 2.97 |
| 10 | VIVEK QPM 9 (C) | 7.67 | 0.61 | 2.81 |

2. EVALUATION OF MAIZE GERMPLASM FOR PROTEIN QUALITY RECEIVED FROM DMR, DELHI CENTER

In the first set of experiment a total of 175 inbred lines received from DMR Delhi Center were analyzed for protein quality (Table 2.1). The kernels were screened on the basis of opaqueness to select the representative sample. Out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. The range of protein was 6.51 to 13.60 per cent with lowest and highest values being exhibited by the genotypes CL-QRCYQ-47-2 and BGS 155, respectively. The range of tryptophan was 0.37 {HKI 34 (1+2) -1-2} to 0.92 {CML 451 Q} per cent, and lysine content ranges from 1.47 {HKI 34 (1+2)-1-2) to 4.31 {DQL-621-3) per cent of endosperm protein.

Table 2.1: Evaluation of maize germplasm for protein quality

| S.NO | PEDIGREE | PROTEIN (%) | TRY (%) | LYS (%) | SP.GR. | 100 K. WT. |
|------|---------------------|-------------|---------|---------|--------|------------|
| 1. | CML 167 | 10.28 | 0.46 | 1.95 | 1.13 | 16.90 |
| 2. | CML 451Q | 9.07 | 0.94 | 4.21 | -- | -- |
| 3. | CML 186 | 9.85 | 0.74 | 3.41 | -- | -- |
| 4. | CML 154-2 | 9.33 | 0.42 | 1.85 | 1.18 | 27.10 |
| 5. | CML 165-2 | 9.06 | 0.60 | 2.64 | 1.10 | 16.50 |
| 6. | CML 153 | 7.84 | 0.62 | 2.54 | 1.12 | 14.60 |
| 7. | CML 176 | 10.07 | 0.49 | 2.06 | 1.19 | 16.70 |
| 8. | CML 158 | 9.48 | 0.53 | 2.09 | 1.15 | 27.10 |
| 9. | CML 165 | 9.66 | 0.63 | 2.71 | 1.20 | 14.95 |
| 10. | HKI 161 | 8.93 | 0.72 | 3.33 | 1.14 | 21.44 |
| 11. | HKI 162 | 8.50 | 0.52 | 1.89 | -- | -- |
| 12. | HKI 162-2-3 | 11.17 | 0.42 | 1.85 | 1.17 | 18.70 |
| 13. | HKI 162-2-2-3 | 10.00 | 0.62 | 2.66 | 1.12 | 15.70 |
| 14. | HKI 163 | 8.85 | 0.76 | 3.12 | -- | -- |
| 15. | HKI 164-4(1-3)-1 | 11.48 | 0.60 | 2.67 | -- | -- |
| 16. | HKI 164-4 (1-3)-2-2 | 8.89 | 0.62 | 2.53 | -- | -- |
| 17. | HKI 164-4 (1-3)-2 | 11.23 | 0.55 | 2.41 | -- | -- |
| 18. | HKI 164-7-6X161-2-2 | 11.32 | 0.62 | 2.71 | 1.15 | 21.80 |
| 19. | HKI 164-7-4-ER-3-3 | 9.49 | 0.61 | 2.55 | -- | -- |
| 20. | HKI 34 (1+2)-1 | 12.62 | 0.55 | 2.27 | -- | -- |
| 21. | HKI 26-2-4 (1-2) | 10.27 | 0.48 | 2.10 | 1.18 | 13.00 |
| 22. | HKI 31-2 | 11.25 | 0.42 | 1.91 | 1.20 | 27.70 |
| 23. | HKI 193-1 | 10.68 | 0.45 | 1.86 | 1.20 | 18.00 |
| 24. | HKI 193-2ER-1T | 11.35 | 0.69 | 2.84 | -- | -- |
| 25. | HKI 193-2-2-4-2 | 7.79 | 0.70 | 3.42 | 1.12 | 24.60 |
| 26. | HKI 3-4-8-6-ER | 8.94 | 0.50 | 2.22 | 1.18 | 28.30 |
| 27. | HKI 34 (1+2)-1-2 | 13.34 | 0.37 | 1.47 | 1.16 | 12.15 |
| 28. | HKI 5072-2-BT | 9.87 | 0.72 | 3.24 | 1.13 | 17.00 |
| 29. | DMR QPM -58 | 11.46 | 0.63 | 2.88 | 1.15 | 21.90 |
| 30. | DMR QPM -03-113 | 9.76 | 0.68 | 3.14 | 1.11 | 16.70 |
| 31. | DMR QPM-03-104-1 | 6.78 | 0.74 | 3.73 | 1.19 | 22.70 |

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|-----|-----------------|-------|------|------|------|-------|
| 32. | DMR QPM -03-124 | 10.34 | 0.62 | 2.66 | 1.11 | 16.70 |
| 33. | CL-QRCYQ-47-2 | 6.51 | 0.70 | 3.44 | 1.24 | 17.30 |
| 34. | CL-QRCYQ-30 | 7.62 | 0.60 | 2.52 | 1.13 | 24.80 |
| 35. | CL-QRCYQ-41 | 8.22 | 0.51 | 2.40 | 1.14 | 17.10 |
| 36. | HM-9 | 9.16 | 0.61 | 2.67 | 1.12 | 26.80 |
| 37. | HM-2 | 11.10 | 0.47 | 2.04 | 1.23 | 22.30 |
| 38. | HM-5 | 11.63 | 0.45 | 1.91 | 1.10 | 30.80 |
| 39. | HM-4 | 8.06 | 0.54 | 1.99 | 1.30 | 20.80 |
| 40. | HKI-1344 | 9.79 | 0.45 | 2.00 | 1.30 | 26.00 |
| 41. | HKI-1352 | 11.52 | 0.40 | 1.65 | 1.06 | 21.20 |
| 42. | HKI-1348 | 11.87 | 0.39 | 1.51 | 1.29 | 20.70 |
| 43. | HKI-323 | 9.86 | 0.47 | 1.57 | 1.22 | 22.00 |
| 44. | HKI-161 | 8.45 | 0.52 | 1.63 | 1.28 | 33.40 |
| 45. | HKI-163 | 9.29 | 0.53 | 1.77 | 1.34 | 18.70 |
| 46. | DQL-501-1 | 8.18 | 0.49 | 1.58 | 1.18 | 22.39 |
| 47. | DQL-501-5 | 7.57 | 0.54 | 1.97 | 1.12 | 20.08 |
| 48. | DQL-504-3 | 8.52 | 0.47 | 1.64 | 1.16 | 25.44 |
| 49. | DQL-506-1 | 8.23 | 0.64 | 2.77 | 1.06 | 21.11 |
| 50. | DQL-508-3 | 8.67 | 0.59 | 2.55 | 1.13 | 21.44 |
| 51. | DQL-521-4 | 11.07 | 0.45 | 2.35 | 1.10 | 23.12 |
| 52. | DQL-552-4 | 8.73 | 0.60 | 2.64 | 1.14 | 19.42 |
| 53. | DQL-538-2 | 9.80 | 0.45 | 2.47 | 1.22 | 21.96 |
| 54. | DQL-544-1 | 10.43 | 0.58 | 2.40 | 1.16 | 20.76 |
| 55. | DQL-548-3 | 11.67 | 0.46 | 2.13 | 1.15 | 21.91 |
| 56. | DQL552-1 | 11.33 | 0.54 | 2.31 | 1.15 | 21.84 |
| 57. | DQL565-3 | 10.04 | 0.65 | 2.80 | 1.05 | 22.92 |
| 58. | DQL-571-1 | 9.83 | 0.55 | 2.41 | 1.16 | 22.07 |
| 59. | DQL-574-2 | 6.95 | 0.80 | 4.25 | 1.13 | 22.51 |
| 60. | DQL-577-1 | 10.17 | 0.49 | 1.89 | 1.17 | 22.29 |
| 61. | DQL-578-1 | 9.43 | 0.52 | 2.39 | 1.21 | 32.74 |
| 62. | DQL-585-2 | 8.86 | 0.74 | 3.55 | 1.15 | 34.61 |
| 63. | DQL-585-7 | 10.21 | 0.47 | 2.00 | 1.24 | 33.46 |
| 64. | DQL-590-1 | 11.81 | 0.42 | 1.75 | 1.34 | 37.55 |
| 65. | DQL-592-2 | 6.72 | 0.84 | 4.13 | 1.14 | 17.11 |
| 66. | DQL-593-4 | 8.05 | 0.61 | 2.59 | 1.23 | 33.07 |
| 67. | DQL-593-3 | 8.26 | 0.68 | 2.76 | 1.11 | 22.11 |
| 68. | DQL-597-6 | 10.62 | 0.52 | 2.41 | 1.17 | 20.96 |
| 69. | DQL-598-2 | 10.33 | 0.55 | 2.37 | 1.01 | 24.14 |
| 70. | DQL-602-2 | 8.01 | 0.63 | 2.62 | 1.11 | 26.35 |
| 71. | DQL-606-1 | 9.76 | 0.69 | 2.58 | 1.06 | 23.36 |
| 72. | DQL-609-5 | 8.90 | 0.72 | 3.28 | 1.09 | 30.37 |
| 73. | DQL-610-3 | 10.35 | 0.49 | 1.78 | 1.15 | 28.83 |
| 74. | DQL-614-6 | 8.87 | 0.70 | 3.61 | 1.09 | 28.31 |
| 75. | DQL-621-1 | 10.17 | 0.47 | 1.88 | 1.19 | 21.42 |
| 76. | DQL-621-3 | 8.90 | 0.71 | 4.31 | 1.14 | 31.91 |
| 77. | DQL-623-1 | 10.17 | 0.62 | 2.63 | 1.15 | 32.18 |

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|------|-----------|-------|------|------|------|-------|
| 78. | DQL-623-2 | 9.56 | 0.62 | 2.50 | 1.11 | 16.73 |
| 79. | DQL-626-6 | 8.56 | 0.48 | 2.15 | 1.13 | 20.38 |
| 80. | DQL-627-2 | 9.86 | 0.67 | 3.16 | 1.12 | 25.78 |
| 81. | DQL-628-1 | 8.43 | 0.50 | 2.41 | 1.12 | 23.55 |
| 82. | DQL-629-2 | 8.48 | 0.61 | 2.76 | 1.21 | 34.00 |
| 83. | DQL-630-6 | 8.16 | 0.49 | 2.00 | 1.15 | 26.51 |
| 84. | DQL-632-9 | 10.20 | 0.54 | 1.98 | 1.14 | 22.72 |
| 85. | DQL-633-2 | 10.12 | 0.47 | 1.78 | 1.18 | 26.00 |
| 86. | DQL-634-7 | 11.19 | 0.42 | 1.67 | 1.21 | 21.70 |
| 87. | DQL-635-1 | 8.24 | 0.49 | 1.95 | 1.17 | 25.80 |
| 88. | DQL-635-3 | 8.10 | 0.73 | 3.41 | 1.14 | 22.77 |
| 89. | DQL-638-1 | 11.08 | 0.55 | 2.09 | 1.14 | 28.50 |
| 90. | DQL-639-5 | 8.87 | 0.60 | 2.61 | 1.17 | 21.12 |
| 91. | DQL-641-1 | 11.20 | 0.58 | 2.38 | 1.13 | 17.03 |
| 92. | DQL-644-1 | 9.56 | 0.48 | 1.85 | 1.15 | 25.30 |
| 93. | DQL-650-1 | 8.64 | 0.57 | 2.33 | 1.18 | 16.52 |
| 94. | DQL-659-1 | 9.13 | 0.86 | 4.15 | 1.12 | 24.65 |
| 95. | DQL-659-3 | 10.66 | 0.49 | 1.67 | 1.14 | 28.51 |
| 96. | DQL-660-1 | 10.71 | 0.50 | 1.76 | 1.13 | 31.58 |
| 97. | DQL-662-2 | 10.28 | 0.58 | 1.84 | 1.17 | 25.65 |
| 98. | DQL-662-8 | 10.23 | 0.45 | 2.15 | 1.15 | 29.89 |
| 99. | DQL-664-2 | 10.37 | 0.44 | 1.66 | 1.08 | 16.21 |
| 100. | DQL-665-2 | 10.11 | 0.45 | 1.75 | 1.16 | 20.91 |
| 101. | DQL-667-6 | 9.61 | 0.82 | 4.21 | 1.04 | 25.95 |
| 102. | DQL-669-3 | 10.64 | 0.47 | 1.88 | 1.20 | 19.17 |
| 103. | DQL-669-6 | 9.46 | 0.64 | 2.75 | 1.14 | 20.59 |
| 104. | DQL-676-2 | 10.43 | 0.49 | 2.15 | 1.14 | 25.08 |
| 105. | DQL-678-3 | 8.25 | 0.49 | 2.41 | 1.15 | 21.86 |
| 106. | DQL-681-1 | 9.63 | 0.52 | 2.45 | 1.15 | 28.67 |
| 107. | DQL-682-6 | 8.09 | 0.63 | 2.55 | 1.19 | 22.54 |
| 108. | DQL-685-3 | 8.29 | 0.69 | 2.76 | 1.11 | 25.49 |
| 109. | DQL-686-1 | 8.36 | 0.69 | 2.89 | 1.14 | 21.55 |
| 110. | DQL-687-4 | 10.22 | 0.49 | 2.36 | 1.25 | 36.14 |
| 111. | DQL-697-3 | 10.94 | 0.47 | 2.15 | 1.12 | 27.97 |
| 112. | DQL-702-1 | 9.50 | 0.69 | 2.82 | 1.20 | 20.35 |
| 113. | DQL-702-3 | 8.10 | 0.71 | 3.05 | 1.16 | 27.84 |
| 114. | DQL-702-4 | 8.72 | 0.66 | 2.71 | 1.14 | 28.40 |
| 115. | DQL-703-1 | 9.24 | 0.48 | 1.97 | 1.15 | 25.32 |
| 116. | DQL-705-4 | 11.19 | 0.47 | 1.87 | 1.11 | 31.10 |
| 117. | DQL-707-4 | 9.40 | 0.49 | 1.73 | 1.12 | 29.08 |
| 118. | DQL-708-4 | 8.83 | 0.50 | 2.01 | 1.11 | 23.24 |
| 119. | DQL-709-5 | 8.37 | 0.64 | 2.65 | 1.16 | 26.69 |
| 120. | DQL-710-1 | 8.00 | 0.68 | 2.84 | 1.16 | 19.64 |
| 121. | DQL-720-2 | 7.80 | 0.73 | 2.97 | 1.12 | 23.45 |
| 122. | DQL-720-4 | 9.08 | 0.51 | 2.36 | 1.17 | 25.71 |
| 123. | DQL-723-2 | 9.09 | 0.60 | 2.56 | 1.14 | 28.52 |

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|------|--------------|-------|------|------|------|-------|
| 124. | DQL-724-5 | 8.34 | 0.71 | 3.21 | 1.14 | 20.59 |
| 125. | DQL-731-2 | 10.90 | 0.57 | 2.44 | 1.17 | 25.75 |
| 126. | DQL-736-1 | 7.75 | 0.80 | 4.23 | 1.12 | 26.89 |
| 127. | DQL-743-1 | 8.89 | 0.58 | 2.31 | 1.15 | 29.84 |
| 128. | DQL-748-4 | 10.96 | 0.55 | 2.26 | 1.18 | 25.86 |
| 129. | DQL-749-4 | 8.79 | 0.74 | 3.54 | 1.07 | 22.42 |
| 130. | DQL-755-2 | 10.83 | 0.60 | 2.67 | 1.14 | 23.97 |
| 131. | DQL-765-1 | 11.09 | 0.69 | 2.80 | 1.15 | 24.09 |
| 132. | DQL-769-1 | 7.70 | 0.68 | 2.76 | 1.18 | 16.58 |
| 133. | DQL-770A-3 | 11.50 | 0.48 | 2.09 | 1.20 | 21.51 |
| 134. | DQL-775-1 | 10.33 | 0.50 | 2.15 | 1.24 | 18.67 |
| 135. | DQL-778-1 | 8.36 | 0.80 | 4.10 | 1.12 | 26.62 |
| 136. | DQL-779-1 | 8.80 | 0.58 | 2.35 | 1.15 | 20.71 |
| 137. | DQL-780-2 | 8.55 | 0.72 | 3.35 | 1.14 | 22.82 |
| 138. | DQL-781-2 | 9.55 | 0.60 | 2.71 | 1.15 | 16.03 |
| 139. | DQL-782-2 | 8.62 | 0.51 | 2.40 | 1.10 | 24.08 |
| 140. | DQL-782-6 | 9.35 | 0.46 | 2.39 | 1.13 | 27.03 |
| 141. | DQL-783-2 | 8.77 | 0.48 | 2.27 | 1.19 | 30.93 |
| 142. | DQL-784-4 | 8.42 | 0.54 | 2.09 | 1.15 | 23.04 |
| 143. | DQL-785-1 | 8.63 | 0.50 | 2.15 | 1.11 | 24.33 |
| 144. | DQL-786-2 | 8.56 | 0.66 | 2.81 | 1.17 | 17.55 |
| 145. | DQL-787-1 | 8.89 | 0.60 | 2.55 | 1.15 | 21.88 |
| 146. | DQL-787-2 | 10.37 | 0.48 | 2.41 | 1.21 | 18.15 |
| 147. | DQL-787-6 | 11.7 | 0.43 | 2.37 | 1.14 | 25.03 |
| 148. | DQL-789-8 | 10.37 | 0.60 | 2.67 | 1.15 | 19.61 |
| 149. | DQL-789-10 | 8.94 | 0.47 | 2.43 | 1.21 | 21.70 |
| 150. | HKI 161 | 8.52 | 0.52 | 2.45 | 1.17 | 21.02 |
| 151. | HKI 193-1 | 8.81 | 0.64 | 2.80 | 1.15 | 20.66 |
| 152. | BGS 139 | 13.58 | 0.41 | 1.71 | 1.16 | 18.60 |
| 153. | BGS 155 | 13.60 | 0.42 | 1.69 | 1.21 | 33.80 |
| 154. | BGS 158 | 12.31 | 0.38 | 1.59 | 1.14 | 33.00 |
| 155. | BGS 183 | 9.44 | 0.39 | 1.57 | 1.26 | 16.40 |
| 156. | BGS 250 | 10.65 | 0.46 | 1.87 | 1.17 | 17.60 |
| 157. | BGS 375 | 11.72 | 0.43 | 2.03 | 1.11 | 16.60 |
| 158. | BGS 289 | 11.60 | 0.43 | 1.97 | 1.05 | 21.00 |
| 159. | BGS 448 | 11.92 | 0.40 | 1.73 | 1.25 | 32.50 |
| 160. | HKI 193-1 | 9.90 | 0.72 | 3.16 | 1.08 | 19.40 |
| 161. | CML 163-B | 10.45 | 0.55 | 2.36 | 1.21 | 21.80 |
| 162. | CML 176 | 8.80 | 0.62 | 2.55 | 1.21 | 19.30 |
| 163. | CML 161 | 7.80 | 0.73 | 3.58 | 1.18 | 23.50 |
| 164. | CML 169B | 9.37 | 0.49 | 2.22 | 1.21 | 33.90 |
| 165. | CML169A | 9.08 | 0.79 | 3.43 | 1.00 | 21.90 |
| 166. | CML 186 | 8.00 | 0.66 | 2.88 | 1.24 | 27.20 |
| 167. | HKI 161 | 8.31 | 0.64 | 2.58 | 1.24 | 27.20 |
| 168. | HKI 163 | 8.77 | 0.63 | 2.74 | 1.06 | 25.50 |
| 169. | DMW WYW 4736 | 9.87 | 0.47 | 2.34 | 1.26 | 20.10 |

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|------|--------------|-------|------|------|------|-------|
| 170. | DMW WYW 4583 | 7.87 | 0.66 | 2.68 | 1.19 | 26.20 |
| 171. | DMW WYW 4734 | 10.46 | 0.46 | 2.00 | 0.99 | 17.90 |
| 172. | DMW WYW 4717 | 9.57 | 0.49 | 1.87 | 1.21 | 21.70 |
| 173. | DMW WYW 4311 | 10.71 | 0.49 | 1.93 | 1.11 | 20.00 |
| 174. | DMW WYW 4322 | 9.36 | 0.62 | 2.84 | 1.11 | 20.00 |
| 175. | WMZ PBTL 8 | 10.24 | 0.47 | 1.79 | 1.18 | 30.80 |

Germplasm having threshold concentrations of protein quantity ($\geq 9\%$ protein) as well as quality ($\geq 0.6\%$ tryptophan and $\geq 2.50\%$ lysine in the endosperm protein) was selected as promising germplasm for protein quality. As many as 31 lines were found to be promising for QPM breeding (Table 2.1.1).

Table 2.1.1: Most promising lines for protein quality

| S.NO | PEDIGREE | PROTEIN (%) | TRY (%) | LYS (%) | SP.GR | 100 K. WT. |
|------|---------------------|-------------|---------|---------|-------|------------|
| 1. | CML 165-2 | 9.06 | 0.60 | 2.64 | 1.10 | 16.50 |
| 2. | HKI 164-4(1-3)-1 | 11.48 | 0.60 | 2.67 | -- | -- |
| 3. | DQL-723-2 | 9.09 | 0.60 | 2.56 | 1.14 | 28.52 |
| 4. | DQL-755-2 | 10.83 | 0.60 | 2.67 | 1.14 | 23.97 |
| 5. | DQL-781-2 | 9.55 | 0.60 | 2.71 | 1.15 | 16.03 |
| 6. | DQL-789-8 | 10.37 | 0.60 | 2.67 | 1.15 | 21.70 |
| 7. | HKI 164-7-4-ER-3-3 | 9.49 | 0.61 | 2.55 | -- | -- |
| 8. | HM-9 | 9.16 | 0.61 | 2.67 | 1.12 | 26.80 |
| 9. | HKI 162-2-2-3 | 10.00 | 0.62 | 2.66 | 1.12 | 15.70 |
| 10. | HKI 164-7-6X161-2-2 | 11.32 | 0.62 | 2.71 | 1.15 | 21.80 |
| 11. | DMR QPM -03-124 | 10.34 | 0.62 | 2.66 | 1.11 | 16.70 |
| 12. | DQL-623-1 | 10.17 | 0.62 | 2.63 | 1.15 | 32.18 |
| 13. | DQL-623-2 | 9.56 | 0.62 | 2.50 | 1.11 | 16.73 |
| 14. | DMW HOY 4322 | 9.36 | 0.62 | 2.84 | 1.11 | 20.00 |
| 15. | CML 165 | 9.66 | 0.63 | 2.71 | 1.20 | 14.95 |
| 16. | DMR QPM -58 | 11.46 | 0.63 | 2.88 | 1.15 | 21.90 |
| 17. | DQL-669-6 | 9.46 | 0.64 | 2.75 | 1.14 | 20.59 |
| 18. | DQL565-3 | 10.04 | 0.65 | 2.80 | 1.05 | 2.92 |
| 19. | DQL-627-2 | 9.86 | 0.67 | 3.16 | 1.12 | 25.78 |
| 20. | DMR QPM -03-113 | 9.76 | 0.68 | 3.14 | 1.11 | 16.70 |
| 21. | HKI 193-2ER-1T | 11.35 | 0.69 | 2.84 | -- | -- |
| 22. | DQL-606-1 | 9.76 | 0.69 | 2.58 | 1.06 | 23.36 |
| 23. | DQL-702-1 | 9.50 | 0.69 | 2.82 | 1.20 | 20.35 |
| 24. | DQL-765-1 | 11.09 | 0.69 | 2.80 | 1.15 | 24.09 |
| 25. | HKI 5072-2-BT | 9.87 | 0.72 | 3.24 | 1.13 | 17.00 |
| 26. | HKI 193-1 | 9.90 | 0.72 | 3.16 | 1.08 | 19.40 |
| 27. | CML 186 | 9.85 | 0.74 | 3.41 | -- | -- |
| 28. | CML169A | 9.08 | 0.79 | 3.43 | 1.00 | 21.90 |
| 29. | DQL-667-6 | 9.61 | 0.82 | 4.21 | 1.04 | 25.95 |
| 30. | DQL-659-1 | 9.13 | 0.86 | 4.15 | 1.12 | 24.65 |
| 31. | CML 451Q | 9.07 | 0.94 | 4.21 | -- | -- |

In another experiment a set of 91 F1 hybrids received from DMR, Delhi center were analyzed for protein quality in the endosperm of kernels selected on the basis of opaqueness (Table 2.2). Protein content ranges from 6.66 (CLQ RCYQ-30 XCLQR CYQ-36) to 12.36 per cent (HKI 164-4(1-3)-1XHKI-5072-2-BT). The range of tryptophan was 0.45 (CML 163XCML 154-2) to 0.91 (CLQ RCYQ 36- X CML 167) per cent, whereas lysine content ranges from 1.67 (CML 195 XCML-170) to

4.43 (CLQ RCYQ 36- X CML 167) per cent of endosperm protein. As many as 17 hybrids were found to be promising in terms of protein quality (Table 2.2.1).

Table 2.2: Evaluation of F 1 hybrids for protein quality

| S.NO | HYBRIDS | PROTEIN (%) | TRY (%) | LYS (%) | SP.GR | 100 K. WT. |
|------|-------------------------------------|-------------|---------|---------|-------|------------|
| 1. | HKI-164-7-6 X HKI-193-1 | 7.81 | 0.61 | 2.62 | 1.15 | 29.90 |
| 2. | HKI-193-2-X HKI 5072-2-BT | 8.56 | 0.60 | 2.55 | 1.12 | 19.10 |
| 3. | HKI-193-2 X HKI-164-E1R-3-3 | 7.87 | 0.79 | 3.79 | 1.00 | 14.00 |
| 4. | HKI-193-2 X HKI-164-1-4 | 9.19 | 0.56 | 2.15 | 1.09 | 19.60 |
| 5. | HKI-193-2 X CLQRCYQ-30 | 8.56 | 0.60 | 2.64 | 1.12 | 24.70 |
| 6. | HKI-162 X CML-186 | 6.72 | 0.72 | 3.51 | 1.16 | 16.20 |
| 7. | CML-165-2XHKI-34(1+2)-1-2 | 9.32 | 0.60 | 2.74 | 1.09 | 19.71 |
| 8. | CML-165-2XCML-176 | 8.28 | 0.78 | 3.83 | 1.08 | 18.30 |
| 9. | CML-165-2XCML170 | 8.12 | 0.67 | 3.21 | 1.16 | 31.40 |
| 10. | HKI-162-2-3XHKI-193-1 | 6.82 | 0.78 | 3.79 | 1.12 | 24.60 |
| 11. | HKI-162-2-3 X CLQRCYQ-30 | 7.35 | 0.66 | 2.85 | 1.15 | 17.20 |
| 12. | HKI-162-2-3 X CML-167 | 8.00 | 0.64 | 3.01 | 1.20 | 20.40 |
| 13. | CML-179 X CML175 | 8.33 | 0.60 | 2.56 | 1.18 | 17.70 |
| 14. | CML-175 X HKI-193-2-E1R-1T | 8.52 | 0.71 | 3.34 | 1.12 | 26.90 |
| 15. | CML-175 X CLQRCYQ-147-2 | 8.41 | 0.55 | 2.35 | 1.18 | 17.70 |
| 16. | CML-175 X CML-163 | 11.60 | 0.45 | 2.12 | 1.25 | 30.10 |
| 17. | CML-175 X CML-170 | 10.43 | 0.49 | 1.99 | 1.17 | 30.30 |
| 18. | CML-175 XHKI-163 | 9.58 | 0.50 | 2.30 | 1.23 | 29.60 |
| 19. | DMRQPM-03-104-1 X DMRQPM-58 | 8.41 | 0.74 | 3.66 | 1.12 | 16.80 |
| 20. | DMRQPM-03-104-1 X DMRQPM-03-113 | 8.68 | 0.74 | 3.73 | 1.11 | 16.70 |
| 21. | CML-172 X HKI-193-2-2-2 | 8.34 | 0.63 | 3.00 | 1.13 | 28.30 |
| 22. | CML-172 X HKI-164-7-4-E1R-3-3 | 10.44 | 0.48 | 2.01 | 1.16 | 30.30 |
| 23. | CML-172 X CML-175 | 9.76 | 0.49 | 1.86 | 1.22 | 29.20 |
| 24. | CLQRCYQ-147-2 X CLQRCYQ-36 | 7.44 | 0.75 | 3.99 | 1.19 | 17.80 |
| 25. | HKI-3-4-8-6-ER X HKI-162 | 11.38 | 0.46 | 1.83 | 1.22 | 31.70 |
| 26. | HKI-3-4-8-6-ER X HKI-163 | 10.91 | 0.48 | 1.72 | 1.25 | 27.50 |
| 27. | HKI-3-4-8-6-ER X HKI-5072-2-BT | 8.63 | 0.63 | 2.56 | 1.21 | 18.20 |
| 28. | HKI-3-4-8-6-ER X HKI-164-7-4-ER-3-3 | 8.86 | 0.78 | 4.00 | 1.11 | 24.50 |
| 29. | CML-161X DMRQPM-03-113 | 8.74 | 0.57 | 1.99 | 1.10 | 14.90 |
| 30. | DMR QPM 03-113XDMR QPM-03-104 | -- | -- | | 1.14 | 20.06 |
| 31. | CML 158 XCML-153 | 11.00 | 0.47 | 1.75 | 1.12 | 8.40 |
| 32. | CML 195 XCML-170 | 9.34 | 0.48 | 1.67 | 1.13 | 24.90 |
| 33. | CML 195E2 XCML-176 | 10.08 | 0.47 | 1.98 | 1.16 | 27.80 |
| 34. | CML 170 XCML-451 | 7.81 | 0.68 | 2.88 | 1.10 | 25.80 |
| 35. | CML 170 XCML-176 | 8.63 | 0.66 | 2.72 | 1.12 | 28.00 |
| 36. | CML 170XDMR QPM-03-113 | 9.58 | 0.57 | 2.43 | 1.09 | 25.00 |
| 37. | CML 170XDMR QPM-03-124 | 7.52 | 0.64 | 2.58 | 1.14 | 20.50 |
| 38. | CML 167XCML 161 | 8.24 | 0.64 | 2.69 | 1.18 | 15.30 |
| 39. | HKI 164-7-3 XHKI 164-4(1-3)-1 | 8.74 | 0.55 | 2.39 | 1.17 | 27.00 |
| 40. | CML 167 X CML 154 | 8.71 | 0.66 | 2.88 | 1.16 | 10.45 |
| 41. | CLQ RCYQ-41XHKI-162 | 7.42 | 0.63 | 2.53 | 1.17 | 21.00 |
| 42. | CLQ RCYQ-41XCLQRCYQ-41 | 9.78 | 0.63 | 2.60 | 1.20 | 19.20 |
| 43. | CLQ RCYQ-41XCML-167 | 7.18 | 0.69 | 3.12 | 1.23 | 18.40 |
| 44. | CLQ RCYQ-30 XHKI-164-7-4-ER-3-3 | 8.73 | 0.55 | 2.33 | 1.13 | 21.40 |
| 45. | CLQ RCYQ-30 XHKI-164-7-4-ER-3-3 | 10.48 | 0.48 | 2.00 | 1.26 | 23.90 |
| 46. | CLQ RCYQ-30 XCLQRCYQ-41 | 7.93 | 0.60 | 2.55 | 1.10 | 23.10 |
| 47. | CLQ RCYQ-30 XCLQRCYQ-36 | 8.44 | 0.58 | 2.37 | 1.12 | 24.70 |
| 48. | CLQ RCYQ-30 XCLQRCYQ-36 | 6.66 | 0.66 | 2.89 | 1.19 | 20.20 |
| 49. | CML 163X CML 175 | 9.64 | 0.49 | 1.97 | -- | -- |
| 50. | CML 163X HKI 164-3(1-2)-1 | 7.27 | 0.75 | 3.79 | 1.16 | 19.70 |
| 51. | CML 163XCML 154-2 | 9.88 | 0.45 | 2.01 | 1.10 | 12.15 |
| 52. | CML 176XCML 175 | 9.21 | 0.57 | 2.41 | 1.19 | 22.70 |

| | | | | | | |
|-----|---------------------------------------|-------|------|------|------|-------|
| 53. | CML 176 X CLQRCYQ-47-2 | 9.07 | 0.67 | 2.51 | 1.13 | 27.00 |
| 54. | CLQ 176XCML-162-2 | 9.26 | 0.67 | 2.87 | 1.10 | 24.10 |
| 55. | CML 176 XCML 163 | 9.39 | 0.49 | 1.99 | 1.13 | 22.60 |
| 56. | HKI 164-7-4ER-3-3XHKI 193-2 ER | 7.23 | 0.87 | 4.23 | 1.06 | 25.40 |
| 57. | HKI 164-7-4ER-3-3XHKI 31-2 | 8.40 | 0.73 | 4.02 | 1.20 | 21.60 |
| 58. | HKI 164-7-4ER-3-3XCLQRCYQ-30 | 10.22 | 0.46 | 2.13 | 1.21 | 23.00 |
| 59. | HKI 164-7-4ER-3-3XHKI-1931 | 7.61 | 0.75 | 3.97 | 1.07 | 18.30 |
| 60. | HKI 164-7-4ER-3-3XHKI-164-4(1-3) | 8.14 | 0.59 | 2.35 | 1.11 | 15.60 |
| 61. | HKI 164-7-4ER-3-3XHKI-162-2-3 | 10.40 | 0.49 | 2.14 | 1.10 | 24.30 |
| 62. | HKI 164-7-4ER-3-3XHKI-2-3 | 9.11 | 0.68 | 2.81 | 1.11 | 16.60 |
| 63. | HKI 164-7-4ER-3-3XCML-161 | 7.78 | 0.76 | 3.86 | 1.25 | 22.50 |
| 64. | HKI 193-ER-ITXHKI-5072-2-BT | 8.79 | 0.76 | 3.79 | 1.15 | 17.20 |
| 65. | HKI 164-4(1-3)-1XHKI-5072-2-BT | 12.36 | 0.63 | 2.66 | 1.07 | 14.95 |
| 66. | HKI 193-2ER-ITXHKI-31-2 | 7.10 | 0.69 | 2.87 | 1.14 | 28.50 |
| 67. | HKI 26-2-4(1-2)X HKI-193-2-2-2 | 8.15 | 0.68 | 2.76 | 1.24 | 19.80 |
| 68. | HKI 164-4(1-3)-1XHKI-34(1+2)-1 | 8.07 | 0.57 | 2.45 | 1.12 | 25.70 |
| 69. | HKI 26-2-4(1-2)XVQL-17 | 8.00 | 0.78 | 3.93 | 1.11 | 21.10 |
| 70. | HKI 193 X HKI-161 | 7.80 | 0.76 | 3.99 | 1.20 | 19.20 |
| 71. | HKI 26-2-4(1-2)XHKI-163 | 9.90 | 0.68 | 2.81 | 1.09 | 14.20 |
| 72. | HKI 193X DMR QPM -58 | 11.00 | 0.67 | 2.67 | 1.09 | 20.70 |
| 73. | CLQ RYQ 47-B X DMR QPM 03-104-1 | 6.80 | 0.68 | 2.84 | 1.15 | 25.30 |
| 74. | HKI 193-2-4 X HKI 161 | 10.10 | 0.71 | 3.35 | 1.09 | 24.00 |
| 75. | VQL-17 X VQL-1 | 9.53 | 0.75 | 3.55 | 1.05 | 11.05 |
| 76. | HKI 26-2-4(1-2) X HKI -5072-2-BT | 8.79 | 0.69 | 2.59 | 1.13 | 14.70 |
| 77. | HKI 34 (1+2)-1 X HKI 164 (1-3)-1 | 9.16 | 0.50 | 2.22 | 1.16 | 19.70 |
| 78. | HKI 34 (1+2)-1 X HKI 162 | 11.97 | 0.60 | 2.50 | 1.17 | 17.50 |
| 79. | HKI 193-2-ER-IT X HKI 164-7-6X161-2-2 | 9.08 | 0.65 | 2.74 | 1.07 | 25.70 |
| 80. | CLQ RYQ 36- X CML 167 | 7.15 | 0.91 | 4.43 | 1.16 | 28.90 |
| 81. | HKI-193-2-ER-IT X HKI-193-2-2-2 | 9.16 | 0.75 | 3.82 | 1.10 | 25.40 |
| 82. | CLQRCYQ 41 X HKI 5072-2-BT | 9.60 | 0.70 | 3.87 | 1.12 | 24.60 |
| 83. | HKI 193-2-ER-IT X HKI 193-1 | 8.76 | 0.84 | 4.23 | 1.07 | 21.30 |
| 84. | HKI 5072-2-BT X HKI 164-7-4-ER-3-3 | 8.25 | 0.68 | 2.83 | 1.17 | 17.60 |
| 85. | HKI 163 X DMRQPM 58 | 8.02 | 0.66 | 2.64 | 1.15 | 22.90 |
| 86. | HKI 162 X DMRQPM 03-104-14 | 8.29 | 0.65 | 2.68 | 1.14 | 21.60 |
| 87. | HKI 5072-2-BT X HKI 164-4 (1-3)-1 | 9.55 | 0.70 | 3.25 | 1.10 | 16.50 |
| 88. | HKI 163 X HKI 26-2-4 (1+2) | 8.17 | 0.85 | 4.35 | 1.09 | 16.30 |
| 89. | 26-2-4 (1-2) X HKI 164-1-4 | 9.01 | 0.76 | 4.06 | 1.20 | 18.00 |
| 90. | CLQ XCYQ 41 X HKI 164-7-4-ER | 10.14 | 0.72 | 3.87 | 1.11 | 11.05 |
| 91. | HKI 163XCML 161 | 8.15 | 0.78 | 3.72 | 1.11 | 25.60 |

Table 2.2.1: Promising hybrids for protein quality

| S.NO | HYBRIDS | PROTEIN (%) | TRY (%) | LYS (%) | SP.GR | 100 K. WT. |
|------|---------------------------------------|-------------|---------|---------|-------|------------|
| 1. | HKI 34 (1+2)-1 X HKI 162 | 11.97 | 0.60 | 2.50 | 1.17 | 17.50 |
| 2. | CML 176 X CLQRCYQ-47-2 | 9.07 | 0.67 | 2.51 | 1.13 | 27.00 |
| 3. | CLQ RYQ-41XCLQRCYQ-41 | 9.78 | 0.63 | 2.60 | 1.20 | 19.20 |
| 4. | HKI 164-4(1-3)-1XHKI-5072-2-BT | 12.36 | 0.63 | 2.66 | 1.07 | 14.95 |
| 5. | HKI 193X DMR QPM -58 | 11.00 | 0.67 | 2.67 | 1.09 | 20.70 |
| 6. | CML-165-2XHKI-34(1+2)-1-2 | 9.32 | 0.60 | 2.74 | 1.09 | |
| 7. | HKI 193-2-ER-IT X HKI 164-7-6X161-2-2 | 9.08 | 0.65 | 2.74 | 1.07 | 25.70 |
| 8. | HKI 164-7-4ER-3-3XHKI-2-3 | 9.11 | 0.68 | 2.81 | 1.11 | 16.60 |
| 9. | HKI 26-2-4(1-2)XHKI-163 | 9.90 | 0.68 | 2.81 | 1.09 | 14.20 |
| 10. | CLQ 176XCML-162-2 | 9.26 | 0.67 | 2.87 | 1.10 | 24.10 |
| 11. | HKI 5072-2-BT X HKI 164-4 (1-3)-1 | 9.55 | 0.70 | 3.25 | 1.10 | 16.50 |
| 12. | HKI 193-2-4 X HKI 161 | 10.10 | 0.71 | 3.35 | 1.09 | 24.00 |
| 13. | VQL-17 X VQL-1 | 9.53 | 0.75 | 3.55 | 1.05 | 11.05 |
| 14. | HKI-193-2-ER-IT X HKI-193-2-2-2 | 9.16 | 0.75 | 3.82 | 1.10 | 25.40 |

| | | | | | | |
|-----|------------------------------|-------|------|------|------|-------|
| 15. | CLQRCYQ 41 X HKI 5072-2-BT | 9.60 | 0.70 | 3.87 | 1.12 | 24.60 |
| 16. | CLQ XCYQ 41 X HKI 164-7-4-ER | 10.14 | 0.72 | 3.87 | 1.11 | 11.05 |
| 17. | 26-2-4 (1-2) X HKI 164-1-4 | 9.01 | 0.76 | 4.06 | 1.20 | 18.00 |

In another set of experiment, a total of 122 inbred lines received from DMR, Delhi center were analyzed for protein quality (Table 2.3). The kernels were screened on the basis of opaqueness to select the representative sample. Out crossed as well as non uniform kernels were discarded. The kernels having 50 per cent opaqueness were selected for protein quality analysis. The endosperm was separated, defatted and analyzed for protein quality. The range of protein was 7.12 to 12.41 per cent with lowest and highest values being exhibited by the genotypes DQL 2060 and DQL 2032, respectively. The range of tryptophan was 0.46 (DQL 2132) to 0.89 (DQL 2029) per cent and lysine was 2.12 (DQL 2047) to 4.41 (DQL 2041-1) of endosperm protein. A large number of lines were found promising in this set of experiment. As many as 114 lines were found to be having the threshold concentration of protein quantity as well as quality. Most promising lines for QPM breeding are given in Table 2.3.1.

Table 2.3 Evaluation of maize germplasm for protein quality

| S. NO. | PEDIGREE | PROTEIN (%) | TRY (%) | LYS (%) | SP.G | 100 K. WT. |
|--------|------------|-------------|---------|---------|------|------------|
| 1. | DQL 2062 | 8.75 | 0.79 | 4.21 | 1.15 | 24.85 |
| 2. | DQL 2062-1 | 9.43 | 0.70 | 4.24 | 1.93 | 24.00 |
| 3. | DQL 2011 | 8.43 | 0.81 | 4.01 | 1.41 | 22.12 |
| 4. | DQL 2012 | 11.00 | 0.68 | 2.75 | 1.23 | 16.05 |
| 5. | DQL 2056 | 9.87 | 0.61 | 2.72 | 1.25 | 15.43 |
| 6. | DQL 2057 | 10.94 | 0.63 | 2.65 | 1.25 | 18.26 |
| 7. | DQL 2058 | 11.79 | 0.49 | 2.13 | 1.29 | 18.76 |
| 8. | DQL 2059 | 10.23 | 0.78 | 3.12 | 1.23 | 18.22 |
| 9. | DQL 2022 | 9.37 | 0.70 | 2.79 | 1.19 | 16.23 |
| 10. | DQL 2023 | 9.23 | 0.69 | 2.85 | 1.21 | 17.15 |
| 11. | DQL 2027 | 7.94 | 0.79 | 3.25 | 1.19 | 15.53 |
| 12. | DQL 2028 | 8.21 | 0.80 | 3.42 | 1.29 | 22.08 |
| 13. | DQL 2029 | 7.27 | 0.89 | 4.23 | 1.19 | 20.51 |
| 14. | DQL 2134 | 9.45 | 0.63 | 2.59 | 1.18 | 23.23 |
| 15. | DQL 2107 | 10.00 | 0.65 | 2.61 | 1.28 | 20.90 |
| 16. | DQL 2116 | 10.35 | 0.66 | 2.75 | 1.20 | 28.31 |
| 17. | DQL 2093 | 11.35 | 0.50 | 2.46 | 1.26 | 18.53 |
| 18. | DQL 2121 | 8.95 | 0.60 | 3.13 | 1.31 | 25.06 |
| 19. | DQL 2089 | 9.18 | 0.76 | 3.79 | 1.28 | 20.89 |
| 20. | DQL 2108 | 7.51 | 0.68 | 2.89 | 1.29 | 26.09 |
| 21. | DQL 2126 | 10.27 | 0.69 | 2.73 | 1.35 | 31.96 |
| 22. | DQL 2125 | 10.23 | 0.60 | 2.53 | 1.20 | 16.00 |
| 23. | DQL 2120 | 8.38 | 0.60 | 2.59 | 1.13 | 23.87 |
| 24. | DQL 2129 | 9.76 | 0.68 | 2.59 | 1.27 | 17.80 |
| 25. | DQL 2097 | 10.98 | 0.69 | 2.62 | 1.28 | 27.03 |
| 26. | DQL 2022 | 8.29 | 0.60 | 2.72 | 1.39 | 28.78 |

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| | | | | | | |
|-----|------------|-------|------|------|------|--------|
| 27. | DQL 2010 | 9.87 | 0.69 | 2.78 | 1.15 | 16.73 |
| 28. | DQL 2038 | 11.02 | 0.48 | 2.20 | 1.23 | 23.00 |
| 29. | DQL 2024 | 10.15 | 0.68 | 3.02 | 1.30 | 18.26 |
| 30. | DQL 2025 | 8.15 | 0.67 | 3.81 | 1.29 | 17.87 |
| 31. | DQL 2026 | 8.88 | 0.66 | 3.23 | 1.23 | 22.12 |
| 32. | DQL 2011 | 9.23 | 0.64 | 3.00 | 1.36 | 14.92 |
| 33. | DQL 2008 | 11.49 | 0.68 | 3.15 | 1.20 | 10.00 |
| 34. | DQL 2009 | 10.87 | 0.73 | 3.95 | 1.20 | 14.023 |
| 35. | DQL 2047 | 10.42 | 0.48 | 2.12 | 1.34 | 16.12 |
| 36. | DQL 2044 | 9.37 | 0.79 | 4.15 | 1.33 | 15.75 |
| 37. | DQL 2045 | 10.53 | 0.70 | 3.49 | 1.11 | 12.55 |
| 38. | DQL 2030 | 8.56 | 0.73 | 4.15 | 1.80 | 17.26 |
| 39. | DQL 2020 | 10.54 | 0.60 | 3.59 | 1.25 | 18.00 |
| 40. | DQL 2001 | 9.45 | 0.62 | 3.40 | 1.35 | 28.05 |
| 41. | DQL 2019 | 8.49 | 0.75 | 3.89 | 1.24 | 18.21 |
| 42. | DQL 2031 | 10.09 | 0.69 | 3.49 | 1.17 | 25.12 |
| 43. | DQL 2060 | 7.12 | 0.89 | 4.19 | 1.08 | 19.00 |
| 44. | DQL 2054 | 9.29 | 0.71 | 4.02 | 1.11 | 22.81 |
| 45. | DQL 2046 | 8.27 | 0.79 | 3.97 | 1.11 | 20.80 |
| 46. | DQL 2006 | 10.23 | 0.68 | 4.01 | 1.00 | 18.00 |
| 47. | DQL 2033 | 10.20 | 0.63 | 3.08 | 1.08 | 19.13 |
| 48. | DQL 2048 | 9.00 | 0.66 | 3.33 | 1.17 | 22.33 |
| 49. | DQL 2022 | 10.02 | 0.70 | 3.58 | 1.00 | 19.05 |
| 50. | DQL 2037 | 7.78 | 0.77 | 4.12 | 1.20 | 26.57 |
| 51. | DQL 2054-1 | 11.72 | 0.66 | 2.95 | 1.15 | 21.88 |
| 52. | DQL 2041 | 11.08 | 0.69 | 3.42 | 1.15 | 22.11 |
| 53. | DQL 2042 | 9.91 | 0.81 | 3.29 | 1.43 | 26.49 |
| 54. | DQL 2043 | 10.19 | 0.73 | 3.33 | 1.55 | 16.02 |
| 55. | DQL 2041-1 | 8.23 | 0.83 | 4.41 | 1.23 | 15.39 |
| 56. | DQL 2002 | 11.14 | 0.71 | 3.89 | 1.11 | 29.28 |
| 57. | DQL 2032 | 12.41 | 0.62 | 2.66 | 1.20 | 23.40 |
| 58. | DQL 2003 | 9.72 | 0.71 | 3.72 | 1.55 | 22.33 |
| 59. | DQL 2102 | 9.88 | 0.77 | 3.89 | 1.10 | 22.85 |
| 60. | DQL 2084 | 9.00 | 0.77 | 4.09 | 1.03 | 24.37 |
| 61. | DQL 2129 | 11.39 | 0.62 | 2.71 | 0.99 | 15.60 |
| 62. | DQL 2080 | 11.53 | 0.60 | 2.53 | 1.73 | 28.00 |
| 63. | DQL 2109 | 10.02 | 0.67 | 3.43 | 1.20 | 27.32 |
| 64. | DQL 2078 | 10.02 | 0.70 | 3.59 | 1.18 | 15.68 |
| 65. | DQL 2094 | 11.10 | 0.61 | 2.59 | 1.08 | 16.16 |
| 66. | DQL 2132 | 11.26 | 0.46 | 2.41 | 1.10 | 23.64 |
| 67. | DQL 2081 | 10.17 | 0.61 | 2.67 | 1.20 | 26.20 |
| 68. | DQL 2118 | 11.24 | 0.64 | 2.70 | 1.05 | 30.26 |

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|------|------------|-------|------|------|------|-------|
| 69. | DQL 2110 | 12.00 | 0.47 | 2.22 | 1.31 | 26.15 |
| 70. | DQL 2123 | 11.89 | 0.49 | 2.16 | 1.05 | 25.43 |
| 71. | DQL 2088 | 11.49 | 0.65 | 2.65 | 1.19 | 24.12 |
| 72. | DQL 2128 | 9.67 | 0.62 | 2.45 | 1.28 | 21.26 |
| 73. | DQL 2115 | 9.78 | 0.77 | 3.14 | 1.18 | 25.00 |
| 74. | DQL 2111 | 10.35 | 0.68 | 3.00 | 1.22 | 19.35 |
| 75. | DQL 2091 | 9.35 | 0.68 | 3.01 | 1.14 | 32.25 |
| 76. | DQL 2097 | 10.53 | 0.71 | 3.47 | 1.19 | 29.06 |
| 77. | DQL 2087 | 10.37 | 0.62 | 2.68 | 1.12 | 24.16 |
| 78. | DQL 2086 | 10.23 | 0.62 | 3.06 | 1.11 | 26.00 |
| 79. | DQL 2077 | 11.77 | 0.65 | 2.89 | 1.11 | 29.97 |
| 80. | DQL 2080 | 11.00 | 0.67 | 2.62 | 1.12 | 31.23 |
| 81. | DQL 2122-1 | 7.99 | 0.84 | 3.55 | 1.24 | 27.23 |
| 82. | DQL 2092 | 9.12 | 0.71 | 3.43 | 1.11 | 27.46 |
| 83. | DQL 2073 | 10.53 | 0.66 | 2.79 | 1.14 | 26.00 |
| 84. | DQL 2096 | 11.09 | 0.60 | 2.55 | 1.14 | 27.27 |
| 85. | DQL 2104 | 8.42 | 0.69 | 3.22 | 1.14 | 22.45 |
| 86. | DQL 2164 | 9.21 | 0.62 | 3.42 | 1.11 | 23.56 |
| 87. | DQL 2095 | 10.79 | 0.72 | 2.83 | 1.08 | 20.12 |
| 88. | DQL 2105 | 11.36 | 0.62 | 2.59 | 1.08 | 17.89 |
| 89. | DQL 2112 | 8.39 | 0.69 | 3.70 | 1.12 | 23.88 |
| 90. | DQL 2117 | 9.33 | 0.62 | 2.66 | 1.09 | 21.22 |
| 91. | DQL 2133 | 10.82 | 0.69 | 3.11 | 1.07 | 24.25 |
| 92. | DQL 2114 | 7.54 | 0.70 | 3.89 | 1.08 | 21.21 |
| 93. | DQL 2074 | 9.36 | 0.70 | 3.69 | 1.10 | 26.26 |
| 94. | DQL 2061 | 9.56 | 0.66 | 3.81 | 1.16 | 16.99 |
| 95. | DQL 2116 | 10.57 | 0.71 | 3.06 | 1.09 | 19.99 |
| 96. | DQL 2085 | 8.31 | 0.70 | 3.55 | 1.11 | 22.87 |
| 97. | DQL 2082 | 10.56 | 0.61 | 2.76 | 1.02 | 22.89 |
| 98. | DQL 2083 | 10.59 | 0.69 | 3.59 | 1.05 | 24.44 |
| 99. | DQL 2131 | 10.57 | 0.66 | 3.20 | 1.08 | 21.05 |
| 100. | DQL 2127 | 9.44 | 0.62 | 3.73 | 1.12 | 25.83 |
| 101. | DQL 2100 | 11.88 | 0.64 | 2.80 | 1.14 | 17.18 |
| 102. | DQL 2076 | 9.43 | 0.73 | 3.55 | 1.10 | 25.22 |
| 103. | DQL 2119 | 10.00 | 0.60 | 2.70 | 1.02 | 23.59 |
| 104. | DQL 2050 | 8.41 | 0.69 | 2.87 | 1.18 | 19.99 |
| 105. | DQL 2051 | 8.09 | 0.71 | 3.19 | 1.15 | 23.42 |
| 106. | DQL 2052 | 9.49 | 0.73 | 3.47 | 1.11 | 16.88 |
| 107. | DQL 2070 | 9.43 | 0.62 | 2.77 | 1.15 | 17.09 |
| 108. | DQL 2002 | 8.88 | 0.70 | 3.69 | 1.13 | 27.00 |
| 109. | DQL 2002 | 9.15 | 0.70 | 3.60 | 1.18 | 18.00 |
| 110. | DQL 2072 | 10.67 | 0.69 | 3.47 | 1.12 | 22.55 |

| | | | | | | |
|------|----------|-------|------|------|------|-------|
| 111. | DQL 2007 | 9.53 | 0.71 | 3.99 | 1.11 | 17.26 |
| 112. | DQL 2034 | 9.03 | 0.63 | 2.89 | 1.10 | 20.55 |
| 113. | DQL 2036 | 11.08 | 0.67 | 2.88 | 1.11 | 20.36 |
| 114. | DQL 2017 | 10.25 | 0.66 | 3.48 | 1.20 | 22.36 |
| 115. | DQL 2016 | 11.06 | 0.69 | 3.06 | 1.35 | 24.44 |
| 116. | DQL 2012 | 9.40 | 0.70 | 3.00 | 1.29 | 18.26 |
| 117. | DQL 2008 | 10.19 | 0.66 | 2.97 | 1.10 | 23.00 |
| 118. | DQL 2039 | 9.00 | 0.61 | 2.66 | 1.08 | 21.21 |
| 119. | DQL 2067 | 9.76 | 0.72 | 3.89 | 1.22 | 21.38 |
| 120. | DQL 2067 | 9.11 | 0.69 | 4.00 | 1.21 | 16.87 |
| 121. | DQL 2068 | 9.26 | 0.63 | 2.89 | 1.20 | 17.77 |
| 122. | DQL 2060 | 9.33 | 0.70 | 4.23 | 1.21 | 20.33 |

Table 2.3.1: Most promising lines for protein quality

| S. NO. | PEDIGREE | PROTEIN (%) | TRY (%) | LYS (%) | SP.G | 100 K. WT. |
|--------|----------|-------------|---------|---------|------|------------|
| 1 | DQL 2125 | 10.23 | 0.60 | 2.53 | 1.20 | 16.00 |
| 2 | DQL 2080 | 11.53 | 0.60 | 2.53 | 1.73 | 28.00 |
| 3 | DQL 2096 | 11.09 | 0.60 | 2.55 | 1.14 | 27.27 |
| 4 | DQL 2120 | 8.38 | 0.60 | 2.59 | 1.13 | 23.87 |
| 5 | DQL 2094 | 11.10 | 0.61 | 2.59 | 1.08 | 16.16 |
| 6 | DQL 2105 | 11.36 | 0.62 | 2.59 | 1.08 | 17.89 |
| 7 | DQL 2134 | 9.45 | 0.63 | 2.59 | 1.18 | 23.23 |
| 8 | DQL 2129 | 9.76 | 0.68 | 2.59 | 1.27 | 17.80 |
| 9 | DQL 2107 | 10.00 | 0.65 | 2.61 | 1.28 | 20.90 |
| 10 | DQL 2080 | 11.00 | 0.67 | 2.62 | 1.12 | 31.23 |
| 11 | DQL 2097 | 10.98 | 0.69 | 2.62 | 1.28 | 27.03 |
| 12 | DQL 2057 | 10.94 | 0.63 | 2.65 | 1.25 | 18.26 |
| 13 | DQL 2088 | 11.49 | 0.65 | 2.65 | 1.19 | 24.12 |
| 14 | DQL 2039 | 9.00 | 0.61 | 2.66 | 1.08 | 21.21 |
| 15 | DQL 2117 | 9.33 | 0.62 | 2.66 | 1.09 | 21.22 |
| 16 | DQL 2032 | 12.41 | 0.62 | 2.66 | 1.20 | 23.40 |
| 17 | DQL 2081 | 10.17 | 0.61 | 2.67 | 1.20 | 26.20 |
| 18 | DQL 2087 | 10.37 | 0.62 | 2.68 | 1.12 | 24.16 |
| 19 | DQL 2119 | 10.00 | 0.60 | 2.70 | 1.02 | 23.59 |
| 20 | DQL 2118 | 11.24 | 0.64 | 2.70 | 1.05 | 30.26 |
| 21 | DQL 2129 | 11.39 | 0.62 | 2.71 | 0.99 | 15.60 |
| 22 | DQL 2022 | 8.29 | 0.60 | 2.72 | 1.39 | 28.78 |
| 23 | DQL 2056 | 9.87 | 0.61 | 2.72 | 1.25 | 15.43 |
| 24 | DQL 2126 | 10.27 | 0.69 | 2.73 | 1.35 | 31.96 |
| 25 | DQL 2116 | 10.35 | 0.66 | 2.75 | 1.20 | 28.31 |
| 26 | DQL 2012 | 11.00 | 0.68 | 2.75 | 1.23 | 16.05 |

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|----|------------|-------|------|------|------|-------|
| 27 | DQL 2082 | 10.56 | 0.61 | 2.76 | 1.02 | 22.89 |
| 28 | DQL 2070 | 9.43 | 0.62 | 2.77 | 1.15 | 17.09 |
| 29 | DQL 2010 | 9.87 | 0.69 | 2.78 | 1.15 | 16.73 |
| 30 | DQL 2073 | 10.53 | 0.66 | 2.79 | 1.14 | 26.00 |
| 31 | DQL 2022 | 9.37 | 0.70 | 2.79 | 1.19 | 16.23 |
| 32 | DQL 2100 | 11.88 | 0.64 | 2.80 | 1.14 | 17.18 |
| 33 | DQL 2095 | 10.79 | 0.72 | 2.83 | 1.08 | 20.12 |
| 34 | DQL 2023 | 9.23 | 0.69 | 2.85 | 1.21 | 17.15 |
| 35 | DQL 2050 | 8.41 | 0.69 | 2.87 | 1.18 | 19.99 |
| 36 | DQL 2036 | 11.08 | 0.67 | 2.88 | 1.11 | 20.36 |
| 37 | DQL 2034 | 9.03 | 0.63 | 2.89 | 1.10 | 20.55 |
| 38 | DQL 2068 | 9.26 | 0.63 | 2.89 | 1.20 | 17.77 |
| 39 | DQL 2077 | 11.77 | 0.65 | 2.89 | 1.11 | 29.97 |
| 40 | DQL 2108 | 7.51 | 0.68 | 2.89 | 1.29 | 26.09 |
| 41 | DQL 2054-1 | 11.72 | 0.66 | 2.95 | 1.15 | 21.88 |
| 42 | DQL 2008 | 10.19 | 0.66 | 2.97 | 1.10 | 23.00 |
| 43 | DQL 2011 | 9.23 | 0.64 | 3.00 | 1.36 | 14.92 |
| 44 | DQL 2111 | 10.35 | 0.68 | 3.00 | 1.22 | 19.35 |
| 45 | DQL 2012 | 9.40 | 0.70 | 3.00 | 1.29 | 18.26 |
| 46 | DQL 2091 | 9.35 | 0.68 | 3.01 | 1.14 | 32.25 |
| 47 | DQL 2024 | 10.15 | 0.68 | 3.02 | 1.30 | 18.26 |
| 48 | DQL 2086 | 10.23 | 0.62 | 3.06 | 1.11 | 26.00 |
| 49 | DQL 2016 | 11.06 | 0.69 | 3.06 | 1.35 | 24.44 |
| 50 | DQL 2116 | 10.57 | 0.71 | 3.06 | 1.09 | 19.99 |
| 51 | DQL 2033 | 10.20 | 0.63 | 3.08 | 1.08 | 19.13 |
| 52 | DQL 2133 | 10.82 | 0.69 | 3.11 | 1.07 | 24.25 |
| 53 | DQL 2059 | 10.23 | 0.78 | 3.12 | 1.23 | 18.22 |
| 54 | DQL 2121 | 8.95 | 0.60 | 3.13 | 1.31 | 25.06 |
| 55 | DQL 2115 | 9.78 | 0.77 | 3.14 | 1.18 | 25.00 |
| 56 | DQL 2008 | 11.49 | 0.68 | 3.15 | 1.20 | 10.00 |
| 57 | DQL 2051 | 8.09 | 0.71 | 3.19 | 1.15 | 23.42 |
| 58 | DQL 2131 | 10.57 | 0.66 | 3.20 | 1.08 | 21.05 |
| 59 | DQL 2104 | 8.42 | 0.69 | 3.22 | 1.14 | 22.45 |
| 60 | DQL 2026 | 8.88 | 0.66 | 3.23 | 1.23 | 22.12 |
| 61 | DQL 2027 | 7.94 | 0.79 | 3.25 | 1.19 | 15.53 |
| 62 | DQL 2042 | 9.91 | 0.81 | 3.29 | 1.43 | 26.49 |
| 63 | DQL 2048 | 9.00 | 0.66 | 3.33 | 1.17 | 22.33 |
| 64 | DQL 2043 | 10.19 | 0.73 | 3.33 | 1.55 | 16.02 |
| 65 | DQL 2001 | 9.45 | 0.62 | 3.40 | 1.35 | 28.05 |
| 66 | DQL 2164 | 9.21 | 0.62 | 3.42 | 1.11 | 23.56 |
| 67 | DQL 2041 | 11.08 | 0.69 | 3.42 | 1.15 | 22.11 |
| 68 | DQL 2028 | 8.21 | 0.80 | 3.42 | 1.29 | 22.08 |

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|-----|------------|-------|------|------|------|--------|
| 69 | DQL 2109 | 10.02 | 0.67 | 3.43 | 1.20 | 27.32 |
| 70 | DQL 2092 | 9.12 | 0.71 | 3.43 | 1.11 | 27.46 |
| 71 | DQL 2072 | 10.67 | 0.69 | 3.47 | 1.12 | 22.55 |
| 72 | DQL 2097 | 10.53 | 0.71 | 3.47 | 1.19 | 29.06 |
| 73 | DQL 2052 | 9.49 | 0.73 | 3.47 | 1.11 | 16.88 |
| 74 | DQL 2017 | 10.25 | 0.66 | 3.48 | 1.20 | 22.36 |
| 75 | DQL 2031 | 10.09 | 0.69 | 3.49 | 1.17 | 25.12 |
| 76 | DQL 2045 | 10.53 | 0.70 | 3.49 | 1.11 | 12.55 |
| 77 | DQL 2085 | 8.31 | 0.70 | 3.55 | 1.11 | 22.87 |
| 78 | DQL 2076 | 9.43 | 0.73 | 3.55 | 1.10 | 25.22 |
| 79 | DQL 2122-1 | 7.99 | 0.84 | 3.55 | 1.24 | 27.23 |
| 80 | DQL 2022 | 10.02 | 0.70 | 3.58 | 1.00 | 19.05 |
| 81 | DQL 2020 | 10.54 | 0.60 | 3.59 | 1.25 | 18.00 |
| 82 | DQL 2083 | 10.59 | 0.69 | 3.59 | 1.05 | 24.44 |
| 83 | DQL 2078 | 10.02 | 0.70 | 3.59 | 1.18 | 15.68 |
| 84 | DQL 2002 | 9.15 | 0.70 | 3.60 | 1.18 | 18.00 |
| 85 | DQL 2002 | 8.88 | 0.70 | 3.69 | 1.13 | 27.00 |
| 86 | DQL 2074 | 9.36 | 0.70 | 3.69 | 1.10 | 26.26 |
| 87 | DQL 2112 | 8.39 | 0.69 | 3.70 | 1.12 | 23.88 |
| 88 | DQL 2003 | 9.72 | 0.71 | 3.72 | 1.55 | 22.33 |
| 89 | DQL 2127 | 9.44 | 0.62 | 3.73 | 1.12 | 25.83 |
| 90 | DQL 2089 | 9.18 | 0.76 | 3.79 | 1.28 | 20.89 |
| 91 | DQL 2061 | 9.56 | 0.66 | 3.81 | 1.16 | 16.99 |
| 92 | DQL 2025 | 8.15 | 0.67 | 3.81 | 1.29 | 17.87 |
| 93 | DQL 2114 | 7.54 | 0.70 | 3.89 | 1.08 | 21.21 |
| 94 | DQL 2002 | 11.14 | 0.71 | 3.89 | 1.11 | 29.28 |
| 95 | DQL 2067 | 9.76 | 0.72 | 3.89 | 1.22 | 21.38 |
| 96 | DQL 2019 | 8.49 | 0.75 | 3.89 | 1.24 | 18.21 |
| 97 | DQL 2102 | 9.88 | 0.77 | 3.89 | 1.10 | 22.85 |
| 98 | DQL 2009 | 10.87 | 0.73 | 3.95 | 1.20 | 14.023 |
| 99 | DQL 2046 | 8.27 | 0.79 | 3.97 | 1.11 | 20.80 |
| 100 | DQL 2007 | 9.53 | 0.71 | 3.99 | 1.11 | 17.26 |
| 101 | DQL 2067 | 9.11 | 0.69 | 4.00 | 1.21 | 16.87 |
| 102 | DQL 2006 | 10.23 | 0.68 | 4.01 | 1.00 | 18.00 |
| 103 | DQL 2011 | 8.43 | 0.81 | 4.01 | 1.41 | 22.12 |
| 104 | DQL 2054 | 9.29 | 0.71 | 4.02 | 1.11 | 22.81 |
| 105 | DQL 2084 | 9.00 | 0.77 | 4.09 | 1.03 | 24.37 |
| 106 | DQL 2037 | 7.78 | 0.77 | 4.12 | 1.20 | 26.57 |
| 107 | DQL 2030 | 8.56 | 0.73 | 4.15 | 1.80 | 17.26 |
| 108 | DQL 2044 | 9.37 | 0.79 | 4.15 | 1.33 | 15.75 |
| 109 | DQL 2060 | 7.12 | 0.89 | 4.19 | 1.08 | 19.00 |
| 110 | DQL 2062 | 8.75 | 0.79 | 4.21 | 1.15 | 24.85 |

| | | | | | | |
|-----|------------|------|------|------|------|-------|
| 111 | DQL 2060 | 9.33 | 0.70 | 4.23 | 1.21 | 20.33 |
| 112 | DQL 2029 | 7.27 | 0.89 | 4.23 | 1.19 | 20.51 |
| 113 | DQL 2062-1 | 9.43 | 0.70 | 4.24 | 1.93 | 24.00 |
| 114 | DQL 2041-1 | 8.23 | 0.83 | 4.41 | 1.23 | 15.39 |

3. EVALUATION OF MAIZE GERMPLASM RECEIVED FROM DMR, FOR OIL ANALYSIS

Inbreds developed for high oil characteristics along with a large number of top crosses were analyzed for oil concentration in the whole kernel. A total of 77 inbreds (Table 3.1) were evaluated for total oil content. Only two lines were found to be having more than 6 per cent of oil (Table 3.1.1).

Table 3.1: Evaluation of maize germplasm for oil content

| S.NO. | PEDIGREE | OIL (%) |
|-------|--------------------|---------|
| 1. | TT100BBXTT14BB-1 | 3.80 |
| 2. | TT100BBXTT14BB-2 | 4.30 |
| 3. | TT100BBXTT14BB-3 | 2.24 |
| 4. | TT100BBXTT14BB-4 | 2.76 |
| 5. | TT100BBXTT14BB-5 | 3.18 |
| 6. | TT100BBXTT14BB-6 | 3.55 |
| 7. | TT100BBXTT14BB-7 | 5.31 |
| 8. | TT100BBXTT14BB-8 | 3.80 |
| 9. | TT100BBXTT14BB-9 | 4.32 |
| 10. | TT100BBXTT14BB-10 | 5.02 |
| 11. | TT100BBXTT14BB-11 | 4.66 |
| 12. | TT100BBXTT14BB-12 | 4.72 |
| 13. | TT100BBXTT14BB-13 | 4.15 |
| 14. | TT100BBXTT14BB-14 | 3.70 |
| 15. | TT100BBXTT14BB-15 | 3.40 |
| 16. | TT100BBXTT14BB-16 | 4.81 |
| 17. | TT100BBXTT14BB-17 | 4.26 |
| 18. | T00BBXTT14BB-18 | 3.87 |
| 19. | TT1100BBXTT14BB-19 | 4.36 |
| 20. | TT100BBXTT14BB-20 | 5.26 |
| 21. | TT100BBXTT14BB-21 | 3.55 |
| 22. | TT100BBXTT14BB-22 | 4.09 |
| 23. | TT100BBXTT14BB-23 | 2.23 |
| 24. | TT100BBXTT14BB-24 | 4.57 |
| 25. | TT100BBXTT14BB-25 | 3.25 |
| 26. | TT100BBXTT14BB-26 | 4.40 |
| 27. | TT100BBXTT14BB-27 | 4.55 |
| 28. | TT100BBXTT14BB-28 | 3.54 |
| 29. | TT100BBXTT14BB-29 | 4.79 |
| 30. | TT100BBXTT14BB-30 | 4.60 |
| 31. | TT100BBXTT14BB-31 | 4.98 |
| 32. | TT100BBXTT14BB-32 | 3.08 |
| 33. | TT100BBXTT14BB-33 | 3.05 |
| 34. | TT100BBXTT14BB-34 | 2.7 |
| 35. | TT100BBXTT14BB-35 | 4.07 |
| 36. | TT100BBXTT14BB-36 | 3.96 |
| 37. | TT100BBXTT14BB-38 | 3.40 |
| 38. | TT100BBXTT14BB-40 | 2.93 |
| 39. | TT100BBXTT14BB-41 | 4.25 |

| | | |
|-----|----------------------------------|------|
| 40. | TALAR X AF 04-6-57-96-A-7-1-1-1 | 3.07 |
| 41. | TALAR X AF 04-6-57-96-A-7-1-1-2 | 4.01 |
| 42. | TALAR X AF 04-6-57-96-A-7-1-1-3 | 3.97 |
| 43. | TALAR X AF 04-6-57-96-A-7-1-1-4 | 5.88 |
| 44. | TALAR X AF 04-6-57-96-A-7-1-1-5 | 5.48 |
| 45. | TALAR X AF 04-6-57-96-A-7-1-1-6 | 4.71 |
| 46. | TALAR X AF 04-6-57-96-A-7-1-1-7 | 4.09 |
| 47. | TALAR X AF 04-6-57-96-A-7-1-1-8 | 4.62 |
| 48. | TALAR X AF 04-6-57-96-A-7-1-1-9 | 7.34 |
| 49. | TALAR X AF 04-6-57-96-A-7-1-1-12 | 4.27 |
| 50. | TALAR X AF 04-6-57-96-A-7-1-1-13 | 4.06 |
| 51. | TALAR X AF 04-6-57-96-A-7-1-1-14 | 5.90 |
| 52. | TALAR X AF 04-6-57-96-A-7-1-1-15 | 4.66 |
| 53. | TALAR X AF 04-6-57-96-A-7-1-1-16 | 4.05 |
| 54. | TALAR X AF 04-6-57-96-A-7-1-1-17 | 3.83 |
| 55. | TALAR X AF 04-6-57-96-A-7-1-1-18 | 2.80 |
| 56. | TALAR X AF 04-6-57-96-A-7-1-1-19 | 3.49 |
| 57. | TALAR X AF 04-6-57-96-A-7-1-1-20 | 3.73 |
| 58. | TALAR X AF 04-6-57-96-A-7-1-1-21 | 2.48 |
| 59. | TALAR X AF 04-6-57-96-A-7-1-1-22 | 4.18 |
| 60. | TALAR X AF 04-6-57-96-A-7-1-1-23 | 5.82 |
| 61. | TALAR X AF 04-6-57-96-A-7-1-1-24 | 5.61 |
| 62. | TALAR X AF 04-6-57-96-A-7-1-1-25 | 4.06 |
| 63. | TALAR X AF 04-6-57-96-A-7-1-1-26 | 3.29 |
| 64. | TALAR X AF 04-6-57-96-A-7-1-1-27 | 5.34 |
| 65. | TALAR X AF 04-6-57-96-A-7-1-1-28 | 3.92 |
| 66. | TALAR X AF 04-6-57-96-A-7-1-1-29 | 3.59 |
| 67. | TALAR X AF 04-6-57-96-A-7-1-1-30 | 4.86 |
| 68. | TALAR X AF 04-6-57-96-A-7-1-1-31 | 5.68 |
| 69. | TALAR X AF 04-6-57-96-A-7-1-1-32 | 4.90 |
| 70. | TALAR X AF 04-6-57-96-A-7-1-1-33 | 4.19 |
| 71. | TALAR X AF 04-6-57-96-A-7-1-1-34 | 4.30 |
| 72. | TALAR X AF 04-6-57-96-A-7-1-1-35 | 4.85 |
| 73. | TALAR X AF 04-6-57-96-A-7-1-1-36 | 5.82 |
| 74. | TALAR X AF 04-6-57-96-A-7-1-1-37 | 4.39 |
| 75. | TALAR X AF 04-6-57-96-A-7-1-1-38 | 5.85 |
| 76. | TALAR X AF 04-6-57-96-A-7-1-1-39 | 4.15 |
| 77. | TALAR X AF 04-6-57-96-A-7-1-1-40 | 6.25 |

Table 3.1.1: Most promising lines for oil content

| S.NO. | PEDIGREE | OIL (%) |
|-------|----------------------------------|---------|
| 1. | TALAR X AF 04-6-57-96-A-7-1-1-9 | 7.34 |
| 2. | TALAR X AF 04-6-57-96-A-7-1-1-40 | 6.25 |

4. EVALUATION OF MAIZE HYBRIDS RECEIVED FROM DMR, DELHI FOR STARCH PROFILE

Data in Table 4.1 presents the values of starch profile (starch, amylose and amylopectin) of 30 different hybrids. The range of starch varied from 67.77 to 74.82 per cent with lowest and highest values being observed in the genotype CMH-08-433 and A-7501, respectively. The range of amylose in starch varied from 25.69 to 45.79 per cent with lowest and highest values being observed in the genotypes CMH-08-350 and CMH 08-292, respectively. Amylopectin content in starch ranges from 54.21 (CMH 08-292) to 74.32 (CMH 08-350) per cent.

Table 4.1: Starch Profile of maize hybrids

| S.NO. | Pedigree | Starch (%) | Amylose(% of starch) | Amylopectin (% of starch) |
|-------|---------------|------------|----------------------|---------------------------|
| 1. | BIO-688 | 73.00 | 30.12 | 69.88 |
| 2. | CMH-08-287 | 70.73 | 33.43 | 66.57 |
| 3. | IMH-666 | 71.59 | 28.52 | 71.49 |
| 4. | VMH-4106 | 70.95 | 30.14 | 69.86 |
| 5. | KDMH-755 | 70.34 | 34.87 | 65.14 |
| 6. | CMH-08-433 | 67.77 | 30.80 | 69.21 |
| 7. | PFMH-96-141 | 72.32 | | |
| 8. | 31Y45 | 74.62 | 31.37 | 68.64 |
| 9. | X35A174 | 72.99 | 38.04 | 61.96 |
| 10. | SUM-VAMAN | 73.90 | 28.01 | 72.00 |
| 11. | Bisco-2668 | 69.93 | 26.46 | 73.55 |
| 12. | CMH 08-350 | 69.93 | 25.69 | 74.32 |
| 13. | CMH 08-292 | 68.26 | 45.79 | 54.21 |
| 14. | PFMH 96-N-96 | 71.31 | 35.54 | 64.46 |
| 15. | KDMH 176 | 70.62 | 39.62 | 60.38 |
| 16. | BIO 151 | 72.32 | 38.08 | 61.92 |
| 17. | P 3396 | 71.65 | 35.47 | 64.53 |
| 18. | A 7501 | 74.82 | 36.04 | 63.97 |
| 19. | BH 41009 | 72.15 | 38.46 | 61.55 |
| 20. | BIO 562 | 74.67 | 35.63 | 64.37 |
| 21. | JKMH 7004 | 68.82 | 43.43 | 56.57 |
| 22. | S 6217 | 69.27 | 38.85 | 61.66 |
| 23. | NMH 1242 | 69.88 | 38.12 | 61.89 |
| 24. | 35A176 | 73.02 | 44.03 | 55.97 |
| 25. | B 63 | 72.81 | 35.93 | 64.08 |
| 26. | BISCO-new-704 | 71.99 | 40.55 | 59.45 |
| 27. | S 6304 | 71.72 | 26.39 | 73.62 |
| 28. | FH 3513 | 71.75 | 42.13 | 57.87 |
| 29. | TITAN | 71.80 | 41.57 | 58.44 |
| 30. | NMH 713 | 73.70 | 40.54 | 59.46 |

5. EVALUATION OF NORMAL MAIZE GERMLASM RECEIVED FROM DMR, DELHI FOR NUTRITION PROFILE

A set of lines (191 nos.) received from DMR, Delhi were analyzed for nutritional quality parameters such as protein, oil, sugar and starch (Table 5.1). The purpose of this experiment was to identify some nutritionally superior germplasm for quality traits. Wide variability was observed in the protein content ranging from 7.74 {(DTPYC9-F38-4-3-1-3-2-1-2-B/WLS-F36-4-2-2-B)-B-B-3-B)} to 12.96 {(DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-B-B-1-B)} per cent. Oil content ranges from 2.67 (EC-656232-1) to 5.63 ((DTPWC9-F16-1-1-3-2-2-2-1-B/WLS-F36-4-2-2-B)-B-B-4-B-1), whereas sugar concentration ranges from 3.36 {(DTPWC9-F31-1-1-3-1-2-1-3-B/WLS-F36-4-2-2-B)-B-B-2-B)} to 5.88 {(CL-RCY016x(CML165xCLQ-6203)-B-54-1-1-BB)-B-28-1-BBB-B)} per cent. Starch content exhibited wide variability with values ranging from 65.13

{(DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-B-B-1-B)} to 72.86
 {(G18Seq-C5-F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)} per cent.

Table 5.1: Biochemical profile of normal maize germplasm

| S. No. | Pedigree | Protein (%) | Oil (%) | Sugar (%) | Starch (%) |
|--------|--|-------------|---------|-----------|------------|
| 1 | CML 175-BBB-1-BBB | 9.39 | 4.63 | 3.77 | 70.29 |
| 2 | (G18Seq C5 F76-2-2-1-1-1-B/WLS-F36-4-2-2-B)-B-B-16-B | 9.18 | 4.27 | 3.69 | 70.82 |
| 3 | (CLQ-RCYQ31xCLQ-RCYQ35)-B-8-2-BBB-B-1 | 9.78 | 3.72 | 3.85 | 68.18 |
| 4 | (CLQ-RCYQ31xCLQ-RCYQ35)-B-8-2-BBB-B-2 | 9.68 | 3.70 | 5.65 | 65.89 |
| 5 | (DTPYC9-F69-3-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-B-B-7-B | 12.26 | 3.98 | 3.88 | 67.71 |
| 6 | Pop61C1QPMTEYF-88-1-3-1-1-B-1-BBB | 11.15 | 4.80 | 3.65 | 70.48 |
| 7 | (CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-6-2-B*4-1 | 8.60 | 3.50 | 3.51 | 70.33 |
| 9 | (G18Seq C5 F76-2-2-1-1-1-B/(DT/LM/EM-46-3-1xCML311-2-1-3) | 11.51 | 3.87 | 3.74 | 71.88 |
| 10 | Pop61C1QPMTEYF-88-1-3-2-1-B-1-BBB | 10.17 | 4.55 | 3.64 | 70.52 |
| 13 | (DTPWC9-F2-3-1-1-2-1-2-1-B/(DT/LN/EM-46-3-1xCML311-2-1--- | 11.77 | 4.21 | 4.26 | 67.60 |
| 15 | (DTPYC9-F69-3-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-B-B-1-B-1 | 8.61 | 4.85 | 3.74 | 68.91 |
| 16 | (ZM621A-10-1-1-1-2-B*7-B-B-6/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F2 | 9.24 | 4.45 | 3.67 | 70.96 |
| 17 | (DTPYC9-F38-4-3-1-3-2-1-2-B/WLS-F36-4-2-2-B)-B-B-3-B | 7.74 | 4.09 | 3.49 | 69.93 |
| 18 | (CML161X(CL-02821*CML285)-B-6-2-1-B*4-1-BBB | 9.01 | 4.89 | 3.82 | 70.18 |
| 19 | (DTPYC9-F38-4-3-1-3-2-1-2-B/WLS-F36-4-2-2-B)-B-B-6-B | 10.51 | 3.10 | 3.92 | 71.95 |
| 20 | CM-212 | 11.24 | 3.44 | 4.32 | 67.75 |
| 22 | (G18Seq C5 F100-1-3-1-2-b/WLS-F36-4-2-B)-B-B-5-B | 11.03 | 3.64 | 3.75 | 70.76 |
| 23 | (CML161/CML165)-BBB-4-B*5-B | 8.03 | 4.48 | 3.46 | 68.38 |
| 24 | G18Seq-C5-F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3) | 9.97 | 3.62 | 4.79 | 72.86 |
| 27 | (DTPWC9-F31-1-1-3-1-2-1-3-B/WLS-F36-4-2-2-B)-B-B-2-B | 8.02 | 3.72 | 3.36 | 69.92 |
| 28 | (G18Seq C5 F100-1-1-3-1-2-B/Bio9681-WLS-6-3-2-1-2-B-B-B)-B-B-2-B | 10.95 | 3.85 | 3.50 | 71.04 |
| 29 | (DTPWC9-F2-3-1-1-2-1-2-1-B/(DT/LN/EM-46-3-1xCML311-2-1--- | 11.10 | 4.93 | 4.06 | 70.56 |
| 30 | (DTPWC9-F24-4-3-1-2-1-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1 | 8.99 | 3.83 | 3.38 | 70.42 |
| 31 | Z172-224 | 11.37 | 2.89 | 4.03 | 72.64 |
| 32 | CLQ-RCYQ12-B-1-BBB | 9.87 | 4.36 | 3.69 | 70.47 |
| 33 | (G18Seq C5 F76-2-2-1-1-1-B/WLS-F36-4-2-2-B)-B-B-5-B | 12.39 | 3.80 | 4.05 | 70.15 |
| 34 | (G18Seq C5 F76-2-2-1-1-1-B/WLS-F36-4-2-2-B)-B-B-10-B | 9.90 | 3.76 | 3.80 | 71.26 |
| 36 | (G18Seq C5 F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1 | 9.32 | 4.06 | 3.46 | 71.05 |
| 37 | (CL-G2501xCL-RCW29)-B-14-1-B-2-BxCML161)-B-2-2-BB-1-BB-B | 9.88 | 4.02 | 3.81 | 71.10 |
| 39 | (DTPWC9-F31-1-1-3-1-2-1-3-B/WLS-F36-4-2-2-B)-B-B-5-B | 10.45 | 4.16 | 3.69 | 71.31 |
| 40 | (DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-B-B-1-B | 12.96 | 4.01 | 5.55 | 65.13 |
| 41 | (DTPWC9-F2-3-1-1-2-1-2-1-B/WLS-F36-4-2-2-B)-B-B-4-B | 11.21 | 4.05 | 4.22 | 70.46 |
| 42 | (DTPYC9-F38-4-3-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1 | 10.62 | 4.22 | 4.33 | 71.12 |
| 44 | (CLQ-RCYQ28*P390Am/CMLc4F218-B-1-B)-B-7-2-B*4-B | 9.24 | 3.37 | 3.92 | 71.79 |
| 45 | (G18Seq C5 F100-1-1-3-1-2-B/WLS-F36-4-2-2-B)-B-B-10-B | 10.08 | 4.11 | 3.36 | 71.55 |
| 46 | (DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F-243--1 | 12.41 | 4.51 | 4.03 | 69.31 |
| 47 | (DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F-243--2 | 10.13 | 5.32 | 3.59 | 70.63 |
| 49 | (G18Seq C5 F76-2-2-1-1-1-B/WLS-F36-4-2-2-B)-B-B-1-B | 11.84 | 4.35 | 3.99 | 70.56 |
| 50 | (DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-B-B-3-B | 9.33 | 4.84 | 3.71 | 70.45 |
| 51 | (DTPWC9-F16-1-1-3-2-2-2-1-B/WLS-F36-4-2-2-B)-B-B-1-B-1 | 9.20 | 3.95 | 3.60 | 70.42 |

BC20

| | | | | | |
|-----|---|-------|------|------|-------|
| 53 | (DTPYC9-F38-4-3-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1 | 9.93 | 4.54 | 3.76 | 71.09 |
| 54 | (DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1----- | 10.78 | 4.39 | 4.19 | 70.11 |
| 55 | (CLQ-RCYQ44=(CML140xCL-03618)-B-16-1-2-BxCLQ-RCYQ14=(CML164*CML161)-B-1-1-1-BBB)-B-11-2-BBB-B | 8.07 | 4.92 | 4.19 | 69.84 |
| 58 | (CL-RCY016x(CML165xCLQ-6203)-B-54-1-1-BB)-B-28-1-BBB-B | 8.66 | 5.15 | 5.88 | 67.91 |
| 59 | (G18Seq-C5F100-1-1-3-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1 | 10.53 | 3.20 | 4.16 | 70.07 |
| 61 | (G18Seq-C5F100-1-1-3-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-3 | 10.55 | 4.00 | 3.91 | 72.00 |
| 62 | (DTPYC9-F46-3-6-1-2-2-1-2-B/WLS-F36-4-2-2-B)-B-B-6-B | 11.66 | 3.98 | 4.06 | 71.75 |
| 63 | (DTPWC9-F16-1-1-3-2-2-2-1-B/WLS-F36-4-2-2-B)-B-B-4-B-1 | 11.23 | 5.63 | 4.12 | 69.88 |
| 75 | (DTPWC9-F67-2-2-1-3-2-1-2-B/WLS-F36-4-2-2-B)-B-B-6-B | 9.04 | 4.68 | 3.59 | 70.05 |
| 78 | (DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B-B-B-B)-B-B-1-B-1 | 9.94 | 4.70 | 3.75 | 70.81 |
| 79 | (DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B-B-B-B)-B-B-1-B-2 | 10.83 | 4.15 | 3.89 | 71.20 |
| 82 | (G18Seq C5 F76-2-2-1-1-1-B/Bio9681-WLS-6-3-2-1-2-B-B-B-B)-1 | 11.19 | 4.39 | 4.02 | 71.39 |
| 83 | (G18Seq C5 F76-2-2-1-1-1-B/Bio9681-WLS-6-3-2-1-2-B-B-B-B)-2 | 11.42 | 5.24 | 4.14 | 70.91 |
| 86 | CML189-B*5 | 10.40 | 4.51 | 3.87 | 71.60 |
| 90 | EC-632059 | 9.85 | 4.58 | 4.40 | 70.78 |
| 91 | EC-632064 | 8.45 | 4.46 | 4.27 | 70.00 |
| 100 | EC-632068-1 | 9.05 | 4.50 | 4.74 | 69.90 |
| 102 | EC-637990-1 | 10.74 | 4.23 | 4.79 | 70.77 |
| 104 | EC-637990-3 | 8.03 | 4.63 | 3.83 | 68.05 |
| 109 | EC-638977 | 9.70 | 4.15 | 4.94 | 71.70 |
| 110 | EC-639070 | 8.43 | 4.59 | 4.05 | 69.65 |
| 113 | EC-639224 | 11.50 | 3.99 | 4.94 | 68.76 |
| 121 | EC-639263-3 | 8.13 | 3.70 | 4.57 | 71.78 |
| 127 | EC-639328-1 | 8.29 | 4.98 | 4.20 | 69.49 |
| 128 | EC-639328-2 | 9.60 | 4.46 | 4.46 | 71.92 |
| 139 | EC-639428 | 11.52 | 3.98 | 4.86 | 71.22 |
| 143 | EC-639456-1 | 9.64 | 3.82 | | 72.36 |
| 148 | EC-639538-1 | 9.49 | 3.72 | 4.31 | 71.01 |
| 149 | EC-639538-2 | 9.59 | 4.94 | 4.19 | 71.75 |
| 152 | EC-639572 | 8.94 | 4.97 | 4.74 | 69.21 |
| 153 | EC-639578-1 | 9.06 | 4.57 | 4.25 | 71.76 |
| 154 | EC-639578-2 | 10.05 | 4.93 | 4.51 | 71.29 |
| 155 | EC-639581 | 11.10 | 4.94 | 4.79 | 69.74 |
| 164 | EC-656207 | 11.41 | 4.62 | 4.21 | 70.12 |
| 165 | EC-656232-1 | 10.89 | 2.67 | 4.39 | 71.95 |
| 172 | IC-75052-1 | 11.19 | 4.39 | 4.08 | 69.93 |
| 181 | IC-75083-1 | 11.33 | | 4.24 | 69.74 |
| 182 | IC-75083-2 | 10.48 | 4.01 | 4.49 | 71.01 |
| 189 | IC-405279-1 | 11.79 | 4.01 | 3.89 | 71.17 |
| 190 | IC-405279-2 | 9.58 | 3.74 | 3.91 | 70.98 |
| 191 | IC-405279-3 | 11.70 | 3.97 | 4.37 | 71.43 |

FRONT LINE DEMONSTRATIONS

Front Line Demonstrations

The Directorate of Maize Research is providing extension service to the nation through organizing Frontline Demonstrations (FLDs) under Integrated Scheme on Oilseed, Pulses, Oilpalm and Maize (ISOPOM) Ministry of Agriculture, Government of India. DMR has allocated 7255 FLDs for *rabi*/spring 2012-13 and 5175 FLDs for *kharif* 2013. Out of these, various DMR centres, agencies and NGOs conducted 2188 during *rabi* 2012-13, 754 in spring 2013 and 3603 FLDs during *kharif* 2013. Thus, a total of 6545 FLDs were conducted in three seasons. These demonstrations were laid out in twenty-six states by fifty centres/agencies/NGOs and an average grain yield of 5100 kg/ha was recorded which showed an increase of 98.77 per cent over all India average yield of maize.

FLD2

Table 1: Summary of Frontline Demonstrations in Maize conducted by various centers of DMR and NGOs during Rabi 2012-13.

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | Performance of FLDs (kg/ha) | State average yield (kg/ha) | %Increase over state average Yield |
|--------|--------------|--|---|---|--|------------------------------|-----------------------------|------------------------------------|
| 1 | A.P. | Maize Research Centre, ARI, ANGRAU, Rajendra Nagar Hyderabad | Warangal Srikakulam, Guntur | DHM117, 30V92, 900M gold | 66 | 6834.0 | 6174.0 | 10.7 |
| | | Maize Winter Nursery Rajendra Nagar Hyderabad | East Godavari, MahabubNagar | 30V90, DHM-117 | 106 | 9347.0 | 6174.0 | 51.4 |
| | | DMR, Pusa Campus New Delhi | Chittoor | HQPM-1 | 1 | 6400.0 | 6174.0 | 3.7 |
| 2 | Bihar | Regional Maize Research & Production Centre Kushmahout Farm, Begusarai | Lakhisarai, Vaishali, Khagaria, Patana, Katihar, Samastipur, Begusarai, Bhagalpur | HQPM-1, HM-4, DHM-117 | 57.5 1(Seed P.) 58.5(Total) | 5858(grain) 1300(S.P.) | 4309.0 | 3595.0 |
| | | Tirhut College of Agriculture, Dholi | Siwan, Muzaffarpur, Samastipur, East champaran, Siwan | Shaktiman 3, Shaktiman 4 | 45 (grain) 10 (Seed P) 55(Total) | 5728 (grain) 274(Seed P) | 4309 | 32.93 |
| | | Indian Maize Development Association | Bettiah, Madhepura, Begusarai, Bhagalpur, Dhumka, Purnia, Khagaria, Muzaffarpur | All Rounder, 900M Gold | 150 | 6486.0 | 4309.0 | 50.5 |
| | | Society for Promotion of Agricultural Research & Knowledge (SPARK) | Samastipur, Muzaffarpur | Shaktiman-2, M900 Gold, M9081 | 78 | 4533.0 | 4309.0 | 5.2 |
| 3 | Chhattisgarh | KVKs of zone VII, Zonal Project Directorate, Jabalpur | Kondagaon and Bastar Dantewada, Narayanpur Kanker, | Hicell, 900 M Gold, Indira-017 and Aditya Hy-PAC 740 Hybrid PAC-751 & NSC-6004 Hybrid | 150 | 4805.0 | 4158.0 | 15.6 |
| 4 | Gujarat | S.D.Agricultural University, Bhiloda, Sabarkantha | Sabarkantha | HQPM-1 | 50 | 2452.0 | 1953.0 | 25.6 |
| | | Main Maize Research Station, Anand Agri. University, Godhra | Panchmahals, Dahod | HQPM-1 | 100 | 3242.0 | 1953.0 | 66.0 |
| 5 | Haryana | Directorate of Maize Research, Pusa Campus New Delhi | Faridabad, Jhajjar, Panipat | HQPM-1 | 3.5 | 6442.0 | 4158.0 | 54.9 |
| | | Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti | Sonepat | 5414 (baby Corn) | 100(B.C) | 1000 (B.C.) | | |
| 6 | Maharashtra | Indian Maize Development Association | North Maharashtra | HQPM-1, Pioneer 30V92 | 75 | 6558.0 | 1820.0 | 260.3 |

Table 1(Cont...)

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | Performance of FLDs during (kg/ha) | State average yield (kg/ha) | %Increase over state average yield |
|--------|------------|--|---|--|-------------------------------------|------------------------------------|-----------------------------|------------------------------------|
| 7 | M.P. | Zonal Agri. Research Station RVSKVV, Jhabua | Jhabua | Bio 9637, DMH-7314, Bio 9681, PSC-3322, Pro Agro | 150 | 5069.0 | 4158.0 | 21.9 |
| | | JNKVV, Zonal Agri. Research Station Chhindwara | Chhindwara | JM-216 | 11 | 4979.0 | 4158.0 | 19.8 |
| | | KVKs of Zone VII, Zonal Project Directorate, Jabalpur | Burhanpur | Component | 100 | 10908.0 | 4158.0 | 162.3 |
| 8 | Odisha | Department of Plant Breeding & Genetic, College of Agri. OUAT, Bhubaneswar | Kalahandi, Balasore | Hishell, HQPM-5 | 115 | 5392.0 | 2793.0 | 93.1 |
| | | Zone VII, KVK, Jharsuguda | Jharsuguda, Sundargarh | 30R77, MRM 3777 | 60 | 4837.0 | 2793.0 | 73.2 |
| 9 | Rajasthan | ARS Banswara (MPUAT-Udaipur) Rajasthan | Banswara | HQPM-1 | 76 | 6614.0 | 3444.0 | 92.0 |
| 10 | Tamil Nadu | Maize Research Station, Tamil Nadu Agricultural University, Vagarai | Dindigul, Theni, Karur, Coimbatore, Tiruppur, Perambalur | Maize hybrid TNAU CO 6 | 50 | 7183.0 | 2819.0 | 154.8 |
| | | Tamil Nadu Agricultural University Coimbatore | Namakkal, Erode, Tanjore, Tirunelveli, Coimbatore, Salem, Tirpur, Dindugal, Tiruvannamala, Tiruchi, Virudhunagar, Vellore, Villupuram, Perambalur, Ariyalur, Cuddalore, Theni, Krishnagiri, Tiruvarur | NAU Maize hybrid CO6 | 200 | 7908.0 | 2819.0 | 180.5 |
| 11 | Tripura | KVK of Zone III, South Tripura, Divyodaya KVK, West Tripura | South Tripura, West Tripura | HQPM-1, DMH-849 | 6.1 | 2772.0 | 4158.0 | -33.3 |

FLD4

Table 1(Cont...)

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | Performance of FLDs (kg/ha) | State average yield (kg/ha) | %Increase over state average yield |
|--------|--------|--|---|-------------------------------|-------------------------------------|-----------------------------|-----------------------------|------------------------------------|
| 12 | U.P. | Udyaniki Krishi Anusandhan Samiti, Lucknow, U.P. | Lucknow, Banda, Ballia, Chatrpati Shivaji Maharaj Nagar, Kushinagar, Deoria, Faizabad, Azamgarh | Pro. Agro 4640 | 50 | 7766.0 | 2105.0 | 268.9 |
| | | Gram Vikas Samiti Barabanki | Sravasti , Bahraich | 900M Gold, Magnam | 275 | 6000.0 | 2105.0 | 185.0 |
| | | U.P. Maize Development Association | Shahjahanpur, Kushinagar, Aligarh | Super 900 M, Hi-Shell, HQPM-1 | 100 | 5812.0 | 2105.0 | 176.1 |
| | | Directorate of Maize Research, Pusa Campus New Delhi | Allahabad, Aligarh | HQPM-1 | 2 | 6250.0 | 2105.0 | 196.9 |
| | | | Total | Normal maize for grain | 2077.1 | 6239.0 | | |
| | | Baby Corn(dehusked) | | 100.0 | 1000.0 | | | |
| | | Seed Production | | 11.0 | 367.0 | | | |
| | | | | 2188.1 | | | | |

Table 2: Summary of Frontline Demonstrations in Maize conducted by various centers of DMR and NGOs during Spring 2013.

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | FLDs Performance during Spring 2013 (kg/ha) | State average Yield (Kharif 2013) (kg/ha) | %Increase over state average Yield of Kharif 2013 |
|--------------|----------------|--|---|---|---|---|---|---|
| 1 | Bihar | Indian Maize Development Association | Madhepura, Purnea, Bhagalpur Khagaria, Muzaffarpur, Bettiah | 9108 Power, Pioneer 31 Y45 | 50 | 5396.0 | 2476.0 | 117.9 |
| | | VASFA | Muzaffarpur, Vaishali | D.K.C 9072 | 25 | 4280.0 | 2476.0 | 72.9 |
| 2 | Chhattisgarh | KVK of Zone VII, Dantewada (C.G.) | Dantewada | PAC-740 | 30 | 4270.0 | 1936.0 | 120.6 |
| 3 | Haryana | CCHAU RRS Uchani, Karnal (Haryana) | Panchkula, Kurukshetra, Karnal, Panipat, Sonipat, Kaithal, Yamuna Nagar | HQPM-1, HQPM-5, HM- 5 | 192(grain) 8(Green Cob) 200 (Total) | 5075 169.4 | 2556.0 | 72.0 |
| | | KVK of Zone I, Zonal Project Directorate, Ludiana | Kurukshetra, Yamunanagar | HM 5 & HQPM-5 | 28 | 4183.0 | 2556.0 | 63.7 |
| | | Indian Maize Development Association | Ambala, Yamunanagar, Naraingarh, Kurushetra, Panchkula | 9108 Power, 9018 | 75 | 4982.0 | 2556.0 | 94.9 |
| 4 | J&K | SKUAST-Jammu | Doda, Kathua, Poonch | KH-612, Pro-Agro-4794 | 67.5 | 3373.0 | 1648.0 | 104.7 |
| 5 | Madhya Pradesh | Directorate of Maize Research, Pusa Campus, New Delhi | M.P. | HQPM-1 | 1 | 5560.0 | 1790.0 | 210.6 |
| 6 | Odisha | Zone VII, KVK, Sundargarh | Sundargarh | Madhu 3510/ MRM 3777 | 30 | 4914.0 | 2393.0 | 105.4 |
| 7 | Punjab | Maize Section, Deptt. Of Plant Breeding, Genetics & Biotech, PAU, Ludhiana | Kapurthala, Shaheed Bhagat Singh Nagar, Hoshiarpur, Jalandhar | PMH 1, PMH-7 | 26 | 6410.0 | 3682.0 | 74.1 |
| | | KVK of Zone I, Zonal Project Directorate, Ludhiana | Shaheed Bhagat Singh Nagar | PMH-1 & PMH-7 | 6 | 6000.0 | 3682.0 | 63.0 |
| 8 | U.P. | Directorate of Maize Research, Pusa Campus New Delhi | Bulandshahar, Grater Noida, Panchsheel Nagar | HQPM-1, HQPM-5 | 15.5 | 5452.0 | 1654.0 | 229.6 |
| | | Gram Vikas Samiti Barabanki | Bahraich, Gonda | 31Y45 | 100 | 5400.0 | 1654.0 | 226.5 |
| | | Indian Maize Development Association | Lucknow | Hi-Shell, Pioneer 31Y45 | 50 | 5060.0 | 1654.0 | 205.9 |
| | | VARDAN | Bulandshahar | Hi Sell (Double), X47, Visco 740, 31Y45 | 50 | 4652.0 | 1654.0 | 181.3 |
| Total | | | | Normal maize for grain | 746 | 4911.0 | | |
| | | | | Green Cobs | 8 | 16940 | | |
| | | | | | 754 | | | |

FLD6

Table 3: Summary of Frontline Demonstrations in Maize conducted by various centers of DMR and NGOs during Kharif 2013.

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | FLDs Performance (kg/ha) | State average yield during Kharif 2013(kg/ha) | %Increase over state average yield |
|--------|----------------|--|--|---------------------------|--|---|---|------------------------------------|
| 1 | Andhra Pradesh | Maize Winter Nursery Rajendra Nagar Hyderabad | Ranga Reddy, Prakasam | DHM-117 | 100 | 7451.0 | 4145.0 | 79.8 |
| | | Maize Research Centre, ARI, ANGRAU, Rajendra Nagar Hyderabad | Ranga Reddy, Nalgonda, Adilabad Mahaboobnaga, Warangal, Kurnool, Vizianagaram, Srikakulam, Visakhapatnam | DHM-117 | 500 | 6250.0 | 4145.0 | 5078.0 |
| 2 | Assam | KVK of Zone III, Karbianglong | Karbianglong | Navjot | 6 | 4200.0 | 897.0 | 368.2 |
| 3 | Bihar | Tirhut College of Agriculture, Dholi | Arwal, Samastipur, East Champaran, Muzaffarpur, Chapra, Siwan, Vaishali, Muzaffarpur | Shaktiman-3, Shaktiman -2 | 89.5 (grain) 4(Seed P) 93.5 (Total) | 4923(Grain) 412(SP) | 2476.0 | 98.8 |
| | | Regional Maize Research & Production Centre Kushmahout Farm, Begusarai | Patna, Begusarai, Vaishali, Supaul, Bhojpur, Katihar | DHM-117, HQPM-1 | 72.5 (Grain) 25(crop failed) 97.5(Total) | 3232(Grain) | 2476.0 | 3053.0 |
| 4 | Chhattisgarh | RMD College of Agri. And Research Station, Ajirma, Ambikapur | Surguja, Surajpur | Hishell | 50 | 3641.0 | 1936.0 | 88.1 |
| 5 | Delhi NCR | Directorate of Maize Research, Pusa Campus, New Delhi | Delhi NCR | DHM-117, HM-4 | 0.75 (Grain) 1(Baby Corn) 1.75 (Total) | 5200 (Grain) 1500 (Dehusked Baby Corn) | 2245.0 | 131.6 |
| 6 | Gujarat | Main Maize Research Station Anand Agri. University, Godhara | Panchmahal, Dahod, Vadodara | HQPM-1 | 97 | 2650.0 | 1676.0 | 58.1 |
| | | Maize Research Station, SDAU, Bhiloda, Dantewada | Sabarkantha, Banaskantha | HQPM-1 | 48(3 Failed) 51(Total) | 2375.0 | 1676.0 | 41.7 |

Table 3 (Cont...)

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | FLDs Performance during 2013 Kharif (kg/ha) | State average yield during Kharif 2013(kg/ha) | %Increase over state average yield |
|--------|------------------|--|---|--|-------------------------------------|---|---|------------------------------------|
| 7 | Himachal Pradesh | CSKHPKV, HAREC, Bajaura | Kullu, Mandi | HQPM 1 | 75 | 4543.0 | 2233.0 | 103.5 |
| | | Shivalik Agri. Research and Extension Centre, Kangra | Kangra | BISCO 855, HQPM-1, KH-717 | 50 | 3512.0 | 2233.0 | 57.3 |
| | | CSKHPKV, Hill Agricultural Research & Extension Centre | Sirmour | HQPM-1, KH 5991 | 57 | 3651.0 | 2233.0 | 63.5 |
| | | KVKs of Zone I, Zonal Project Directorate | Sirmour, Kullu, Hamirpur, Kangara | Hybrid PAC-740, HQPM-1, K-25 Gold, PG 2474 | 32 | 3353.0 | 2233.0 | 50.2 |
| | | Corn Specialty Farmers Forum Kala-Amb | Sirmour, Nahan, Bilaspur, Panchkula | Power 9108, Pioneer 31Y 45 | 75 | 4294.0 | 2233.0 | 92.3 |
| 8 | Haryana | KVKs of zone I, Zonal Project Directorate, Ludhiana | Sonipat | G-5414 (Baby Corn), Sugar-75 (Sweet Corn) | 2.5 (B.C) 2.5 (S.C.) | 2275(B.C.) 15000(SC) | 2556.0 | |
| | | Directorate of Maize Research, Pusa Campus, New Delhi | Rewari, Gurgaon, Sonipat, Fatehabad, Hisar | DHM-117, HQPM-1, HM-4 | 14 (Grain) 18 (BC) | 5614 (Grain) 1317 (BC) | 2556.0 | 119.6 |
| | | Indian Maize Development Association | Ambala, Yamuna Nagar, Kurukshetra, Panchkula, Narain | HQPM-1, 9108 Power | 30 | 4622.0 | 2556.0 | 80.8 |
| | | Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti | Sonipat | HM-4, 5414, Sugar 75 | 16 (B.C.) 34 (S.C) | 865.75(B.C.) 5382 (S.C.) | 2556.0 | |
| 9 | Jammu & Kashmir | SKUAST- Kashmir | Pulwama, Bandipora, Ganderbal, Kulgam, Budgam, Shopian, | Composite-15, Composite-8, Composite-6, HQPM-1, HM-4 | 335 | 4430.0 | 1648.0 | 168.8 |
| | | KVKs of Zone I | Jammu, Udhampur, Rajouri | Dekalb, ProAgro 4794, Bioseed | 49.5 | 2397.0 | 1648.0 | 45.5 |
| 10 | Jharkhand | Birsa Agricultural University, Ranchi | Ranchi, Khuti, Palamu | HQPM-1 | 62.95 | 2755.0 | 1790.0 | 5391.0 |

FLD8

Table 3 (Cont...)

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | FLDs Performance during 2013 Kharif (kg/ha) | State average yield during Kharif 2013(kg/ha) | %Increase over state average yield |
|--------|----------------|---|---|---|-------------------------------------|---|---|------------------------------------|
| 11 | Karnataka | Indian Maize Development Asssocation | Shimoga, Belgum | 900 M Gold, Deccan-103 | 50 | 4178.0 | 2563.0 | 6301.0 |
| | | Zonal Agri. Research Station, V.C Farm, Mandya | Bangalore Rural, Chamarajanagara, Chikkabellapure & Kolar, Chitradurga, Hassan, Mandya, Mysore, Ramanagaram, Tumkur | Nithya shree (NAH-2049) and Hema (NAH-1137) | 50 | 5391.0 | 2563.0 | 110.3 |
| 12 | Kerala | Directorate of Maize Research, Pusa Campus New Delhi | Palakkad | DHM-117 | 0.5 | 2000.0 | 2245.0 | -10.9 |
| 13 | Maharashtra | Maize Improvement Project, Kasaba Bawada, Kolhapur | Sangli, Parbhani | Rajarshi Hybrid | 96 | 5834.0 | 2296.0 | 154.1 |
| 14 | Madhya Pradesh | JNKVV, Zonal Agri. Research Station Chhindwara | Chhindwara | JM-216, DHM-117 | 50 | 3394.0 | 1790.0 | 89.6 |
| | | Zonal Agri. Research Station RVSKVV, Jhabua | Jhabua | NMH 4040, Nath 2002 | 100 | 2750.0 | 1790.0 | 53.6 |
| | | KVKs of Zone VII, Zonal Project Directorate, Jabalpur | Badwani, Dhar, Dindori, Jashpur, Jhabua, Shahdol | F1 Hybrid 6240, Pro 4212, HQPM-5, Bhutta, Nath2002 & 4194 (pro agro), | 240 | 2752.0 | 1790.0 | 53.7 |
| 15 | Manipur | KVKs of Zone III, Bishnupur, | Thoubal, Bishnupur | HQPM-1, RCM-75 | 9.6 | 2669.0 | 2245.0 | 18.9 |
| 16 | Mizoram | KVKs of Zone III, Serchipp | Serchipp | HQPM-1 | 5 | 3825.0 | 2245.0 | 70.4 |
| 17 | Meghalaya | KVKs of Zone III, West Khashi Hill | West Khashi Hill | DA 61-A | 2.5 | 1650.0 | 2245.0 | -26.5 |
| 18 | Nagaland | KVKs of Zone III, Mon | Mon | DMH-849 | 5 | 1865.0 | 2245.0 | -16.9 |

Table 3 (Cont...)

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | FLDs Performance during 2013 Kharif (kg/ha) | State average Yield during Kharif 2013(kg/ha) | %Increase over state average Yield |
|--------|--------------|--|--|---|-------------------------------------|---|---|------------------------------------|
| 19 | Odisha | Department of Plant Breeding & Genetic, College of Agri. OUAT, Bhubaneswar | Kuskela, Bolangir, Jamjor, Kalahandi | Hi-Shell | 100 | 6171.0 | 2393.0 | 157.9 |
| 20 | Punjab | Zone I of KVKs, Zonal Project Directorate | Amritsar, Shaheed Bhagat Singh Nagar, Patiala | Pioneer P3396, 31Y45, PMH 1 | 25 | 4524.0 | 3682.0 | 22.9 |
| | | Maize Section, Deptt. Of Plant Breeding, Genetics & Biotech, PAU, Ludhiana | Hoshiarpur, Jalandhar, Ropar, Patiala, Gurdaspur, Kapurthala, Sangrur, Ludhiana, Ferozpur, Shaheed Bhagat Singh Nagar, | PMH 1 | 78 | 4272.0 | 3682.0 | 16.0 |
| 21 | Rajasthan | MPUA&T, RCA, Udaipur | Bhilwara, Chittorgarh, Dungarpur, Rajsamand, Banswara, Udaipur | Prabal, DKC 7074, Bio- 9681 DHM-117, DKC-7014 | 262.5 | 3005.0 | 1763.0 | 70.5 |
| | | Directorate of Maize Research, Pusa Campus, New Delhi | Jaipur | DHM-117 | 0.5 | 4800.0 | 1763.0 | 172.3 |
| | | Zone VI, KVK Chittorgarh | Chittorgarh | Biosuper-9681 | 62.5 | 4101.0 | 1763.0 | 132.6 |
| | | Indian Maize Development Asssocation | Banswara | HQPM-1 | 20 | 4915.0 | 1763.0 | 178.8 |
| 22 | South Sikkim | Zone III, KVK South Sikkim | South Sikkim | Babycorn (EBCH-P/S), Babycorn (EBCH-P/S), HQPM-1, Popcorn | 2 (Grain) 2(B.C. With Husk) | 4200(Grain) 4970 (B.C. With Husk) | 2245.0 | 87.1 |
| 23 | Tripura | Zone III, KVK South Tripura, KVK West Tripura | South Tripura, West Tripura | HQPM-1, V QPM-9 | 14 | 4530.0 | 2245.0 | 101.8 |

FLD10

Table 3 (Cont...)

| S. No. | States | Name of the Agency | Districts | Varieties Used | Number of FLDs conducted (in acres) | FLDs Performance during 2013 Kharif (kg/ha) | State average Yield during Kharif 2013(kg/ha) | %Increase over state average Yield |
|--------|-------------|---|---|---|-------------------------------------|---|---|------------------------------------|
| 24 | Tamil Nadu | Tamil Nadu Agricultural University Coimbatore | Nagapattinam, Karur, Coimbatore Vellore, Tiruvannamalai, Tanjore, Tiruppur, Trichi, Erode, Tiruvarur, | TNAU Maize hybrid Co6 | 20 | 7945.0 | 3554.0 | 123.6 |
| | | Maize Research Station, Tamil Nadu Agricultural University, | Dindigul, Tiruppur, Tirunelveli | TNAU Maize hybrid CO 6 | 50 | 6358.0 | 3554.0 | 78.9 |
| 25 | Uttarakhand | Crop Improvement Division VPKAS, Almora | Pithoragarh, Almora | Vivek QPM 9, Vivek Hyb. 25, Vivek Hyb. 39, Vivek Hyb. 45, Vivek QPM 9, Vivek Hyb. 23, Vivek Hyb. 45 | 27 | 3842.0 | 1436.0 | 167.6 |
| | | Department of Plant Pathology, College of Agri. G.B. Pant University of Agri. & Technology, Pantnagar | Nainital, Udham Singh Nagar Haridwar, Dehradun | Hybrid-Sweety | 60 | 4155.0 | 1436.0 | 189.4 |
| 26 | U.P. | Institute of Agri. Sciences, B.H.U., Varanasi | Chandauli, Jaunpur, Mirzapur, Varanasi, Baliya, Ghazipur, Bhadohi, | DHM-117, HQPM-1, MHM-2 | 57 Grain) 16 (Failed) 73(Total) | 3557(Grain) | 1654.0 | 115.1 |
| | | Directorate of Maize Research, Pusa Campus New Delhi | Bulandshar, Bagpat, Gautam Budha Nagar | DHM-117, HQPM-1, HM-4 | 5 (Grain)-1 (BC) 6(Total) | 6000 (Grain) 1500 (BC) | 1654.0 | 262.8 |
| | | KVKs of Zone IV, ZPD, Kanpur | Auraiya, Kaushambi | Hybrid Kaveri-218, P-3522 | 40 | 4890.0 | 1654.0 | 195.7 |
| | | Udyaniki Krishi Anusandhan Samiti, | Lakhimpur Khiri, Hardoi, Ballia, | Pro. Agro 4640 | 50 | 5502.0 | 1654.0 | 232.7 |
| | | Gram Vikas Samiti Barabanki | Barabanki, Sitapur | 30R77, R3377 | 100 | 5600.0 | 1654.0 | 238.6 |
| | | U.P. Maize Development Association | Mahamaya Nagar Agra, Hardoi, Shahjahnpur, L.Kheri | Hi Shell, All Rounder | 100 | 4249.0 | 1654.0 | 156.9 |
| | | VARDAN | Bulandshahar | 3501, 7074, Garima, Tysun, | 50 | 4652.0 | 1654.0 | 181.3 |
| | | | | Normal maize for grain | 3476.3 | 4461.0 | 2245.0 | 98.7 |
| | | | | Seed Production | 4 | 412.0 | | |
| | | | | Sweet Corn | 36.5 | 6040.0 | | |
| | | | | Pop Corn | 2 | 2760.0 | | |
| | | | | Baby Corn(dehusked) | 38.5 | 1200.0 | | |
| | | | | Baby corn With Husk | 2 | 4970.0 | | |
| | | | | Crop failed | 44 | | | |
| | | | Total | | 3603.3 | | | |

TRIBAL SUB PLAN

Tribal Sub Plan

Tribal Sub Plan (TSP) is a programme funded by Government of India to uplift the economic condition of tribal farmers. Directorate of Maize Research (DMR) is implementing TSP across the country in various tribal belts. Eight hundred forty demonstrations were conducted in Andhra Pradesh, Rajasthan, Madhya Pradesh, Maharashtra, Karnataka, Chhattisgarh, Jharkhand, Himachal Pradesh, Jammu & Kashmir, Odisha and Uttar Pradesh by DMR and All India Coordinated Research Improvement Project (AICRIP) centres on maize. Each demonstration was conducted in one acre of land using maize hybrids DHM 117, HQPM 1, Rajarshi, Hishell, DKC 7074, Prabal, NMH 4139, Hema, Double Dekalb, C8, C 15, 30V 92 etc. The average yield of maize in demonstrations was 7097 kg/ha during rabi 2012-13 and 3783.19 kg/ha during kharif 2013. The national average yield of maize is 4158 kg/ha and 2245 kg/ha during rabi 2012-13 and kharif 2013 respectively.

DMR organized seven national level training programmes in New Delhi wherein 272 tribal farmers from Nagaland, Jammu & Kashmir, Andhra Pradesh, Bihar, Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Jharkhand, Gujarat, Uttar Pradesh etc. participated. Besides this, DMR also organized eight regional level training programmes wherein 981 tribal farmers from Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, etc participated. AICRIP centres on maize conducted seven regional training programmes in Jharkhand, Tamil Nadu, Karnataka and Uttar Pradesh wherein 443 tribal farmers participated. DMR organized six exhibitions to create awareness among tribal farmers through displaying technologies of maize. Six field days were organized by DMR in Andhra Pradesh, Chhattisgarh, Jharkhand and Odisha. While AICRIP centres organized four field days in Andhra Pradesh, Jammu and Kashmir and Uttar Pradesh. Apart from the above mentioned activities the inputs were distributed to the farmers for maize cultivation. Hybrid seed, maize shellers, weeders, bullock drawn interculturators, sprayers, line markers, sickles, furrow openers, seed storage bins and booklets on maize were distributed among tribal farmers by DMR and AICRIP centres on maize in different parts of country.

Summary of Demonstrations Conducted by DMR

| Sr. No. | Collaborating Agency | Rabi-2012-13 | | | Kharif 2013 | | |
|---------|--|--------------------------------|------------|-----------------------|--------------------------------|---------|-----------------------|
| | | Acreage of demonstrations (ha) | Variety | Average Yield (kg/ha) | Acreage of demonstrations (ha) | Variety | Average Yield (kg/ha) |
| 1 | Winter Maize Nursery, DMR, Hyderabad, A.P. | 10.0 | 900 M Gold | 8120 | 4.0 | DHM 117 | 9950 |
| 2 | RMD CARS Ambikapur, Chhattisgarh | | | | 1.6 | DHM 117 | 6025 |
| | | | | | 0.8 | HQPM 1 | 3250 |
| 3 | JNKVV ZARS Chhindwara, M.P. | 8.4 | DHM117 | 5145 | | | |
| | | 4.0 | JM-216 | 5164 | | | |
| | | 3.6 | HQPM 5 | 5061 | | | |
| 4 | KVK Garhwa, Jharkhand | | | | 0.8 | HQPM 1 | 3900 |
| | | | | | 0.8 | DHM 117 | 5750 |
| 5 | KVK, Hazaribag, Jharkhand | | | | 0.7 | DHM 117 | 2887 |
| | | | | | 2.2 | HQPM 1 | 3765 |
| 6 | HPKV, Kangra, H.P. | | | | 0.8 | HQPM-1 | 2170 |

TSP2

| Sr. No. | Collaborating Agency | Rabi-2012-13 | | | Kharif 2013 | | |
|---------|--|--------------------------------|---------|-----------------------|--|---------------|---|
| | | Acreage of demonstrations (ha) | Variety | Average Yield (kg/ha) | Acreage of demonstrations (ha) | Variety | Average Yield (kg/ha) |
| | HPKV, Bajaura, H.P | | | | 0.8 | HQPM1 | 4285 |
| 7 | ARS, Banswara, Rajasthan | | | | 4.8 | DHM-117 | 3200 |
| 8 | MSSRF, Jeypore, Koraput, Odisha | | | | 2.0 | HQPM1 | 10000 (green cobs) |
| 9 | AICRP Maize Research Centre, Udhampur, J. & K. | | | | 0.8 | Double Dekalb | 4462.5 |
| | Total | 26.0 | | 6280 | Grains -18.0 Green Cob - 2 Total - 20.024 | | Grain- 5210 Green Cob- 10000 |

Summary of Demonstrations Conducted by AICRIP centres on Maize

| Sr. No. | Collaborating Agency | Rabi-2012-13 | | | Kharif 2013 | | |
|---------|---|--------------------------------|---------|-----------------------|--------------------------------|-----------------------------|-----------------------|
| | | Acreage of demonstrations (ha) | Variety | Average Yield (kg/ha) | Acreage of demonstrations (ha) | Variety | Average Yield (kg/ha) |
| 1 | Maize Research Centre, ARI, Rajendranagar, A.P. | 20.0 | 30V 92 | 8160 | 20.0 | DHM117 | 3350 |
| 2 | AICRP on Maize, Kolhapur, Maharashtra | | | | 2.8 | Rajarshi Hybrid | 5283 |
| 3 | AICRP on Maize, OUAT, Bhubaneswar, Odisha | | | | 16.0 | HISHELL | 6919 |
| 4 | BHU, Varanasi, Uttar Pradesh | | | | 29.4 | DHM- 117 | 5149 |
| 5 | KVK, Dungarpur, MPUAT, Rajasthan | | | | 11.4 | DKC 7074 | 2813 |
| | | | | | 4.6 | Prabal | 2332 |
| 6 | KVK Jhabua, M.P. | | | | 40.0 | NMH-4139 | 2513 |
| 7 | Zonal Agriculture Research station, V.C. Farm Mandya, Karnataka | | | | 17.6 | Hema | 3858 |
| 8 | KVK, Pratapgrah, MPUAT, Rajasthan | | | | 15.2 | DKC-7074 | 3976 |
| | | | | | 0.8 | Prabal | 4255 |
| 9 | K.D Farm, DARS SKUAST-Kashmir, J&K | | | | 80.0 | Composite-15 Composite-8 | 3387 |
| 10 | AICRP on Maize, ARS, Banswara, Rajasthan | | | | 28.0 | DHM-117 | 3288 |
| | | | | | 4.0 | HQPM-1 | |
| | Total | 20.0 | | 8160 | 269.8 | | 3688 |

Other Activities Conducted by DMR

A. Training Programmes, Field Days and Exhibitions

| Sr. No | Collaborating Agency | National Level Training Programmes | | Regional Level Training Programmes | | Field Days(FD) | | Exhibitions | |
|--------|--------------------------------------|------------------------------------|---------------------|------------------------------------|---------------------|----------------|---------------------|--------------------|---------------------|
| | | No. of trainings | No. of participants | No. of trainings | No. of participants | No. of FD | No. of participants | No. of Exhibitions | No. of participants |
| 1. | DMR, New Delhi | 6 | 219 | | | | | 6 | 219 |
| 2. | Winter Maize Nursery, DMR, Hyderabad | | | | | 1 | 150 | | |
| 3. | RMR & SPC Begusarai, Bihar | 1 | 53 | 2 | 311 | | | | |
| 4. | RMD CARS Ambikapur, Chhattisgarh | | | 1 | 100 | 1 | 70 | | |
| 5. | JNKVV ZARS Chhindwara, M.P. | | | 1 | 50 | | | | |
| 6. | KVK Garwah, Jharkhand | | | 1 | 182 | 1 | 100 | | |
| 7. | KVK, Hazaribaugh, Jharkhand | | | 1 | 78 | 1 | 94 | | |
| 8. | KVK, Jamtara, Jharkhand | | | 1 | 142 | | | | |
| 9. | MSSRF, Jeypore, Koraput, odisha | | | | | 1 | 105 | | |
| | Total | 7 | 272 | 7 | 863 | 5 | 519 | 6 | 219 |

B. Distribution of inputs such as seeds, implements and booklets

| Sr. No. | Collaborating Agency | Distribution of seeds | Distribution of implements | | Distribution of Booklets |
|---------|----------------------------------|--|----------------------------|----------------|--------------------------|
| | | | No. of maize shellers | No. of weeders | |
| 1 | DMR, New Delhi | DHM117- 750 kg HQPM1- 100 kg HM-4- 300 kg | 219 | | 1095 |
| 2 | RMD CARS Ambikapur, Chhattisgarh | DHM 117- 68 kg, HQPM 1-84 kg | | 56 | |
| 3 | JNKVV ZARS Chhindwara, M.P. | | 50 | | |
| 4 | KVK, Hazaribag, Jharkhand | DHM117- 88 kg HQPM1 – 80 kg | | | 940 |
| | Total | DHM117- 990 kg, HQPM1 – 348 kg, HM-4- 300 kg. | 269 | 56 | 2035 |

Other Activities Conducted by AICRIP centres on Maize

A. Training Programmes, Field Days and Exhibitions

| Sr. No. | Collaborating Agency | Regional Level Training Programmes | | Field Days | | Exhibitions | |
|---------|---|---|---------------------|------------|---------------------|--------------------|---------------------|
| | | No. of trainings | No. of participants | No. of FD | No. of participants | No. of Exhibitions | No. of participants |
| 1. | Maize Research Centre, ARI, Rajendranagar, AP | | | 1 | 100 | | |
| 2. | BHU, Varanasi, UP | 1 | 108 | 1 | 108 | | |
| 3. | ZARS, V.C. Farm, Mandya, Karnataka | 1 | 95 | | | | |
| 4. | K.D Farm DARS SKUAST-Kashmir, J&K | | | 2 | 120 | 1 | 50 |
| | | One conference was also conducted in which 200 delegates participated | | | | | |
| 5. | TNAU, Vagrai, TN | 4 | 200 | | | | |
| 6. | AICRP on Maize, Ranchi, Jharkhand | 1 | 40 | | | | |
| | Total | 7 | 443 | 4 | 328 | 1 | 50 |

B. Distribution of inputs implements

| Sr. No. | Collaborating Agency | Distribution of implements | | | | | |
|---------|---|----------------------------|---------------------|-------------------------------|--------------|------------|--------------|
| | | No. of sprayers | No. of storage bins | bullock drawn intercultivator | Line Markers | Sickles | Furrow opner |
| 1 | Maize Research Centre, ARI, Rajendranagar, AP | | | 50 | | | |
| 2 | ZARS, V.C. Farm, Mandya, Karnataka | 5 | | | 2 | | |
| 3 | K.D Farm DARS SKUAST-Kashmir, J&K | | 200 | | | 200 | 200 |
| | Total | 5 | 200 | 50 | 2 | 200 | 200 |

AICRP Monitoring Report-Kharif 2013

AICRP Monitoring Report-Kharif 2013

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|---|--|-----------------|
| 1 | Barapani | 1. Dr. Sangit Kumar, DMR, New Delhi 2. Dr. Vishal Singh, DMR, New Delhi 3. Dr. S.L. Jat, DMR, New Delhi Date : 31.08.2013 | Breeding: The maintenance of different trials was very good. Regular breeder is not there and technical staff is not sufficient, land is a major constraint. Seed should reach the station by 1 st week of April. | Good |
| | | | Agronomy, Plant Pathology & Entomology : No trials | |
| 2 | Gossaingaon | 1. Dr. Sangit Kumar, DMR, New Delhi 2. Dr. Vishal Singh, DMR, New Delhi 3. Dr. S.L. Jat, DMR, New Delhi | Due to poor law and order condition team couldn't visit the centre | |
| 3 | Pantnagar | 1. Dr. P. Kumar, DMR, New Delhi 2. Dr. Dilip Singh, MPUAT, Udaipur 3. Dr. S.K. Jha, IARI, New Delhi Date : 15.09.2013 | Breeding: One trial of baby corn was rejected and emphasis should be given on maintenance of inbred lines purity. | Very good |
| | | | Agronomy: One AICRP trial of nutrient management was rejected due to poor plant population. | Good |
| | | | Plant Pathology: Trials were conducted in good manner | Good |
| | | | Entomology: No trials | |
| 4 | Almora | 1. Dr. P. Kumar, DMR, New Delhi 2. Dr. Dilip Singh, MPUAT, Udaipur 3. Dr. S.K. Jha, IARI, New Delhi Date : 16.09.2013 | Breeding: Experiments were planned and exhibited in excellent way | Excellent |
| | | | Agronomy: Trials were conducted in very good manner | Very Good |
| | | | Plant Pathology: Excellent experimentations and data recording | Excellent |
| | | | Entomology: No trials | |
| 5 | Behraich | 1. Dr. Vinay Mahajan, DMR, New Delhi 2. Dr. V.K. Paradkar, JNKVV, Chhindwara. 3. Dr. R.N. Bunkar, MPUAT, Udaipur Date : 26.09.2013 | Breeding: There is no breeder posted and trials were conducted by technical person under the supervision of agronomist. All the trials except baby corn trial were accepted. | Very good |
| | | | Agronomy: Trials grading is very good however border row in N x G trial was not kept | Very Good |
| | | | Plant Pathology & Entomology: No trials | |
| 6 | Kanpur | 1. Dr. Vinay Mahajan, DMR, New Delhi 2. Dr. V.K. Paradkar, JNKVV, Chhindwara. 3. Dr. R.N. Bunkar, MPUAT, Udaipur Date : 25.09.2013 | Breeding: Plant stand was very poor. It appears that weeding was also not done. Drainage in the field was very poor. In the breeding block, no tassel/silk bags were seen and 20% of tassel/silk exposed. Hence even the maintenance of trial was very poor what to say of breeding. | Poor |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|---|--|-----------------|
| | | | Agronomy: Overall grading is average. Sowing and weeding should be done timely. | Average |
| | | | Plant Pathology & Entomology : No trials | |
| | | | FLD: Inspite of 100 FLDs sanctioned and timely money sent by DMR, none of the FLDs were conducted by Centre. | |
| 7 | Bajaura | 1. Dr. J.S. Chawla, PAU, Ludhiana 2. Dr. Robin Gogoi, IARI, New Delhi 3. Dr. C.M. Parihar, DMR, New Delhi 4. Dr. Chikkappa, G.K., DMR, New Delhi Date : 30.09.2013 | Breeding: Excellent growth expression was observed in all the trials. The sowing season in this region starts from mid-May to 25 th June. Therefore, the seed of the trials needs to be delivered at the end of May or at least in first week of June. | Excellent |
| | | | Agronomy: Excellent growth expression was observed in all the trials. | Excellent |
| | | | Plant Pathology: In order to create proper disease incidences, seed needs to become available within the first fortnight of June in the Bajaura centre. Natural incidence of two foliar diseases namely MLB and BLSB were quite high. Considering the congenial conditions for disease development screening of germplasm especially against BLSB disease may be appropriate to allot to the centre. Seeds for national susceptible checks may be provided rather than using the local checks. | Excellent |
| | | | Entomology: No trials | |
| 8 | Kangra | 1. Dr. J.S. Chawla, PAU, Ludhiana 2. Dr. Robin Gogoi, New Delhi 3. Dr. C.M. Parihar, DMR, New Delhi 4. Dr. Chikkappa, G.K., DMR, New Delhi. Date : 01.10.2013 | Breeding: It was suggested to plan experiments from left to right and also label the treatments accordingly. In addition it was also suggested to follow the principles of experimental design in true spirit especially dividing whole field into different homogenous blocks before preparing the sowing plan of the experiment. | Good |
| | | | Agronomy: All coordinated trials were conducted in very good condition. | Very Good |
| | | | Plant Pathology & Entomology : No trials | |
| 9 | Dhaulakuan | 1. Dr. J.S. Chawla, PAU, Ludhiana 2. Dr. Robin Gogoi, IARI, New Delhi 3. Dr. C.M. Parihar, DMR, New Delhi 4. Dr. Chikkappa, G.K., DMR, New Delhi. Date : 02.10.2013 | Breeding & Agronomy : No trials Plant Pathology: Since treatments were assigned to experimental units according to DMR code numbers rather than plot numbers, it was suggested to follow plot numbers for randomization, which is one of the important principles of experimental designs. Further, it was suggested to record observation on disease score twice | Very Good |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|---|--|-----------------|
| | | | rather than once with an interval of 7 - 12 days to record disease score more accurately. Entomology: No trials | |
| 10 | Berthin | 1. Dr. J.S. Chawla, PAU, Ludhiana 2. Dr. Robin Gogoi, IARI, New Delhi 3. Dr. C.M. Parihar, DMR, New Delhi 4. Dr. Chikkappa, G.K, DMR, New Delhi Date : 01.10.2013 | Breeding: It was suggested to plan experiments from left to right and also label the treatments accordingly. In addition it was also suggested to follow homogenous blocking and sowing of border rows. The monitoring team also suggested that DMR must ensure that the volunteer centres must have adequate infrastructure and required facilities for conduct of experiments. Rather, if possible, an undertaking to this effect may be obtained from the authorities concerned of the designated institutions for providing the necessary facilities and staff for conducting experiments at such centres because the management of trials by a single person is impractical and that too in a hilly region. Agronomy, Plant Pathology & Entomology : No trials | Good |
| 11 | Hyderabad | 1. Dr. T.A. Sreerama Setty, ZARS, Mandya. 2. Dr. S.S. Hallikeri, ARS Arbhavi, Belgaum. 3. Dr. S.S. Mahadik, Kolhapur. 4. Dr. Ganapati Mukri, DMR, New Delhi Date : 25.09.2013 & 26.09.2013 | Breeding: Technical programme has been implemented as per the plan and experiments were conducted very neatly. In medium & early maturity trials, plant stand appears to be more and this has affected vigorousness of the crop. | Very Good |
| | | | Agronomy: All allotted trials were conducted neatly and systematically. In the different maturity genotypes to fertilizer levels, main plots should be irrigated separately with separate furrows instead of mixing with other main plots. | Very Good |
| | | | Plant Pathology: Technical programme has been implemented as per the plan and experiments were conducted neatly. | Very Good |
| | | | Entomology: Technical programme has been implemented as per the plan and experiments were conducted very neatly. In the screening trials, both the replications should be sown at a time. The same is suggested for pesticide trial. | Very Good |
| 12 | Karimnagar | 1. Dr. T.A. Sreerama Setty, ZARS, Mandya. 2. Dr. S.S. Hallikeri, ARS Arbhavi, Belgaum. 3. Dr. S.S. Mahadik, Kolhapur. 4. Dr. Ganapati Mukri, DMR, New Delhi Date : 26.09.2013 | Breeding: All the allotted trials were conducted as per the technical programme. Overall expression of crop was good, but due to heavy rains some part of the trial was affected by weeds. | Good |
| | | | Agronomy: All the allotted trials were conducted as per the technical programme. Overall expression of crop was good, but | Good |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|-------------------------|---|---|-----------------|
| | | | due to heavy rains some part of the trial was affected by weeds. Plant Pathology & Entomology: No trials | |
| 13 | S. M. Sehgal Foundation | 1. Dr. T.A. S. Setty, ZARS, Mandya. 2. Dr. S.S. Hallikeri, Arbhavi, Belgaum. 3. Dr. S.S. Mahadik, Kolhapur. 4. Dr. Ganapati Mukri, DMR, New Delhi Date : 27.09.2013 | Breeding: All the allotted trials were conducted according to the technical programme. Crop management and agronomic practices followed according to the package of practices but slight deviation in fertilizer dose was observed. Agronomy, Plant Pathology & Entomology: No trials | Excellent |
| 14 | Karnal | 1. Dr.D.R.Thakur, CSK HPKV, Bajaura. 2. Dr.Dharm Paul, DMR, New Delhi . 3. Dr. Ashwani Kumar, CSK HPKV, Dhaulakuan. 4. Dr.Uttam Chandel, CSK HPKV, HAREC, Kangra. Date : 23.09.2013 | Breeding: The centre is doing excellent work in maize breeding and all the trials were well managed. | Very good |
| | | | Agronomy: The experiments were conducted in good management condition, however, proper weed management and drainage was not provided. The scientist appointed in the project was transferred in the middle of season and additional charge has been given to other agronomist who couldn't explain the experiments to the monitoring team properly. | Good |
| | | | Entomology: The centre is doing good work on screening of maize gemplasm against <i>Chilo partillus</i> under artificial condition. | Very Good |
| | | | Plant Pathology: The scientist of plant pathology is new to the programme, hence needs training on creation of epidemic and recording of data on maize diseases. | Good |
| 15 | Ludhiana | 1. Dr.D.R.Thakur, CSK HPKV, Bajaura 2. Dr.Dharm Paul, DMR, New Delhi 3. Dr. Ashwani Kumar, CSK HPKV, Dhaulakuan 4. Dr.Uttam Chandel, CSK HPKV, HAREC, Kangra Date : 23.09.2013 | Breeding: The centre is doing excellent work in maize breeding. Seed production plots were also well managed and purity of parental lines was excellent. | Excellent |
| | | | Agronomy: The centre is doing excellent work in maize agronomy and all the trials were well managed | Excellent |
| | | | Entomology: The centre is doing excellent work in maize entomology. The trials for screening against <i>Chilo partillus</i> should be sent by mid June to have maximum incidence of the pest. Proper screening under delayed sowing of maize is not possible as there is low incidence of the pest due to onset of rainy season. | Excellent |
| | | | Plant Pathology: The centre is doing excellent work in maize pathology. However, there is lack of contingency for the conduct of trials. | Excellent |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|---|--|-----------------|
| 16 | Udhampur | 1. Dr.D.R.Thakur, CSK HPKV, Bajaura 2. Dr.Dharm Paul, DMR, New Delhi 3. Dr. Ashwani Kumar, CSK HPKV, Dhaulakuan 4. Dr.Uttam Chandel, CSK HPKV, HAREC, Kangra Date : 24.09.2013 & 25.09.2013 | Breeding: There was severe incidence of BSLB, <i>Erwinia stalk</i> rot and leaf spot diseases in some of the entries. The plant breeder was asked to record data of diseases in all the trials and same may be reported. Though the location represents major maize growing areas of state but basic facilities such as irrigation and fencing of farm are lacking. The farm area is totally rainfed and fields are not properly levelled. There are trees standing in the middle of the fields. | Good |
| | | | Agronomy: No agronomy trials were allotted by DMR as the scientist has gone on study leave. No alternative arrangement has been made by the university. | |
| | | | Entomology: No trials | |
| 17 | Varanasi | 1. Dr. Jyoti Kaul, DMR, New Delhi 2. Dr. Ashok Kumar, DMR, New Delhi 3. Dr. Ambika Rajendran, DMR, New Delhi 4. Dr. P. Behra, College of Agriculture, OUAT, Bhubaneswar Date : 25.09.2013 | Breeding: Programme was implemented properly. The inbred programme can be strengthened further through germplasm exchange initiatives. A maize molecular biology lab has been developed in order to study genetic diversity of maize germplasm especially inbred lines which is laudable. | Very Good |
| | | | Agronomy: The technical programme of coordinated trials was implemented according to AICRP programme. However, proper bunding of each plot especially in fertility trials was suggested. | Very Good |
| | | | Plant Pathology & Entomology: No trials | |
| 18 | Ambikapur | 1. Dr. Jyoti Kaul, DMR, New Delhi 2. Dr. Ashok Kumar, DMR, New Delhi 3. Dr. Ambika Rajendran, DMR, New Delhi 4. Dr. P. Behra, College of Agriculture, OUAT, Bhubaneswar Date : 27.09.2013 | Breeding: The growth expression of trials was average. The inbred development programme needs to be strengthened. The concerned breeder has also been advised to evaluate released/notified (public -bred) hybrids for adaptation in different zones of Chhattisgarh based on which the most suitable ones may be identified for this region. | Good |
| | | | Agronomy: The growth expression of trials was good. It was also observed that initial fertility status in fertilizer trial was not taken and proper bunding of each plot in fertility trial was not taken, which needs correction. | Good |
| | | | Plant Pathology & Entomology: No trials | |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|---|--|-----------------|
| 19 | Udaipur | 1. Dr. S. L. Jat, DMR, New Delhi 2. Dr. P. Laxmi Soujanya, WNC, Hyderabad 3. Dr. Bhupender Kumar, DMR, New Delhi 4. Dr. Harleen Kaur, PAU, Ludhiana Date : 29.09.2013 | Breeding: Crop growth, population and experimentation was good, however, heavy lodging has been occurred due to heavy rainfall followed by wind storm after physiological maturity. It was also suggested for sharing of gemplasm with Banswara centre. | Good |
| | | | Agronomy: Experiments were conducted in very good conditions and programme implemented as per technical programme. | Very Good |
| | | | Plant Pathology: All the trials were conducted in very good condition. Disease pressure was optimum. Data was recorded as per plant | Very Good |
| | | | Nematology: All the coordinated and station trials were conducted in very good condition and data recorded as per plant | Very Good |
| | | | Entomology: All the coordinated and station trials were conducted in very good condition and data recorded as per plant. | Very Good |
| 20 | Banswara | 1. Dr. S. L. Jat, DMR, New Delhi 2. Dr. P. Laxmi Soujanya, WNC, Hyderabad 3. Dr. Bhupender Kumar, DMR, New Delhi 4. Dr. Harleen Kaur, PAU, Ludhiana Date : 01.10.2013 | Breeding: Crop growth, population and experimentation was good, however, performance was affected due to heavy rainfall. Inbred development programme needs to be strengthened. It was also suggested for sharing of gemplasm with Udaipur centre. | Good |
| | | | Agronomy: Out of six trials three trials viz. late maturity (N x G), medium maturity (N x G) and SSNM in maize-chickpea system were rejected due to poor growth expression of the crop. Dry seeding and proper drainage is required in aberrant weather condition. | Good |
| | | | Plant Pathology & Entomology: No trials | |
| 21 | Godhara | 1. Dr. S. L. Jat, DMR, New Delhi 2. Dr. P. Laxmi Soujanya, WNC, Hyderabad 3. Dr. Bhupender Kumar, DMR, New Delhi 4. Dr. Harleen Kaur, PAU, Ludhiana Date : 01.10.2013 | Breeding: Out of fifteen coordinated trials, eleven trials were rejected due to very poor growth and crop management conditions. | Average |
| | | | Agronomy: Coordinated trials were conducted in good condition. | Very Good |
| | | | Plant Pathology & Entomology: No trials | |
| 22 | Bhiloda | 1. Dr. S. L. Jat, DMR, New Delhi 2. Dr. P. Laxmi Soujanya, WNC, Hyderabad 3. Dr. Bhupender Kumar, DMR, New Delhi 4. Dr. Harleen Kaur, PAU, Ludhiana Date : 02.10.2013 | Breeding: Crop growth, expression and management were very good. Collection of land races was suggested for their biochemical analysis and promising lines may be used for breeding programme. | Very Good |
| | | | Agronomy, Plant Pathology & Entomology : No trials | |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|--|--|-----------------|
| 23 | Chhindwara | 1. Dr. S.K. Gularia, HAREC, Bajaura 2. Dr. Mritunjay Kumar, Dholi, Bihar 3. Mr. Dinesh Rai, Tirhut College of Agri, Dholi, Bihar Date : 23.09.2013 | Breeding: This station is lacking for maize germplasm, hence; there is dire need to take up inbred development programme. Maintenance of inbred during the Kharif was not taken up properly as they are taking main breeding programme in winter season. For strengthening their breeding programme germplasm of normal and QPM may be provided from DMR. | Average |
| | | | Agronomy: During the crop sowing time heavy rains delayed the sowing which affected the growth of the crop. The response for fertilizer was not apparent due to continuous rains. However, the plant stand and weed management was good. | Good |
| | | | Plant Pathology & Entomology: No trials | |
| 24 | Jhabua | 1. Dr. S.K. Gularia, HAREC, Bajaura 2. Dr. Mritunjay Kumar, Dholi, Bihar 3. Mr. Dinesh Rai, Tirhut College of Agri, Dholi, Bihar Date : 25.09.2013 | Breeding: Post of breeder is lying vacant and breeding trials were conducted by agronomist. He deserves appreciation for conducting and recording of data in plant breeding trials. | Good |
| | | | Agronomy: Agronomic trials were conducted in good manner. However agronomist is also not posted in this project, the agronomist of KVK is looking after both agronomy and breeding trials in good manner. | Good |
| | | | Plant Pathology & Entomology: No trials | |
| 25 | Coimbatore | 1. Dr. J.C. Sekhar, WNC, Hyderabad 2. Dr. Meena Shekhar, DMR, New Delhi 3. Dr. D. Sreelatha, ANGRAU, Hyderabad 4. Dr. Nirupma Singh, DMR, New Delhi 5. Mr. Yatish K. R., DMR, New Delhi Date : 01.10.2013 | Breeding: The centre is doing excellent work in maize breeding. | Excellent |
| | | | Agronomy & Entomology: No trials | |
| | | | Pathology: Trials were conducted in good conditions. However, weather was not favourable for disease incidence. | Good |
| 26 | Vagarai | 1. Dr. J.C. Sekhar, WNC, Hyderabad 2. Dr. Meena Shekhar, DMR, New Delhi 3. Dr. D. Sreelatha, ANGRAU, Hyderabad 4. Dr. Nirupma Singh, DMR, New Delhi 5. Mr. Yatish K. R., DMR, New Delhi Date : 02.10.2013 | Breeding: The centre needs to concentrate more on medium and late maturity hybrids and is the right place for screening of drought tolerance. | Good. |
| | | | Agronomy: The trials were conducted in good conditions. In view of critical weather condition like high ET and poor soil moisture retention, trial on moisture conservation, weather based (ET etc) may be undertaken on priority basis. The N-P-K dose may be standardized as the centre is using higher dose of 250 kg N: 75 kg P2O5: 75 kg K2O compare to Coimbatore and Mandya centre. | Good |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|---|--|--|
| | | | Plant Pathology & Entomology : No trials | |
| 27 | Mandya | 1. Dr. J.C. Sekhar, WNC, Hyderabad 2. Dr. Meena Shekhar, DMR, New Delhi 3. Dr. D. Sreelatha, ANGRAU, Hyderabad 4. Dr. Nirupma Singh, DMR, New Delhi 5. Mr. Yatish K. R., DMR, New Delhi Date : 03.10.2013 & 04.10.2013 | Breeding: The centre is doing excellent work in maize breeding | Excellent |
| | | | Agronomy & Entomology : No trials | Plant Pathology: Trials were good however field laboratory is required for artificial inoculation. Resistant lines to be used in single cross hybrid development programme. Separate trials may be conducted for TLB and rust screening. |
| 28 | Kolhapur | 1. Dr. A.K. Singh, DMR, New Delhi 2. Dr. Avinash Singode, DMR, New Delhi 3. Dr. M. Anuradha, ANGRAU, Hyderabad Date : 30.09.2013 | Breeding: Trial 61 (Late maturity, IVT) and 62 (Medium maturity, IVT) were conducted in very light soil; hence the expression were not good as expected. | Very good |
| | | | Agronomy: In the trials having fertility treatment bunding was not done which is must for proper evaluation. | Very Good |
| | | | Entomology: Due to heavy rainfall during the spraying and release of insects, no leaf injury symptoms observed. Hence, one trial was rejected. | Good |
| 29 | Arbhavi | 1. Dr. A.K. Singh, DMR, New Delhi 2. Dr. Avinash Singode, DMR, New Delhi 3. Dr. M. Anuradha, ANGRAU, Hyderabad Date : 01.10.2013 | Breeding: The MLB susceptible hybrids have expressed disease reaction even in un-inoculated breeding trials. The breeding program is going on well as revealed by the station trials. | Very good |
| | | | Agronomy: Bunding has not been done. | Very Good |
| | | | Pathology: All trials were implemented and disease incidence was also good | Very Good |
| 30 | Dharwad | 1. Dr. A.K. Singh, DMR, New Delhi 2. Dr. Avinash Singode, DMR, New Delhi 3. Dr. M. Anuradha, ANGRAU, Hyderabad Date : 02.10.2013 | Breeding: Trial 62 (Medium maturity, IVT) was planted in single row hence the trial is recommended for rejection. The centre has developed good breeding material and station trials were good. They are doing breeding work for drought resistance and at the same time also evaluating it by physiologist/ agronomist in separate trial during rabi season in actual field conditions. | Good |
| | | | Agronomy & Entomology: No trials | |
| 31 | KSSC, Dharwad | 1. Dr. A.K. Singh, DMR, New Delhi 2. Dr. Avinash Singode, DMR, New Delhi 3. Dr. M. Anuradha, ANGRAU, Hyderabad Date : 02.10.2013 | Breeding: Trial 62 (Medium maturity, IVT) and 64 (Extra Early maturity, IVT) recommended for rejection because of low plant density. The trials were conducted in a long fertility gradient whereas layout has to be perpendicular to fertility gradient. | Good |

| Sl. No | Name of Centre | Monitoring Team and Date of Monitoring | Remarks/Comments | Overall Grading |
|--------|----------------|--|---|-----------------|
| 32 | Bhubneshwar | 1. Dr. Ramesh Kumar, DMR, New Delhi 2. Dr. Satpal Singh, PAU, Ludhiana 3. Dr. Rakesh Devlash, CSK HPKV, Bajaura Date : 24.09.2013 | Breeding: Six trials were rejected due to heavy bird damage. Breeding trials were planted at two locations due to non-availability of land at one place. | Average |
| | | | Agronomy: Randomization of genotypes in N x G trials was not done properly; it needs to be done with the help of statistician. Proper drainage was not there in the trials. | Average |
| | | | Plant Pathology: Five coordinated trials were given but all five trials were rejected due to non appearance of diseases. Moreover, entomologist is looking after the work of pathologist. | Poor |
| | | | Entomology: No trials | |
| 33 | Ranchi | 1. Dr. Ramesh Kumar, DMR, New Delhi 2. Dr. Satpal Singh, PAU, Ludhiana 3. Dr. Rakesh Devlash, CSK HPKV, Bajaura Date : 26.09.2013 | Breeding: All twelve coordinated trials were conducted in good condition, no pathologist posted however, disease incidence was higher. | Good |
| | | | Agronomy: Control of hairy caterpillar was needed in intercropping trial. Due to disease appearance data can be recorded on disease development in agronomic trials. | Very Good |
| | | | Plant Pathology & Entomology: No Trial | |
| 34 | Dholi | 1. Dr. Ramesh Kumar, DMR, New Delhi 2. Dr. Satpal Singh, PAU, Ludhiana 3. Dr. Rakesh Devlash, CSK HPKV, Bajaura Date : 27.09.2013 | Breeding: All twelve coordinated trials were conducted in good condition. Labour constraint is there. | Good |
| | | | Agronomy: One trial was rejected due to poor irrigation management in the rice crop. | Good |
| | | | Plant Pathology: All trials were conducted in good condition. | Good |
| | | | Entomology: All four coordinated trials were rejected due to lack of artificial infestation of <i>Chilo partillus</i> . | Poor |
| 35 | Midnapur | 1. Dr. Ramesh Kumar, DMR, New Delhi 2. Dr. Satpal Singh, PAU, Ludhiana 3. Dr. Rakesh Devlash, CSK HPKV, Bajaura Date : 25.09.2013 | Breeding: All four coordinated trials were rejected due to heavy rains and bird damage. | Poor |
| | | | Agronomy: Out of two coordinated trials one trial was rejected due to bird damage. No tagging was done which is very important for comparison of treatments. | Average |
| | | | Plant Pathology: All trials were conducted in good condition. | Good |
| | | | Entomology: No trials | |

Appendices

Appendix-A

Maize area, production and yield statistics in Indian states

| State/ UT | Season | Area ('000 Hectares) | | | Production ('000 Tonnes) | | | Yield (Kg/Hectare) | | |
|-------------------|--------|--------------------------|---------|---------|------------------------------|---------|---------|-----------------------|---------|---------|
| | | 2010-11 | 2011-12 | 2012-13 | 2010-11 | 2011-12 | 2012-13 | 2010-11 | 2011-12 | 2012-13 |
| Andhra Pradesh | Kharif | 440.0 | 531.0 | 565.0 | 1641.0 | 1493.0 | 2342.0 | 3730 | 2812 | 4145 |
| | Rabi | 304.0 | 333.0 | 407.0 | 2315.0 | 2165.0 | 2513.0 | 7615 | 6502 | 6174 |
| | Total | 744.0 | 864.0 | 972.0 | 3956.0 | 3658.0 | 4855.0 | 5317 | 4234 | 4995 |
| Arunachal Pradesh | Kharif | 39.3 | 40.5 | * | 54.9 | 58.1 | * | 1397 | 1434 | |
| | Rabi | 5.8 | 6.0 | * | 9.8 | 10.4 | * | 1690 | 1736 | |
| | Total | 45.1 | 46.5 | * | 64.7 | 68.5 | * | 1435 | 1473 | |
| Asom | Kharif | 19.8 | 21.3 | 21.3 | 14.3 | 15.3 | 23.7 | 722 | 719 | 1113 |
| Bihar | Autumn | 231.3 | 263.9 | 261.0 | 417.8 | 622.4 | 646.2 | 1806 | 2358 | 2476 |
| | Rabi | 414.2 | 411.0 | 424.6 | 1021.8 | 988.3 | 1829.6 | 2467 | 2404 | 4309 |
| | Total | 645.5 | 675.0 | 685.6 | 1439.6 | 1610.7 | 2475.8 | 2230 | 2386 | 3611 |
| Chhattisgarh | Kharif | 102.7 | 104.0 | 107.2 | 185.6 | 172.0 | 207.5 | 1807 | 1654 | 1936 |
| Gujarat | Kharif | 423.0 | 387.0 | 373.0 | 692.0 | 539.0 | 625.0 | 1636 | 1393 | 1676 |
| | Rabi | 78.0 | 129.0 | 85.0 | 128.3 | 247.0 | 166.0 | 1645 | 1915 | 1953 |
| | Total | 501.0 | 516.0 | 458.0 | 820.3 | 786.0 | 791.0 | 1637 | 1523 | 1727 |
| Haryana | Kharif | 10.0 | 9.0 | 9.0 | 19.0 | 24.0 | 23.0 | 1900 | 2667 | 2556 |
| Himachal Pradesh | Kharif | 296.4 | 294.2 | 294.3 | 670.9 | 715.4 | 657.2 | 2263 | 2432 | 2233 |
| Jammu & Kashmir | Kharif | 308.2 | 314.0 | 310.9 | 527.7 | 505.0 | 512.3 | 1712 | 1608 | 1648 |
| Jharkhand | Autumn | 207.2 | 207.4 | 243.4 | 244.8 | 305.6 | 435.8 | 1181 | 1473 | 1790 |
| | Rabi | 8.2 | 8.1 | 5.9 | 16.9 | 15.9 | 15.9 | 2061 | 1970 | 2689 |
| | Total | 215.4 | 215.5 | 249.3 | 261.7 | 321.5 | 451.7 | 1215 | 1492 | 1812 |
| Karnataka | Kharif | 1141.0 | 1206.0 | 1162.0 | 4011.0 | 3644.0 | 2978.0 | 3515 | 3022 | 2563 |
| | Rabi | 116.0 | 143.0 | 160.0 | 330.0 | 441.0 | 497.0 | 2845 | 3084 | 3106 |
| | Summer | 31.0 | | | 103.0 | | | 3323 | | |
| | Total | 1288.0 | 1349.0 | 1322.0 | 4444.0 | 4085.0 | 3475.0 | 3450 | 3028 | 2629 |
| Madhya Pradesh | Kharif | 830.6 | 862.8 | 845.4 | 1051.5 | 1287.4 | 1513.6 | 1266 | 1492 | 1790 |
| Maharashtra | Kharif | 731.0 | 736.0 | 689.0 | 2209.0 | 2127.0 | 1582.0 | 3022 | 2890 | 2296 |
| | Rabi | 160.0 | 145.0 | 133.0 | 393.0 | 306.0 | 242.0 | 2456 | 2110 | 1820 |
| | Total | 891.0 | 881.0 | 822.0 | 2602.0 | 2433.0 | 1824.0 | 2920 | 2762 | 2219 |
| Manipur | Kharif | 22.4 | 20.0 | * | 41.5 | 35.4 | * | 1856 | 1768 | |
| | Rabi | | 4.9 | * | | 10.5 | * | | 2165 | |
| | Total | | 24.9 | * | | 45.9 | * | | | |
| Meghalaya | Kharif | 17.3 | 17.4 | * | 25.9 | 26.5 | * | 1499 | 1529 | |
| Mizoram | Kharif | 8.7 | 6.7 | * | 13.1 | 8.1 | * | 1502 | 1214 | |
| | Rabi | 0.3 | 0.2 | * | 0.5 | 0.3 | * | 1667 | 1238 | |
| | Total | 9.0 | 6.9 | * | 13.6 | 8.4 | * | 1508 | 1214 | |
| Nagaland | Kharif | 68.4 | 68.5 | * | 134.0 | 134.3 | * | 1958 | 1960 | |
| | Rabi | | | * | | | * | | | |
| | Total | | 68.5 | * | | 134.3 | * | | | |
| Odisha | Kharif | 112.7 | 98.9 | 90.9 | 286.3 | 202.3 | 217.5 | 2540 | 2046 | 2393 |
| | Rabi | 4.5 | 4.0 | 3.6 | 12.5 | 9.9 | 10.0 | 2778 | 2496 | 2793 |
| | Total | 117.2 | 102.9 | 94.5 | 298.8 | 212.2 | 227.5 | 2549 | 2063 | 2408 |

| State/ UT | Season | Area ('000 Hectares) | | | Production ('000 Tonnes) | | | Yield (Kg/Hectare) | | |
|---------------|--------|--------------------------|---------|---------|------------------------------|---------|---------|-----------------------|---------|---------|
| | | 2010-11 | 2011-12 | 2012-13 | 2010-11 | 2011-12 | 2012-13 | 2010-11 | 2011-12 | 2012-13 |
| Punjab | Kharif | 133.0 | 126.0 | 129.0 | 491.0 | 502.0 | 475.0 | 3692 | 3984 | 3682 |
| Rajasthan | Kharif | 1143.1 | 1039.1 | 978.4 | 2052.9 | 1644.9 | 1725.2 | 1796 | 1583 | 1763 |
| | Rabi | 0.0 | 6.5 | 7.8 | 0.0 | 22.2 | 29.9 | | 3434 | 3844 |
| | Total | 1143.1 | 1045.6 | 986.2 | 2052.9 | 1667.0 | 1755.1 | 1796 | 1594 | 1780 |
| Sikkim | Kharif | 40.2 | 40.0 | | 66.2 | 66.2 | | 1648 | 1657 | |
| Tamil Nadu | Kharif | 143.8 | 176.3 | 171.3 | 554.8 | 1001.7 | 609.0 | 3858 | 5682 | 3554 |
| | Rabi | 86.7 | 104.3 | 119.6 | 472.7 | 693.8 | 337.2 | 5452 | 6649 | 2819 |
| | Total | 230.5 | 280.6 | 291.0 | 1027.5 | 1695.5 | 946.2 | 4458 | 6042 | 3252 |
| Tripura | Kharif | 3.1 | 3.7 | | 4.1 | 5.1 | | 1322 | 1353 | |
| Uttar Pradesh | Kharif | 748.0 | 745.0 | 698.0 | 1098.0 | 1232.0 | 1154.5 | 1468 | 1654 | 1654 |
| | Rabi | 6.0 | 42.0 | 38.0 | 16.0 | 76.0 | 80.0 | 2667 | 1810 | 2105 |
| | Total | 754.0 | 787.0 | 736.0 | 1114.0 | 1308.0 | 1234.5 | 1477 | 1662 | 1677 |
| Uttarakhand | Kharif | 28.3 | 28.0 | 27.9 | 42.5 | 41.0 | 40.1 | 1503 | 1464 | 1437 |
| | Rabi | 0.1 | | 0.1 | 0.1 | | 0.1 | 1000 | | 1800 |
| | Total | 28.4 | 28.0 | 28.0 | 42.6 | 41.0 | 40.2 | 1501 | 1464 | 1437 |
| West Bengal | Kharif | 32.3 | 34.1 | 40.6 | 83.6 | 77.3 | 96.8 | 2588 | 2270 | 2384 |
| | Rabi | 17.2 | 63.8 | 65.0 | 84.4 | 286.8 | 320.0 | 4904 | 4497 | 4923 |
| | Summer | 39.1 | | | 184.4 | | | 4716 | | |
| | Total | 88.6 | 97.8 | 105.6 | 352.3 | 364.1 | 416.8 | 3977 | 3722 | 3947 |
| A & N Islands | Kharif | 0.2 | 0.2 | | 0.4 | 0.3 | | 2476 | 2125 | |
| D & N Haveli | Kharif | | 0.11 | * | | 0.11 | * | | 1000 | |
| | Rabi | | 0.04 | * | | 0.04 | * | | 1000 | |
| | Total | | 0.15 | * | | 0.15 | * | | | |
| Others | Kharif | 0.1 | 0.04 | 194.1 | 3.6 | 0.8 | 332.6 | | | 1713 |
| | Rabi | | | 8.7 | | | 23.1 | | | 2660 |
| | Total | | | 202.8 | | | 355.6 | | | 1754 |
| All India | Kharif | 7282.0 | 7381.2 | 7214.5 | 16637.4 | 16486.3 | 16194.4 | 2285 | 2234 | 2245 |
| | Rabi | 1271.1 | 1400.7 | 1458.2 | 5088.4 | 5273.1 | 6063.8 | 4003 | 3765 | 4158 |
| | Total | 8553.2 | 8781.9 | 8672.6 | 21725.8 | 21759.4 | 22258.2 | 2540 | 2478 | 2566 |

*Included in the others

Appendix-B

Meteorological Observations

Mean maximum and minimum temperature during 2013 at various research centre of AICRP (Maize)

| Centre name | | Jan. | Feb. | March | April | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|-------------|------|------|------|-------|-------|------|------|------|------|------|------|------|------|
| Almora | Max. | - | - | - | - | - | 29.2 | 28.6 | 29.6 | 29.9 | 27.1 | - | - |
| | Min. | - | - | - | - | - | 20.2 | 21.4 | 20.4 | 18.4 | 13.1 | - | - |
| Bajaura | Max. | 15.9 | 15.7 | 23.4 | 26.1 | 31.4 | 30.6 | 30.5 | 30.2 | 30.6 | 28.7 | 23.5 | - |
| | Min. | 0.5 | 3.7 | 6.1 | 9.4 | 12.7 | 19.3 | 21.3 | 21.4 | 16.9 | 12.5 | 2.6 | - |
| Dhaulakaun | Max. | - | - | - | - | - | 31.9 | 31.2 | 30.9 | 31.5 | 30.0 | - | - |
| | Min. | - | - | - | - | - | 22.4 | 22.7 | 22.9 | 20.8 | 16.9 | - | - |
| Kangra | Max. | - | - | - | - | 36.7 | 39.3 | 32.2 | 28.0 | 32.1 | 29.9 | - | - |
| | Min. | - | - | - | - | 18.5 | 24.6 | 22.8 | 21.8 | 22.8 | 12.8 | - | - |
| Gossaigaon | Max. | - | - | - | 28.8 | 30.3 | 32.1 | 31.9 | 32.5 | 32.1 | 29.7 | 29.9 | 25.6 |
| | Min. | - | - | - | 21.6 | 23.1 | 25.4 | 25.2 | 25.6 | 26.3 | 22.9 | 19.7 | 14.3 |
| Delhi | Max. | 18.0 | 22.1 | 29.9 | 36.1 | 42.0 | 37.7 | 34.8 | 32.8 | 34.5 | 31.5 | 26.9 | 22.4 |
| | Min. | 4.7 | 9.6 | 13.7 | 19.5 | 23.9 | 26.7 | 25.7 | 25.1 | 24.0 | 19.2 | 9.9 | 7.1 |
| Pantnagar | Max. | - | - | - | - | - | - | 31.6 | 32.3 | 32.6 | 30.4 | 27.6 | - |
| | Min. | - | - | - | - | - | - | 25.7 | 25.3 | 23.8 | 20.5 | 12.6 | - |
| Ludhiana | Max. | - | - | - | - | 23.0 | 27.2 | 27.7 | 26.4 | 24.1 | 20.2 | - | - |
| | Min. | - | - | - | - | 40.6 | 36.6 | 35.0 | 33.0 | 33.8 | 31.4 | - | - |
| Bhubneshwar | Max. | - | - | - | - | 38.6 | 34.8 | 32.2 | 32.2 | 32.6 | 30.4 | - | - |
| | Min. | - | - | - | - | 26.9 | 25.7 | 25.3 | 25.2 | 24.4 | 22.9 | - | - |
| Dholi | Max. | 19.1 | 24.8 | 30.9 | 34.8 | 34.5 | 32.0 | 33.0 | 32.8 | 33.2 | 29.6 | 28.3 | 23.0 |
| | Min. | 6.4 | 11.3 | 15.7 | 21.1 | 24.1 | 26.0 | 26.7 | 25.8 | 25.6 | 21.8 | 13.2 | 9.5 |
| Ranchi | Max. | 22.7 | 24.3 | 31.0 | 34.5 | 39.0 | 29.3 | 28.7 | 28.9 | 30.2 | 25.6 | 24.4 | 22.2 |
| | Min. | 5.5 | 9.8 | 13.8 | 18.4 | 24.2 | 21.6 | 22.1 | 21.5 | 22.1 | 18.5 | 10.3 | 6.4 |
| Arbhavi | Max. | 31.3 | 32.5 | 35.6 | 38.2 | 38.1 | 31.0 | 28.0 | 28.8 | 29.4 | 29.9 | 29.5 | - |
| | Min. | 12.8 | 14.1 | 15.5 | 19.3 | 22.3 | 21.6 | 21.2 | 20.4 | 20.3 | 19.8 | 30.7 | - |
| Coimbatore | Max. | - | - | - | - | - | 30.6 | 30.1 | 31.3 | 31.2 | 31.5 | 29.8 | - |
| | Min. | - | - | - | - | - | 23.3 | 23.2 | 22.6 | 22.6 | 21.7 | 22.3 | - |
| Karinmagar | Max. | - | - | - | - | - | 34.2 | 31.6 | 31.3 | 33.7 | 32.1 | 31.2 | - |
| | Min. | - | - | - | - | - | 27.6 | 26.9 | 27.9 | 27.6 | 26.6 | 20.3 | - |
| Mandya | Max. | - | - | 34.9 | 35.9 | 34.4 | 29.9 | 29.9 | 29.4 | 29.7 | 29.8 | 29.1 | - |
| | Min. | - | - | 16.5 | 19.7 | 20.4 | 19.3 | 19.2 | 19.3 | 19.0 | 18.5 | 16.6 | - |
| Hyderabad | Max. | - | - | - | - | - | 32.6 | 28.9 | 28.5 | 31.1 | 30.0 | 28.4 | 28.0 |
| | Min. | - | - | - | - | - | 23.9 | 23.7 | 21.9 | 20.6 | 19.6 | 14.4 | 9.9 |
| Patencheru | Max. | - | - | - | - | - | 32.8 | 28.6 | 28.2 | 30.1 | 29.4 | 28.4 | 27.8 |
| | Min. | - | - | - | - | - | 22.4 | 21.4 | 21.1 | 21.2 | 20.4 | 15.6 | 11.4 |
| Ambikapur | Max. | 23.9 | 25.9 | 31.4 | 34.8 | 40.5 | 32.1 | 28.7 | 28.5 | 29.9 | 26.9 | 26.5 | 24.8 |
| | Min. | 8.3 | 12.0 | 15.4 | 19.6 | 24.5 | 23.6 | 23.1 | 22.2 | 22.1 | 19.4 | 10.4 | 7.5 |
| Udaipur | Max. | - | - | - | - | - | 29.5 | 27.4 | 25.0 | 24.4 | 27.6 | 25.0 | 20.4 |
| | Min. | - | - | - | - | - | 22.5 | 22.0 | 22.0 | 19.5 | 13.6 | 7.0 | 4.5 |

Total Rainfall (mm) during 2013 at various research centre of AICRP (Maize)

| Centre name | Jan. | Feb. | March | April | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|--------------------|-------------|-------------|--------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Almora | - | - | - | - | - | 342.5 | 192.2 | 158.5 | 68.5 | 14.0 | - | - |
| Bajaura | 70.2 | 169.3 | 85.2 | 32.6 | 42.4 | 128.4 | 204.9 | 104.0 | 37.9 | 2.0 | 12.0 | - |
| Dhaulakaun | - | - | - | - | - | 23.0 | 24.0 | 17.1 | 4.6 | 3.4 | - | - |
| Kangra | - | - | - | - | - | 2.0 | 640.8 | 106.9 | 322.1 | 12.6 | - | - |
| Gossaigaon | - | - | - | 204.2 | 410.7 | 319.1 | 893.2 | 450.6 | 603.4 | 181.6 | - | - |
| Delhi | 40.8 | 109.4 | 12.6 | 11.6 | 0.0 | 151.0 | 459.8 | 521.9 | 105.9 | 109.0 | 0.4 | 1.9 |
| Pantnagar | - | - | - | - | - | - | 388.4 | 457.2 | 74.4 | 86.4 | trace | |
| Ludhiana | - | - | - | - | 1.2 | 296.4 | 110.2 | 252.1 | 37.5 | 36.2 | - | - |
| Dholi | - | - | - | 15.0 | 90.2 | 216.8 | 183.2 | 191.0 | 79.2 | 263.4 | - | - |
| Bhubneshwar | - | - | - | - | 78.0 | 235.5 | 268.5 | 92.6 | 345.6 | 72.0 | - | - |
| Ranchi | 0.0 | 16.2 | 2.1 | 12.8 | 18.6 | 161.0 | 153.3 | 298.1 | 108.7 | 459.6 | - | - |
| Arbhavi | 0.0 | 3.6 | 0.0 | 6.1 | 87.8 | 11.7 | 53.5 | 31.3 | 77.2 | 83.8 | - | - |
| Coimbatore | - | - | - | - | - | 54.5 | 21.9 | 27.3 | 46.5 | 141.2 | 57.9 | - |
| Karinmagar | - | - | - | - | - | 159.1 | 614.3 | 76.9 | 63.5 | 164.2 | 12.6 | - |
| Hyderabad | - | - | - | - | - | 145.7 | 189.3 | 158.1 | 110.6 | 253.2 | 31.0 | - |
| Mandya | | | - | 41.4 | 101.4 | 10.3 | 36.2 | 21.7 | 186.8 | 116.0 | 56.4 | - |
| Patencheru | - | - | - | - | - | 102.4 | 226.7 | 164.8 | 277.6 | 207.2 | 20.7 | - |
| Ambikapur | 0.0 | 47.2 | 5.8 | 13.0 | 0.2 | 130.7 | 486.4 | 363.0 | 58.1 | 92.7 | - | - |
| Udaipur | - | - | - | - | - | 20.6 | 65.2 | 65.4 | 51.2 | 36.6 | 0.8 | - |

National Live Demonstrations of Maize Hybrids





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