

# ANNUAL PROGRESS REPORT

## KHARIF MAIZE

2012



**All India Coordinated Research Project on Maize**  
**Directorate of Maize Research**  
Pusa Campus, New Delhi-110 012, India  
[www.dmr.res.in](http://www.dmr.res.in)

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**Project Director** : Dr. O.P. Yadav

**Compilation** : Dr. Bhupender Kumar  
Dr. Chikkappa G.K.  
Dr. Jyoti Kaul  
Dr. Ashok Kumar  
Dr. C.M. Parihar  
Dr. P. Kumar  
Dr. Sangit Kumar  
Dr. Meena Shekhar  
Dr. Dharam Paul  
Dr. V.K. Yadav  
Dr. K.P. Singh

**Contribution** : DMR and AICRP on Maize

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Ph: +91-11-25841805, 25842372, 25849725 Fax: 91-11-25848195

Email: [pdmaize@gmail.com](mailto:pdmaize@gmail.com)

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## Maize Researchers (ICAR, SAUs)

Directorate of Maize Research, Pusa Campus, New Delhi-110012

Ph. +91-11-25841805, 25842372, 25849725 Fax.+91-11-25848195

[www.dmr.res.in](http://www.dmr.res.in)

E-mail: [pdmaize@gmail.com](mailto:pdmaize@gmail.com)

S. No.	Name	Designation	Discipline	Email	Mobile
1.	Dr. O.P. Yadav	Director	Plant Breeding	pdmaize@gmail.com	-
2.	Dr. Sangit Kumar	Pr. Investigator	Plant Pathology	kumar_sangit@yahoo.co.in	+91-9899235389
3.	Dr. Pradyumn Kumar	Pr. Investigator	Entomology	pradyumn.kumar@gmail.com	+91-9868112000
4.	Dr. Vinay Mahajan	Pr. Scientist	Plant Breeding	vinmaha9@gmail.com	+91-9999237696
5.	Dr. Aditya Kumar Singh	Pr. Scientist	Agronomy	aditya_jadon@yahoo.co.in	+91-8447292164
6.	Dr. Ashok Kumar	Pr. Investigator	Agronomy	ashok_agro@iari.res.in	+91-9868141488
7.	Dr. K.S. Hooda	Pr. Scientist	Plant Pathology	hoodaks@gmail.com	+91-9958520601
8.	Dr. Jyoti Kaul	Pr. Scientist	Plant Breeding	kauljyoti1@yahoo.co.in	+91-9350588827
9.	Dr. Ishwar Singh	Pr. Scientist	Plant Physiology	isingh.dmr@gmail.com	+91-9968449332
10.	Dr. Meena Shekhar	Pr. Scientist	Plant Pathology	shekhar.meena@gmail.com	+91-9968010340
11.	Dr. V.K. Yadav	Sr. Scientist	Agril. Extension	vkyadavdmr@rediffmail.com	+91-9868057203
12.	Dr. Dharam Paul	Sr. Scientist	Biochemistry	chaudharydp@gmail.com	+91-9013247427
13.	Dr. Ramesh Kumar	Sr. Scientist	Plant Breeding	rk_phagna@rediffmail.com	+91-8447352547
14.	Dr. K.P. Singh	Scientist	Computer Application	kpskhokhar@hotmail.com	+91-9868028572
15.	Dr. Nirupma Singh	Scientist	Plant Breeding	nirupmasingh@rediffmail.com	+91-9868822174
16.	Dr. Avinash Singode	Scientist	Plant Breeding	avinash.singode@gmail.com	+91-9968817793
17.	Dr. C.M. Parihar	Scientist	Agronomy	pariharc@gmail.com	+91-9013172214
18.	Ms. Suby S.B.	Scientist	Entomology	subysb@gmail.com	On study leave
19.	Mr. Manivannan A.	Scientist	Genetics	mani_gene@rediffmail.com	On study leave
20.	Dr. R. Ambika Rajendran	Scientist	Plant Breeding	rambikarajendran@gmail.com	+91-9958682271
21.	Dr. Shankar Lal Jat	Scientist	Agronomy	sliari@gmail.com	+91-9953009711
22.	Ms. Sapna	Scientist	Biochemistry	singh.sapna06@gmail.com	+91-9250684482
23.	Dr. Bhupender Kumar	Scientist	Plant Breeding	bhupender.iari@gmail.com	+91-9555195169
24.	Mr. Vishal Singh	Scientist	Plant Breeding	vishaliari.singh@gmail.com	+91-9953303479
25.	Mr. Yathish K.R.	Scientist	Genetics	yathi.chinni@gmail.com	+91-8130447123
26.	Dr. Pranjal Yadava	Scientist	Ag. Biotechnology	pranjal.yadava@gmail.com	+91-9899426498

S. No.	Name	Designation	Discipline	Email	Mobile
27.	Dr Ganapati Mukri	Scientist	Plant Breeding	ganapati4121@gmail.com	+91-9582461538
28.	Mr. Abhijit Kumar Das	Scientist	Genetics	das.myself@gmail.com	+91-8544399673
<b>Maize Winter Nursery, Rajendra Nagar, Hyderabad-500030. Tel. 040-24018457, Fax. 040-24016810</b>					
1.	Dr. J.C. Sekhar	Pr. Scientist & I/c	Entomology	jcswn@rediffmail.com	+91-7382670030 +91-9490324927
2.	Dr. Laxmi Saujanya	Scientist	Entomology	soujanya.scientist@gmail.com	+91-8008607373
3.	Dr. Chikkappa G. K.	Scientist	Plant Breeding	chikkappagk@gmail.com	+91-8121372742
<b>Regional Maize Research &amp; Seed Production Centre Kushmahout Farm, Begusarai (Bihar) Tel. 06243-215254</b>					
1.	Dr. S.B. Singh	Pr. Scientist & I/c	Plant Breeding	sbsingh@dmr.res.in singhsb1971@rediffmail.com	+91-9419289916 +91-9534660594

#### AICRP Centres

S. No.	Name	Designation	Discipline	Email	Mobile
1. Almora (Uttarakhand) Crop Improvement Division, VPKAS Almora, Utrakhand –263601. Ph No: 05962-230130 Fax: 05962-231469					
1	Dr. P.K. Agrawal	Pr. Scientist & I/c	Plant Breeding	pawancrri@yahoo.co.in	+91-9411525150
2	Dr. S.K. Jha	Scientist	Plant Breeding	jhashail78@gmail.com	+91-9557935491
3	Dr. Dibakar Mahanta	Scientist	Agronomy	send2dmahanta@gmail.com	+91-9456108508
4	Dr. Chandrashekara C.	Scientist	Plant Pathology	chandrupath@gmail.com	+91-9557935569
2. Ambikapur (Chattisgarh) RMD College of Agriculture and Research Station, Ajirma, Ambikapur, Dis. – Surguja-497001 (Chattisgarh) Phone (Office): 07774- 232815 Fax (Office): 07774- 232986					
1	Dr. S.K. Sinha	Asst. Breeder & I/c	Plant Breeding	santoksinha@yahoo.co.in	+91-9424250671
2	Dr. A.K. Sinha	Asst. Agronomist	Agronomy	amitsinhaagri@yahoo.co.in	+91-9425581765
3. Arabhavi (Karnataka) Agriculture Research Station, Arbhavi-591306, Belgaum (Karnataka) Phone (Office) 08332-293189 Fax (Office) 08332-284408 Email: <a href="mailto:ars_arabhavi@rediffmail.com">ars_arabhavi@rediffmail.com</a>					

S. No.	Name	Designation	Discipline	Email	Mobile
1	Dr. Mruthunjaya C. Wali	Sr. Breeder & I/c	Plant Breeding	mcwa_61@rediffmail.com, ars_arabhavi@rediffmail.com	+91-9480432624
2	Dr. R.M. Kachapur	Asst. Breeder	Plant Breeding	agri_rajmk@rediffmail.com, rajashekhar.kachapur@gmail. Com	+91-9481854442
3	Dr. S.S. Hallikeri	Asst. Agronomist	Agronomy	hallsuasd@rediffmail.com	+91-9449801645
4	Dr. V.R. Kulkarni	Asst. Pathologist	Plant Pathology	venkatesh_29@rediffmail.com	+91-9480323430
4. Bajaura (H.P.) CSKHPKV, HAREC, Bajaura, Distt. Kullu – 175 125 (Himachal Pradesh) Phone (Office): 01905 287235 Fax (Office): 01905 287236					
1	Dr. D.R. Thakur	Sr. Agronomist & I/c	Agronomy	thakur.dr@rediffmail.com	+91-9418183548
2	Dr. S.K. Guleria	Breeder	Plant Breeding	skg0612@rediffmail.com	+91-9418118538
3	Dr. R. Devlash	Asst. Pathologist	Plant Pathology	rdevlash@yahoo.in	+91-9418482888
5. Bahraich (U.P.) Crop Research Station, NDU&T, Bahraich-271801(UP) Email: rk_brh@rediffmail.com					
1	Dr. Prem Kumar	Breeder & I/c	Plant Breeding	-	+91-9451520931
2.	Dr. M.V. Singh	Agronomist	Agronomy	mvsingh.brh2013@gmail.com	+91-9452760902
6. Barapani (Meghalaya) ICAR Research Complex for NEH Region, Umaim Meghalaya Fax (Office): 03642570355					
1	Dr. A. Pattanayak	Pr. Scientist	Plant Breeding	apattnayak@gmail.com	+91- 9436118903
2	Dr. Ram Dutta	Sr. Scientist	Plant Pathology	rdutta.iari@gmail.com	+91- 9436349415
7. Banswara (Rajasthan) Agricultural Research Station, Borwat Farm, Dahot Road, Banswara (Rajasthan), Pin -327001, Phone (Office): 02962-260070 Fax (Office): 02962-260013					
1	Dr. Promod Rokadia	Assoc. Professor & I/c	Plant Breeding	p_rokadia@rediffmail.com	+91- 9413626183
2	Dr. Hargilas	Asst. Agronomist	Agronomy	hargilasm73@gmail.com hargilasagro@indiatimes.com	+91-9413044271
8. Bhubaneswar (Odisha) Department of Plant Breeding & Genetic , College of Agriculture, OUAT, Bhubaneswar-751003,Odisha Phone (Office): 0674-2397818, 2397919 & 2397669 Ext-140 Fax (Office): 0674-2397780					

S. No.	Name	Designation	Discipline	Email	Mobile
1	Dr. T.K.Mishra	Breeder & I/c	Plant Breeding	tkm.cuttack@gmail.com	+91-9437546932
2	Ms. Pramila Naik	Jr. Agronomist	Agronomy	pnayak660@gmail.com	+91-9437326993
3	Ms. Pravashini Behera	Jr. Pathologist	Plant Pathology	pravasinibehera.pp@gmail.com	+91-9437937079
9. Chhindwara (M.P.) JNKVV, Zonal Agriculture Research Station, Chhindwara-480001 (M.P.) Phone (Office): 07162-225560/225089					
1	Dr. R.K. Reddy	Station I/c	Plant Breeding	-	+91-9425831964
2	Dr. V.K. Paradkar	Sr. Agronomist	Agronomy	paradkarvkp@yahoo.co.in paradkar_vk@rediffmail.com	+91-9425461748
10. Coimbatore (Tamil Nadu) Department of Millets, Centre for Plant Breeding & Genetics, Tamil Nadu Agricultural University, Coimbatore-641003. Phone (Office) : 0422-2450507 Fax : 0422-2450507					
1	Dr. G.Nallathambi	Breeder & I/c	Plant Breeding	nthambi2002@yahoo.co.in	+91-9486913279
2	Dr. V. Paranidharan	Asst. Pathologist	Plant Pathology	agriparani@yahoo.com	+91-9486587939
11. Delhi (IARI) Indian Agriculture Research Institute Pusa, New Delhi -12 Ph.No: 011-25841077					
1	Dr. R.N. Gadag	Sr. Scientist	Plant Breeding	rn_gadag@yahoo.com	+91-9810702212
2	Dr. T. Nepolean	Sr. Scientist	Plant Breeding	tnepolean@gmail.com	+91-8800707249
3	Dr. Firoz Hossain	Scientist	Plant Breeding	fh_gpb@yahoo.com	+91-9811727896
4	Dr. Vijay Pooniya	Scientist	Agronomy	vpooniya@gmail.com	+91-7838205149
5	Dr. Robin Gogoi	Pr. Scientist	Plant Pathology	r.gogoi@rediffmail.com	+91-9868148903
12. Dholi (Bihar) Tirhut College of Agriculture, Dholi, Bihar Tel.: 0621-2293227					
1	Dr. Mritunjay Kumar	Agronomist & I/c	Agronomy	dr_mritunjay@sify.com	+91-9430891658
2	Dr. Ajay Kumar	Asst. Breeder	Plant Breeding	drajaymuz@rediffmail.com	+91-9430459955
3	Dr. Ashish Narayan	Asst. Breeder	Plant Breeding	narayanashish@rediffmail.com	+91-9430259391
4	Dr.(Ms.) Kavita Kumari	Asst. Physiologist	Plant Physiology	kavita_physiology@yahoo.com	+91-9430658636
5	Mr. Ashok Kumar	Entomologist	Entomology		
6	Dr. Phoolchand	Pathologist	Plant Pathology		
7	Dr. (Ms.) Usha Singh	Nutritionist	Nutrition	usha_pusa@yahoo.co.in	+91-9431897515



S. No.	Name	Designation	Discipline	Email	Mobile
13. Godhara (Gujarat) Main Maize Research Station, Anand Agricultural University, Godhra, Panchmahals - 389 001 (Gujarat) Phone (Office) (02672) - 265852 Fax (Office) (02672)-265237					
1	Dr. S.M. Khanorkar	Sr. Breeder & I/c	Plant Breeding	subhkhankar@yahoo.com	+91-9904238359
2	Dr. P. Parmar	Asst. Breeder	Plant Breeding		
3	Mr. K.H. Patel	Asst. Agronomist	Agronomy	-	+91-9428132188
14. Gossaigaon (Assam) Regional Agricultural Research Station, AAU, Gossaigaon, Telipara Dist. Kokrajhar – 783360 (Assam) Phone: 0 3669-292707 Email: rsgossaigaon@gmail.com					
1	-				
15. Hyderabad (A.P.) Maize Research Centre, ARI, ANGRAU, Rajendra Nagar, Hyderabad - 500 030 Phone (Office): 040-24018447 Fax (Office):040-24016810					
1	Dr. R. Ranga Reddy	Pr. Scientist & I/c	Plant Pathology	reddy_3r@yahoo.com	+91-8008123671 +91-9963488844
2	Dr. T. Pradeep	Pr. Scientist	Plant Breeding	tekalepradeep@yahoo.co.in	+91-9441374391
3	Dr. M.R. Sudarshan	Pr. Scientist	Plant Breeding	mrsudarshan12@yahoo.com	+91-9441510451
4	Dr. V. Narsimha Reddy	Sr. Scientist	Plant Breeding	narsimhareddy_vanga@yahoo.com	+91-9440302931
5	Dr. K. Murali Krishna	Scientist	Plant Breeding	kmurali73@yahoo.com	+91-9032113525
6	Dr. (Ms.) D. Sreelatha	Scientist	Agronomy	lathadogga@gmail.com	+91-9849379930
7	Dr. (Ms.) M. Anuradha	Sr. Scientist	Entomology	kasuanu@yahoo.co.in	+91-9440488602
16. Jhabua (M.P.) Zonal Agricultural Research Station, RVSKVV, Jhabua (M.P.) Phone (Office): 07392-244367 Fax (Office): 07392-244367					
1	Dr. Mahender Singh	Subject Matter Specialist	Agronomy	msjadon2000@rediffmail.com	+91-9993970987
2	Dr. R.K. Yadav	Subject Matter Specialist	Plant Pathology	rkyadavrca@rediffmail.com	+91-9425711222
17. Kangra (H.P.) Shivalik Agricultural Research and Extension Centre, Kangra-176001, CSKHPKV (H P) Phone (Office) 01892-265685 Fax (Office) 01892-265685					
1	Dr. Anil Kumar	Agronomist & I/c	Agronomy	anil.an69@rediffmail.com	+91-9418111915

S. No.	Name	Designation	Discipline	Email	Mobile
2	Dr. Uttam Chandel	Asst. Breeder	Plant Breeding	uttam_chandel@yahoo.co.in	+91-9459200240
3	Dr. Ashwani Kumar (Dhaulakuan)	Pr. Scientist	Plant Pathology	bunchy@rediffmail.com	+91-9816179192
18. Kanpur (U.P.) Department of genetics and Plant Breeding, C. S. Azad University of Ag. & Tech. , Kanpur-208002 (U.P.) Fax No.- 0512-2535808 Phone No.-0512-2534165 Director Res.-0512-2534055					
1	Dr. K.C. Arya	Agronomist & I/c	Agronomy	dr.keshav_arya@rediffmail.com	+91-9415161749
2	Dr. H.C. Singh	Maize Breeder	Plant Breeding	hcmaize@yahoo.com harishmaize@gmail.com harish1962@rediffmail.com	+91-9450131209
3	Dr. Lalta Prasad	Asst. Maize Breeder	Plant Breeding	-	+91-9839018544
19. Karimnagar (A.P.) Agricultural Research Station, Karimnagar, ANGRAU (AP) - 505 001 Phone (Office) +918782000605 Fax (Office) +918782265512 Email: ars.karimnagar@yahoo.com					
1	Dr. (Ms.) G. Manju Latha	Sr. Scientist & I/c	Agronomy	manju_ars@yahoo.com	+91-9440415134
2	Dr. (Ms.) K. Sumalini	Scientist	Plant Breeding	sumalinikatragedda@gmail.com	+91-8121001405/ +91-9440768783
20. Karnal (Haryana) CCS HAU RRS Uchani, Karnal- 132001 Phone (Office): 0184-2667857 Fax( Office): 0184-2267499					
1	Dr. J.C. Mehla	I/c Maize section	Entomology	karnalmaize@gmail.com	+91-9416325003
2	Dr. Rakesh Mehra	Pathologist	Plant Pathology	rmehra@hau.ernet.in	+91-9812256753
3	Dr. M.C. Kamboj	Asst. Breeder	Plant Breeding	kambojmehar@gmail.com	+91-9813173105
4	Dr. Ashok Yadav	Scientist	Agronomy		
21. Kolhapur (Maharashtra) Maharashtra Shahu Agricultural School Campus, Line Bazar Kasba-Bawada, Kolhapur-4166003 (Maharashtra) Phone (Office): (0231) 2601115 Fax (Office): (0231) 2601115 Email: mipkop@yahoo.com					
1	Prof. S.R. Kulkarni	Breeder & I/c	Plant Breeding	kulkarnisanjay1956@gmail.com	+91-9850042543
2	Dr. U.M. Borle	Asst. Breeder	Plant Breeding	ulhasborle@yahoo.com	+91-8275450066
3	Prof. P.H. Deshmukh	Asst. Agronomist	Agronomy	phd17166@gmail.com	+91-7588698789

S. No.	Name	Designation	Discipline	Email	Mobile
22. Ludhiana (Punjab) Maize Section, Deptt. of Plant Breeding, Genetics & Biotech, P.A. U. Ludhiana-141004 (Punjab) 0161-2401960 (Ext 437) Fax (Office) 01612409891					
1	Dr. Maninder Singh Grewal	Senior Maize Breeder	Plant Breeding	maizepau@hotmail.com manindermaize@yahoo.in	+91-7355541160 +91-9914766096
2	Dr. Jasbir Singh Chawla	Senior Maize Breeder	Plant Breeding	chawlamaize@yahoo.co.in	+91-9872660990
3	Dr. Gurjit Kaur Gill	Maize Breeder	Plant Breeding	gillmaize@yahoo.co.in	+91-8146902244
4	Dr. Satpal Singh	Asst. Agronomist	Agronomy	satpal.pau@gmail.com	8146355533
5	Dr. Gurmail Singh	Asst. Entomologist	Entomology	gurmail_ent@pau.edu	8146260400
6	Dr. Jawala Jindal	Asst. Entomologist	Entomology	jindal_ento@pau.edu	+91-9988401521
7	Dr. Harleen Kaur	Asst. Pathologist	Plant Pathology	harleen_pau@yahoo.co.in	+91-9501080050
23. Mandya (Karnataka) Zonal Agricultural Research Station, V.C. Farm, Mandya (Karnataka) Phone (Office): 08232-277960 & 277955 Fax (Office): 08232-277954					
1	Dr. K.T. Pandurange Gowda	Professor & I/c	Plant Pathology	pandu2049@yahoo.com	+91-8232-277960 +91-9448247848
2	Dr. Puttaramanaik	Breeder	Plant Breeding	putnic_vcf@rediffmail.com	+91-8232-277955 +91-9449081431
3	Dr. T.A. Sreerama Setty	Professor	Plant Pathology	tas.setty@gmail.com	+91-8232-277955 +91-9449177138
4	Ms. D. Shobha	Asst. Nutritionist	Food Science and Nutrition	shobhagd@rediffmail.com	+91-8232-277955 +91-9880223241
24. Pantnagar (Uttarakhand) Department of Plant Pathology, College of Agriculture, G. B. Pant University of Agriculture & Technology, Pantnagar- 263145 (Udhamsingh Nagar) Uttrakhand Phone (Office): 05944-235473 Fax (Office): 05944-235473/233473					
1	Dr. Pradeep Kumar	Station I/c	Plant Pathology	pradeepguptaachieve@gmail.com	+91-9412121099
2	Dr. S.S. Verma	Sr. Breeder	Plant Breeding	sitarverma@yahoo.com	+91-9412120691
3	Dr. N.K. Singh	Pr. Scientist	Plant Breeding	narendraksingh2@gmail.com	+91-9412909645
4	Dr. D.C. Baskheti	Asst. Breeder	Plant Breeding	dcbaskheti@yahoo.com	+91-9412120982

S. No.	Name	Designation	Discipline	Email	Mobile
5	Dr. M.S. Pal	Sr. Agronomist	Agronomy	drmspal1@gmail.com profmspal@yahoo.com	+91-9457407465
6	Dr. Amit Bhatnagar	Sr. Agronomist	Agronomy	bhatnagaramit75@gmail.com	+91-9411159845
7	Dr. Veer Singh	Asst. Soil Scientist	Soil Science	veer1969_singh@yahoo.co.in	+91-9837649644
25. Ranchi (Jharkhand) Dept. of Plant Breeding & Genetics, BAU, Kanke, Ranchi- 834 006 (Jharkhand)					
1	Dr. (Ms.) M. Chakraborty	Asst. Breeder	Plant Breeding	manigopa291061@yahoo.com	+91-9431594011
2	Dr. C.S. Singh	Asst. Agronomist	Agronomy	cssingh15@gmail.com chandra_ssingh@yahoo.co.in	+91-9431314755
3	Dr. H.C. Lal	Jr. Pathologist	Plant Pathology	hclal_bau@rediffmail.com	+91-9431901395
26. Srinagar (J&K) KD Research Station, S.K.U.A.&T., Post Box.905, Srinagar-190001 (J&K) Phone (Office) 0194-2305084 Fax (Office) 0194-2305084					
1	Dr Zahoor Ahmed Dar	Sr. Scientist	Plant Breeding	zahoor3@gmail.com	+91-9419048821
2	Dr. Ajaz Ahmad Lone	Jr. Scientist	Plant Breeding	ajaz999@gmail.com ajazlone@yahoo.co.uk	+91-9419783406
3	Dr. Bashir Ahmad Alaie	Sr. Scientist	Agronomy	baelahi@gmail.com	+91-9419461009
27. Udhampur (J&K) Maize Research Centre (AICRP), SKUA & T-J, Sansoo, Behind 71 Sub Area Officers Mess, Via P.O. Garhi, Udhampur, J&K					
1	Dr. Akhil Verma	Agronomist and I/c	Agronomy	akhilverma1974@gmail.com	+91-9858507744
2	Dr. R.S. Sudan	Breeder	Plant Breeding	rssudanudh@rediffmail.com	+91-9419159975
28. Udaipur (Rajasthan) MPUA&T, RCA, Udaipur-313001, Rajasthan Phone (Office): 0294-2423119 Fax (Office): 0294-2420447					
1	Dr. R.B. Dubey	Breeder & I/c	Plant Breeding	dubey_rb2006@yahoo.co.in	+91-9694383617
2	Dr. Dilip Singh	Sr. Agronomist	Agronomy	dilipagron@gmail.com	+91-9414736598
3	Dr. Mukesh Vyas	Asst. Breeder	Plant Breeding	vyas.mukesh66@gmail.com	+91-9251459820
4	Dr. B.L. Baheti	Nematologist	Nematology	blbaheti@gmail.com	+91-9413024863
5	Dr. S.S. Sharma	Sr. Pathologist	Plant Pathology	sharmass112@gmail.com	+91-9414168590
6	Dr. R.N. Bunker	Asst. Pathologist	Plant Pathology	rnunker@yahoo.co.in	+91-9414926892

S. No.	Name	Designation	Discipline	Email	Mobile
7	Dr. N.K. Bajpai	Entomologist	Entomology	nkbajpai69@gmail.com	+91-8058598235
29. Vagarai (Tamil Nadu) Maize Research Station, Tamil Nadu Agricultural University, Vagarai – 624613 Phone (Office):04545 – 292900/ 267373      Email: arsvagarai@tnau.ac.in					
1	Dr. P. Jayamani	Prof.	Plant Breeding	jayamani1108@gmail.com	+91 - 9442342443
2	Dr. R. Karthikeyan	Asst. Prof.	Agronomy	agrikarhi@yahoo.co.in	+91-9488491939
30. Varanasi (U.P.) Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221 005 UP Phone (Office): 0542-6702393 ,0542-6702559      Fax (Office): 0542-2369971, 0542-2368993					
1	Dr. J.P. Shahi	Prof. cum Sr. Breeder	Plant Breeding	jpshahi1@yahoo.com jpshahi@bhu.ac.in	+91-9415644490
2	Dr. K Srivastava	Assoc. Prof.	Plant Breeding	karstav@yahoo.com	+91-9450388636
3	Dr. R. N. Singh	Prof. cum Sr. Agronomist	Agronomy	rnsingh.agro@rediffmail.com	+91-9792795906



## Summary

### Genetic improvement

**Identification of new hybrids for release:** During the year 2012, 19 hybrids of different maturity groups (8 late, 9 medium and 2 extra early hybrids) were notified by Central Sub-Committee on Crop Standards, Notification and Release of Varieties for different agro-climatic conditions of the country. These hybrids were *viz.*, Co 6, SMH-3904, NMH-731, NMH-920, NK-30, NK 6240, P3501, KMH-218 Plus, KMH-3426, NMH-803, HM-12, KMH-25K60, KMH 3712, Bisco X 1 (Bisco 506), P3441 (X8B691), P3502, Bio-9682, Vivek Maize Hybrid 43 and Vivek Maize Hybrid 39, respectively.

**Inbreds registered:** During the year 2012, 2 most-promising inbred lines were registered at NBPGR, New Delhi as unique germplasm. KDTML-82 from ANGRAU, Karimnagar was registered for drought tolerance and DMRQ103 from DMR, New Delhi for earliness, low anthesis-silking interval and high tryptophan content (>0.6%).

**Protection under PPV&FR Act, 2001:** During the period 2012, five hybrids (Vivek QPM 9, HQPM 7, PAU 352, NAH-2049, HHM-1), two composites (Pratap Makka-5, Vivek Sankul Makka-11) were registered under PPV&FR Act, 2001. A total of 15 inbreds, 25 hybrids, 3 composites were tested for DUS traits.

In 2012 one hybrid (HM-11) and two composites (Vivek Sankul Makka 35 and Bajaura Makka 1) have completed two years of DUS testing, whereas five hybrids (DHM 117, HQPM 4, PMH 4, Vivek Maize Hybrid 39 and Vivek Maize Hybrid 43) and three composites (Vivek Sankul Makka 31, Jawahar Pop Corn 11 and Vivek Sankul Makka 37) have completed one year of DUS testing at two locations i.e. Delhi and Hyderabad.

Applications of two hybrids namely, BPCH-6 and HM-12 have been filed under new category for registration in the year 2012 while applications of four hybrids/varieties *viz.*, Co 6, KMH-22168, Partap Makka Chari-6 and EH-434042 are under process.

**Breeder Seed Production:** A total of 290.43 quintal breeder seed of parental lines of different hybrids was produced during 2012-13. Out of this, 108.65 quintal was produced by AICMIP Centres and 181.78 quintal was produced at DMR regional station, Begusarai. The breeder seed is being supplied to different government, private, non-governmental organizations and farmers for seed production.

**Evaluation of hybrids and composites in AICRP on maize trials:** During Rabi 2011-12, total of 74 entries [late (56), medium (14), early (2) and QPM (2)] were received for evaluation in coordinated trials. All entries were evaluated in 7 breeding trials at 19 locations across the country with five national checks (three late, one each of medium and early). Seventy four entries were distributed as 29 in Trial I (IET-Late),

10 in Trial II (IET Medium), 2 in Trial III (IET early), 22 in Trial IV (AET I-late), 4 in Trial V (AET I- Medium), 5 in Trial VII (AET II- late) and 2 in QPM-I. Total of 46 entries were promoted in different maturity groups. During *Kharif* 2012, a total of 275 test entries (169 in IET, 46 in AET-I, 42 in AET-II, 7 in QPM1-3, 2 in Popcorn, 8 in sweet corn and 1 in baby corn) was tested in 16 different breeding trials *viz.*, four (late, medium, early and extra early) each of IET, AET-I and AET-II, and four were of specialty corns at 29 locations across five zones of the country.

**Development, maintenance and evaluation of inbred lines:** A total of 1791 germplasm lines were maintained, advanced and characterized at DMR during *Kharif* 2012. A set of 45 new inbred lines has been developed from productive hybrids of quality protein maize, normal hybrids of public and private and improved population through pedigree selection. During *Rabi* 2012-13, a set of 236 inbred lines was planted for disease screening *viz.*, PFSR and SDM under artificially inoculated conditions at Hyderabad and Mandya respectively. Fixed germplasm lines are under evaluation against various abiotic stresses *viz.* cold and drought under managed stress at multiple locations.

### **Pathology**

A total of 293 maize genotypes and 39 specialty corn in 9 different trials at 14 locations were evaluated against various diseases *viz.*, Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Brown stripe downy mildew (BSDM), Rajasthan downy mildew (RDM), Post-flowering stalk rots (PFSR), Common rust (C. Rust), Polysora rust (P. Rust) and Erwinia stalk rot (ESR). The Curvularia Leaf Spot (CLS) was screened only in IET (late, medium and early maturity genotypes). The screening of these genotypes were carried out under artificially inoculated conditions in the various hot spots located in different agro-climatic zones of the country. A total of 34 genotypes out of 64 genotypes in IET late maturity, 45 genotypes out of 75 genotypes in IET medium maturity, 17 genotypes out of 32 genotypes in IET early maturity and 8 genotypes out of 18 genotypes in extra early maturity showed resistance against various diseases. Similarly, a total of 27 genotypes out of 40 in AET late maturity, 25 genotypes out of 38 in AET medium maturity, 5 genotypes out of 15 in AET early maturity and 5 genotypes out of 11 in AET extra-early maturity showed resistance against various diseases. Some of the promising genotypes with combined resistance to various diseases under different trials were:

- **AET late season maturity:** CMH08-381 (MLB, PFSR, C. Rust), CP 333 (TLB, PFSR, P. Rust), HTMH 5106 (MLB, PFSR, P. Rust), MCH 45 (MLB, RDM, ESR, C. Rust, P. Rust), MCH 46 (MLB, RDM, PFSR, P. Rust), P4546 (RDM, PFSR, ESR, C. Rust, P. Rust ) and CMH08-287 (TLB, PFSR, C. Rust, P. Rust)
- **AET medium maturity:** B53 (PFSR, P. Rust, C. Rust), JH 31470 (PFSR, P. Rust, C. Rust), CMH08-292 (MLB, RDM, PFSR), CMH08-350



(MLB, RDM, P. Rust, C. Rust), KNMH401061 (RDM, P. Rust, C. Rust) and VMH 4106 (MLB, TLB, P. Rust, C. Rust)

- **AET early maturity:** CMH10-525 (TLB, PRSR, P. Rust, C. Rust), FH 3513 (MLB, RDM, P. Rust, C. Rust), KDMH 755 (MLB, RDM, P. Rust, C. Rust) and REH 2009-12 (TLB, PFSR, P. Rust, C. Rust)
- **AET extra early maturity:** FH 3555 (TLB, P. Rust, C. Rust), FH 3556 (MLB, P. Rust, C. Rust) and FH 3510 (DM, RDM)
- **Evaluation of elite maize lines for diseases resistance:** A total of 113 elite lines were evaluated against major diseases of maize under artificial epiphytotic conditions during *kharif* 2012 at various hot spot locations *viz.*; PFSR at Hyderabad, Udaipur, Delhi and Ludhiana, MLB at Ludhiana & Delhi, TLB at Almora, Bajaura & Mandya, P. rust & SDM at Mandya, BLSB at Delhi, Pantnagar & Dhaulakuan, ESR at Ludhiana & Dhaulakuan, BSDM at Dhaulakuan and RDM at Udaipur. Out of them 6 lines were found resistant against TLB, 4 against MLB, one each against PFSR and P.rust, 4 against SDM, 20 against ESR, 2 against P. rust, 7 against RDM and 57 against CLS. Based upon three years evaluation data (*Kharif* 2010 to 2012), 62 elite lines (Mas madu (sh2sh2)-, HKI 193-1, Win sweet corn, CML 172, 951-7, HKI-MBR-139-2, CUBA 380, CLQRCYQ-47-B, CLQ-RCYQ 30, DMSC 3, CLQ-RCYQ 36, DMSC16-1, CLQ-RCYQ41, DMSC-37-3, 02POOL 33 C24, HKI-PC-8-2-1, PFSR-R2, WINPOP-3, PFSR-R3, WINPOP-21, PFSR-R9, HKI 1040-5, PFSR-R10, ESM-11-3, PFSR-S2, PFSR/51016-1, PFSR-S3, Hyd05r/2-1, JCY2-1-2-1-1B-1-2-3-1-1, Hyd05R/13-2, JCY2-7-1-2-1-B-1-2-1-1, LM12, CM 117-3-4-1-2-2-1, LM16, CM 117-3-4-1-1-4-1, CM121, CM 117-3-4-1-2-3-1, 42048-2-2-1-1-1-2, HKI C 78, SW-93D-313-23-POP.49-S4-1, HKI 141-2, JCY3-7-1-2-1-B-2-3-2-1-3-1, HKI C 323, JCY2-2-4-1-1-1-3-1-3-1, HKI 1352-5-8-9, 42050-1-1-2-1-3, Pool 16 BNSEQ.C3F6x38-1, JCY3-7-1-2-1-B-1-1-2-3-1-1, ae-40, CM117-3-4-1-2-5-2, CML141, JCY3-7-1-2-2-1-3-1-1-2-7-1-1-1, CML 269, LM13, HKI 34(1+2)-1, CM117-3-4-1-2-2-3, HKI 164-7-4 ER-3, JCY3-7-1-2-1-B-2-1-2-1, HKI 164-4-(1-3), HKI 191-1-2-5, LTP4 and HKI 193-2-2-4) were found resistant to single or multiple diseases.

### **Nematology**

The maximum nematode population (16.42 cyst/plant, 12.92 cyst/100 cc soil and 460.83 larvae/100 cc soil) was observed in samples collected from Rajsamand district with the occurrence of 70.59% while minimum nematode population (9.00 cyst/plant, 7.25 cyst/100 cc soil and 282.50 larvae/ 100 cc soil) was obtained from Ajmer district of Rajasthan with 57.14% occurrence. On the whole, occurrence of maize cyst nematode, *H. zaeae* was observed 64.15 per cent in maize growing areas. A total of 293 genotypes from different maturity groups were screened against cyst nematode, *Heterodera zaeae* out of which, entries *viz.*, KDMH 4086,

X35B396, JH 31555, Meghan-G, CMH 10-473, CMH 10-485, REH 2011-1, CMH-10-527 and REH 2011-8 exhibited moderately resistant to *H. Zeae*.

### **Entomology**

Four trials of 104 entries of different maturity periods were evaluated for resistance against *Chilo partellus* under artificial infested condition at seven locations. The following entries registered leaf injury rating (LIR) less than that of checks.

- **Full Season Maturity:** A 7501, BIO-562, M 9977, NMH-713, X35A176
- **Medium Maturity:** B 63, BIO -688, CMH08-350, CMH08-433, EC-3161, IMH-666, JH 31404, JKMH-7004, KDMH 176, PFMH-96 I 41, PFMH-96 N 46, S6217, VMH 4106, X35A173, YUVRAJ GOLD
- **Early Maturity:** FH 3513, KDMH 755
- **Extra Early Maturity:** FH 3525, Vivek Hybrid 9 (Filler), FH 3510.
- **Screening of inbred lines against stem borer, *Chilo partellus*:** A total of 212 inbred lines were also evaluated for resistance against *C. partellus* in which 1, 152 and 59 entries were found least susceptible, moderately susceptible and highly susceptible respectively.
  - **Study on oviposition behaviour of *Sesamia inferens*:** It was conducted to supplement/complement or as an alternative for evaluation of germplasm for resistance by artificial release method. The study on 20 germplasm strongly suggested that different germplasm are statistically different for their attraction by *Sesamia inferens* females for oviposition. Further, it was also found that 12-day old maize plants attracted maximum number of eggs.
  - **Determination of relationship between leaf injury rating and grain yield:** A significant yield reduction with increase of LIR was observed. This information can be used for crop loss assessment. During XII plan, emphasis has been laid on biochemical basis of resistance against major pests of maize.

### **Biochemistry**

A total of 51 maize entries in one trial at three locations were evaluated. During the period of 2012–2013 around 2000 samples received from different sources were analyzed for various quality parameters *viz.*, protein, tryptophan, lysine, oil, sugar, carotenoids,  $\beta$ -carotene etc. A total of 665 samples were analyzed for protein, 430 for tryptophan, 351 for lysine, 126 for sugar, 251 for starch, 295 for oil content, 100 for carotenoids &  $\beta$ -carotene and 463 for test weight & specific gravity. As many as 26 promising lines were found to be having more than 9% protein with  $\geq 0.6\%$  of tryptophan and  $\geq 2.50\%$  lysine in their protein. A total of 44 high starch ( $\geq 73\%$  starch) lines, 3 as high sugar lines ( $\geq 6\%$  sugar) and 1 nutritionally improved pop corn inbred (DMR WNC PC 23) was also identified. Two high oil genotypes ( $\geq 6\%$  oil) were identified. In

total carotenoids, wide variability ranging from 10 - 50 µg/g was observed. Apart from this, a set of 19 released maize hybrids (selfed F<sub>1</sub>) received from Agronomy Section were analyzed for various quality parameters for successive two years. Minor variability was observed in the biochemical characteristics, which could have resulted from the variations in the agronomic input as well as other environmental effects. In addition, quality deterioration in maize due to insect as well as microbial infestation during storage was also studied. The qualitative analysis of rice weevil (*Sitophilus oryzae*) infested maize samples revealed that carbohydrate and oil content decreased after the artificial infestation of rice weevil, while protein content increased irrespective of maize hybrids. Experiments to find out the efficacy of bioagents and non-toxic chemicals for the management of aflatoxin in stored grains (HQPM 1 and DHM 117) were performed. Stored samples were analyzed for quality parameters at regular interval (3<sup>rd</sup> and 6<sup>th</sup> months of storage). Although no significant differences were observed in protein content, but sugars and oil content showed a significant decline during storage.

### **Agronomy**

Major focused areas of research trials during the period of 2012–2013 were tillage and crop establishment, nutrient management especially site-specific nutrient management (SSNM), genotypic response to nutrients, development of agro techniques for hybrid seed production, optimization of sowing time and weed management in maize and maize based cropping systems under different agro-ecologies.

- **Evaluation of pre-release genotypes under varying nutrient levels:** In general, late maturity genotypes responded up to 150:50:40 kg/ha N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O level at two, 200:65:50 at eight and 250:80:60 at six locations out of 20 centres. Among the late maturing genotypes, in one (BISCO NEW 704) out of three in zone I, two (NMH 713 and CMH 08-287) out of four in Zone II, five (M 9977, X-35A176, A 7501, Bio 562 and CMH 08-287) out of eight in Zone III, one (CMH 08-287) out of three in Zone IV and two (X-35A176 and JH 12157) out of five in Zone V were found significantly superior over to the best check of the respective locations. The response of medium maturity genotypes to N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O level was up to 100:40:30 kg/ha at one location, 150:50:40 at 6 locations and 200:60:50 at 9 locations. It indicates that out of 21 locations tested the medium maturity genotypes responded to 100:40:30, 150:50:40 and 200:60:50 of N: P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O levels at 5, 33.0 and 48.0% locations, respectively. While, among medium maturity group, fifteen (BIO 151, BIO-688, JH-31404, BISCO 2668, CMH 08-350, IMH-666, B-63, JKMH-7004, KDMH 176, NMH 1242, P-3396, PFMH-96 I 41, PFMH-96 N 46, Yuvraj Gold, BH 41009) out of twenty two in zone I, nine (S-6217, BIO-688, S-6304, B-63, BIO-151, BISCO 2668, CMH-08-292, CMH-08-350, P-3396) out of thirteen in zone II, twelve (BIO 151, B 63, BISCO 2668, CMH-08-350, S 6217, S 6304, VMH 4106, X 35 A 173, KMH-401061, CMH-08-

292, NMH-1242 and Titan) out of seventeen in zone III, nine (BIO 151, CMH08-292, CMH08-433, S 6304, X 35-173, X 35-174, Yuvraj Gold, B-63, S-6217) out of twelve in zone IV and two (BIO-151, S-6217) out of fourteen in zone V were found significantly superior over to the best check of respective locations. Out of 22 locations tested, the response of early maturing genotypes was up to 150:50:40 Kg/ha N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O at 7 locations and 200:60:50 at 6 locations. In early maturity group, three (FH 3513, HKH-317, SUN VAAMAN) out of five in Zone I, three (31 Y 45, X8F984, KDMH 755) out of five in Zone II, two (31 Y 45, REH 2009-12) out of four in zone III, two (SUN VAAMAN, FH 3513) out of four in Zone IV and three (FH 3513, REH 2009-12, 31 Y 45) out five in Zone V were found significantly superior over to the best checks. In extra early maturity genotypes, the response to different N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O level was recorded up to 150:50:40 kg/ha at 3 locations and 200:60:50 kg/ha at 4 locations. While, in extra early group in zone I and II out of five only three (FH-3525, KH-9888 and FH-3510) genotypes were found significantly superior over to the best checks of respective locations.

- **Tillage and crop establishment in maize systems:** *Maize-chickpea cropping system:* At Banswara, permanent bed planting produced the highest yield, which was significantly higher over both zero and conventional tillage practices. *Rice-wheat cropping system:* At Dholi, conventional tillage practices gave the highest yield, which was statistically equal to bed planting but remained superior over zero tillage. At Udaipur zero tillage resulted in the maximum maize yield, which was significantly higher over bed planting and conventional tillage. Beneficial effect of residue management was found by recording 8.3% more yield over without residue. *Maize-wheat-green gram:* permanent bed planting was the most suitable at Pantnagar, Udaipur and Banswara. However at Karnal zero tillage and permanent bed being similar gave higher yields than conventional planting. Paired row planting (84:50cm) produced more yield of maize compared to uniform row planting (67cm) and residue retention as mulch @ 5t/ha was also found beneficial at various centers. Similarly, intercropping of green gram increases the maize yield than cowpea; black gram and soybean inter crops at different centers. Increased planting density also improved the maize yield. In moisture conservation experiment at Srinagar, straw mulch @ 6t/ha, being at par with *in situ* mulching of cowpea and hydrogel application @ 2.5 kg/ha produced the highest yield of maize.
- **Site Specific Nutrient Management (SSNM):** SSNM practice resulted is significantly higher yield than all other nutrient management practices at Bajaura, Udhampur, Ludhiana, Ranchi, Karimnagar, Ambikapur, Banswara and Jhabua. At Hyderabad Application of 100% RDF gave the higher productivity than other fertility levels. *Maize-wheat-green gram:* SSNM proved better than 50 and 100% RDF at Dholi and Banswara. However, at Pantnagar, SSNM

remained equal to 100% RDF but both of these treatments proved superior over 50% of RDF. At Karnal 100% of RDF yielded more than SSNM and 50% of RDF. *Maize-chickpea cropping system*: At Banswara, SSNM proved superior over both 50 and 100% of RDF.

- **Weed management:** Pre-emergence application of metribuzin @ 0.25 kg/ha followed by pre-emergence application of atrazine @1.0 kg/ha plus pendimethalin @ 0.5 kg/ha was found the most effective weed management treatment at Kangra. Atrazine, @1.0 kg/ha as pre-emergence application was found to be best treatment in controlling the weed flora and getting highest yield of maize at most of the centers. However, at Karnal, organic mulch @ 6t/ha as cover crop (cowpea 2 rows) was found the most effective in controlling the weeds.
- **Sweet corn response to nitrogen:** In sweet corn varieties there was a significant improvement in yield with increasing N<sub>2</sub>: P<sub>2</sub>O<sub>5</sub> level from 70:30 to 90:40 P<sub>2</sub>O<sub>5</sub>. Further increases in N<sub>2</sub> and P<sub>2</sub>O<sub>5</sub> level from 110:50 to 130:60 significantly reduced the green cob yield.
- **Performance of maize hybrids to adapt rainfall changes:** Experiment on performance of maize hybrids to adapt rainfall changes was conducted. Based on the experimentation on different maturity hybrids under varying dates of sowing it was found that in zone I, 10 days advance sowing was the most suitable. While, in zone II and zone IV normal date of sowing was the optimum and in Zone III, 15 days delay sowing may be done to get better yields. In Zone V, 15 days advance sowing gave the highest yield and further delay in sowing reduced the yields considerably. Under normal dates of sowing, medium and late maturing hybrids gave higher yields, but in delayed sowing condition, early and extra early maturing hybrids performed well.
- **Agro-techniques for single cross hybrid seed production:** At Bajaura, the female and male plant row ratio of 4:1 was found superior over 3:1 row ratio and reducing plant spacing from 25 to 20 cm significantly improved the seed yield.

### Agricultural Extension

- **Inter-institutional Project: Strengthening and Refinement of Maize AGRI *daksh*:** **Maize AGRI *daksh***, an expert system of maize crop to disseminate recent advances in maize to the users. It is based on **AGRI *daksh*** which is a tool for developing online expert system. Maize AGRI *daksh* in different languages *viz.*, Hindi, Telugu, Tamil, Urdu and Bangla are being developed. Farmers/ users questions were answered through Expert Response sub module of the system. The duplicate/ unwanted varieties were deleted from Maize Expert System. Crop menu, announcement and translation tool were added in the system. Maize AGRI *daksh* has been praised by the farmers in demonstrations, trainings, kisan melas and exhibitions.

- DMR organized five national level training programmes in New Delhi wherein around 230 tribal farmers from different states participated. Besides this, DMR also organized nine regional level training programmes wherein 800 tribal farmers from different states participated. AICRIP centres on maize conducted five regional training programmes in Jammu & Kashmir and Uttar Pradesh wherein around 200 tribal farmers participated.
- Frontline Demonstrations (FLDs) on maize were conducted in 2433 acres of land during *rabi* 2011-12, 788 acres in spring 2012 and 4835 acres in *kharif* 2012. Around 8000 farmers were directly benefitted from the programme. These demonstrations were laid out in 23 states by 46 centres/agencies/NGOs. Maize hybrids/varieties like, DHM 117, HM 5, PMH 1, JH 3459, Nithyashree, Hema, Rajarshi, Co H (M) 5, DMH 849, PEHM 2, PEEHM 5, Vivek 9, 21, 23, 33, 39 & 45, HQPM 1& 5, Shaktiman 2, 3 & 4, Vivek QPM 9, HM 4, Bajaura sweet corn, Bajaura pop corn etc. were demonstrated. Besides hybrids/varieties, seed production technology of single cross hybrid, production technology of normal maize, Quality Protein Maize, baby corn, sweet corn, pop corn etc. were demonstrated at farmers' field. An average grain yield of 56.38 q/ha, 51.00 q/ha and 46.03 q/ha was obtained in FLDs during *rabi* 2011-12, spring 2012 and *kharif* 2012 respectively. Thus an average grain yield of 49.59 q/ha was obtained which showed an increase of 100.12 per cent over all India average yield of maize.
- DMR is also implementing TSP across the country in various tribal belts from 2011-12. Around 679 demonstrations were conducted in Andhra Pradesh, Rajasthan, Gujarat, Madhya Pradesh, Maharashtra, Bihar, Chattisgarh, Sikkim, NEH regions, 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 public sector hybrids DHM 117, HQPM 1, HQPM 5, C8, HM 4 etc. The average productivity of maize in demonstrations was 24.78 q/acre during *rabi* 2011-12 and 23.59 q/acre during *kharif* 2012. The national average yield of maize is 15.06 q/acre and 8.9 q/acre during *Rabi* 2011-12 and *Kharif* 2011 respectively. Six field days were organized by DMR in Haryana and Madhya Pradesh states, while SKUAST- Kashmir organized two field days in Jammu and Kashmir. Apart from the above mentioned activities the inputs were distributed to the farmers for maize cultivation. Hybrid seeds, maize shellers, weeders, sprayers, bullock drawn ploughs, seed storage bins and booklets on maize cultivation were distributed among 600 tribal farmers by DMR and AICRIP centres on maize in different parts of country. DMR organized seven exhibitions to create awareness among farmers, entrepreneurs, visitors, etc. through displaying technologies of maize to the farmers.

### Decoding of Entries Tested in Kharif 2012

#### **Trial. 61 (Late)**

Trial No. : 61 Late Maturity (IET)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 2  
 Row Length: 4 mts.

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

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	Cyrus-G	Pravardhan seeds pvt.ltd.	All	DMR 101
2	AMH-477	Asian Agri Genetics, Ltd.	All	DMR 102
3	Bisco X 4296	Seedtec Bisco Bio Sciences (P) Ltd.	All	DMR 103
4	DADA	Yaaganti Seed Pvt Lt.	All	DMR 104
5	FMH-1073	Foliage Crop Solutions Pvt. Ltd.	All	DMR 105
6	FMH-1085	Foliage Crop Solutions Pvt. Ltd.	All	DMR 106
7	FMH-11195	Foliage Crop Solutions Pvt. Ltd.	All	DMR 107
8	FMH-621	Fortune Hybrid seeds Ltd.	All	DMR 108
9	FMH-9184	Foliage Crop Solutions Pvt. Ltd.	All	DMR 109
10	FMH-9190	Foliage Crop Solutions Pvt. Ltd.	All	DMR 110
11	FMH-938	Foliage Crop Solutions Pvt. Ltd.	All	DMR 111
12	FMH-951	Foliage Crop Solutions Pvt. Ltd.	All	DMR 112
13	GH-0945	ARS, Arbhavi, Karnatka	All	DMR 113
14	GK 3059 GOLD	Ganag Kaveri, Seed pvt It.	All	DMR 114
15	GK 3100	Ganag Kaveri, Seed pvt It.	All	DMR 115
16	HTMH 5403	Hytech Seed Ltd.	All	DMR 116
17	IJ8527	Monsanto India Ltd.	All	DMR 117
18	JKMH 4545	JK AGRI GENETICS LTD.	All	DMR 118
19	KDMH 4086	Krishidhan Seeds Pvt. Ltd.	All	DMR 119
20	KH - 7579	Kanchan Ganga Seeds Compny Pvt Ltd.	All	DMR 120
21	KH - K25 Gold	Kanchan Ganga Seeds Compny Pvt Ltd.	All	DMR 121

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
22	KMH-510	Kaveri Seed Company Ltd.	All	DMR 122
23	NMH 1008	Nath Bio- Genes (I) Ltd.	All	DMR 123
24	NMH-1265	Nuziveedu Seeds Pvt. Ltd	All	DMR 124
25	NMH-3493	Nimal Seeds Pvt. Ltd.	All	DMR 125
26	PMH-189	Pravardhan seeds pvt.ltd.	All	DMR 126
27	PMH-2277	prabhat Agri Biotech Ltd.	All	DMR 127
28	Rasi-863	Rasi Seeds (P) Ltd.	All	DMR 128
29	Rasi-932	Rasi Seeds (P) Ltd.	All	DMR 129
30	RMH 02	UAS, College of Agriculture, Bheemarayanaqudi	All	DMR 130
31	Ryder-M	prabhat Agri Biotech Ltd.	All	DMR 131
32	Venus	Prabhat Agri Biotech Ltd.	All	DMR 132
33	CP 802	Charoen Pokphand pvt.ltd,Bangalore- 560 075.	All	DMR 133
34	CMH 10-552	TNAU Coimbatore-641003	All	DMR 134
35	LTH-20	Yaaganti Seeds Pvt Ltd.	All	DMR 135
36	LTH-22	Yaaganti Seeds Pvt Ltd.	All	DMR 136
37	CMH 10-558	TNAU Coimbatore-641003	All	DMR 137
38	REH-2011-05	CSAUA&T, Kanpur-208002.	All	DMR 138
39	X35B396	Xylem Seeds Pvt. Ltd.	All	DMR 139
40	AH 1211	IARI, New Delhi	All	DMR 140
41	JH 31555	PAU, Ludhiana -141005	All	DMR 141
42	JH 31601	PAU, Ludhiana -141006	All	DMR 142
43	DAS MH-103	Dow AgroSciences India Pvt. Lte. Mumbai- 400071	All	DMR 143
44	X35B392	Xylem Seeds Pvt. Ltd.	All	DMR 144
45	CMH 10-477	TNAU, Coimbatore-641003	All	DMR 145
46	CMH 10-546	TNAU, Coimbatore-641003	All	DMR 146
47	CMH 10-540	TNAU, Coimbatore-641003	All	DMR 147
48	REH-2011-06	CSAUA&T, Kanpur-208002.	All	DMR 148
49	PRO-388	Bayer Bioscience Pvt. Ltd.	All	DMR 149
50	X35B391	Xylem Seeds Pvt. Ltd.	All	DMR 150
51	VNR-39029	VNR Seeds Pvt. Ltd.	All	DMR 151
52	A-7503	Advanta India Ltd	All	DMR 152
53	VMH-4174	Nusun Genetic Research Ltd. Hyderabad.	All	DMR 153
54	VMH-4185	Nusun Genetic Research Ltd. Hyderabad.	All	DMR 154



<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
55	Euri 10	BBNL	All	DMR 155
56	X35B390	Xylem Seeds Pvt. Ltd.	All	DMR 156
57	VNR-4226	VNR Seeds Pvt. Ltd.	All	DMR 157
58	PMH 1 ( C )	PAU, Ludhiana -141005	All	DMR 158
59	PMH 3 ( C )	PAU, Ludhiana -141005	All	DMR 159
60	Seed Tech 2324 (	Bisco Seed tec. Company	All	DMR 160
61	Bio 9681 ( C )	Bio seed research company	All	DMR 161
62	HM 11 ( C )	Karnal	All	DMR 162
63	GH-0928	ARS, Arbhavi, Karnatka	All	DMR 163
64	DHM 117	ANGRAU, Hyderabad	All	DMR 164
65	X35A178	Phi Seeds Ltd.	All	DMR 165
66	X35A182	Phi Seeds Ltd.	All	DMR 166
67	X35A188	Phi Seeds Ltd.	All	DMR 167
68	X8B680	Xylem Seeds Pvt. Ltd.	All	DMR 168
69	P3303	Pioneer Overseas Corporation	All	DMR 169

**Trial. 62 (Medium)**

Trial No. : 62 Medium Maturity (IET)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 2  
 Row Length: 4 mts.

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

E.No.	Name	Origin	Zone	DMR Code
1	Meghan-G	Pravardhan seeds pvt.ltd.	All	DMR 201
2	FMH-603	Fortune Hybrid seeds Ltd.	All	DMR 202
3	Rasi-3033	Rasi Seeds (P) Ltd.	All	DMR 203
4	Rasi-588	Rasi Seeds (P) Ltd.	All	DMR 204
5	AMH-455	Asian Agri Genetics, Ltd	All	DMR 205
6	NMH-1281	Nuziveedu Seeds Pvt. Ltd	All	DMR 206
7	NMH-1276	Nuziveedu Seeds Pvt. Ltd	All	DMR 207
8	Bisco X 2711	Seedtec Bisco Bio Sciences (P) Ltd.	All	DMR 208
9	NMH 1588	Nath Bio- Genes (I) Ltd.	All	DMR 209
10	TI8334	Monsanto India Ltd.	All	DMR 210
11	IJ8533	Monsanto India Ltd.	All	DMR 211
12	DKC9108	Monsanto India Ltd.	All	DMR 212
13	VAMH 08014	TNAU, MRS, Vagarai	All	DMR 213
14	JKMH 4511	JK Agri Genetics Ltd.	All	DMR 214
15	S6850	Syngenta India Limited	All	DMR 215
16	S6790	Syngenta India Limited	All	DMR 216
17	BH-411036	ANGRAU- MRC, Rajendranagar, Hyderabad	All	DMR 217
18	KH - 7647	Kanchan Ganga Seeds Compny Pvt Ltc	All	DMR 218
19	KMH-25K45	Kaveri Seed Company Ltd.	All	DMR 219
20	KMH-7148	Kaveri Seed Company Ltd.	All	DMR 220
21	KMH-3110	Kaveri Seed Company Ltd.	All	DMR 221
22	KMH-6681	Kaveri Seed Company Ltd.	All	DMR 222
23	QMH-2966	AICRP on Maize, ZARS, Kolhapur-12 (M)	All	DMR 223
24	EHL 111	CSK HPKV, Bajaura	All	DMR 224
25	EHL 2211	CSK HPKV, Bajaura	All	DMR 225
26	EHL 2311	CSK HPKV, Bajaura	All	DMR 226

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
27	NMH-1277	Nuziveedu Seeds Pvt. Ltd	All	DMR 227
28	DAS MH-302	Dow AgroSciences India Pvt.Mumbai- 40	All	DMR 228
29	PRO 387	Bayer Bioscience Pvt. Ltd.	All	DMR 229
30	BIO 719	Bio seed Research India Pvt. Ltd.	All	DMR 230
31	DAS MH-303	Phi Seeds Ltd.	All	DMR 231
32	X35B403	Xylem Seeds Pvt. Ltd.	All	DMR 232
33	CMH 10-529	(TNAU) Coimbatore-641003	All	DMR 233
34	BAUMH-2011-04	BAU Ranchi Centre	All	DMR 234
35	BAUMH-2011-13	BAU Ranchi Centre	All	DMR 235
36	LTH-21	Yaaganti Seed Pvt Lt.	All	DMR 236
37	CMH 10-473	TNAU , Coimbatore-641003	All	DMR 237
38	X35B410	Hyderabad	All	DMR 238
39	REH 2011-03	CSAUA&T, Kanpur-208002.	All	DMR 239
40	EC-3164	RCA, Udaipur Center-313001	All	DMR 240
41	CMH 10-485	TNAU Coimbatore-641003	All	DMR 241
42	DH-12-01	UAS, Dharwad	All	DMR 242
43	CMH 10-486	TNAU Coimbatore-641003	All	DMR 243
44	REH 2011-4	CSAU A&T, Kanpur-208002.	All	DMR 244
45	AH 1209	IARI, New Delhi	All	DMR 245
46	AH 1210	IARI, New Delhi	All	DMR 246
47	JH 31583	PAU, Ludhiana -141005	All	DMR 247
48	JH 31598	PAU, Ludhiana -141005	All	DMR 248
49	JH 31599	PAU, Ludhiana -141005	All	DMR 249
50	HKH 334	HAU, Karnal	All	DMR 250
51	HKH 335	HAU, Karnal	All	DMR 251
52	HKH 336	HAU, Karnal	All	DMR 252
53	Bio 9637 (Filler )	Bio Science	All	DMR 253
54	HM-4 (Filler)	HAU, Karnal	All	DMR 254
55	Synthetics-1	DMR, New Delhi	All	DMR 255
56	MMH 12-4	T.C.A. Dholi.	All	DMR 256
57	MMH 12-5	T.C.A. Dholi.	All	DMR 257
58	MMH 12-6	T.C.A. Dholi.	All	DMR 258
59	MMH 12-7	T.C.A. Dholi.	All	DMR 259
60	MMH 12-8	T.C.A. Dholi.	All	DMR 260

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
61	VARANASI H12-1	BHU,Varanasi	All	DMR 261
62	DHM 117	ANGRAU, Hyderabad	All	DMR 262
63	QMH-2910	AICRP,MRS, Kolhapur-12	All	DMR 263
64	BH-411001	ANGRAU, MRC Rajendranagar, Hyderabad	All	DMR 264
65	Safal X-260	Safal Seeds & Biotech Ltd Hyderabad	All	DMR 265
66	KNMH 4201	ARS, Karim Nagar.	All	DMR 266
67	KNMH 4202	ARS, Karim Nagar.	All	DMR 267
68	KNMH 4203	ARS, Karim Nagar.	All	DMR 268
69	KNMH 4204	ARS, Karim Nagar.	All	DMR 269
70	KNMH 4205	ARS, Karim Nagar.	All	DMR 270
71	BIO 9637 (C )	Bio seed Research India Pvt. Ltd.	All	DMR 271
72	HM 8 (C )	HAU, Karnal	All	DMR 272
73	HM 9 (C )	HAU, Karnal	All	DMR 273
74	HM 10 (C )	HAU, Karnal	All	DMR 274
75	PMH 4 (C )	PAU, Ludhiana	All	DMR 275

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

Nematology: Udaipur

Soil Science: Pantnagar

Date of Dispatch: 09.10.2012

**Trial. 63 (Early)**

Trial No. : 63 Early Maturity (IET)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 2  
 Row Length: 4 mts.

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

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	GAWMH-2	ACRIP, AAU, Godhra	All	DMR 301
2	GYH-9842	ACRIP, AAU, Godhra	All	DMR 302
3	KMH-7021	Kaveri Seed Company Ltd.	All	DMR 303
4	FH 3605	VPKAS, Almora	All	DMR 304
5	FH 3609	VPKAS, Almora	All	DMR 305
6	FH 3626	VPKAS, Almora	All	DMR 306
7	EH-2223	RCA Udaipur Center	All	DMR 307
8	EH-2212	RCA Udaipur Center	All	DMR 308
9	REH 2011-1	CSAUV A&T, Kanpur-208002.	All	DMR 309
10	Filler-13		All	DMR 310
11	CMH-10-537	TNAU, Coimbatore-641003	All	DMR 311
12	CMH-10-484	TNAU, Coimbatore-641004	All	DMR 312
13	REH 2011-2	CSAUA&T, Kanpur-208002	All	DMR 313
14	CMH-10-527	TNAU, Coimbatore-641004	All	DMR 314
15	CMH-10-531	TNAU, Coimbatore-641005	All	DMR 315
16	Filler-12		All	DMR 316
17	BAUMH-2011-07	BAU Ranchi Centre	All	DMR 317
18	BAUMH-2011-05	BAU Ranchi Centre	All	DMR 318
19	BIO 6008	Bio seed Research India Pvt. L	All	DMR 319
20	AH -1205	IARI, New Delhi	All	DMR 320
21	AH -1206	IARI, New Delhi	All	DMR 321
22	AH -1207	IARI, New Delhi	All	DMR 322
23	AH -1208	IARI, New Delhi	All	DMR 323
24	JH 31602	PAU Ludhiana	All	DMR 324

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
25	JH 31603	PAU Ludhiana	All	DMR 325
26	PRAKASH(Filler)	PAU Ludhiana	All	DMR 326
27	JH 3459 (Filler)	PAU Ludhiana	All	DMR 327
28	HKH 333	HAU, Karnal	All	DMR 328
29	HKH 331	HAU, Karnal	All	DMR 329
30	HKH 332	HAU, Karnal	All	DMR 330
31	JH-3459 (C)	PAU Ludhiana	All	DMR 331
32	Prakash (C)	PAU Ludhiana	All	DMR 332

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

Nematology: Udaipur

Soil Science: Pantnagar

Date of Dispatch: 09.10.2012

**Trial. 64 (Extra Early)**

Trial No. : 64 Extra Early Maturity (IET)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 2  
 Row Length: 4 mts.

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

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	FH 3583	VPKAS, Almora	All	DMR 401
2	FH 3594	VPKAS, Almora	All	DMR 402
3	FQH 93	VPKAS, Almora	All	DMR 403
4	DH-238	GBPUAT, Pantnagar	All	DMR 404
5	DH-241	GBPUAT, Pantnagar	All	DMR 405
6	DH-242	GBPUAT, Pantnagar	All	DMR 406
7	DH-244	GBPUAT, Pantnagar	All	DMR 407
8	DH-248	GBPUAT, Pantnagar	All	DMR 408
9	DH-262	GBPUAT, Pantnagar	All	DMR 409
10	DH-263	GBPUAT, Pantnagar	All	DMR 410
11	REH 2011-7	CSAUV A&T, Kanpur-208002	All	DMR 411
12	REH 2011-8	CSAUV A&T, Kanpur-208002	All	DMR 412
13	AH 1201	IARI, New Delhi	All	DMR 413
14	AH 1202	IARI, New Delhi	All	DMR 414
15	AH 1203	IARI, New Delhi	All	DMR 415
16	AH 1204	IARI, New Delhi	All	DMR 416
17	Vivek QPM 9 (C)	VPKAS, Almora	All	DMR 417
18	Vivek Hybrid 9 (C)	VPKAS, Almora	All	DMR 418

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

Nematology: Udaipur

Soil Science: Pantnagar

Date of Dispatch: 09.10.2012

**Trial. 65 (Late)** Late Maturity (AET - 1st Year)

Trial No. : 65  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 4  
 Row Length: 4 mts.

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

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	X35A187	Phi Seeds Ltd.	All	DMR 501
2	X35A180	Phi Seeds Ltd.	All	DMR 502
3	S6668	Syngenta India Ltd.	All	DMR 503
4	PRO-385	Bayer Bioscience Pvt. Ltd.	All	DMR 504
5	PRO-384	Bayer Bioscience Pvt. Ltd.	All	DMR 505
6	PFMH-97 I 57 (AMAR)	Pro Farm Seed India pvt. Ltd.	All	DMR 506
7	P4546	Pioneer Overseas Corporation	All	DMR 507
8	SeedTech 2324 (Filler)	Seed tech	All	DMR 508
9	Orbit	Yaaganti seed pvt. Ltd Hyderabad- 500034	All	DMR 509
10	NMH-1247	Nuziveedu Seeds Pvt. Ltd	All	DMR 510
11	MCH 46	Monsanto India Ltd.Branch	All	DMR 511
12	MCH 45	Monsanto India Ltd.Branch	All	DMR 512
13	Laxmi 333 (L 333)	Yaaganti seed pvt. Ltd Hyderabad- 500034	All	DMR 513
14	HTMH 5402	Hytech Seeds Ltd.	All	DMR 514
15	HTMH 5106	Hytech Seeds Ltd.	All	DMR 515
16	GK 3103	Ganag Kaveri, Seed pvt It.	All	DMR 516
17	GK 3102	Ganag Kaveri, Seed pvt It.	All	DMR 517
18	DMH 7705	Metahelix life science	All	DMR 518
19	DAS-MH-102	Dow AgroSciences India Pvt. Ltd. Mumbai- 400071	All	DMR 519
20	CMH10-500	TNAU, Coimbatore-641003	All	DMR 520
21	CMH09-464	TNAU, Coimbatore-641004	All	DMR 521
22	CMH08-381(G)	TNAU, Coimbatore-641005	All	DMR 522
23	CMH08-381	TNAU, Coimbatore-641006	All	DMR 523
24	Bisco 2324 Plus	Seedtec Bisco Bio Sciences (P) Ltd.	All	DMR 524
25	B - 54	Kanchan Ganga Seeds Compny Pvt Ltd.	All	DMR 525



<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
26	B - 161	Kanchan Ganga Seeds Compny Pvt Ltd.	All	DMR 526
27	CP 333	Charoenpokphand seeds pvt ltd.,Bangalore	All	DMR 527
28	PMH 1 ( C )	PAU, Ludhiana	All	DMR 528
29	PMH 3 ( C )	PAU, Ludhiana	All	DMR 529
30	Seed Tech 2324©	Bisco Seed tec. Company	All	DMR 530
31	Bio 9681 ( C )	Bio seed research company	All	DMR 531
32	SeedTech 2324 (Filler)	Seed tech	All	DMR 532

Date of Dispatch: 07.06.2012

**Trial. 66 (Medium)** Medium Maturity (AET - 1st Year)

Trial No. : 66

Year (Season): 2012-Kharif

Replication : 3

Row No. : 4

Row Length: 4 mts.

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

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	EHL 161708 (Hyb)	CSKHPKV, Palampur	All	DMR 601
2	X35A189	Phi Seeds Ltd.	All	DMR 602
3	B 53	Kanchan Ganga Seeds Compny Pvt Ltd.	All	DMR 603
4	PMH 4 ( C )	PAU,Ludhiana	All	DMR 604
5	X35A194	Phi Seeds Ltd.	All	DMR 605
6	MCH 47	Monsanto India Ltd. Bangalore 560092,	All	DMR 606
7	PRO-383	Bayer Bioscience Pvt. Ltd.	All	DMR 607
8	JH 31522	PAU, Ludhiana	All	DMR 608
9	JH 31470	PAU, Ludhiana	All	DMR 609
10	BIO 9637 ( C )	Bio seed	All	DMR 610
11	SeedTech 2324 (Filler)	Seed tech	All	DMR 611
12	BIO-9681 (Filler )	Bio seed	All	DMR 612
13	Bio 9637 (Filler)	Bio seed	All	DMR 613

Date of Dispatch: 07.06.2012

**Trial. 67 (Early)** Early Maturity (AET - 1st Year)

Trial No. : 67  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 4  
 Row Length: 4 mts.

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

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	JH 31485	PAU, Ludhiana	All	DMR 701
2	DAS-MH-501	Dow AgroSciences India Pvt.	All	DMR 702
3	Bisco 2238	Bisco Bio-Sciences Pvt.Ltd.	All	DMR 703
4	K 21	Kanchan Ganga Seeds Compny Pvt Ltd.	All	DMR 704
5	FH 3548	VPKAS,Almora	All	DMR 705
6	CMH10-525	TNAU, Coimbatore-641003	All	DMR 706
7	Prakash ( C )	PAU, Ludhiana	All	DMR 707
8	JH 3459( C )	PAU, Ludhiana	All	DMR 708

**Trial. 68 (Extra Early)** Extra Early Maturity (AET-1) Date of dispatch:

Trial No. : 68 07.06.2012  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 4  
 Row Length: 4 mts.

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

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Zone</b>	<b>DMR Code</b>
1	FH 3556	VPKAS,Almora	All	DMR 801
2	FH 3554	VPKAS,Almora	All	DMR 802
3	FH 3558	VPKAS,Almora	All	DMR 803
4	FH 3555	VPKAS,Almora	All	DMR 804
5	K 75	VPKAS,Almora	All	DMR 805
6	DH-230	GBPUAT,Pantnagar	All	DMR 806
7	Vivek Hybrid 9(C)	VPKAS,Almora	All	DMR 807
8	Vivek QPM 9(C)	VPKAS,Almora	All	DMR 808

**AET II Trials****Trial. 69 - Z-I (Late)**

Trial No. : 69 Z - I Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Baderwah, Gangtok, K.D.Farm – Srinagar, Sagam; Almora, Bajaura, Barapani, Kangra, Poonch

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	Bisco New 704	Bisco Bio Sciences Pvt. Ltd.	69 Z-1	DMR 911
2	PMH 1 ( C )	PAU, Ludhiana	69 Z-1	DMR 912
3	PMH 3 ( C )	PAU, Ludhiana	69 Z-1	DMR 913
4	Seed Tech 2324 ( C )	Seed Tech. com.	69 Z-1	DMR 914
5	Bio 9681 ( C )	Bioseed	69 Z-1	DMR 915
6	Bio 9681 (Filler)	Bioseed	69 Z-1	DMR 916

**Trial. 69 - Z-II (Late)**

Trial No. : 69 Z - II Late Maturity (AET 2nd Year) Date of Dispatch: 05.06.2

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Jammu, Dhaulakuan (only for Pathology), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	CMH08-287	AICRP,Coimbatore-641003	69 Z-2	DMR 921
2	NMH-713	Nuziveedu Seeds Pvt. Ltd.,Hyderab	69 Z-2	DMR 922
3	PMH 1 ( C )	PAU, Ludhiana	69 Z-2	DMR 923
4	PMH 3 ( C )	PAU, Ludhiana	69 Z-2	DMR 924
5	Seed Tech 2324 ( C )	Seed Tech. com.	69 Z-2	DMR 925
6	Bio 9681 ( C )	Bioseed	69 Z-2	DMR 926
7	Bio 9681 (Filler)	Bioseed	69 Z-2	DMR 927
8	Bio 9637 ( Filler )	Bioseed	69 Z-2	DMR 928

**Trial. 69 - Z-III (Late)**

Trial No. : 69 Z - III Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	A 7501	Advanta India Ltd.	69 Z-3	DMR 931
2	BIO-562	Shriram Bioseeds Genetics India Ltd.	69 Z-3	DMR 932
3	CMH08-287	TNAU, Coimbatore-641003	69 Z-3	DMR 933
4	Bio 9681 (Filler)	Bioseed	69 Z-3	DMR 934
5	M 9977	Metahelix Life Sciences Ltd.	69 Z-3	DMR 935
6	X35A176	Xylem Seeds Pvt. Ltd.	69 Z-3	DMR 936
7	PMH 1 ( C )	PAU, Ludhiana	69 Z-3	DMR 937
8	PMH 3 ( C )	PAU, Ludhiana	69 Z-3	DMR 938
9	Seed Tech 2324 ( C )	Seed Tech. com.	69 Z-3	DMR 939
10	Bio 9681 ( C )	Bioseed	69 Z-3	DMR 940
11	Seed Tech 2324 (Filler)	Seed Tech.	69 Z-3	DMR 941

**Trial. 69 - Z-IV (Late)**

Trial No. : 69 Z - IV Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

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

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	PMH 1 ( C )	PAU, Ludhiana	69 Z-4	DMR 942
2	PMH 3 ( C )	PAU, Ludhiana	69 Z-4	DMR 943
3	Seed Tech 2324 ( C )	Seed Tech. com.	69 Z-4	DMR 944
4	Bio 9681 ( C )	Bioseed	69 Z-4	DMR 945
5	Seed Tech 2324 (Filler)	Seed Tech. com.	69 Z-4	DMR 946
6	CMH08-287	TNAU, Coimbatore-641003	69 Z-4	DMR 947

**Trial. 69 - Z-V (Late)**

Trial No. : 69 Z - V Late Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua  
 Date of Dispatch: 05.06.2012

E. No.	Name	Origin	Trial no.	DMR Code
1	CMH08-287	TNAU, Coimbatore-641003	69 Z-5	DMR 951
2	Bio 9681 (Filler)	Bioseed	69 Z-5	DMR 952
3	X35A176	Xylem Seeds Pvt. Ltd.	69 Z-5	DMR 953
4	PMH 1 ( C )	PAU, Ludhiana	69 Z-5	DMR 954
5	PMH 3 ( C )	PAU, Ludhiana	69 Z-5	DMR 955
6	Seed Tech 2324 ( C )	Seed Tech. com.	69 Z-5	DMR 956
7	Bio 9681 ( C )	Bioseed	69 Z-5	DMR 957
8	Seed Tech 2324 (Filler)	Seed Tech.	69 Z-5	DMR 958

**Trial. 70 - Z-I (Medium)**

Trial No. : 70 Z - I Medium Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Baderwah, Gangtok, K.D.Farm – Srinagar, Sagam; Almora, Bajaura, Barapani, Kangra, Poonch  
 Date of Dispatch: 05.06.2012

E. No.	Name	Origin	Trial no.	DMR Code
1	JH 31404	PAU, Ludhiana	70 Z-1	DMR 1001
2	BH41009	Angrau,Hyderabad	70 Z-1	DMR 1002
3	BIO 151	Bio seed Research India Pvt. Ltd.	70 Z-1	DMR 1003
4	BIO-688	Bio seed Research India Pvt. Ltd.	70 Z-1	DMR 1004
5	Bisco 2668	Bisco Bio-Sciences Pvt. Ltd	70 Z-1	DMR 1005
6	CMH08-350	TNAU, Coimbatore-641003	70 Z-1	DMR 1006
7	IMH-666	Atash seeds pvt ltd	70 Z-1	DMR 1007
8	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70 Z-1	DMR 1008
9	JKMH-7004	JK Agri Genetics Ltd.	70 Z-1	DMR 1009
10	KDMH 176	Krishidhan Pvt Ltd.	70 Z-1	DMR 1010
11	NMH-1242	Nuziveedu Seeds Pvt. Ltd.,Hyderabad	70 Z-1	DMR 1011
12	P3396	Phi Seeds Ltd.	70 Z-1	DMR 1012

E. No.	Name	Origin	Trial no.	DMR Code
13	PFMH-96 I 41	Pro Farm Seed India pvt. Ltd.	70 Z-1	DMR 1013
14	PFMH-96 N 46	Pro Farm Seed India pvt. Ltd.	70 Z-1	DMR 1014
15	S6217	Syngenta India Ltd	70 Z-1	DMR 1015
16	S6304	Syngenta India Ltd	70 Z-1	DMR 1016
17	TITAN	Bisco Bio-Sciences Pvt. Ltd	70 Z-1	DMR 1017
18	X35A173	Xylem Seeds Pvt. Ltd.	70 Z-1	DMR 1018
19	X35A174	Xylem Seeds Pvt. Ltd.	70 Z-1	DMR 1019
20	YUVRAJ GOLD	Bisco Bio-Sciences Pvt. Ltd	70 Z-1	DMR 1020
21	BIO 9637 (C )	Bioseed	70 Z-1	DMR 1021
22	Seed Tech 2324 (Filler)	Seed Tech. com.	70 Z-1	DMR 1022
23	Bio 9681 (Filler)	Bioseed	70 Z-1	DMR 1023
24	PMH 4 (C )	PAU	70 Z-1	DMR 1024
25	Bio 9637 (Filler)	Bioseed	70 Z-1	DMR 1025

### Trial. 70 - Z-II (Medium)

Trial No. : 70 Z - II Medium Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Jammu, Dhaulakuan (only for Pathology), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

Date of Dispatch: 05.06.2012

E. No.	Name	Origin	Trial no.	DMR Code
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70 Z-2	DMR 1031
2	BIO 151	Bio seed Research India Pvt. Ltd.	70 Z-2	DMR 1032
3	BIO-688	Bio seed Research India Pvt. Ltd.	70 Z-2	DMR 1033
4	Bisco 2668	Bisco Bio-Sciences Pvt. Ltd	70 Z-2	DMR 1034
5	CMH08-292	AICRP,Coimbatore-641003	70 Z-2	DMR 1035
6	CMH08-350	AICRP,Coimbatore-641003	70 Z-2	DMR 1036
7	P3396	Phi Seeds Ltd.	70 Z-2	DMR 1037
8	S6217	Syngenta India Ltd	70 Z-2	DMR 1038
9	S6304	Syngenta India Ltd	70 Z-2	DMR 1039
10	X35A174	Xylem Seeds Pvt. Ltd.	70 Z-2	DMR 1040
11	YUVRAJ GOLD	Bisco Bio-Sciences Pvt. Ltd	70 Z-2	DMR 1041
12	BIO 9637 (C )	Biosci	70 Z-2	DMR 1042
13	Seed Tech 2324 (Filler)	Seed Tech. com.	70 Z-2	DMR 1043
14	Bio 9681 (Filler)	Bio seed Research India Pvt. Ltd.	70 Z-2	DMR 1044
15	PMH 4 (C )	PAU, Ludhiana	70 Z-2	DMR 1045
16	Bio 9637 (Filler)	Bio seed Research India Pvt. Ltd.	70 Z-2	DMR 1046

**Trial. 70 - Z-III (Medium)**

Trial No. : 70 Z - III Medium Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70Z-3	DMR 1051
2	BH41009	Angrau,Hyderabad	70Z-3	DMR 1052
3	BIO 151	Bio seed Research India Pvt. Ltd.	70Z-3	DMR 1053
4	Bisco 2668	Bisco Bio-Sciences Pvt. Ltd	70Z-3	DMR 1054
5	CMH08-292	AICRP,Coimbatore-641003	70Z-3	DMR 1055
6	CMH08-350	AICRP,Coimbatore-641003	70Z-3	DMR 1056
7	KNMH401061	Angrau, Karimnagar	70Z-3	DMR 1057
8	NMH-1242	Nuziveedu Seeds Pvt. Ltd.,Hyderabad	70Z-3	DMR 1058
9	P3396	Phi Seeds Ltd.	70Z-3	DMR 1059
10	S6217	Syngenta India Ltd	70Z-3	DMR 1060
11	S6304	Syngenta India Ltd	70Z-3	DMR 1061
12	TITAN	Atash seeds pvt ltd	70Z-3	DMR 1062
13	VMH 4106	Vibha seeds pvt ltd	70Z-3	DMR 1063
14	X35A173	Xylem Seeds Pvt. Ltd.	70Z-3	DMR 1064
15	YUVRAJ GOLD	Bisco Bio Sciences (P) Ltd. Secunderabad-500003	70Z-3	DMR 1065
16	BIO 9637 (C )	Bio seed Research India Pvt. Ltd.	70Z-3	DMR 1066
17	Bio 9681 (Filler)	Bioseed	70Z-3	DMR 1067
18	Bio 9681 (Filler)	Bio seed Research India Pvt. Ltd.	70Z-3	DMR 1068
19	PMH 4 (C )	PAU	70Z-3	DMR 1069
20	Bio 9637 (Filler)	Bio seed Research India Pvt. Ltd.	70Z-3	DMR 1070

**Trial. 70 - Z-IV (Medium)**

Trial No. : 70 Z - IV Medium Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi , Mandya, Coimbatore and Vagarai  
 Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70Z-4	DMR 1071
2	BIO 151	Bio seed Research India Pvt. Ltd.	70Z-4	DMR 1072
3	CMH08-292	TNAU, Coimbatore-641003	70Z-4	DMR 1073
4	CMH08-433	TNAU, Coimbatore-641004	70Z-4	DMR 1074
5	NMH-1242	Nuziveedu Seeds Pvt. Ltd.,Hyderabad	70Z-4	DMR 1075
6	S6217	Syngenta India Ltd	70Z-4	DMR 1076
7	S6304	Syngenta India Ltd	70Z-4	DMR 1077
8	X35A173	Xylem Seeds Pvt. Ltd.	70Z-4	DMR 1078
9	X35A174	Xylem Seeds Pvt. Ltd.	70Z-4	DMR 1079
10	YUVRAJ GOLD	Seedtec Bisco Bio Sciences (P) Ltd. Secunderabad-500003	70Z-4	DMR 1080
11	BIO 9637 (C )	Bio seed Research India Pvt. Ltd.	70Z-4	DMR 1081
12	Bio 9681 (Filler)	Bio seed Research India Pvt. Ltd.	70Z-4	DMR 1082
13	Bio 9681 (Filler)	Bio seed Research India Pvt. Ltd.	70Z-4	DMR 1083
14	PMH 4 (C )	PAU	70Z-4	DMR 1084
15	Bio 9637 (Filler)	Bioseed	70Z-4	DMR 1085



**Trial. 70 - Z-V (Medium)**

Trial No. : 70 Z - V Medium Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua  
 Date of Dispatch: 05.06.2012

E. No.	Name	Origin	Trial no.	DMR Code
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70Z-5	DMR 1086
2	BH41009	Angrau,Hyderabad	70Z-5	DMR 1087
3	BIO 151	Bio seed Research India Pvt. Ltd.	70Z-5	DMR 1088
4	CMH08-292	TNAU, Coimbatore-641003	70Z-5	DMR 1089
5	CMH08-350	TNAU, Coimbatore-641004	70Z-5	DMR 1090
6	CMH08-433	TNAU, Coimbatore-641005	70Z-5	DMR 1091
7	EC-3161	AICMIP RCA MPUAT Udaipur	70Z-5	DMR 1092
8	NMH-1242	Nuziveedu Seeds Pvt. Ltd.,Hyderabad	70Z-5	DMR 1093
9	PFMH-96 N 46	Pro Farm Seed India pvt. Ltd.	70Z-5	DMR 1094
10	S6217	Syngenta India Ltd	70Z-5	DMR 1095
11	X35A174	Xylem Seeds Pvt. Ltd.	70Z-5	DMR 1096
12	YUVRAJ GOLD	Atash seeds pvt ltd	70Z-5	DMR 1097
13	BIO 9637 ( C )	Bio Science	70Z-5	DMR 1098
14	Bio 9681 (Filler)	Bio seed Research India Pvt. Ltd.	70Z-5	DMR 1099
15	Bio 9681 (Filler)	Bio seed Research India Pvt. Ltd.	70Z-5	DMR 1100
16	PMH 4 ( C )	PAU, Ludhiana	70Z-5	DMR 1101
17	Bio 9637(Filler)	Bio Science	70Z-5	DMR 1102

**Trial. 71 - Z-I (Early)**

Trial No. : 71 Z - I Early Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Baderwah, Gangtok, K.D.Farm – Srinagar, Sagam; Almora, Bajaura, Barapani, Kangra, Poonch

E. No.	Name	Origin	Trial no.	DMR Code
1	FH 3513	VPKAS,Almora	71Z-1	DMR 1111
2	HKH-317	HAU, Karnal	71Z-1	DMR 1112
3	SUN VAAMAN	Suncrop Science Pvt Ltd.C277	71Z-1	DMR 1113
4	Prakash ( C )	PAU, Ludhiana	71Z-1	DMR 1114
5	JH 3459( C )	PAU, Ludhiana	71Z-1	DMR 1115
6	BIO 9637 (Filler )	Bio Science	71Z-1	DMR 1116

**Trial. 71 - Z-II (Early)**

Trial No. : 71 Z - II Early Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Jammu, Dhaulakuan (only for Pathology), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	31Y45	Phi Seeds Ltd.	71Z-2	DMR 1121
2	X8F984	Pioneer Oversease	71Z-2	DMR 1122
3	KDMH 755	Krishidhan Seeds Pvt Ltd.	71Z-2	DMR 1123
4	Prakash ( C )	PAU, Ludhiana	71Z-2	DMR 1124
5	JH 3459( C )	PAU, Ludhiana	71Z-2	DMR 1125
6	BIO 9637 (Filler )	Bio seed	71Z-2	DMR 1126

**Trial. 71 - Z-III (Early)**

Trial No. : 71 Z - III Early Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	31Y45	Phi Seeds Ltd.	71Z-3	DMR 1131
2	REH 2009-12	CSAU A&T, Kanpur-208002.	71Z-3	DMR 1132
3	Prakash ( C )	PAU, Ludhiana	71Z-3	DMR 1133
4	JH 3459( C )	PAU, Ludhiana	71Z-3	DMR 1134
5	BIO 9637 (Filler )	Bio Science	71Z-3	DMR 1135
6	PMH 4 (Filler )	PAU, Ludhiana	71Z-3	DMR 1136

**Trial. 71 - Z-IV (Early)**

Trial No. : 71 Z - IV Early Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi, Mandya, Coimbatore and Vagarai

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	SUN VAAMAN	Suncrop Science Pvt Ltd.	71Z-4	DMR 1141
2	FH 3513	VPKAS,Almora	71Z-4	DMR 1142
3	Prakash ( C )	PAU, Ludhiana	71Z-4	DMR 1143
4	JH 3459( C )	PAU, Ludhiana	71Z-4	DMR 1144
5	BIO 9637 (Filler )	Bio Science	71Z-4	DMR 1145
6	PMH 4 (Filler )	PAU, Ludhiana	71Z-4	DMR 1146

**Trial. 71 - Z-V (Early)**

Trial No. : 71 Z - V Early Maturity (AET 2nd Year)  
 Year (Season): 2012-Kharif  
 Replication : 3  
 Row No. : 6  
 Row Length: 4 mts.  
 Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

Date of Dispatch: 05.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
1	FH 3513	VPKAS,Almora	71Z-5	DMR 1151
2	REH 2009-12	CSAU A&T, Kanpur-208002.	71Z-5	DMR 1152
3	31Y45	Phi Seeds Ltd.	71Z-5	DMR 1153
4	Prakash ( C )	PAU, Ludhiana	71Z-5	DMR 1154
5	JH 3459( C )	PAU, Ludhiana	71Z-5	DMR 1155
6	BIO 9637 (Filler )	Bio Science	71Z-5	DMR 1156

**Trial. 72 - Z-I (Extra Early)**

Trial No. : 72 Z - I Extra Early Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Baderwah, Gangtok, K.D.Farm – Srinagar, Sagam; Almora, Bajaura, Barapani, Kangra, Poonch

Date of Dispatch: 05.06.2012

E. No.	Name	Origin	Trial no.	DMR Code
1	FH 3525	VPKAS,Almora	72Z-1	DMR 1211
2	KH-9888	Kanchan Ganga Seeds Compny Pvt Ltd.	72Z-1	DMR 1212
3	FH 3510	VPKAS,Almora	72Z-1	DMR 1213
4	Vivek Hybrid 9 ( C )	VPKAS,Almora	72Z-1	DMR 1214
5	Vivek QPM 9 ( C )	VPKAS,Almora	72Z-1	DMR 1215
6	Prakash ( Filler )	PAU, Ludhiana	72Z-1	DMR 1216
7	JH 3459( Filler )	PAU, Ludhiana	72Z-1	DMR 1217

**Trial. 72 - Z-III (Extra Early)**

Trial No. : 72 Z - III Extra Early Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

Date of Dispatch: 05.06.2012

E. No.	Name	Origin	Trial no.	DMR Code
1	KH-9888	Kanchan Ganga Seeds Compny Pvt Ltd.	72Z-3	DMR 1231
2	FH 3525	VPKAS,Almora	72Z-3	DMR 1232
3	FH 3510	VPKAS,Almora	72Z-3	DMR 1233
4	Vivek Hybrid 9 ( C )	VPKAS,Almora	72Z-3	DMR 1234
5	Vivek QPM 9 ( C )	VPKAS,Almora	72Z-3	DMR 1235
6	Prakash ( Filler )	PAU, Ludhiana	72Z-3	DMR 1236
7	JH 3459( Filler )	PAU, Ludhiana	72Z-3	DMR 1237

**Trial No. :** QPM 1-2-3  
**Year (Season):** 2012 (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,

S.NO.	Name	Origin	Trial no.	DMR Code
1	UQMH-4	ACRIP, Bhubaneswar	QPM 1	QPM 101
2	UQMH-5	ACRIP, Bhubaneswar	QPM 1	QPM 102
3	HQPM-1 (Filler)	HAU, Karnal	-	QPM 103
4	HQPM-1 (Filler)	HAU, Karnal	-	QPM 104
5	VEHQ-3020	BHU, varanasi	QPM 1	QPM 105
6	MHQPM-09-7	T.C.A. Dholi.	QPM-3	QPM 106
7	MHQPM-09-6	T.C.A. Dholi.	QPM-3	QPM 107
8	MHQPM-09-8	T.C.A. Dholi.	QPM-3	QPM 108
9	HQPM-1(Filler)	HAU, Karnal	-	QPM 109
10	HQPM-1 (Filler)	HAU, Karnal	-	QPM 110
11	EHQ-16	RCA, MPUA &T, Udaipur	QPM-3	QPM 111
12	HQPM-7 ( Filler)	HAU, Karnal	-	QPM 112
13	HQPM-5 (Filler)	HAU, Karnal	-	QPM 113
14	HQPM-1 (C)	HAU, Karnal	C	QPM 114
15	HQPM-5 (C)	HAU, Karnal	C	QPM 115
16	HQPM-7 (C)	HAU, Karnal	C	QPM 116
17	HQPM-4 (C)	HAU, Karnal	C	QPM 117

**Trial No. :** Popcorn  
**Year (Season):** 2012 (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,

S.NO.	Name	Origin	DMR Code
1	VL Popcorn 2	VPKAS, Almora	PC 101
2	VL Amber Popcorn(Filler)	VPKAS, Almora	PC 102
3	Bajaura Popcorn	CSKHPKV, Bajaura center	PC 103
4	VL Amber Popcorn (C)	VPKAS, Almora	PC 104
5	Bio 9631 (Filler)	Bio Science	PC 105
6	Bio 9637 (Filler)	Bio seed	PC 106

**Trial No. : Sweet Corn**

Year (Season): 2012 (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

S.NO.	Name	Origin	DMR Code
1	FSCH 1	VPKAS,Almora	SC 101
2	FSCH 18	VPKAS,Almora	SC 102
3	KSCH-222 (Filler)	Kaveri Seed Company Ltd.	SC 103
4	BSCH 63	Angrau ARI, Rajendranagar Hyderabad 500030	SC 104
5	KSCH 222	Kaveri Seed Company Ltd.	SC 105
6	Bisco Madhu	Bisco Seeds	SC 106
7	Bajaura sweet corn(Filler)	CSKHPKV, Bajaura	SC 107
8	Bajaura sweet corn	CSKHPKV, Bajaura	SC 108
9	KSCH 333	Kaveri Seed Company Ltd.	SC 109
10	NSCH 12	Nuziveedu Seeds Pvt. Ltd. RangaRaddy-501401	SC 110
11	WOSC (C)	DMR, Hyderabad	SC 111

**Trial No. : Baby Corn**

Year (Season): 2012 (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

S.NO.	Name	Origin	DMR Code
1	Almora hybrid	VPKAS, Almora	BC 101
2	HM4 (C)	Karnal	BC 102
3	Prakash (Filler)	Ludhiana	BC 103
4	HQPM 1(Filler)	Karnal	BC 104
5	DHM 117(Filler)	Hyderabad	BC 105
6	HM-4 (Filler)	Karnal	BC 106
7	PMH 4(Filler)	Ludhiana	BC 107

ZONAL TRIAL No. 102	MEDIUM MATURITY		
Year	2012 Kharif		
Location:	Zone 1		
<b>Ent. No.</b>	<b>Origin</b>	<b>Entry</b>	<b>Code</b>
1	Bajaura	EHL 2912	ZR-201
2	Bajaura	EHL 3012	ZR-202
3	Udhampur	UDMH 101	ZR-203
4	Poonchh	PHM 12	ZR-204
5	Udhampur	UDMH 102	ZR-205
6	Bajaura	EHL 3112	ZR-206
7	Bajaura	EHL 3212	ZR-207
8	Check	BIO 9637	ZR-208
9	Poonchh	PHM11	ZR-209
10	Udhampur	UDMH 105	ZR-210
11	Udhampur	UDMH 104	ZR-211
12	Bajaura	EHL 3312	ZR-212
13	Poonchh	PHM 14	ZR-213
14	Poonchh	PHM34	ZR-214
15	Bajaura	EHL3412	ZR-215
16	Udhampur	UDMH 106	ZR-216
17	Bajaura	EHL 3512	ZR-217
18	Bajuara	EHL 3612	ZR-218
19	Bajaura	EHL 3712	ZR-219
20	Bajaura	EHL 3812	ZR-220
21	Bajaura	EHL 3912	ZR-221
22	Bajaura	EHL4012	ZR-222
23	Check	Navjot	ZR 223
24	Local check		ZR 223 A

ZONALTRIAL No. 103                      EARLY MATURITY  
 Year    2012 Kharif  
 Location:                                        Zone 1

Entry No.	Origin	Pedigree	Code
1	Almora	FH 3639	ZR 101
2	Almora	FH 3644	ZR 102
3	Almora	FH 3646	ZR 103
4	Almora	FH 3648	ZR 104
5	Almora	FH 3650	ZR 105
6	Almora	FH 3653	ZR 106
7	Almora	FH 3659	ZR 107
8	Almora	FH 3660	ZR 108
9	Bajaura	KDM 72	ZR 109
10	Bajaura	EHL 2412	ZR 110
11	Bajaura	EHL 2812	ZR 111
12	Bajaura	EHL 2612	ZR 112
13	Almora	FH 3661	ZR 113
14	Almora	FH 3662	ZR 114
15	Almora	FH 3667	ZR 115
16	Almora	FH 3656	ZR 116
17	Almora	FH 3672	ZR 117
18	Almora	FH 3673	ZR 118
19	Almora	VIVEK HYBRID 9	ZR 119
20	Almora	VIVEK HYBRID 39	ZR 120
21	Bajaura	EHL 2512	ZR 121
22	Bajaura	EHL 2712	ZR 122

Zonal Trial-502 (Medium maturity)

YearK-2012                                      2012 kharif

No. of Rows                                      2

No. of Rep                                        3

Row length                                        4 m

R to R    60cm

P to P    20-25cm

Location: Udaipur, Banswara, Godhra, Bhiloda  
 and Chhindwara

S. No.	Entry Code	Origin	Pedigree
1	ZT-502-1	Udaipur	EH-2238
2	ZT-502-2	Udaipur	EH-2239
3	ZT-502-3	Udaipur	EH-2240
4	ZT-502-4	Udaipur	Navjot
5	ZT-502-5	Check	Bio-9637
6	ZT-502-6	Check	HM-9
7	ZT-502-7	Check	DHM-117
8	ZT-502-8	Check	PMH-3
9	ZT-502-9	Check	Pratap Makka-3
10	ZT-502-10	Udaipur	EH-2241
11	ZT-502-11	Udaipur	EH-2242



## Zonal Trial-503 (Early maturity)

Year Kharif -2012  
 No. of Rows 2  
 No. of Replication 3  
 Row length-4 m 4m  
 Crop Geometry-60 × 20-25 cm  
 Location: Udaipur, Banswara, Godhara, Bhiloda  
 and Chhindwara

S.No.	Pedigree	Origin	Entry Code
1	GWH-0330	Godhara	ZT-503-1
2	GWH-0703	Godhara	ZT-503-2
3	GWH-0705	Godhara	ZT-503-3
4	GWH-0712	Godhara	ZT-503-4
5	GYH-0461	Godhara	ZT-503-5
6	GYH-0652	Godhara	ZT-503-6
7	GYH-0653	Godhara	ZT-503-7
8	GYH-0656	Godhara	ZT-503-8
9	EH-2233	Udaipur	ZT-503-9
10	EH-2234	Udaipur	ZT-503-10
11	EH-2235	Udaipur	ZT-503-11
12	EH-2236	Udaipur	ZT-503-12
13	EH-2237	Udaipur	ZT-503-13
14	PEHM-2	Check	ZT-503-14
15	Vivek Hybrid-9	Check	ZT-503-15
16	Arawali Makka-1	Check	ZT-503-16

Trial No: ZTQ-01

Year 2012 Kharif  
 No. of Entries 14  
 Rows / plot 2  
 No. of Replication 3  
 Row length 4m

Location: Udaipur, Banswara, Godhara, and Chhindwara

S.No.	Pedigree	Origin	Code
1	EHQ-93	Udaipur	ZTQ-01
2	EHQ-94	Udaipur	ZTQ-02
3	EHQ-95	Udaipur	ZTQ-03
4	EHQ-96	Udaipur	ZTQ-04
5	EHQ-97	Udaipur	ZTQ-05
6	EHQ-98	Udaipur	ZTQ-06
7	EHQ-99	Udaipur	ZTQ-07
8	EHQ-100	Udaipur	ZTQ-08
9	EHQ-101	Udaipur	ZTQ-09
10	EHQ-102	Udaipur	ZTQ-10
11	Vivek QPM-9	Check	ZTQ-11
12	HQPM-1	Check	ZTQ-12
13	HQPM-5	Check	ZTQ-13
14	HQPM-7	Check	ZTQ-14

**AET II Trials****AET II Nitrogen X Genotypes Agronomy Trials****Trial N X G - Late - Z-I**

N X G Trial : Late Z - I Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Locations: Almora, Bajaura, Kangra

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	Bisco New 704	Bisco Bio Science(p)ltd.	69	Z-1	DMR 911
2	Seed Tech 2324(C)	Bisco Seed tec. Company	69	Z-1	DMR 912
3	Bio 9681 ( C )	Bio seed research company	69	Z-1	DMR 913

**Trial N X G - Late - Z-II**

N X G Trial : Late Z - II Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	CMH08-287	TNAU Coimbatore-641003	69	Z-2	DMR 921
2	NMH-713	Nuziveedu Seeds Pvt. Ltd	69	Z-2	DMR 922
3	Seed Tech 2324 ( C )	Bisco Seed tec. Company	69	Z-2	DMR 923
4	Bio 9681 ( C )	Bio seed research company	69	Z-2	DMR 924

**Trial N X G - Late - Z-III**

N X G Trial : Late Z - III Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	A 7501	Advanta seeds pvt ltd	69	Z-3	DMR 931
2	BIO-562	Bio seed Research India Pvt. Ltd.	69	Z-3	DMR 932
3	CMH08-287	TNAU Coimbatore-641003	69	Z-3	DMR 933
4	JH 12157	PAU,Ludhiana	69	Z-3	DMR 934
5	M 9977	Metahekix Life Sciences Ltd Bangalore 560099	69	Z-3	DMR 935
6	X35A176	Xylem Seeds Pvt.Ltd Hyderabad 500082	69	Z-3	DMR 936
7	Seed Tech 2324(C)	Bisco Seed tec. Company	69	Z-3	DMR 937
8	Bio 9681 ( C )	Bio seed research company	69	Z-3	DMR 938

**Trial N X G - Late - Z-IV (Late)**

N X G - Trial : Late Z-IV Late Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

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

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	SeedTech 2324(C)	Bisco Seed tec. Company	69	Z-4	DMR 941
2	Bio 9681 ( C )	Bio seed research company	69	Z-4	DMR 942
3	CMH08-287	TNAU, Coimbatore-641003	69	Z-4	DMR 943

**Trial N X G - Late - Z-V**

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

Year (Season): 2012-Kharif

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

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	CMH08-287	TNAU Coimbatore-641003	69	Z-5	DMR 951
2	JH 12157	PAU,Ludhiana	69	Z-5	DMR 952
3	X35A176	Xylem Seeds Pvt.Ltd.Hyderabad 500082	69	Z-5	DMR 953
4	Seed Tech 2324 ( C )	Bisco Seed tec. Company	69	Z-5	DMR 954
5	Bio 9681 ( C )	Bio Seed Research Company	69	Z-5	DMR 955

**Trial N X G - Medium - Z-I**

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

Year (Season): 2012-Kharif

Locations: Almora, Bajaura, Kangra

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	JH 31404	PAU,Ludhiana	70	Z-1	DMR 1001
2	BH41009	Angrau MRC, ARI, Hyderabad 500030	70	Z-1	DMR 1002
3	BIO 151	Bio seed Research India Pvt. Ltd.	70	Z-1	DMR 1003
4	BIO-688	Bio seed Research India Pvt. Ltd.	70	Z-1	DMR 1004
5	Bisco 2668	Bisco Bio Science(p)ltd.	70	Z-1	DMR 1005
6	CMH08-350	TNAU Coimbatore-641003	70	Z-1	DMR 1006
7	IMH-666	BISCO BIO-Sciences Pvt.Ltd.	70	Z-1	DMR 1007
8	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70	Z-1	DMR 1008
9	JKMH-7004	JK Agri Genetics Ltd. , Hyderabad-500016	70	Z-1	DMR 1009
10	KDMH 176	Krishidhan Seeds Pvt. Ltd.	70	Z-1	DMR 1010
11	NMH-1242	Nuziveedu Seeds Pvt. Ltd	70	Z-1	DMR 1011
12	P3396	Phi Seeds Ltd.	70	Z-1	DMR 1012
13	PFMH-96 I 41	Pro Farm Seed India pvt. Ltd. A P-500014	70	Z-1	DMR 1013
14	PFMH-96 N 46	Pro Farm Seed India pvt. Ltd. A P-500014	70	Z-1	DMR 1014
15	S6217	Syngenta India Ltd.	70	Z-1	DMR 1015
16	S6304	Syngenta India Ltd.	70	Z-1	DMR 1016
17	TITAN	Bisco Bio-Sciences Pvt.Ltd.	70	Z-1	DMR 1017
18	X35A173	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-1	DMR 1018
19	X35A174	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-1	DMR 1019
20	YUVRAJ GOLD	Bisco Bio-Sciences Pvt.Ltd.	70	Z-1	DMR 1020
21	BIO 9637 ( C )	Bio seed research company	70	Z-1	DMR 1021
22	PMH 4 ( C )	PAU,Ludhiana	70	Z-1	DMR 1022

Medium Maturity (AET 2nd Year)

**Trial N X G - Medium - Z-II**

N X G Trial : Medium Z - II

Year (Season): 2012-Kharif

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70	Z-2	DMR 1031
2	BIO 151	Bio seed Research India Pvt. Ltd.	70	Z-2	DMR 1032
3	BIO-688	Bio seed Research India Pvt. Ltd.	70	Z-2	DMR 1033
4	Bisco 2668	Bisco Bio-Sciences Pvt.Ltd.	70	Z-2	DMR 1034
5	CMH08-292	TNAU Coimbatore-641003	70	Z-2	DMR 1035
6	CMH08-350	TNAU Coimbatore-641003	70	Z-2	DMR 1036
7	P3396	Phi Seeds Ltd.	70	Z-2	DMR 1037
8	S6217	Syngenta India Limited	70	Z-2	DMR 1038
9	S6304	Syngenta India Limited	70	Z-2	DMR 1039
10	X35A174	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-2	DMR 1040
11	YUVRAJ GOLD	Bio seed Research India Pvt. Ltd.	70	Z-2	DMR 1041
12	BIO 9637 (C )	Bio seed research company	70	Z-2	DMR 1042
13	PMH 4 (C )	PAU,Ludhiana	70	Z-2	DMR 1043

Medium Maturity (AET 2nd Year)

**Trial N X G - Medium - Z-III**

N X G Trial : Medium Z - III

Year (Season): 2012-Kharif

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70	Z-3	DMR 1051
2	BH41009	Angrau MRC, ARI, Hyderabad 500030	70	Z-3	DMR 1052
3	BIO 151	Bio seed Research India Pvt. Ltd.	70	Z-3	DMR 1053
4	Bisco 2668	Bisco Bio-Sciences Pvt.Ltd.	70	Z-3	DMR 1054
5	CMH08-292	TNAU Coimbatore-641003	70	Z-3	DMR 1055
6	CMH08-350	TNAU Coimbatore-641003	70	Z-3	DMR 1056
7	KNMH401061	ARS, Karimmagar.	70	Z-3	DMR 1057
8	NMH-1242	Nuziveedu Seeds Pvt. Ltd	70	Z-3	DMR 1058
9	P3396	Phi Seeds Ltd.	70	Z-3	DMR 1059
10	S6217	Syngenta India Limited	70	Z-3	DMR 1060
11	S6304	Syngenta India Limited	70	Z-3	DMR 1061
12	TITAN	Bisco Bio-Sciences Pvt.Ltd.	70	Z-3	DMR 1062
13	VMH 4106	Vibha seeds pvt ltd	70	Z-3	DMR 1063
14	X35A173	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-3	DMR 1064
15	YUVRAJ GOLD	Bisco Bio-Sciences Pvt.Ltd.	70	Z-3	DMR 1065
16	BIO 9637 (C )	Bio seed research company	70	Z-3	DMR 1066
17	PMH 4 (C )	PAU,Ludhiana	70	Z-3	DMR 1067

Medium Maturity (AET 2nd Year)

**Trial N X G - Medium - Z- IV**

N X G Trial : Medium Z - IV

Year (Season): 2012-Kharif

Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi, Vagarai

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70	Z-4	DMR 1071
2	BIO 151	Bio seed Research India Pvt. Ltd.	70	Z-4	DMR 1072
3	CMH08-292	(TNAU) Coimbatore-641003	70	Z-4	DMR 1073
4	CMH08-433	(TNAU) Coimbatore-641003	70	Z-4	DMR 1074
5	NMH-1242	Nuziveedu Seeds Pvt. Ltd	70	Z-4	DMR 1075
6	S6217	Syngenta India Limited	70	Z-4	DMR 1076
7	S6304	Syngenta India Limited	70	Z-4	DMR 1077
8	X35A173	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-4	DMR 1078
9	X35A174	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-4	DMR 1079
10	YUVRAJ GOLD	Bisco Bio-Sciences Pvt.Ltd.	70	Z-4	DMR 1080
11	BIO 9637 (C )	Bio seed research company	70	Z-4	DMR 1081
12	PMH 4 (C )	PAU,Ludhiana	70	Z-4	DMR 1082

Medium Maturity (AET 2nd Year)

**Trial N X G - Medium - Z-V**

N X G Trial : Medium Z - V

Year (Season): 2012-Kharif

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

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	70	Z-5	DMR 1091
2	BH41009	ANGRAU MRC , ARI, Hyderabad 500030	70	Z-5	DMR 1092
3	BIO 151	Bio seed Research India Pvt. Ltd.	70	Z-5	DMR 1093
4	CMH08-292	(TNAU) Coimbatore-641003	70	Z-5	DMR 1094
5	CMH08-350	(TNAU) Coimbatore-641003	70	Z-5	DMR 1095
6	CMH08-433	(TNAU) Coimbatore-641003	70	Z-5	DMR 1096
7	EC-3161	MPUA&T, Udaypur-313001	70	Z-5	DMR 1097
8	NMH-1242	Nuziveedu Seeds Pvt. Ltd	70	Z-5	DMR 1098
9	PFMH-96 N 46	Pro Farm Seed India pvt. Ltd. AP-500014	70	Z-5	DMR 1099
10	S6217	Syngenta India Limited	70	Z-5	DMR 1100
11	X35A174	Xylem Seeds Pvt. Ltd Hyderabad 500082	70	Z-5	DMR 1101
12	YUVRAJ GOLD	Bisco Bio-Sciences Pvt.Ltd.	70	Z-5	DMR 1102
13	BIO 9637 (C )	Bio seed research company	70	Z-5	DMR 1103
14	PMH 4 (C )	PAU,Ludhiana	70	Z-5	DMR 1104

**Trial N X G - Early - Z-I**

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

Year (Season): 2012-Kharif

Locations: Almora, Bajaura, Kangra

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	FH 3513	VPKAS,Almora	71	Z-1	DMR 1111
2	HKH-317	HAU,Uchaini	71	Z-1	DMR 1112
3	SUN VAAMAN	Suncrops Science Pvt.	71	Z-1	DMR 1113
4	Prakash ( C )	PAU,Ludhiana	71	Z-1	DMR 1114
5	JH 3459( C )	PAU,Ludhiana	71	Z-1	DMR 1115

**Trial N X G - Early -Z-II**

N X G Trial : Early Z - II Early Maturity (AET 2nd Year)

Year (Season): 2012-Kharif

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	31Y45	Phi Seeds Ltd.	71	Z-2	DMR 1121
2	X8F984	Pioneer Overseas	71	Z-2	DMR 1122
3	KDMH 755	Krishidhan Seeds Pvt. Ltd.	71	Z-2	DMR 1123
4	Prakash ( C )	PAU,Ludhiana	71	Z-2	DMR 1124
5	JH 3459( C )	PAU,Ludhiana	71	Z-2	DMR 1125

**Trial N X G - Early -Z-III**

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

Year (Season): 2012-Kharif

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>Zone</b>	<b>DMR Code</b>
1	31Y45	Phi Seeds Ltd.	71	Z-3	DMR 1131
2	REH 2009-12	CSAU&T,Kanpur	71	Z-3	DMR 1132
3	Prakash ( C )	PAU,Ludhiana	71	Z-3	DMR 1133
4	JH 3459( C )	PAU,Ludhiana	71	Z-3	DMR 1134

**Trial N X G - Early - Z-IV**

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

Year (Season): 2012-Kharif

Locations: Hyderabad, Karimnagar, Kolhapur, Arbhavi, Vagarai

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	SUN VAAMAN	Suncrops Science Pvt.	71	Z-4	DMR 1141
2	FH 3513	VPKAS,Almora	71	Z-4	DMR 1142
3	Prakash ( C )	PAU,Ludhiana	71	Z-4	DMR 1143
4	JH 3459( C )	PAU,Ludhiana	71	Z-4	DMR 1144

**Trial N X G - Early -Z-V**

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

Year (Season): 2012-Kharif

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

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	FH 3513	VPKAS,Almora	71	Z-5	DMR 1151
2	REH 2009-12	CSAU&T,Kanpur	71	Z-5	DMR 1152
3	31Y45	Phi Seeds Ltd.	71	Z-5	DMR 1153
4	Prakash ( C )	PAU,Ludhiana	71	Z-5	DMR 1154
5	JH 3459( C )	PAU,Ludhiana	71	Z-5	DMR 1155

Extra Early Maturity (AET 2nd Year)

**Trial N X G - Extra Early - Z-I**

N X G Trial : Extra Early Z - I

Year (Season): 2012-Kharif

Locations: Almora, Bajaura, Kangra

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	FH 3525	VPKAS,Almora	72	Z-1	DMR 1211
2	KH-9888	Kanchan Ganga Seeds Compny Pvt Ltd.	72	Z-1	DMR 1212
3	FH 3510	VPKAS,Almora	72	Z-1	DMR 1213
4	Vivek Hybrid 9 ( C )	VPKAS,Almora	72	Z-1	DMR 1214
5	Vivek QPM 9 ( C )	VPKAS,Almora	72	Z-1	DMR 1215

**Trial N X G - Extra Early -Z-III**

N X G Trial : Extra Early Z - III

Year (Season): 2012-Kharif

Locations: Gossaigoan (Jorhat), Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich

E. No.	Name	Origin	Trial no.	Zone	DMR Code
1	KH-9888	Kanchan Ganga Seeds Compny Pvt Ltd.	72	Z-3	DMR 1231
2	FH 3525	VPKAS,Almora	72	Z-3	DMR 1232
3	FH 3510	VPKAS,Almora	72	Z-3	DMR 1233
4	Vivek Hybrid 9 ( C )	Almora	72	Z-3	DMR 1234
5	Vivek QPM 9 ( C )	Almora	72	Z-3	DMR 1235

**AET I and AET II Trials of Pathology, Entomology, Nematology and Soil Science****TRIAL 78 Extra Early**

Trial No. : 78 Pathology, Entomology Trial - Extra Early  
 Year (Season): 2012-Kharif  
 Replication : 2  
 Row No. : 2  
 Row Length: 4 mts.

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
<b>AET I</b>				
1	DH-230	GBBPUA&T, Pantnagar	78	PE 801
2	FH 3554	VPKAS, Almora	78	PE 802
3	FH 3555	VPKAS, Almora	78	PE 803
4	FH 3556	VPKAS, Almora	78	PE 804
5	FH 3558	VPKAS, Almora	78	PE 805
6	K 75	VPKAS, Almora	78	PE 806
<b>AET II</b>				
7	FH 3510	VPKAS, Almora	78	PE 807
8	FH 3525	VPKAS, Almora	78	PE 808
9	Vivek Hybrid 9(Filler)	VPKAS, Almora	78	PE 809
<b>Check</b>				
10	Vivek Hybrid 9(C)	VPKAS, Almora	78	PE 810
11	Vivek QPM 9(C)	VPKAS, Almora	78	PE 811

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

Date of Dispatch: 17.06.2012



**TRIAL 77 Early**

Trial No. : 77 Pathology, Entomology Trial - Early Early Maturity  
 Year (Season): 2012-Kharif  
 Replication : 2  
 Row No. : 2  
 Row Length: 4 mts.

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
<b>AET I</b>				
1	JH 31485	PAU,Ludhiana	<b>77</b>	PE 701
2	DAS-MH-501	Dow AgroSciences India Pvt. Ltd Mumbai-400071	<b>77</b>	PE 702
3	Bisco 2238	BISCO BIO-Sciences Pvt.Ltd.	<b>77</b>	PE 703
4	K 21	Kanchan Ganga Seeds Compny Pvt Ltd.	<b>77</b>	PE 704
5	FH 3548	VPKAS,Almora	<b>77</b>	PE 705
6	CMH10-525	TNAU Coimbatore-641003	<b>77</b>	PE 706
<b>AET II</b>				
7	31Y45	Phi Seeds Ltd.	<b>77</b>	PE 707
8	FH 3513	VPKAS,Almora	<b>77</b>	PE 708
9	HKH-317	HAU,Karnal	<b>77</b>	PE 709
10	KDMH 755	Krishidhan Seeds Pvt. Ltd.	<b>77</b>	PE 710
11	REH 2009-12	CSAUA&T, Kanpur-208002.	<b>77</b>	PE 711
12	SUN VAAMAN	Suncrops Science Pvt.	<b>77</b>	PE 712
13	JH 3459(Filler)	PAU,Ludhiana	<b>77</b>	PE 713
<b>Checks</b>				
14	Prakash(C)	PAU,Ludhiana	<b>77</b>	PE 714
15	JH 3459(C)	PAU,Ludhiana	<b>77</b>	PE 715

Pathology: Bajaura, Dhaula 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

Date of Dispatch: 17.06.2012

**TRIAL 76 Medium**

Trial No. : 76 Pathology, Entomology Trial - Medium Medium Maturity  
 Year (Season): 2012-Kharif  
 Replication : 2  
 Row No. : 2  
 Row Length: 4 mts.

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
<b>AET I</b>				
1	B 53	Kanchan Ganga Seeds Compny Pvt Ltd.	76	PE 601
2	EHL161708 (Hyb)	CSK HPKV HAREC Bajaura Kullu (HP)-175 125	76	PE 602
3	JH 31470	PAU,Ludhiana	76	PE 603
4	JH 31522	PAU,Ludhiana	76	PE 604
5	MCH 47	Monsanto ltd	76	PE 605
6	PRO-383	Bayer science pvt ltd.	76	PE 606
7	X35A189	Phi Seeds Ltd.	76	PE 607
8	X35A194	Phi Seeds Ltd.	76	PE 608
<b>AET II</b>				
9	B 63	Kanchan Ganga Seeds Compny Pvt Ltd.	76	PE 609
10	BH41009	Angrau-MRC, ARI, Hyderabad 500030	76	PE 610
11	BIO 151	Bio seed research company	76	PE 611
12	BIO-688	Bio seed research company	76	PE 612
13	Bisco 2668	Bisco Bio-Sciences Pvt.Ltd.	76	PE 613
14	CMH08-292	(TNAU) Coimbatore-641003	76	PE 614
15	CMH08-350	(TNAU) Coimbatore-641003	76	PE 615
16	CMH08-433	(TNAU) Coimbatore-641003	76	PE 616
17	EC-3161	MPUA&T, Udaypur-313001	76	PE 617
18	IMH-666	Bisco Bio-Sciences Pvt.Ltd.	76	PE 618
19	JH 31404	PAU,Ludhiana	76	PE 619
20	JKMH-7004	JK Agri Genetics Ltd	76	PE 620
21	KDMH 176	Krishidhan Seeds Pvt. Ltd.	76	PE 621
22	KNMH401061	Angrau, Karimnagar	76	PE 622
23	NMH-1242	Nuziveedu Seeds Pvt. Ltd.,Hyderabad	76	PE 623
24	P3396	Phi Seeds Ltd.	76	PE 624

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
25	PFMH-96 I 41	Pro Farm Seed India pvt. Ltd. AP-500014	76	PE 625
26	PFMH-96 N 46	Pro Farm Seed India pvt. Ltd. AP-500014	76	PE 626
27	S6217	Syngenta India Ltd	76	PE 627
28	S6304	Syngenta India Ltd	76	PE 628
29	TITAN	Bisco Bio-Sciences Pvt.Ltd.	76	PE 629
30	VMH 4106	Vibha seeds pvt ltd	76	PE 630
31	X35A173	Xylem Seeds Pvt. Ltd Hyderabad 500082	76	PE 631
32	X35A174	Xylem Seeds Pvt. Ltd Hyderabad 500082	76	PE 632
33	YUVRAJ GOLD	Bisco Bio-Sciences Pvt.Ltd.	76	PE 633
<b>Checks</b>				
34	BIO 9637(C)	Bio seed research company	76	PE 634
35	Bio 9637 (Filler)	Bio seed research company	76	PE 635
36	Bio 9681 (Filler)	Bio seed research company	76	PE 636
37	Bio 9637 (Filler)	Bio seed research company	76	PE 637
38	PMH 4(C)	PAU,Ludhiana	76	PE 638

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

Date of Dispatch: 17.06.2012

### TRIAL 75 Late

Trial No. : 75 Pathology, Entomology Trial - Late Late Maturity

Year (Season): 2012-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
<b>AET I</b>				
1	B - 161	Kanchan Ganga Seeds Compny Pvt Ltd.	75	DMR 501
2	B - 54	Kanchan Ganga Seeds Compny Pvt Ltd.	75	DMR 502
3	Bisco 2324 Plus	Bisco Bio-Sciences Pvt.Ltd.	75	DMR 503
4	CMH08-381	TNAU, Coimbatore-641003	75	DMR 504

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
5	CMH08-381(G)	TNAU, Coimbatore-641004	75	DMR 505
6	CMH09-464	TNAU, Coimbatore-641005	75	DMR 506
7	CMH10-500	TNAU, Coimbatore-641006	75	DMR 507
8	CP 333	Charoenpokphand seeds pvt ltd.,Bangalore	75	DMR 508
9	DAS-MH-102	Dow AgroSciences India Pvt. Ltd. ,Chembur,Mumbai- 400071	75	DMR 509
10	DMH 7705	Metahelix life science	75	DMR 510
11	GK 3102	Ganag Kaveri, Seed pvt It.	75	DMR 511
12	GK 3103	Ganag Kaveri, Seed pvt It.	75	DMR 512
13	HTMH 5106	Hytech Seed Ltd.	75	DMR 513
14	HTMH 5402	Hytech Seed Ltd.	75	DMR 514
15	Laxmi333 (L333)	Yaaganti Seed Pvt Lt.	75	DMR 515
16	MCH 45	Monsanto	75	DMR 516
17	MCH 46	Monsanto	75	DMR 517
18	NMH-1247	Nuziveedu Seeds Pvt. Ltd	75	DMR 518
19	Orbit	Laxmi Seeds pvt ltd	75	DMR 519
20	SeedTech2324 (Filler)	Bisco Bio-Sciences Pvt.Ltd.	75	DMR 520
21	P4546	Pioneer Overseas Corporation	75	DMR 521
22	PFMH-97 I 57 (AMAR)	Pro Farm Seed India pvt. Ltd.	75	DMR 522
23	PRO-384	Bayer Bioscience Pvt. Ltd.	75	DMR 523
24	PRO-385	Bayer Bioscience Pvt. Ltd.	75	DMR 524
25	S6668	Syngenta India Ltd	75	DMR 525
26	X35A180	Phi Seeds Ltd.	75	DMR 526
27	X35A187	Phi Seeds Ltd.	75	DMR 527
<b>AET II</b>				
28	A 7501	Advanta seeds	75	DMR 528
29	BIO-562	Bio seed research company	75	DMR 529
30	Bisco New 704	Bisco Bio-Sciences Pvt.Ltd.	75	DMR 530
31	CMH08-287	(TNAU) Coimbatore-641003	75	DMR 531
32	Orbit (Filler)	Laxmi Seeds pvt ltd	75	DMR 532
33	M 9977	Metahelix Life Sciences Ltd.	75	DMR 533

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>Trial no.</b>	<b>DMR Code</b>
34	NMH-713	Nuziveedu Seeds Pvt. Ltd.,Hyderabad	75	DMR 534
35	X35A176	Xylem Seeds Pvt. Ltd Hyderabad 500082	75	DMR 535
<b>Checks</b>				
36	Bio 9681 ( C )	Bio seed research company	75	DMR 536
37	Seed Tech 2324 (Filler)	Bisco Bio-Sciences Pvt.Ltd.	75	DMR 537
38	PMH 1 ( C )	PAU,Ludhiana	75	DMR 538
39	PMH 3 ( C )	PAU,Ludhiana	75	DMR 539
40	SeedTech 2324(C)	Bisco Bio-Sciences Pvt.Ltd.	75	DMR 540

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

Date of Dispatch: 17.06.2012

**Trial. Late Maturity**

Trial No. : Late Pathology, Nematology and Soil Science Trial - Late

Year (Season): 2012-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

Date of Dispatch: 07.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
1	Cyrus-G	Pravardhan seeds pvt.ltd.	DMR 101
2	AMH-477	Asian Agri Genetics, Ltd.	DMR 102
3	Bisco X 4296	Seedtec Bisco Bio Sciences (P) Ltd.	DMR 103
4	DADA	Yaaganti Seed Pvt Lt.	DMR 104
5	FMH-1073	Foliage Crop Solutions Pvt Ltd.	DMR 105
6	FMH-1085	Foliage Crop Solutions Pvt Ltd.	DMR 106
7	FMH-11195	Foliage Crop Solutions Pvt Ltd.	DMR 107
8	FMH-621	Fortune Hybrid seeds Ltd.	DMR 108
9	FMH-9184	Foliage Crop Solutions Pvt Ltd.	DMR 109
10	FMH-9190	Foliage Crop Solutions Pvt Ltd.	DMR 110
11	FMH-938	Foliage Crop Solutions Pvt Ltd.	DMR 111
12	FMH-951	Foliage Crop Solutions Pvt Ltd.	DMR 112
13	GH-0945	ARS Arabhavi-591 310 Karnataka	DMR 113
14	GK 3059 GOLD	Ganag Kaveri, Seed pvt It.	DMR 114
15	GK 3100	Ganag Kaveri, Seed pvt It.	DMR 115
16	HTMH 5403	Hytech Seed Ltd.	DMR 116
17	IJ8527	Monsanto India Ltd.	DMR 117
18	JKMH 4545	JK AGRI GENETICS LTD.	DMR 118
19	KDMH 4086	Krishidhan Seeds Pvt. Ltd.	DMR 119
20	KH - 7579	Kanchan Ganga Seeds Compny Pvt Ltd.	DMR 120
21	KH - K25 Gold	Kanchan Ganga Seeds Compny Pvt Ltd.	DMR 121
22	KMH-510	Kaveri Seed Company Ltd.	DMR 122
23	NMH 1008	Nath Bio- Genes (I) Ltd.	DMR 123
24	NMH-1265	Nuziveedu Seeds Pvt. Ltd	DMR 124
25	NMH-3493	Nimal Seeds Pvt. Ltd.	DMR 125
26	PMH-189	Pravardhan seeds pvt.ltd.	DMR 126
27	PMH-2277	prabhat Agri Biotech Ltd.	DMR 127

E. No.	Name	Origin	DMR Code
28	Rasi-863	Rasi Seeds (P) Ltd.	DMR 128
29	Rasi-932	Rasi Seeds (P) Ltd.	DMR 129
30	RMH 02	UAS Raichur. College of Agriculture, Bheemarayanagudi	DMR 130
31	Ryder-M	prabhat Agri Biotech Ltd.	DMR 131
32	Venus	Prabhat Agri Biotech Ltd.	DMR 132
33	CP 802	Charoen pokphand, Karnataka	DMR 133
34	CMH 10-552	TNAU Coimbatore-641003	DMR 134
35	LTH-20	Yaaganti Seed Pvt Lt.	DMR 135
36	LTH-22	Yaaganti Seed Pvt Lt.	DMR 136
37	CMH 10-558	TNAU Coimbatore-641003	DMR 137
38	REH-2011-05	CSAU & T,Kanpur	DMR 138
39	X35B396	Pioneer seeds	DMR 139
40	AH 1211	IARI,New Delhi	DMR 140
41	JH 31555	PAU,Ludhiana	DMR 141
42	JH 31601	PAU,Ludhiana	DMR 142
43	DAS MH-103	Dow AgroSciences India Pvt. Ltd. Chembur,Mumbai- 400071	DMR 143
44	X35B392	Pioneer seeds	DMR 144
45	CMH 10-477	TNAU Coimbatore-641003	DMR 145
46	CMH 10-546	TNAU Coimbatore-641003	DMR 146
47	CMH 10-540	TNAU Coimbatore-641003	DMR 147
48	REH-2011-06	CSAU & T,Kanpur	DMR 148
49	PRO-388	<b>Bayer Bioscience Pvt. Ltd.</b>	DMR 149
50	X35B391	Pioneer seeds	DMR 150
51	VNR-39029	VNR Seeds Pvt. Ltd.	DMR 151
52	A-7503	Advanta India Ltd	DMR 152
53	VMH-4174	Nusun Genetic Research Ltd. Hyderabad.	DMR 153
54	VMH-4185	Nusun Genetic Research Ltd. Hyderabad.	DMR 154
55	Euri 10	BBNL	DMR 155
56	X35B390	Pioneer seeds	DMR 156
57	VNR-4226	VNR Seeds Pvt. Ltd.	DMR 157
58	PMH 1 ( C )	PAU,Ludhiana	DMR 158
59	PMH 3 ( C )	PAU,Ludhiana	DMR 159
60	Seed Tech 2324 ( C )	Bisco Seed tec. Company	DMR 160
61	Bio 9681 ( C )	Bio seed research company	DMR 161
62	HM 11 ( C )	Karnal	DMR 162

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
63	GH-0928	ARS Arabhavi-591 310 Karnataka	DMR 163

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
64	DHM 117	ANGRAU, Hyderabad	DMR 164
65	X35A178	Phi Seeds Ltd.	DMR 165
66	X35A182	Phi Seeds Ltd.	DMR 166
67	X35A188	Phi Seeds Ltd.	DMR 167
68	X8B680	Xylem Seeds Pvt. Ltd.	DMR 168
69	P3303	Pioneer seeds	DMR 169

### **Trial. Medium Maturity**

Trial No. : Medium Pathology, Nematology and Soil Science Trial - Medium  
 Year (Season): 2012-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

Date of Dispatch: 07.06.2012

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
1	Meghan-G	Pravardhan seeds pvt.ltd.	DMR 201
2	FMH-603	Fortune Hybrid seeds Ltd.	DMR 202
3	Rasi-3033	Rasi Seeds (P) Ltd.	DMR 203
4	Rasi-588	Rasi Seeds (P) Ltd.	DMR 204
5	AMH-455	Asian Agri Genetics, Ltd	DMR 205
6	NMH-1281	Nuziveedu Seeds Pvt. Ltd	DMR 206
7	NMH-1276	Nuziveedu Seeds Pvt. Ltd	DMR 207
8	Bisco X 2711	Seedtec Bisco Bio Sciences (P) Ltd.	DMR 208
9	NMH 1588	Nath Bio- Genes (I) Ltd.	DMR 209
10	TI8334	Monsanto India Ltd.	DMR 210
11	IJ8533	Monsanto India Ltd.	DMR 211
12	DKC9108	Monsanto India Ltd.	DMR 212
13	VAMH 08014	TNAU MRS, Vagarai-624 613 Palani Taluk	DMR 213
14	JKMH 4511	JK Agri Genetics Ltd.	DMR 214
15	S6850	Syngenta India Limited	DMR 215
16	S6790	Syngenta India Limited	DMR 216
17	BH-411036	ANGRAU-MRS, Rajendranagar, Hyderabad	DMR 217
18	KH - 7647	Kanchan Ganga Seeds Compny Pvt Ltd.	DMR 218



<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
19	KMH-25K45	Kaveri Seed Company Ltd.	DMR 219
20	KMH-7148	Kaveri Seed Company Ltd.	DMR 220
21	KMH-3110	Kaveri Seed Company Ltd.	DMR 221
22	KMH-6681	Kaveri Seed Company Ltd.	DMR 222
23	QMH-2966	AICRP on Maize ARS Kolhapur-12	DMR 223
24	EHL 111	CSK HPKV HAREC Bajaura Kullu (HP)	DMR 224
25	EHL 2211	CSK HPKV HAREC Bajaura Kullu (HP)	DMR 225
26	EHL 2311	CSK HPKV HAREC Bajaura Kullu (HP)	DMR 226
27	NMH-1277	Nuziveedu Seeds Pvt. Ltd	DMR 227
28	DAS MH-302	Dow AgroSciences India Pvt. Ltd. Chembur,Mum	DMR 228
29	PRO 387	Bayer Bioscience Pvt. Ltd.	DMR 229
30	BIO 719	Bio seed Research India Pvt. Ltd.	DMR 230
31	DAS MH-303	Dow AgroSciences India Pvt. Ltd. Chembur, Mumbai- 400071	DMR 231
32	X35B403	Xylem Seeds Pvt. Ltd.	DMR 232
33	CMH 10-529	TNAU Coimbatore-641003	DMR 233
34	BAUMH-2011-04	BAU Ranchi Centre	DMR 234
35	BAUMH-2011-13	BAU Ranchi Centre	DMR 235
36	LTH-21	Yaaganti Seed Pvt Lt.	DMR 236
37	CMH 10-473	TNAU Coimbatore-641003	DMR 237
38	X35B410	Pioneer seeds ltd	DMR 238
39	REH 2011-03	CSAU & T,Kanpur	DMR 239
40	EC-3164	MPU A & T, Udaipur-313001	DMR 240
41	CMH 10-485	TNAU Coimbatore-641003	DMR 241
42	DH-12-01	UAS, Dharwad	DMR 242
43	CMH 10-486	TNAU Coimbatore-641003	DMR 243
44	REH 2011-4	CSAU & T,Kanpur	DMR 244
45	AH 1209	IARI,New Delhi	DMR 245
46	AH 1210	IARI,New Delhi	DMR 246
47	JH 31583	PAU,Ludhiana	DMR 247
48	JH 31598	PAU,Ludhiana	DMR 248
49	JH 31599	PAU,Ludhiana	DMR 249
50	HKH 334	HAU,Karnal	DMR 250
51	HKH 335	HAU,Karnal	DMR 251
52	HKH 336	HAU,Karnal	DMR 252
53	Bio 9637 (Filler )		DMR 253
54	HM-4 (Filler)		DMR 254

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
55	HKH 420 (Filler)	HAU, Karnal	DMR 255
56	MMH 12-4	T.C.A. Dholi.	DMR 256
57	MMH 12-5	T.C.A. Dholi.	DMR 257
58	MMH 12-6	T.C.A. Dholi.	DMR 258
59	MMH 12-7	T.C.A. Dholi.	DMR 259
60	MMH 12-8	T.C.A. Dholi.	DMR 260
61	VARANASI H12-1	BHU, Varanasi	DMR 261
62	DHM 117	ANGRAU-MRC, Rajendranagar, Hyderabad	DMR 262
63	QMH-2910	AICRP on Maize, ZARS, Kolhapur-12	DMR 263
64	BH-411001	ANGRAU-MRC, Rajendranagar, Hyderabad	DMR 264
65	Safal X-260	Safal Seeds & Biotech Ltd Hyderabad	DMR 265
66	KNMH 4201	ARS, Karimmagar.	DMR 266
67	KNMH 4202	ARS, Karimmagar.	DMR 267
68	KNMH 4203	ARS, Karimmagar.	DMR 268
69	KNMH 4204	ARS, Karimmagar.	DMR 269
70	KNMH 4205	ARS, Karimmagar.	DMR 270
71	BIO 9637 (C )	Bio seed	DMR 271
72	HM 8 (C )	HAU, Karnal	DMR 272
73	HM 9 (C )	HAU, Karnal	DMR 273
74	HM 10 (C )	HAU, Karnal	DMR 274
75	PMH 4 (C )	PAU	DMR 275

### **Trial. Early Maturity**

Trial No. : Early Pathology, Nematology and Soil Science Trial - Early

Year (Season): 2012-Kharif

Replication : 2

Row No. : 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

Date of Dispatch: 07.06.2012

<b>E.No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
1	GAWMH-2	ACRIP on Maize, AAU, Godhra	DMR 301
2	GYH-9842	ACRIP on Maize, AAU, Godhra	DMR 302
3	KMH-7021	Kaveri Seed Company Ltd.	DMR 303
4	FH 3605	VPKAS, Almora	DMR 304
5	FH 3609	VPKAS, Almora	DMR 305

E. No.	Name	Origin	DMR Code
6	FH 3626	VPKAS,Almora	DMR 306
7	EH-2223	MPU A & T, Udaipur-313001	DMR 307
8	EH-2212	MPU A & T, Udaipur-313002	DMR 308
9	REH 2011-1	CSAU & T,Kanpur	DMR 309
10	Filler-13		DMR 310
11	CMH-10-537	TNAU Coimbatore-641003	DMR 311
12	CMH-10-484	TNAU Coimbatore-641003	DMR 312
13	REH 2011-2	CSAU & T,Kanpur	DMR 313
14	CMH-10-527	TNAU Coimbatore-641003	DMR 314
15	CMH-10-531	TNAU Coimbatore-641003	DMR 315
16	Filler-12		DMR 316
17	BAUMH-2011-07	BAU Ranchi Centre	DMR 317
18	BAUMH-2011-05	BAU Ranchi Centre	DMR 318
19	BIO 6008	Bio seed Research India Pvt. Ltd.	DMR 319
20	AH -1205	IARI, New Delhi	DMR 320
21	AH -1206	IARI, New Delhi	DMR 321
22	AH -1207	IARI, New Delhi	DMR 322
23	AH -1208	IARI, New Delhi	DMR 323
24	JH 31602	PAU,Ludhiana	DMR 324
25	JH 31603	PAU,Ludhiana	DMR 325
26	PRAKASH(Filler)		DMR 326
27	JH 3459 (Filler)		DMR 327
28	HKH 333	HAU, Karnal	DMR 328
29	HKH 331	HAU, Karnal	DMR 329
30	HKH 332	HAU, Karnal	DMR 330
31	JH-3459 (C)	PAU, Ludhiana	DMR 331
32	Prakash (C)	PAU, Ludhiana	DMR 332

### Trial. Extra Early Maturity

Trial No. : Extra Early Pathology, Nematology and Soil Science Trial - Extra Early

Year (Season): 2012-Kharif

Replication : 2

Row No. : 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

Date of Dispatch: 07.06.2012

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
1	FH 3583	VPKAS,Almora	DMR 401
2	FH 3594	VPKAS, Almora	DMR 402
3	FQH 93	VPKAS, Almora	DMR 403
4	DH-238	GBBPUA&T, Pantnagar	DMR 404
5	DH-241	GBBPUA&T, Pantnagar	DMR 405
6	DH-242	GBBPUA&T, Pantnagar	DMR 406
7	DH-244	GBBPUA&T, Pantnagar	DMR 407
8	DH-248	GBBPUA&T, Pantnagar	DMR 408
9	DH-262	GBBPUA&T, Pantnagar	DMR 409
10	DH-263	GBBPUA&T, Pantnagar	DMR 410
11	REH 2011-7	CSAU & T, Kanpur	DMR 411
12	REH 2011-8	CSAU & T, Kanpur	DMR 412
13	AH 1201	IARI, New Delhi	DMR 413
14	AH 1202	IARI, New Delhi	DMR 414
15	AH 1203	IARI, New Delhi	DMR 415
16	AH 1204	IARI, New Delhi	DMR 416
17	Vivek QPM 9 (C)	VPKAS, Almora	DMR 417
18	Vivek Hybrid 9 (C)	VPKAS, Almora	DMR 418

**Pathology Trial: Specialty Corn**

Pathology Trial No. : Specialty Corn

Year (Season): 2012-Kharif

Replication : 2

Row No. : 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

Date of Dispatch: 07.06.2012

**QPM 1-2**

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
1	UQMH-4	AICRIP, Bhubaneswar	PE 901
2	UQMH-5	AICRIP, Bhubaneswar	PE 902
3	HQPM-1(FILLER)	HAU, Karnal	PE 903
4	HQPM-2( FILLER)	HAU, Karnal	PE 904
5	VEHQ-3020	BHU, varanasi	PE 905
6	MHQPM-09-7	T.C.A. Dholi.	PE 906
7	MHQPM-09-6	T.C.A. Dholi.	PE 907
8	MHQPM-09-8	T.C.A. Dholi.	PE 908
9	HQPM-1(FILLER)	T.C.A. Dholi.	PE 909
10	HQPM-1( FILLER)	HAU, Karnal	PE 910
11	EHQ-16	RCA, Udaipur-313001	PE 911
12	HQPM-7( FILLER)	HAU, Karnal	PE 912
13	HQPM-5(FILLER)	HAU, Karnal	PE 913
14	HQPM-1(C)	HAU, Karnal	PE 914
15	HQPM-5 (C)	HAU, Karnal	PE 915
16	HQPM-7 (C)	HAU, Karnal	PE 916
17	HQPM-4 (C)	HAU, Karnal	PE 917
<b>Popcorn</b>			
18	VL Popcorn 2	VPKAS, Almora	PE 918
19	Amberpopcorn (FILLER)	VPKAS, Almora	PE 919
20	Bajaura Popcorn	CSKHPKV, Bajaura	PE 920
21	Amberpopcor (C)	VPKAS, Almora	PE 921

<b>E. No.</b>	<b>Name</b>	<b>Origin</b>	<b>DMR Code</b>
<b>Sweet Corn</b>			
22	FSCH-17	VPKAS,Almora	PE 922
23	FSCH-18	VPKAS,Almora	PE 923
24	KSCH-222 (Filler)		PE 924
25	BHCH 63	ANGRAU-MRC, ARI, Rajendranagar, Hyderabad 500030	PE 925
26	KSCH 222	Kaveri Seed Company Ltd.	PE 926
27	BISCO MADHU	Bisco Seeds	PE 927
28	Bajaura sweetcorn (FILLER)	CSKHPKV, Bajaura	PE 928
29	Bajaura sweetcorn	CSKHPKV, Bajaura	PE 929
30	KSCH 333	Kaveri Seed Company Ltd.	PE 930
31	NSCH 12	Nuziveedu Seeds Pvt. Ltd. RangaRaddy- 501401	PE 931
32	WOSC (C)	DMR, Hyderabad	PE 932
<b>Baby Corn</b>			
33	Almora hybrid	VPKAS,Almora	PE 933
34	HM4 (C)	HAU, Karnal	PE 934
35	Prakash (F)	PAU Ludhiana	PE 935
36	HQPM 1(F)	HAU, Karnal	PE 936
37	DHM 117(F)	ANGRAU-MRC, ARI, Rajendranagar, Hyderabad 500030	PE 937
38	HM-4 (F)	PAU, Ludhiana	PE 938
39	PMH 4(F)	PAU, Ludhiana	PE 939

# BREEDING





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During Kharif 2012, as many as 275 hybrids including 18 specialty corns were evaluated in different agro-ecological conditions of the country. Of these 42 hybrids of normal maize completed three years of testing. Among these included seven late and early each, 25 medium and three extra-early maturing hybrids. Forty six comprising 26 late, eight medium and six each early and extra-early maturing hybrids completed two years of testing. Of 169 hybrids completing one year of testing, 59 belonged to late, 68 medium, 26 early and 16 extra-early maturity groups, respectively. Eighteen entries comprising seven QPM, eight sweet corn, two pop corn and one baby corn hybrids were evaluated for yield, quality and other traits at different locations of the country. Of these, four QPM and one sweet corn hybrids completed three years of testing while 13 hybrids including three QPM, seven sweet corn, two pop corn and one baby corn completed one year of testing. The details are given as under:

Key to maize hybrids (Kharif 2012)

S.N.	Entries Name	Code	Origin
Entries completed three years of testing in Late maturity			
ZONE-I			
1	Bisco New 704	DMR 911	Bisco Bio Sciences Pvt. Ltd.
ZONE-II			
1	CMH08-287	DMR 921	AICRP,Coimbatore-641003
2	NMH-713	DMR 922	Nuziveedu Seeds Pvt. Ltd.,Hyderabad
ZONE-III			
1	A 7501	DMR 931	Advanta India Ltd.
2	BIO-562	DMR 932	Shriram Bioseeds Genetics India Ltd.
3	CMH08-287	DMR 933	TNAU, Coimbatore-641003
4	M 9977	DMR 935	Metahelix Life Sciences Ltd.
5	X35A176	DMR 936	Xylem Seeds Pvt. Ltd.
ZONE-IV			
1	CMH08-287	DMR 947	TNAU, Coimbatore-641003
ZONE-V			
1	CMH08-287	DMR 951	TNAU, Coimbatore-641003
2	X35A176	DMR 953	Xylem Seeds Pvt. Ltd.
Entries completed three years of testing in Medium maturity			
ZONE-I			
1	JH 31404	DMR 1001	PAU, Ludhiana
2	BH41009	DMR 1002	Angrau,Hyderabad
3	BIO 151	DMR 1003	Bio seed Research India Pvt. Ltd.
4	BIO-688	DMR 1004	Bio seed Research India Pvt. Ltd.
5	Bisco 2668	DMR 1005	Bisco Bio-Sciences Pvt. Ltd
6	CMH08-350	DMR 1006	TNAU, Coimbatore-641003
7	IMH-666	DMR 1007	Atash seeds pvt ltd
8	B 63	DMR 1008	Kanchan Ganga Seeds Compny Pvt Ltd.
9	JKMH-7004	DMR 1009	JK Agri Genetics Ltd.
10	KDMH 176	DMR 1010	Krishidhan Pvt Ltd.
11	NMH-1242	DMR 1011	Nuziveedu Seeds Pvt. Ltd.,Hyderabad
12	P3396	DMR 1012	Phi Seeds Ltd.
13	PFMH-96 I 41	DMR 1013	Pro Farm Seed India pvt. Ltd.
14	PFMH-96 N 46	DMR 1014	Pro Farm Seed India pvt. Ltd.
15	S6217	DMR 1015	Syngenta India Ltd

## B2

S.N.	Entries Name	Code	Origin
16	S6304	DMR 1016	Syngenta India Ltd
17	TITAN	DMR 1017	Bisco Bio-Sciences Pvt. Ltd
18	X35A173	DMR 1018	Xylem Seeds Pvt. Ltd.
19	X35A174	DMR 1019	Xylem Seeds Pvt. Ltd.
20	YUVRAJ GOLD	DMR 1020	Bisco Bio-Sciences Pvt. Ltd
<b>ZONE-II</b>			
1	B 63	DMR 1031	Kanchan Ganga Seeds Compny Pvt Ltd.
2	BIO 151	DMR 1032	Bio seed Research India Pvt. Ltd.
3	BIO-688	DMR 1033	Bio seed Research India Pvt. Ltd.
4	Bisco 2668	DMR 1034	Bisco Bio-Sciences Pvt. Ltd
5	CMH08-292	DMR 1035	AICRP,Coimbatore-641003
6	CMH08-350	DMR 1036	AICRP,Coimbatore-641003
7	P3396	DMR 1037	Phi Seeds Ltd.
8	S6217	DMR 1038	Syngenta India Ltd
9	S6304	DMR 1039	Syngenta India Ltd
10	X35A174	DMR 1040	Xylem Seeds Pvt. Ltd.
11	YUVRAJ GOLD	DMR 1041	Bisco Bio-Sciences Pvt. Ltd
<b>ZONE-III</b>			
1	B 63	DMR 1051	Kanchan Ganga Seeds Compny Pvt Ltd.
2	BH41009	DMR 1052	Angrau,Hyderabad
3	BIO 151	DMR 1053	Bio seed Research India Pvt. Ltd.
4	Bisco 2668	DMR 1054	Bisco Bio-Sciences Pvt. Ltd
5	CMH08-292	DMR 1055	AICRP,Coimbatore-641003
6	CMH08-350	DMR 1056	AICRP,Coimbatore-641003
7	KNMH401061	DMR 1057	Angrau, Karimnagar
8	NMH-1242	DMR 1058	Nuziveedu Seeds Pvt. Ltd.,Hyderabad
9	P3396	DMR 1059	Phi Seeds Ltd.
10	S6217	DMR 1060	Syngenta India Ltd
11	S6304	DMR 1061	Syngenta India Ltd
12	TITAN	DMR 1062	Atash seeds pvt ltd
13	VMH 4106	DMR 1063	Vibha seeds pvt ltd
14	X35A173	DMR 1064	Xylem Seeds Pvt. Ltd.
15	YUVRAJ GOLD	DMR 1065	Bisco Bio Sciences (P) Ltd. Secunderabad-500003
<b>ZONE-IV</b>			
1	B 63	DMR 1071	Kanchan Ganga Seeds Compny Pvt Ltd.
2	BIO 151	DMR 1072	Bio seed Research India Pvt. Ltd.
3	CMH08-292	DMR 1073	TNAU, Coimbatore-641003
4	CMH08-433	DMR 1074	TNAU, Coimbatore-641004
5	NMH-1242	DMR 1075	Nuziveedu Seeds Pvt. Ltd.,Hyderabad
6	S6217	DMR 1076	Syngenta India Ltd
7	S6304	DMR 1077	Syngenta India Ltd
8	X35A173	DMR 1078	Xylem Seeds Pvt. Ltd.
9	X35A174	DMR 1079	Xylem Seeds Pvt. Ltd.
10	YUVRAJ GOLD	DMR 1080	Seedtec Bisco Bio Sciences (P) Ltd. Secunderabad-500003
<b>ZONE-V</b>			
1	B 63	DMR 1086	Kanchan Ganga Seeds Compny Pvt Ltd.
2	BH41009	DMR 1087	Angrau,Hyderabad
3	BIO 151	DMR 1088	Bio seed Research India Pvt. Ltd.



S.N.	Entries Name	Code	Origin
4	CMH08-292	DMR 1089	TNAU, Coimbatore-641003
5	CMH08-350	DMR 1090	TNAU, Coimbatore-641004
6	CMH08-433	DMR 1091	TNAU, Coimbatore-641005
7	EC-3161	DMR 1092	AICMIP RCA MPUAT Udaipur
8	NMH-1242	DMR 1093	Nuziveedu Seeds Pvt. Ltd.,Hyderabad
9	PFMH-96 N 46	DMR 1094	Pro Farm Seed India pvt. Ltd.
10	S6217	DMR 1095	Syngenta India Ltd
11	X35A174	DMR 1096	Xylem Seeds Pvt. Ltd.
12	YUVRAJ GOLD	DMR 1097	Atash seeds pvt ltd
<b>Entries completed three years of testing in Early maturity</b>			
ZONE-I			
1	FH 3513	DMR 1111	VPKAS,Almora
2	HKH-317	DMR 1112	HAU, Karnal
3	SUN VAAMAN	DMR 1113	Suncrop Science Pvt Ltd.
ZONE-II			
1	31Y45	DMR 1121	Phi Seeds Ltd.
2	X8F984	DMR 1122	Pioneer Oversease
3	KDMH 755	DMR 1123	Krishidhan Seeds Pvt Ltd.
ZONE-III			
1	31Y45	DMR 1131	Phi Seeds Ltd.
2	REH 2009-12	DMR 1132	CSAU A&T, Kanpur-208002.
ZONE-IV			
1	SUN VAAMAN	DMR 1141	Suncrop Science Pvt Ltd.
2	FH 3513	DMR 1142	VPKAS,Almora
ZONE-V			
1	FH 3513	DMR 1151	VPKAS,Almora
2	REH 2009-12	DMR 1152	CSAU A&T, Kanpur-208002.
3	31Y45	DMR 1153	Phi Seeds Ltd.
<b>Entries completed three years of testing in Extra Early maturity</b>			
ZONE-I			
1	FH 3525	DMR 1211	VPKAS,Almora
2	KH-9888	DMR 1212	Kanchan Ganga Seeds Compny Pvt Ltd.
3	FH 3510	DMR 1213	VPKAS,Almora
ZONE-III			
1	KH-9888	DMR 1231	Kanchan Ganga Seeds Compny Pvt Ltd.
2	FH 3525	DMR 1232	VPKAS,Almora
3	FH 3510	DMR 1233	VPKAS,Almora
<b>Entries completed two years of testing in Late maturity</b>			
1	X35A187	DMR 501	Phi Seeds Ltd.
2	X35A180	DMR 502	Phi Seeds Ltd.
3	S6668	DMR 503	Syngenta India Ltd.
4	PRO-385	DMR 504	Bayer Bioscience Pvt. Ltd.
5	PRO-384	DMR 505	Bayer Bioscience Pvt. Ltd.
6	PFMH-97 I 57 (AMAR)	DMR 506	Pro Farm Seed India pvt. Ltd.
7	P4546	DMR 507	Pioneer Overseas Corporation
8	Orbit	DMR 509	Yaaganti seed pvt. Ltd Hyderabad- 500034
9	NMH-1247	DMR 510	Nuziveedu Seeds Pvt. Ltd
10	MCH 46	DMR 511	Monsanto India Ltd.Branch

S.N.	Entries Name	Code	Origin
11	MCH 45	DMR 512	Monsanto India Ltd.Branch
12	Laxmi 333 (L 333)	DMR 513	Yaaganti seed pvt. Ltd Hyderabad- 500034
13	HTMH 5402	DMR 514	Hytech Seeds Ltd.
14	HTMH 5106	DMR 515	Hytech Seeds Ltd.
15	GK 3103	DMR 516	Ganag Kaveri, Seed pvt It.
16	GK 3102	DMR 517	Ganag Kaveri, Seed pvt It.
17	DMH 7705	DMR 518	Metahelix life science
18	DAS-MH-102	DMR 519	Dow AgroSciences India Pvt. Ltd. Mumbai-400071
19	CMH10-500	DMR 520	TNAU, Coimbatore-641003
20	CMH09-464	DMR 521	TNAU, Coimbatore-641004
21	CMH08-381(G)	DMR 522	TNAU, Coimbatore-641005
22	CMH08-381	DMR 523	TNAU, Coimbatore-641006
23	Bisco 2324 Plus	DMR 524	Seedtec Bisco Bio Sciences (P) Ltd.
24	B - 54	DMR 525	Kanchan Ganga Seeds Compny Pvt Ltd.
25	B - 161	DMR 526	Kanchan Ganga Seeds Compny Pvt Ltd.
26	CP 333	DMR 527	Charoenpokphand seeds pvt ltd.,Bangalore
<b>Entries completed two years of testing in Medium maturity</b>			
1	EHL 161708 (Hyb)	DMR 601	CSKHPKV, Palampur
2	X35A189	DMR 602	Phi Seeds Ltd.
3	B 53	DMR 603	Kanchan Ganga Seeds Compny Pvt Ltd.
4	X35A194	DMR 605	Phi Seeds Ltd.
5	MCH 47	DMR 606	Monsanto India Ltd. Bangalore 560092,
6	PRO-383	DMR 607	Bayer Bioscience Pvt. Ltd.
7	JH 31522	DMR 608	PAU, Ludhiana
8	JH 31470	DMR 609	PAU, Ludhiana
<b>Entries completed two years of testing in Early maturity</b>			
1	JH 31485	DMR 701	PAU, Ludhiana
2	DAS-MH-501	DMR 702	Dow AgroSciences India Pvt.
3	Bisco 2238	DMR 703	Bisco Bio-Sciences Pvt.Ltd.
4	K 21	DMR 704	Kanchan Ganga Seeds Compny Pvt Ltd.
5	FH 3548	DMR 705	VPKAS,Almora
6	CMH10-525	DMR 706	TNAU, Coimbatore-641003
<b>Entries completed two years of testing in Extra Early maturity</b>			
1	FH 3556	DMR 801	VPKAS,Almora
2	FH 3554	DMR 802	VPKAS,Almora
3	FH 3558	DMR 803	VPKAS,Almora
4	FH 3555	DMR 804	VPKAS,Almora
5	K 75	DMR 805	VPKAS,Almora
6	DH-230	DMR 806	GBPUAT,Pantnagar
<b>Entries completed one years of testing in Late maturity</b>			
1	Cyrus-G	DMR 101	Pravardhan seeds pvt.ltd.
2	AMH-477	DMR 102	Asian Agri Genetics, Ltd.
3	Bisco X 4296	DMR 103	Seedtec Bisco Bio Sciences (P) Ltd.
4	DADA	DMR 104	Yaaganti Seed Pvt Lt.
5	FMH-1073	DMR 105	Foliage Crop Solutions Pvt. Ltd.
6	FMH-1085	DMR 106	Foliage Crop Solutions Pvt. Ltd.
7	FMH-11195	DMR 107	Foliage Crop Solutions Pvt. Ltd.

S.N.	Entries Name	Code	Origin
8	FMH-621	DMR 108	Fortune Hybrid seeds Ltd.
9	FMH-9184	DMR 109	Foliage Crop Solutions Pvt. Ltd.
10	FMH-9190	DMR 110	Foliage Crop Solutions Pvt. Ltd.
11	FMH-938	DMR 111	Foliage Crop Solutions Pvt. Ltd.
12	FMH-951	DMR 112	Foliage Crop Solutions Pvt. Ltd.
13	GH-0945	DMR 113	ARS, Arbhavi, Karnatka
14	GK 3059 GOLD	DMR 114	Ganag Kaveri, Seed pvt It.
15	GK 3100	DMR 115	Ganag Kaveri, Seed pvt It.
16	HTMH 5403	DMR 116	Hytech Seed Ltd.
17	IJ8527	DMR 117	Monsanto India Ltd.
18	JKMH 4545	DMR 118	JK AGRI GENETICS LTD.
19	KDMH 4086	DMR 119	Krishidhan Seeds Pvt. Ltd.
20	KH - 7579	DMR 120	Kanchan Ganga Seeds Compny Pvt Ltd.
21	KH - K25 Gold	DMR 121	Kanchan Ganga Seeds Compny Pvt Ltd.
22	KMH-510	DMR 122	Kaveri Seed Company Ltd.
23	NMH 1008	DMR 123	Nath Bio- Genes (I) Ltd.
24	NMH-1265	DMR 124	Nuziveedu Seeds Pvt. Ltd
25	NMH-3493	DMR 125	Nimal Seeds Pvt. Ltd.
26	PMH-189	DMR 126	Pravardhan seeds pvt.ltd.
27	PMH-2277	DMR 127	prabhat Agri Biotech Ltd.
28	Rasi-863	DMR 128	Rasi Seeds (P) Ltd.
29	Rasi-932	DMR 129	Rasi Seeds (P) Ltd.
30	RMH 02	DMR 130	UAS, College of Agriculture, Bheemarayanagudi
31	Ryder-M	DMR 131	Prabhat Agri Biotech Ltd.
32	Venus	DMR 132	Prabhat Agri Biotech Ltd.
33	CP 802	DMR 133	Charoen Pokphand pvt.ltd,Banglore-560 075.
34	CMH 10-552	DMR 134	TNAU Coimbatore-641003
35	LTH-20	DMR 135	Yaaganti Seeds Pvt Ltd.
36	LTH-22	DMR 136	Yaaganti Seeds Pvt Ltd.
37	CMH 10-558	DMR 137	TNAU Coimbatore-641003
38	REH-2011-05	DMR 138	CSAUA&T, Kanpur-208002.
39	X35B396	DMR 139	Xylem Seeds Pvt. Ltd.
40	AH 1211	DMR 140	IARI, New Delhi
41	JH 31555	DMR 141	PAU, Ludhiana -141005
42	JH 31601	DMR 142	PAU, Ludhiana -141006
43	DAS MH-103	DMR 143	Dow AgroSciences India Pvt. Lte. Mumbai- 400071
44	X35B392	DMR 144	Xylem Seeds Pvt. Ltd.
45	CMH 10-477	DMR 145	TNAU, Coimbatore-641003
46	CMH 10-546	DMR 146	TNAU, Coimbatore-641003
47	CMH 10-540	DMR 147	TNAU, Coimbatore-641003
48	REH-2011-06	DMR 148	CSAUA&T, Kanpur-208002.
49	PRO-388	DMR 149	Bayer Bioscience Pvt. Ltd.
50	X35B391	DMR 150	Xylem Seeds Pvt. Ltd.
51	VNR-39029	DMR 151	VNR Seeds Pvt. Ltd.
52	A-7503	DMR 152	Advanta India Ltd
53	VMH-4174	DMR 153	Nusun Genetic Research Ltd. Hyderabad.
54	VMH-4185	DMR 154	Nusun Genetic Research Ltd. Hyderabad.
55	Euri 10	DMR 155	BBNL

S.N.	Entries Name	Code	Origin
56	X35B390	DMR 156	Xylem Seeds Pvt. Ltd.
57	VNR-4226	DMR 157	VNR Seeds Pvt. Ltd.
58	GH-0928	DMR 163	ARS, Arbhavi, Karnatka
59	DHM 117	DMR 164	ANGRAU, Hyderabad
<b>Entries completed one years of testing in Medium maturity</b>			
1	Meghan-G	DMR 201	Pravardhan seeds pvt.ltd.
2	FMH-603	DMR 202	Fortune Hybrid seeds Ltd.
3	Rasi-3033	DMR 203	Rasi Seeds (P) Ltd.
4	Rasi-588	DMR 204	Rasi Seeds (P) Ltd.
5	AMH-455	DMR 205	Asian Agri Genetics, Ltd
6	NMH-1281	DMR 206	Nuziveedu Seeds Pvt. Ltd
7	NMH-1276	DMR 207	Nuziveedu Seeds Pvt. Ltd
8	Bisco X 2711	DMR 208	Seedtec Bisco Bio Sciences (P) Ltd.
9	NMH 1588	DMR 209	Nath Bio- Genes (I) Ltd.
10	TI8334	DMR 210	Monsanto India Ltd.
11	IJ8533	DMR 211	Monsanto India Ltd.
12	DKC9108	DMR 212	Monsanto India Ltd.
13	VAMH 08014	DMR 213	TNAU, MRS, Vagarai
14	JKMH 4511	DMR 214	JK Agri Genetics Ltd.
15	S6850	DMR 215	Syngenta India Limited
16	S6790	DMR 216	Syngenta India Limited
17	BH-411036	DMR 217	ANGRAU- MRC, Rajendranagar, Hyderabad
18	KH - 7647	DMR 218	Kanchan Ganga Seeds Compny Pvt Ltd.
19	KMH-25K45	DMR 219	Kaveri Seed Company Ltd.
20	KMH-7148	DMR 220	Kaveri Seed Company Ltd.
21	KMH-3110	DMR 221	Kaveri Seed Company Ltd.
22	KMH-6681	DMR 222	Kaveri Seed Company Ltd.
23	QMH-2966	DMR 223	AICRP on Maize, ZARS, Kolhapur-12 (MS)
24	EHL 111	DMR 224	CSK HPKV, Bajaura
25	EHL 2211	DMR 225	CSK HPKV, Bajaura
26	EHL 2311	DMR 226	CSK HPKV, Bajaura
27	NMH-1277	DMR 227	Nuziveedu Seeds Pvt. Ltd
28	DAS MH-302	DMR 228	Dow AgroSciences India Pvt.Mumbai- 400071
29	PRO 387	DMR 229	Bayer Bioscience Pvt. Ltd.
30	BIO 719	DMR 230	Bio seed Research India Pvt. Ltd.
31	DAS MH-303	DMR 231	Phi Seeds Ltd.
32	X35B403	DMR 232	Xylem Seeds Pvt. Ltd.
33	CMH 10-529	DMR 233	TNAU Coimbatore-641003
34	BAUMH-2011-04	DMR 234	BAU Ranchi Centre
35	BAUMH-2011-13	DMR 235	BAU Ranchi Centre
36	LTH-21	DMR 236	Yaaganti Seed Pvt Lt.
37	CMH 10-473	DMR 237	TNAU , Coimbatore-641003
38	X35B410	DMR 238	Hyderabad
39	REH 2011-03	DMR 239	CSAUA&T, Kanpur-208002.
40	EC-3164	DMR 240	RCA, Udaipur Center-313001
41	CMH 10-485	DMR 241	TNAU Coimbatore-641003
42	DH-12-01	DMR 242	UAS, Dharwad
43	CMH 10-486	DMR 243	TNAU Coimbatore-641003
44	REH 2011-4	DMR 244	CSAU A&T, Kanpur-208002.
45	AH 1209	DMR 245	IARI, New Delhi

S.N.	Entries Name	Code	Origin
46	AH 1210	DMR 246	IARI, New Delhi
47	JH 31583	DMR 247	PAU, Ludhiana -141005
48	JH 31598	DMR 248	PAU, Ludhiana -141005
49	JH 31599	DMR 249	PAU, Ludhiana -141005
50	HKH 334	DMR 250	HAU, Karnal
51	HKH 335	DMR 251	HAU, Karnal
52	HKH 336	DMR 252	HAU, Karnal
53	Synthetics-1	DMR 255	DMR, New Delhi
54	MMH 12-4	DMR 256	T.C.A. Dholi.
55	MMH 12-5	DMR 257	T.C.A. Dholi.
56	MMH 12-6	DMR 258	T.C.A. Dholi.
57	MMH 12-7	DMR 259	T.C.A. Dholi.
58	MMH 12-8	DMR 260	T.C.A. Dholi.
59	VARANASI H12-1	DMR 261	BHU,Varanasi
60	DHM 117	DMR 262	DMR, New Delhi
61	QMH-2910	DMR 263	AICRP,MRS, Kolhapur-12
62	BH-411001	DMR 264	ANGRAU, MRC Rajendranagar, Hyderabad
63	Safal X-260	DMR 265	Safal Seeds & Biotech Ltd Hyderabad
64	KNMH 4201	DMR 266	ARS, Karim Nagar.
65	KNMH 4202	DMR 267	ARS, Karim Nagar.
66	KNMH 4203	DMR 268	ARS, Karim Nagar.
67	KNMH 4204	DMR 269	ARS, Karim Nagar.
68	KNMH 4205	DMR 270	ARS, Karim Nagar.
<b>Entries completed one years of testing in Early maturity</b>			
1	GAWMH-2	DMR 301	ACRIP, AAU, Godhra
2	GYH-9842	DMR 302	ACRIP, AAU, Godhra
3	KMH-7021	DMR 303	Kaveri Seed Company Ltd.
4	FH 3605	DMR 304	VPKAS, Almora
5	FH 3609	DMR 305	VPKAS, Almora
6	FH 3626	DMR 306	VPKAS, Almora
7	EH-2223	DMR 307	RCA Udaipur Center
8	EH-2212	DMR 308	RCA Udaipur Center
9	REH 2011-1	DMR 309	CSAUV A&T, Kanpur-208002
10	CMH-10-537	DMR 311	TNAU, Coimbatore-641003
11	CMH-10-484	DMR 312	TNAU, Coimbatore-641004
12	REH 2011-2	DMR 313	CSAU A&T, Kanpur-208002.
13	CMH-10-527	DMR 314	TNAU, Coimbatore-641004
14	CMH-10-531	DMR 315	TNAU, Coimbatore-641005
15	BAUMH-2011-07	DMR 317	BAU Ranchi Centre
16	BAUMH-2011-05	DMR 318	BAU Ranchi Centre
17	BIO 6008	DMR 319	Bio seed Research India Pvt. Ltd.
18	AH-1205	DMR 320	IARI, New Delhi
19	AH-1206	DMR 321	IARI, New Delhi
20	AH-1207	DMR 322	IARI, New Delhi
21	AH-1208	DMR 323	IARI, New Delhi
22	JH 31602	DMR 324	PAU Ludhiana
23	JH 31603	DMR 325	PAU Ludhiana
24	HKH 333	DMR 328	HAU, Karnal
25	HKH 331	DMR 329	HAU, Karnal
26	HKH 332	DMR 330	HAU, Karnal

S.N.	Entries Name	Code	Origin
<b>Entries completed one years of testing in Extra Early maturity</b>			
1	FH 3583	DMR 401	VPKAS, Almora
2	FH 3594	DMR 402	VPKAS, Almora
3	FQH 93	DMR 403	VPKAS, Almora
4	DH-238	DMR 404	GBPUAT, Pantnagar
5	DH-241	DMR 405	GBPUAT, Pantnagar
6	DH-242	DMR 406	GBPUAT, Pantnagar
7	DH-244	DMR 407	GBPUAT, Pantnagar
8	DH-248	DMR 408	GBPUAT, Pantnagar
9	DH-262	DMR 409	GBPUAT, Pantnagar
10	DH-263	DMR 410	GBPUAT, Pantnagar
11	REH 2011-7	DMR 411	CSAUVA&T, Kanpur-208002
12	REH 2011-8	DMR 412	CSAUVA&T, Kanpur-208002
13	AH 1201	DMR 413	IARI, New Delhi
14	AH 1202	DMR 414	IARI, New Delhi
15	AH 1203	DMR 415	IARI, New Delhi
16	AH 1204	DMR 416	IARI, New Delhi

### Specialty corn hybrids (*Kharif* 2012)

<b>E completed three years of testing in Quality Protein Maize (QPM)</b>			
S. N	Entries Name	Code	Origin
1	MHQPM-09-7	QPM 106	T.C.A. Dholi
2	MHQPM-09-6	QPM 107	T.C.A. Dholi
3	MHQPM-09-8	QPM 108	T.C.A. Dholi
4	EHO-16	QPM 111	RCA, MPUA&T, Udaipur-313001
<b>Entries completed one years of testing in Quality Protein Maize (QPM)</b>			
1	UQMH-4	QPM 101	ACRIP, Bhubaneswar
2	UQMH-5	QPM 102	ACRIP, Bhubaneswar
3	VEHQ-3020	QPM 105	BHU, varanasi
<b>Entries completed three years of testing in Sweet corn</b>			
1	NSCH 12	SC 110	Nuziveedu Seeds Pvt. Ltd. Ranga Raddy-501401
<b>Entries completed one years of testing in sweet corn</b>			
1	FSCH 1	SC 101	VPKAS, Almora
2	FSCH 18	SC 102	VPKAS, Almora
3	BSCH 63	SC 104	ANGRAU ARI, Rajendranagar Hyderabad 500030
4	KSCH 222	SC 105	Kaveri Seed Company Ltd.
5	Bisco Madhu	SC 106	Bisco Seeds
6	Bajaura sweet corn	SC 108	CSKHPKV, Bajaura
7	KSCH 333	SC 109	Kaveri Seed Company Ltd.
<b>Entries completed one years of testing in Popcorn</b>			
1	VL pop corn 2	PC 101	VPKAS, Almora
2	Bajaura popcorn	PC 103	CSKHPKV, Bajaura center
<b>Entries completed one years of testing in Baby corn</b>			
1	Almora hybrid	BC 101	VPKAS, Almora

TABLE No. 1

Performance of late maturing experimental hybrids at Bajaura, Barapani, Kangra, Delhi, Kanpur, Karnal, Ludhiana, Pantnagar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Bhiloda, Udaipur in IET trial no. TR61 ( IET-L) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
		ZN 1												ZN 2						ZN 3													
		BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R
1	Cyrus-G	11800	41	3427	6	1590	29	6695	40	5002	43	8890	48	6763	8	5962	61	6881	41	6699	52	7654	33	9461	22	9022	16	8712	10	10932	4	9073	34
2	AMH-477	11884	38	1897	29	1909	20	6896	38	5439	32	9612	32	4514	61	9655	9	8600	10	7564	28	7614	37	10078	12	6652	48	8114	35	9834	20	9730	21
3	Bisco X 4296	12067	35	3716	4	-		12067	3	5204	40	8600	56	5252	47	6940	52	6255	50	6450	59	7342	52	10955	3	6056	56	8117	33	7826	52	9800	20
4	DADA	13464	21	1612	40	1657	26	7560	24	5451	31	10119	20	4779	58	8853	24	8070	19	7454	33	6938	63	9685	16	9248	11	8623	12	9432	27	8964	37
5	FMH-1073	10019	58	1155	60	1378	35	5699	58	4654	47	9094	45	5348	46	6910	54	8326	13	6867	51	7247	60	8450	39	6854	47	7517	53	7291	57	9160	31
6	FMH-1085	12428	30	1797	32	1847	21	7137	34	4572	50	9639	31	6578	18	6710	56	5626	55	6625	56	7259	58	7235	57	7434	35	7309	57	8548	40	8938	38
7	FMH-11195	13447	22	2131	26	-		13447	1	6564	14	8841	49	6483	23	9387	11	10485	3	8352	3	7972	10	8423	41	7615	32	8003	39	9544	26	9202	29
8	FMH-621	15049	6	1740	36	1814	22	8431	12	5220	39	9668	30	6675	15	8159	34	6546	47	7253	36	7198	61	10091	11	7346	39	8212	31	9135	33	9950	18
9	FMH-9184	12423	31	3090	10	-		12423	2	3732	59	8802	50	5759	38	7046	49	6574	46	6383	60	7465	45	10341	6	6925	46	8244	28	7111	58	10457	12
10	FMH-9190	10911	50	1524	48	-		10911	4	6891	12	8743	52	6741	12	6978	50	5385	61	6947	49	7300	54	8824	33	7141	42	7755	43	7830	51	8231	48
11	FMH-938	12571	28	2214	25	1958	17	7264	31	5892	23	9290	37	6312	28	8724	26	6483	48	7340	35	8005	8	6906	61	9246	12	8052	38	8283	46	9181	30
12	FMH-951	10815	51	1598	43	846	46	5830	54	6456	15	9804	27	7016	4	6738	55	7888	22	7581	26	7661	32	7979	49	5691	60	7110	58	8268	47	9446	26
13	GH-0945	9352	62	1630	39	446	57	4899	62	3519	62	11254	3	5201	49	5540	62	6942	39	6491	58	7834	18	7504	54	7387	38	7575	49	6868	60	5420	64
14	GK 3059 GOLD	13786	17	1792	33	2172	12	7979	18	6017	21	9804	28	6166	30	7428	43	7817	23	7447	34	8065	6	7921	50	7159	41	7715	45	7550	54	9710	22
15	GK 3100	12508	29	3374	7	2650	7	7579	23	5816	24	10644	14	4807	56	8403	30	5499	58	7034	47	7815	20	9879	14	7564	33	8419	21	8448	44	9068	35
16	HTMH 5403	16225	2	3911	2	2519	8	9372	6	5294	36	10870	11	6446	25	8328	32	6789	43	7546	30	7392	50	9845	15	8056	25	8431	20	10124	13	10284	14
17	IJ8527	10976	49	4865	1	1754	23	6365	47	5287	37	10726	13	5749	39	10575	4	7241	34	7916	9	7383	51	8842	32	9581	8	8602	13	8984	34	8855	40
18	JKMH 4545	11730	44	2795	13	2856	5	7293	29	5675	28	9281	39	5180	51	8033	35	7316	33	7097	41	7670	29	8366	42	10250	4	8762	8	8490	42	10430	13
19	KDMH 4086	13794	16	1220	58	1452	33	7623	22	7798	7	8329	62	5928	35	10444	5	8100	18	8120	6	7566	41	8032	48	9863	7	8487	19	10043	19	9266	28
20	KH-7579	14157	12	3195	9	2937	4	8547	11	7823	6	7882	64	6575	19	7450	42	8874	9	7721	19	7845	17	9129	26	9137	14	8704	11	10074	16	9621	24
21	KH-K25 Gold	15121	5	2338	21	2225	11	8673	10	7871	4	9205	42	5582	41	8651	27	8551	11	7972	7	7475	44	8727	35	6514	49	7572	50	8941	36	8930	39
22	KMH-510	12645	27	1319	54	2376	9	7510	25	5741	27	11221	5	6759	9	9144	15	6434	49	7860	15	7792	21	8198	45	6962	45	7651	47	8949	35	9637	23
23	NMH 1008	11151	47	2218	24	1194	39	6173	52	3957	57	12050	2	6171	29	8978	19	8232	16	7878	14	7820	19	10157	10	6346	53	8107	36	8253	49	8358	45
24	NMH-1265	14845	7	2785	14	730	48	7788	20	4606	48	10844	12	6990	5	10073	7	5552	56	7613	25	7437	47	8441	40	6497	51	7459	55	11675	2	10887	7
25	NMH-3493	12710	25	1128	62	2735	6	7723	21	4945	45	10025	21	5446	44	7141	48	7667	28	7045	45	7262	57	10160	9	7414	37	8279	25	8873	37	6231	59
26	PMH-189	14284	9	1351	53	454	56	7369	28	5563	29	9701	29	6605	17	8302	33	7689	27	7572	27	7939	11	9027	28	9190	13	8719	9	10908	5	11137	6





## B11

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
	ZN 1					ZN 2					ZN 3									
	BAJA R	BARA R	KANG R	MEAN R	DELH R	KANP R	KARN R	LUDH R	PANT R	MEAN R	DHOL R	RANC R	VARA R	MEAN R	ARBH R	COIM R				
58 GH-0928	8138 63	1465 49	1455 32	4797 63	3004 63	10151 18	6680 13	4604 64	5719 54	6032 64	8309 3	5085 64	6133 54	6509 63	6534 63	5868 63				
59 DHM 117	11962 36	3233 8	1407 34	6684 41	6942 11	9537 33	5374 45	7839 37	8393 12	7617 24	7912 12	7547 52	9030 15	8163 32	9677 22	7708 51				
CHECKS																				
60 PMH 1	13485 20	2332 22	558 54	7022 35	5418 33	8355 61	6129 31	11270 2	7723 26	7779 16	8219 4	7264 55	7844 28	7776 42	10223 10	9300 27				
61 PMH 3	12649 26	2447 18	1748 25	7198 33	5275 38	8458 58	5517 42	12105 1	8060 20	7883 13	6930 64	10502 5	8184 23	8539 18	9632 25	8139 49				
62 SeedTech 2324	11035 48	1608 42	1216 38	6125 53	3676 60	10141 19	4474 62	6219 59	6575 45	6217 61	7043 62	9469 21	7834 29	8115 34	6963 59	7489 54				
63 Bio 9681	10210 57	2476 17	1316 37	5763 56	5368 34	9830 26	6437 26	6611 57	5183 63	6686 53	7726 25	8987 30	5909 58	7541 52	7984 50	5895 62				
64 HM 11	10686 54	1770 35	-	10686 5	4213 56	8601 55	4059 64	7617 40	5924 53	6083 62	7517 43	7107 60	5770 59	6798 62	6594 62	6637 57				
<b>Location Mean</b>	<b>12420</b>	<b>2086</b>	<b>1593</b>	<b>7006</b>	<b>5571</b>	<b>9673</b>	<b>5917</b>	<b>8190</b>	<b>7363</b>	<b>7343</b>	<b>7667</b>	<b>8822</b>	<b>7750</b>	<b>8080</b>	<b>9032</b>	<b>8994</b>				
Mean Stand	22	25	24	23	37	36	37	37	33	36	32	33	39	35	36	32				
C.D. (5%)	1963	2022	337	1150	1284	887	775	1365	1622	1187	728	1724	1169	1207	1861	639				
C.V. (%)	9.78	48.5	10.56	-	14.26	5.68	8.1	10.32	13.63	-	5.87	9.78	7.55	-	12.75	4.4				
F (Prob)	0	0.064	0		0	0	0	0	0		0	0	0		0	0				
Plot Size	3	2.5	3.6	-	6	4.8	6	5.2	6	-	4.8	5.6	4.8	-	6	4.8				
AGRONOMY DATA																				
Sowing Date	22-06	26-07	9-07	-	6-07	-	4-07	21-06	5-07	-	30-06	23-07	15-07	-	28-07	5-07				
Harvest Date	23-10	26-11	16-10	-	24-10	-	10-10	3-10	25-10	-	13-10	15-11	21-10	-	11-12	30-10				
Irrigation Nos	3	-	-	-	2	-	6	4	1	-	2	-	-	-	6	10				
Fertilizer Applied N	120	80	120	-	120	120	150	50	120	-	120	120	120	-	150	150				
Fertilizer Applied P	60	60	60	-	60	60	60	24	60	-	60	60	60	-	75	75				
Fertilizer Applied K	40	40	40	-	40	50	60	12	40	-	40	40	40	-	37.5	75				

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 48.5 %

## B12

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE																												
	PEDIGREE																												
	ZN 4													ZN 5						OV'L									
	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN	R	
1	Cyrus-G	8716	29	14110	5	4608	45	11393	1	3273	64	8872	18	6730	29	3500	53	12677	1	4540	55	9162	5	4763	46	6895	21	7674	29
2	AMH-477	6609	61	13019	26	5475	13	8965	27	5358	37	8427	35	7723	5	2835	63	9421	36	7203	15	9881	3	4158	54	6870	22	7659	30
3	Bisco X 4296	7082	59	13520	14	5163	23	8164	35	5723	30	8183	38	7243	11	4044	31	8859	46	7441	13	5108	50	5088	38	6297	38	7442	36
4	DADA	8771	27	12666	32	5202	22	7191	53	7626	1	8550	30	5789	47	4123	28	10389	27	5378	41	5433	47	4374	50	5914	47	7548	34
5	FMH-1073	7818	44	11733	49	4322	54	7066	54	5838	29	7604	52	6912	18	3434	57	9315	41	5327	42	6304	36	5295	33	6098	42	6874	54
6	FMH-1085	7245	56	10036	60	4581	47	7380	51	4477	56	7315	56	5665	50	3740	41	9352	39	5686	35	5001	53	5055	40	5750	54	6740	56
7	FMH-11195	8927	24	11642	51	5908	5	6964	55	7278	3	8495	32	7145	13	4665	8	9416	37	8357	5	8944	8	6989	12	7586	2	8373	1
8	FMH-621	7493	48	12653	33	5057	27	8554	34	6767	6	8516	31	6852	21	3715	42	10639	22	5256	44	8368	12	3811	57	6440	32	7653	31
9	FMH-9184	7268	55	11755	47	4520	51	9225	22	6305	13	8092	42	7519	6	4148	25	9388	38	6525	23	8307	13	1971	64	6310	37	7435	37
10	FMH-9190	8733	28	11856	44	4557	49	7971	38	4745	49	7703	50	7057	16	3572	48	8069	57	4175	59	7190	25	7690	6	6292	39	7299	44
11	FMH-938	8309	33	12838	29	4578	48	7512	49	5131	43	7976	45	6687	30	4304	16	10738	21	5407	40	6985	28	4002	55	6354	35	7363	41
12	FMH-951	9025	23	11616	52	3889	60	7712	43	6462	9	8060	43	5435	56	3653	43	8688	51	8212	6	4088	59	5914	26	5998	44	7100	51
13	GH-0945	7661	47	11965	42	3449	63	5657	61	4075	60	6442	60	4983	62	3965	37	6979	62	5176	47	3125	64	3589	58	4636	62	5995	62
14	GK 3059 GOLD	7405	50	12114	39	4609	44	6333	58	6870	5	7799	48	5815	45	4092	29	9261	42	5236	45	5528	46	5278	35	5868	48	7223	49
15	GK 3100	8515	31	12323	35	5775	6	6816	56	4430	57	7911	46	6540	34	4200	21	8429	55	5306	43	6898	29	4945	43	6053	43	7273	46
16	HTMH 5403	8905	25	13483	15	5404	16	9125	24	4916	47	8892	16	6580	32	5453	1	12447	2	8413	4	5022	51	4167	53	7014	17	8091	11
17	IJ8527	9861	7	13726	10	5464	14	9909	12	4720	51	8788	21	7762	3	3341	58	12221	3	4107	60	7866	17	3445	59	6457	31	7755	24
18	JKMH 4545	8213	37	12060	41	4740	42	9235	21	5853	28	8432	34	5771	49	4597	11	8438	54	5955	32	4794	54	5185	37	5790	51	7397	40
19	KDMH 4086	9556	13	11837	46	6125	3	8027	37	6028	21	8698	23	6776	26	3982	35	12011	6	6527	22	7140	26	7769	4	7367	7	8104	9
20	KH-7579	9879	6	13308	20	5762	7	7388	50	6083	20	8874	17	6386	38	4355	15	10279	30	8121	8	8590	10	6305	18	7339	8	8172	7
21	KH-K25 Gold	8194	38	12197	38	4958	33	7791	42	6122	19	8162	39	5902	44	4154	24	10307	29	8648	1	5217	48	8682	2	7152	12	7825	22
22	KMH-510	8284	36	14317	2	5956	4	10304	9	6015	22	9066	11	7392	7	4027	32	11273	11	6058	28	7852	18	5290	34	6982	19	7940	15
23	NMH 1008	9319	16	13444	17	4224	57	8585	33	4673	53	8122	40	6361	39	3514	52	11496	9	6049	29	6728	31	5316	31	6577	29	7495	35
24	NMH-1265	10539	2	13316	19	4314	55	11351	2	5056	45	9591	1	6024	43	3327	59	12199	4	5181	46	3901	60	4255	51	5814	50	7741	25
25	NMH-3493	9093	21	10511	59	5249	18	7314	52	5394	36	7524	53	6782	25	3547	49	8774	49	6274	25	6114	38	7758	5	6542	30	7279	45
26	PMH-189	9202	19	11751	48	5424	15	8873	28	5677	31	8996	12	5466	53	4291	17	11148	13	5970	31	6373	35	5304	32	6425	34	7838	21



B14

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
	ZN 4										ZN 5					OVL												
	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN	R
58 GH-0928	6390	62	8292	64	3460	62	5916	60	4548	55	5859	64	5072	61	4017	33	7902	58	5131	48	3341	63	4916	44	5063	60	5681	63
59 DHM 117	9847	8	11879	43	4590	46	7660	47	6003	23	8195	37	6044	42	3460	55	9755	35	1338	64	5894	40	5876	28	5394	58	7203	50
CHECKS																												
60 PMH 1	9698	11	11841	45	5658	9	9315	20	5879	27	8845	20	6510	36	4530	12	11013	15	4449	56	6413	34	2893	62	5968	45	7565	33
61 PMH 3	9368	15	14075	7	5160	24	8689	29	5538	33	8657	24	7373	9	4142	26	10606	23	5707	34	7673	19	6948	13	7075	14	7934	16
62 SeedTech 2324	8161	39	11306	55	4541	50	7885	40	4181	59	7218	58	5649	51	3267	60	7626	59	5461	39	5665	43	6045	23	5619	56	6605	58
63 Bio 9681	7845	43	12101	40	5007	30	8666	31	4552	54	7436	54	5308	57	3896	39	9335	40	5129	49	3825	61	6479	17	5662	55	6678	57
64 HM 11	7425	49	10871	57	2545	64	5175	62	5629	32	6411	61	4699	64	3069	62	8153	56	5681	36	4559	56	3933	56	5016	61	6203	61
<b>Location Mean</b>	<b>8414</b>		<b>12402</b>		<b>4920</b>		<b>8459</b>		<b>5545</b>		<b>8252</b>		<b>6445</b>		<b>3993</b>		<b>9825</b>		<b>5998</b>		<b>6623</b>		<b>5549</b>		<b>6406</b>		<b>7442</b>	
Mean Stand	37		27		39		34		26		33		38		30		37		19		31		29		31		32	
C.D. (5%)	2151		1318		917		1129		923		1277		1252		942		1033		1737		2538		1232		1456		1284	
C.V. (%)	15.82		6.57		11.54		8.26		10.3		-		12.02		14.59		6.51		17.92		19.17		13.74		-		-	
F (Prob)	0		0		0		0		0		-		0		0		0		0		0		0		-		-	
Plot Size	6		4.8		6		5.6		4.8		-		6		4.8		6		2.4		4.8		4.8		-		-	
AGRONOMY DATA																												
Sowing Date	1-07		29-06		18-07		20-07		25-06		-		5-07		14-07		27-06		7-07		18-07		2-07		-		-	
Harvest Date	28-10		18-10		29-11		3-12		5-11		-		-		18-10		31-10		10-10		-		-		-		-	
Irrigation Nos	1		-		-		8		11		-		-		-		6		-		-		2		-		-	
Fertilizer Applied N	200		200		120		150		200		-		120		150		120		120		120		90		-		-	
Fertilizer Applied P	60		60		60		75		75		-		60		80		60		50		60		60		-		-	
Fertilizer Applied K	50		60		40		40		75		-		40		40		40		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 48.5 %



B16

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1																									OV'L				
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5									
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
36	LTH-22	17.9	51.3	-	16.9	-	47.8	6.9	-	-	-	-	70.9	-	10.5	-	12.9	-	19.1	-	14.2	6.9	4.9	-	-	-	58.2	37.1	100.7	14.5	6.9
37	CMH 10-558	-	-	28.5	-	-	19.4	14.8	-	-	-	-	14.8	-	-	1.3	-	-	-	-	-	-	-	7.5	-	-	6	15.1	63	4.8	-
38	REH-2011-05	-	-	-	-	-	18.3	6.2	-	2.3	-	-	17.1	-	-	-	-	-	6.1	-	-	-	-	-	-	-	28.6	-	124.2	-	-
39	X35B396	19.2	-	314.6	30.9	51.5	-	-	-	18.4	1.6	8.9	46.8	20.3	24.5	-	14.1	-	21.8	-	-	4.5	0.3	5.2	-	-	81.3	-	114	16.3	9.6
40	AH 1211	-	4.1	168.4	-	-	3.6	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101.4	-	-	
41	JH 31555	-	-	92	-	51.8	12.2	13	-	17.1	11.9	-	21.9	26.3	14.1	-	2.5	-	-	9.4	-	-	-	-	4.1	-	53	31.3	178.8	18.5	4.6
42	JH 31601	-	-	213.6	-	17.2	10.5	10	-	23.1	9.4	-	7.9	33.8	9.8	18.5	-	-	15.3	-	-	27.5	3.2	25.6	4.1	-	90.4	27.3	160.8	32.8	9.9
43	DAS MH-103	-	-	46.9	-	-	11.2	8.7	-	-	-	-	13.6	-	0.2	-	8.8	-	13.6	-	15.8	-	-	9	-	-	38.6	-	116.2	11.6	-
44	X35B392	2.9	-	745.7	32.5	49.3	1.8	-	-	-	-	-	30.8	1.2	7.4	-	-	0.2	7.9	-	5.9	8.4	-	11.3	15.1	0.9	68.7	2.8	152.2	25.6	6.2
45	CMH 10-477	-	-	106.8	-	33.5	1.2	-	-	15.9	1.5	-	17.5	35.5	15.1	2.8	6.1	-	17.6	-	0.6	-	2.7	8.8	-	-	45.2	19.2	126.3	19.3	7
46	CMH 10-546	-	-	193.7	-	30.8	31.4	-	-	5.5	1.5	-	24.1	14.9	9.9	-	22	0.4	11.3	-	-	1.7	0.6	3.4	-	-	23	2.1	114.8	3.8	1.7
47	CMH 10-540	-	-	101.4	-	13.2	33.8	-	-	-	-	-	30.4	2.7	7	-	9.9	-	10	-	1.6	5.1	1	13.3	-	-	54.9	63.1	74.8	25.7	5.7
48	REH-2011-06	-	0.6	187.2	-	11	22.1	15.4	-	-	-	-	28.6	-	-	-	-	-	-	-	-	-	-	-	-	-	14.6	-	106.8	-	-
49	PRO-388	9.8	-	248.1	19.3	45	19.3	-	-	-	-	-	12.2	-	-	-	29.7	-	10.7	-	6.5	-	5.4	6	14.6	2.1	35.6	14.2	164.5	23.8	7.2
50	X35B391	4.5	-	-	3.6	37.2	7.5	-	-	-	-	11.9	59.6	-	22.3	-	33.4	-	10.3	-	-	8.3	4.6	18.9	2.7	-	11.3	40.9	143.7	21.3	8.6
51	VNR-39029	-	61.5	100.2	-	7	34.6	-	-	-	-	-	31	-	6.3	-	-	-	9	-	3.8	7.3	-	-	-	-	76.7	14.7	150.4	10.4	-
52	A-7503	-	-	263.6	-	-	3.7	-	-	7.7	-	-	28.1	-	-	-	16.8	-	15.5	-	12	13.4	5.7	0.4	-	-	89.9	26.7	70.9	17.9	3.4
53	VMH-4174	-	-	86.5	-	-	13.1	8.9	-	36.3	-	-	38.6	-	7.2	-	-	-	3.5	-	13.5	-	-	1	-	7.6	38.6	7.2	-	5.8	-
54	VMH-4185	4	-	244.7	13.6	7.2	32.3	-	-	23.9	4.8	-	40.7	9	14.7	-	-	2.9	14.9	-	17.7	-	2.7	1.2	-	10.3	59.2	48.6	59.9	22.6	9.8
55	Euri 10	-	7.7	86	-	-	9	15.3	-	-	-	-	-	-	-	-	-	-	-	-	-	10.7	-	-	-	-	-	-	44.2	-	-
56	X35B390	27.1	23.2	21.9	26.9	15	31.7	-	-	-	2	-	31.3	11.8	10.5	-	-	-	20.5	-	-	6.9	-	4.4	-	-	66.8	60.6	126.9	25.8	8.5
57	VNR-4226	2.2	-	14.1	2.7	18.9	9.3	6.8	-	-	-	-	19.4	6.8	5.6	-	7.8	-	-	-	-	18.4	-	5.6	-	-	-	-	56.9	-	-
58	GH-0928	-	-	160.9	-	-	21.5	9	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.3	-	69.9	-	-
59	DHM 117	-	38.6	152.2	-	28.1	14.1	-	-	8.7	-	-	3.9	15.1	5	-	-	1.5	0.3	-	-	2.1	-	-	-	-	-	-	103.1	-	-
60	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	PMH 3	-	4.9	213.3	2.5	-	1.2	-	7.4	4.4	1.3	-	44.6	4.3	9.8	-	-	-	18.9	-	-	-	-	13.3	-	-	28.3	19.6	140.1	18.5	4.9
62	SeedTech 2324	-	-	118	-	-	21.4	-	-	-	-	-	30.4	-	4.4	-	-	-	-	-	-	-	-	-	-	-	22.8	-	108.9	-	-
63	Bio 9681	-	6.1	135.8	-	-	17.7	5	-	-	-	-	23.7	-	-	-	-	-	2.2	-	-	-	-	-	-	-	15.3	-	123.9	-	-
64	HM 11	-	-	-	52.2	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.7	-	35.9	-	-

B17

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3																													
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV/L							
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
1	Cyrus-G	-	40.1	-	-	-	5.1	22.6	-	-	-	10.4	-	10.2	2	13.5	11.5	-	0.3	-	31.1	-	2.5	-	-	19.5	-	19.4	-	-	-
2	AMH-477	-	-	9.2	-	3.1	13.6	-	-	6.7	-	9.9	-	-	-	2.1	19.5	-	-	6.1	3.2	-	-	4.7	-	-	26.2	28.8	-	-	-
3	Bisco X 4296	-	51.9	-	67.6	-	1.7	-	-	-	-	5.9	4.3	-	-	-	20.4	-	-	0.1	-	3.3	-	-	-	30.4	-	-	-	-	
4	DADA	6.4	-	-	5	3.3	19.6	-	-	0.1	-	0.1	-	13	1	-	10.1	-	-	0.8	-	37.7	-	-	-	-	-	-	-	-	
5	FMH-1073	-	-	-	-	-	7.5	-	-	3.3	-	4.6	-	-	-	-	12.5	-	-	-	-	5.4	-	-	-	-	-	-	-	-	
6	FMH-1085	-	-	5.7	-	-	14	19.2	-	-	-	4.8	-	-	-	-	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	FMH-11195	6.3	-	-	86.8	24.4	4.5	17.5	-	30.1	6	15	-	-	-	-	13.1	-	-	14.5	-	31.4	-	-	12.6	-	46.4	16.6	0.6	7.2	5.5
8	FMH-621	19	-	3.8	17.1	-	14.3	21	-	-	-	3.9	-	-	-	-	22.2	-	-	-	-	22.2	-	-	-	0.3	-	9.1	-	-	
9	FMH-9184	-	26.3	-	72.6	-	4.1	4.4	-	-	-	7.7	-	-	-	-	28.5	-	-	-	6.2	13.9	-	2	0.1	-	14.3	8.3	-	-	-
10	FMH-9190	-	-	-	51.6	30.6	3.4	22.2	-	-	-	5.3	-	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-	10.7	-	-	
11	FMH-938	-	-	12	0.9	11.7	9.8	14.4	-	-	-	15.5	-	13	-	-	12.8	-	-	-	-	-	-	-	3.9	1.2	-	-	-	-	-
12	FMH-951	-	-	-	-	22.4	15.9	27.2	-	-	-	10.5	-	-	-	-	16.1	-	-	-	-	16.7	-	-	-	-	43.9	-	-	-	-
13	GH-0945	-	-	-	-	-	33.1	-	-	-	-	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	GK 3059 GOLD	9	-	24.3	10.8	14.1	15.9	11.8	-	-	-	16.4	-	-	-	-	19.3	-	-	-	-	24.1	-	-	-	-	-	-	-	-	-
15	GK 3100	-	37.9	51.6	5.3	10.3	25.8	-	-	-	-	12.8	-	-	-	-	11.4	-	-	11.9	-	-	-	-	1.4	-	-	-	-	-	-
16	HTMH 5403	28.3	59.8	44.2	30.2	0.4	28.5	16.8	-	-	-	6.7	-	-	-	5.1	26.4	-	-	4.7	5	-	2.7	-	31.7	17.4	47.4	-	-	-	2
17	IJ8527	-	98.8	0.4	-	0.2	26.8	4.2	-	-	0.4	6.5	-	17.1	0.7	-	8.8	5.3	-	5.9	14.1	-	1.5	5.3	-	15.2	-	2.5	-	-	-
18	JKMH 4545	-	14.2	63.4	1.3	7.6	9.7	-	-	-	-	10.7	-	25.2	2.6	-	28.1	-	-	-	6.3	5.7	-	-	11	-	4.4	-	-	-	-
19	KDMH 4086	9.1	-	-	5.9	47.8	-	7.5	-	0.5	3	9.2	-	20.5	-	4.3	13.8	2	-	18.7	-	8.9	0.5	-	-	13.2	14.4	-	11.8	4.1	2.1
20	KH-7579	11.9	30.6	68.1	18.7	48.3	-	19.2	-	10.1	-	13.2	-	11.6	1.9	4.6	18.2	5.5	-	11.7	-	9.8	2.5	-	5.1	-	42.3	12	-	3.7	3
21	KH-K25 Gold	19.5	-	27.3	20.5	49.2	8.8	1.2	-	6.1	1.1	7.9	-	-	-	-	9.7	-	-	-	-	10.5	-	-	0.3	-	51.5	-	25	1.1	-
22	KMH-510	-	-	36	4.3	8.8	32.7	22.5	-	-	-	12.5	-	-	-	-	18.4	-	1.7	15.4	18.6	8.6	4.7	0.3	-	6.3	6.2	2.3	-	-	0.1
23	NMH 1008	-	-	-	-	-	42.5	11.9	-	2.1	-	12.9	-	-	-	-	2.7	-	-	-	-	-	-	-	-	8.4	6	-	-	-	-
24	NMH-1265	17.4	13.8	-	8.2	-	28.2	26.7	-	-	-	7.3	-	-	-	21.2	33.8	12.5	-	-	30.6	-	10.8	-	-	15	-	-	-	-	-
25	NMH-3493	0.5	-	56.5	7.3	-	18.5	-	-	-	-	4.8	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	9.9	-	11.7	-	-
26	PMH-189	12.9	-	-	2.4	5.5	14.7	19.7	-	-	-	14.6	-	12.3	2.1	13.2	36.8	-	-	5.1	2.1	2.5	3.9	-	3.6	5.1	4.6	-	-	-	-
27	PMH-2277	12.2	-	-	2.8	-	9	10.4	-	-	-	15.9	-	16.3	-	8.5	37.8	-	-	11.2	-	6.3	4.8	-	14.6	7.5	43.5	-	-	-	-
28	Rasi-863	3.3	-	97.5	14.7	4.8	7.3	-	-	-	-	11.1	-	-	-	-	12.4	6.9	-	-	8.8	13	0.7	-	-	-	39.9	-	-	-	-
29	Rasi-932	-	16	15.5	-	-	21.5	5.1	-	-	-	8.7	-	3	-	-	29.7	10.4	-	-	-	8.3	3.9	-	1.5	-	-	17	-	-	-
30	RMH 02	-	-	-	-	-	16.5	-	-	-	-	11.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Ryder-M	4.9	-	-	2.7	15.1	3.6	-	-	3	-	10.9	-	23.2	9.7	15.6	11.5	-	0.3	-	15	-	-	16.4	-	-	22.8	5.2	-	-	-
32	Venus	8	-	71.6	15.7	29.6	-	17.2	-	-	-	9.9	-	-	-	0.4	7.3	-	-	7.7	11.9	-	-	-	13.6	2.6	-	-	-	-	-
33	CP 802	-	-	12.2	-	-	20.3	7.9	-	-	-	4.9	-	3.4	-	-	41.3	17.2	-	-	23.2	-	8.4	-	12.3	8.5	23.9	-	-	2.1	-
34	CMH 10-552	-	-	-	-	1.5	29	22.4	-	-	-	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.4	-	-	-
35	LTH-20	12.8	13.3	12.7	12.8	-	12.5	16.4	-	40.7	3.4	7.1	-	39.1	8.8	6.9	-	-	-	22.8	11.6	-	-	-	-	1.3	-	-	-	-	-







B20

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SeedTech 2324																														
		ZN 1					ZN 2					ZN 3					ZN 4							ZN 5		OV'L						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN	
36	LTH-22	44.1	119.5	-	34	28.6	21.8	46.4	42.4	-	21.6	8.8	31.1	-	5.8	45	40.2	-	24.7	24.3	34.8	50.4	28.5	11.6	27.7	16.7	28.9	55.2	-	21.7	22.4	
37	CMH 10-558	7.4	-	-	2.6	41.6	-	57.2	50.1	5.2	23.7	10.5	-	-	-	48.7	1.3	3.5	3.2	14.8	0	20.4	11.2	23.9	9.4	32.8	-	30.3	-	11.3	10.5	
38	REH-2011-05	-	-	-	-	21.8	-	45.5	16	20.1	15.8	12.2	-	-	-	18.6	15.6	1.8	11.1	-	-	4.2	7.5	-	10	15.3	4.8	-	7.3	4.3	5	
39	X35B396	45.7	6.6	90.2	50.1	123.3	-	25.4	34	39.1	27.1	27.1	12.6	20.5	19.3	22.1	41.7	12.9	27.5	10.6	3.4	47	22.9	21.3	33.5	38.1	47.7	-	2.4	23.5	25.5	
40	AH 1211	-	51	23.2	-	4.2	-	56.2	-	-	-	8.9	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	
41	JH 31555	6.4	13.4	-	4.6	123.8	-	54.8	60.3	37.6	40	11.4	-	26.5	9.3	41	27.3	-	0.2	36.3	-	32.2	12.1	-	44.4	17.8	24.6	48.7	33.4	25.9	19.8	
42	JH 31601	-	-	43.9	-	72.7	-	50.7	72.2	44.6	36.9	3.5	-	34	5.2	74	6.1	1.7	20.8	17.1	14.9	79.3	26.5	44.7	44.4	37.3	55.1	44.1	24.8	41	25.8	
43	DAS MH-103	12.1	-	-	7.7	-	-	48.9	15.5	12.7	7.5	8.5	-	-	-	25.2	35.1	-	19	5.1	36.8	22.6	19.2	25.6	11.3	43.3	12.9	3.8	3.5	18.5	12	
44	X35B392	25.8	-	288	51.8	120	-	6.3	44.3	-	15	7.9	0.4	1.3	2.9	33.4	-	19.1	13	21.6	25.1	52.4	19.5	28.2	59.6	45.7	37.4	16.4	20.7	33.4	21.6	
45	CMH 10-477	11.6	-	-	10	96.8	-	16.6	54.6	36.1	27	9.3	-	35.7	10.3	50.9	31.7	12.8	23.1	14.7	18.8	32.1	25.9	25.4	28.7	41.5	18.3	34.9	8.3	26.7	22.5	
46	CMH 10-546	-	3.1	34.7	1.2	92.8	8.2	30.8	19.2	23.9	27	7.9	-	15	5.3	32.5	51.5	19.3	16.6	12.6	-	43	23.2	19.2	8.5	13.4	0.2	15.6	2.8	10.2	16.5	
47	CMH 10-540	6.7	25.9	-	5.3	66.9	10.3	8.9	49.5	6.6	23.8	5.6	0	2.9	2.5	44.8	36.5	6	15.2	8.5	20	47.9	23.8	30.5	35.9	41.4	26.2	84.6	-	33.5	21.1	
48	REH-2011-06	1.8	45.9	31.8	4.8	63.6	0.6	58	-	0.5	16.1	9.7	-	-	-	11.4	11	-	0.9	1.7	-	-	2.2	7.6	7.6	-	-	-	-	-	3	
49	PRO-388	34.2	-	59.7	36.7	113.7	-	9.6	23.8	8.5	20.8	3	-	-	-	44.5	61.1	18.5	16	14.6	25.8	25.1	29.2	22.1	58.9	47.5	10.5	29.3	26.6	31.5	22.8	
50	X35B391	27.8	-	-	18.7	102.2	-	7.4	46.1	11.7	21.1	30.6	22.5	-	17.2	33.4	65.6	15	15.5	11.4	16.9	52.3	28.2	37.1	42.4	31.1	-	59.5	16.6	28.8	24.4	
51	VNR-39029	-	134.3	-	-	57.8	10.9	15.6	20	-	13.2	8.4	0.5	-	1.8	38.7	14	-	14.2	10.4	22.6	50.8	19.1	-	-	12.5	43.9	29.8	19.8	17.2	12.3	
52	A-7503	7.2	-	66.8	13.1	35.8	-	3	40.6	26.5	13.6	3.9	-	-	-	45.8	45	7.8	21	6.6	32.3	59.5	29.5	15.7	30.7	29.5	54.7	43.5	-	25.2	18.4	
53	VMH-4174	11.2	0.2	-	8.6	-	-	49.2	37.5	60.1	25	11.9	6.3	-	2.7	21.5	11.5	-	8.4	-	34.1	24.7	5.5	16.4	27.6	55.4	12.9	21.4	-	12.4	10.8	
54	VMH-4185	27.1	-	58.1	30.2	58	9	22.3	42.6	45.5	31.2	13.4	7.9	9.2	9.9	46.1	15.4	22.2	20.3	7.6	39	27.8	25.9	16.6	20.2	59.3	29.7	68.2	-	30.2	25.7	
55	Euri 10	-	56.2	-	-	16.9	-	58	19	8.1	12.5	12	-	-	-	7.8	0.3	-	-	-	-	55.7	0.3	-	21.7	-	-	-	-	-	-	
56	X35B390	55.4	78.7	-	45.5	69.5	8.5	34.3	65.6	-	27.6	5.9	0.7	11.9	5.8	44.6	20.4	-	26.2	5.8	10.1	50.3	19.7	20.3	26.4	28.9	35.9	81.8	8.6	33.6	24.2	
57	VNR-4226	24.9	19.7	-	17.7	75.2	-	46.3	50.9	4.3	23.4	7.7	-	7	1.2	34.8	33.8	-	-	10.1	15.7	66.5	9.3	21.7	22.9	17.2	-	4.3	-	2.4	10.1	
58	GH-0928	-	-	19.7	-	-	0.1	49.3	-	-	-	18	-	-	-	-	-	-	-	-	-	8.8	-	-	23	3.6	-	-	-	-	-	
59	DHM 117	8.4	101.1	15.7	9.1	88.9	-	20.1	26.1	27.6	22.5	12.3	-	15.3	0.6	39	2.9	20.7	5.1	1.1	-	43.6	13.5	7	5.9	27.9	-	4	-	-	9.1	
	CHECKS																															
60	PMH 1	22.2	45.1	-	14.6	47.4	-	37	81.2	17.4	25.1	16.7	-	0.1	-	46.8	24.2	18.8	4.7	24.6	18.1	40.6	22.5	15.2	38.7	44.4	-	13.2	-	6.2	14.5	
61	PMH 3	14.6	52.2	43.7	17.5	43.5	-	23.3	94.7	22.6	26.8	-	10.9	4.5	5.2	38.3	8.7	14.8	24.5	13.6	10.2	32.5	19.9	30.5	26.8	39.1	4.5	35.5	14.9	25.9	20.1	
62	SeedTech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	Bio 9681	-	54	8.2	-	46	-	43.9	6.3	-	7.5	9.7	-	-	-	14.7	-	-	7	10.3	9.9	8.9	3	-	19.3	22.4	-	-	7.2	0.8	1.1	
64	HM 11	-	10.1	-	74.5	14.6	-	-	22.5	-	-	6.7	-	-	-	-	-	-	-	-	-	34.6	-	-	-	6.9	4	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 48.5 %



B22

TABLE No. (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9681																															
		ZN 1					ZN 2					ZN 3					ZN 4						ZN 5		OV'L								
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN		
37	CMH 10-558	16.1	-	-	9.1	-	1.5	9.3	41.2	33.4	15.1	0.8	-	19.2	2.4	29.7	28.6	7.7	-	4.1	-	10.6	8	31.8	-	8.5	-	93.1	-	10.4	9.3		
38	REH-2011-05	5.2	-	-	-	-	0.5	1.1	9.1	52.4	7.6	2.3	-	8.1	0.8	3.4	46.8	5.9	3.8	-	-	-	4.4	2.6	-	-	11.6	33.7	0.2	3.5	3.8		
39	X35B396	57.4	-	75.8	59.5	52.9	-	-	26.1	76.4	18.2	15.8	18.6	59.7	28.4	6.5	80	17.4	19.2	0.3	-	35	19.3	29.1	11.9	12.8	57.3	47.5	-	22.6	24.1		
40	AH 1211	-	-	13.8	-	-	-	8.6	-	4.1	-	-	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
41	JH 31555	15	-	-	11.2	53.2	-	7.6	50.7	74.5	30.2	1.6	-	67.7	17.6	23	61.7	-	-	23.6	-	21.4	8.8	2.4	21.1	-	32.7	120.2	24.5	24.9	18.5		
42	JH 31601	-	-	33	-	18.3	-	4.7	62	83.4	27.3	-	-	77.6	13.3	51.8	34.8	5.8	12.9	6.2	4.6	64.7	22.8	54	21.1	12.2	65.1	113.4	16.5	40	24.4		
43	DAS MH-103	21.2	-	-	14.4	-	-	3.5	8.6	43	-	-	-	26.8	3.4	9.2	71.6	-	11.2	-	24.4	12.6	15.7	33.7	-	17.1	20.2	53.7	-	17.6	10.8		
44	X35B392	36	-	258.6	61.4	50.6	-	-	35.7	4.6	6.9	-	5.8	34.3	10.7	16.4	16.5	23.9	5.5	10.3	13.8	40	16	36.5	33.9	19	46.3	72.4	12.7	32.4	20.3		
45	CMH 10-477	20.7	-	-	16.9	34.8	-	-	45.4	72.7	18.1	-	-	79.9	18.7	31.6	67.3	17.4	15.1	4	8.1	21.3	22.2	33.4	7.9	15.6	25.9	99.8	1.1	25.8	21.2		
46	CMH 10-546	5.4	-	24.5	7.6	32	11.7	-	12.2	57.2	18.1	-	0.3	52.5	13.3	15.5	92.4	24.2	9	2.1	-	31.3	19.6	26.8	-	-	6.7	71.2	-	9.4	15.2		
47	CMH 10-540	15.4	-	-	11.9	14.3	13.7	-	40.6	35.2	15.2	-	5.4	36.4	10.4	26.3	73.4	10.3	7.6	-	9.1	35.8	20.2	38.9	13.9	15.5	34.4	173.4	-	32.5	19.7		
48	REH-2011-06	10.1	-	21.8	11.4	12	3.8	9.8	-	27.5	7.9	0	3.9	-	-	-	41	0	-	-	-	-	-	-	-	14.5	-	-	-	47.4	-	-	1.8
49	PRO-388	45	-	47.6	45.3	46.3	1.4	-	16.5	37.6	12.4	-	-	22.5	0.1	26	104.6	23.3	8.3	3.9	14.5	14.9	25.4	29.9	33.2	20.5	17.6	91.5	18.2	30.5	21.5		
50	X35B391	38.1	-	-	26.2	38.4	-	-	37.4	41.7	12.6	19.1	29	30.8	26.1	16.3	110.4	19.6	7.9	1.1	6.4	39.9	24.5	45.9	19.4	7.1	-	136.2	8.8	27.9	23		
51	VNR-39029	-	52.2	-	-	8	14.4	-	12.9	6.4	5.3	-	5.8	29.4	9.6	21	44.8	3.1	6.7	0.1	11.5	38.5	15.6	-	-	-	53.3	92.3	11.8	16.3	11.1		
52	A-7503	15.8	-	54.2	20.2	-	-	-	32.3	60.5	5.7	-	3.5	10.1	2.2	27.2	84.2	12.1	13.1	-	20.4	46.5	25.7	23.2	9.6	5.8	64.7	112.5	-	24.2	17.2		
53	VMH-4174	20.1	-	-	15.5	-	-	3.7	29.4	103.1	16.2	2	12	19.3	10.5	6	41.7	-	1.2	-	22	14.5	2.4	23.8	7	26.9	20.2	79.8	-	11.5	9.6		
54	VMH-4185	37.4	-	46.1	38.4	8.2	12.4	-	34.2	84.6	21.9	3.4	13.7	44.7	18.3	27.4	46.7	27.2	12.4	-	26.5	17.4	22.2	24	0.8	30.1	38.1	149.1	-	29.2	24.3		
55	Euri 10	3.2	1.5	-	0.4	-	-	9.8	11.9	37.2	4.6	2.1	-	1.9	-	-	27.5	-	-	-	-	43	-	6.1	2	-	-	13.2	-	-	-		
56	X35B390	67.9	16.1	-	54.7	16.1	11.9	-	55.7	18	18.6	-	6.1	48.4	13.9	26.1	53	-	17.9	-	0.1	38	16.1	28	6	5.3	44.7	169.2	1.3	32.6	22.9		
57	VNR-4226	35	-	-	25.1	20	-	1.7	42	32.4	14.8	-	-	41.8	8.9	17.6	70	-	-	-	5.3	52.9	6.1	29.5	3.1	-	-	54.4	-	1.6	8.8		
58	GH-0928	-	-	10.6	-	-	3.3	3.8	-	10.3	-	7.5	-	3.8	-	-	-	-	-	-	-	-	-	-	-	3.1	-	0	-	-	-		
59	DHM 117	17.2	30.6	6.9	16	29.3	-	-	18.6	61.9	13.9	2.4	-	52.8	8.3	21.2	30.7	25.5	-	-	-	31.9	10.2	13.9	-	4.5	-	54.1	-	-	7.9		
CHECKS																																	
60	PMH 1	32.1	-	-	21.8	0.9	-	-	70.5	49	16.3	6.4	-	32.8	3.1	28	57.8	23.6	-	13	7.5	29.2	19	22.6	16.3	18	-	67.7	-	5.4	13.3		
61	PMH 3	23.9	-	32.8	24.9	-	-	-	83.1	55.5	17.9	-	16.9	38.5	13.2	20.6	38.1	19.4	16.3	3.1	0.3	21.7	16.4	38.9	6.3	13.6	11.3	100.6	7.2	25	18.8		
62	SeedTech 2324	8.1	-	-	6.3	-	3.2	-	-	26.9	-	-	5.4	32.6	7.6	-	27	4	-	-	-	-	-	6.4	-	-	6.5	48.1	-	-	-		
63	Bio 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
64	HM 11	4.7	-	-	85.4	-	-	-	15.2	14.3	-	-	-	-	-	-	12.6	-	-	-	-	23.7	-	-	-	-	10.8	19.2	-	-	-	-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 48.5 %



## B24

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 11																														
		ZN 1								ZN 2				ZN 3				ZN 4								ZN 5		OV'L				
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN	
37	CMH 10-558	10.9	-	-	-	23.5	16	73.3	22.6	16.8	26.5	3.6	17.3	22.1	13.6	57.1	14.3	13.8	7.3	104.9	52.4	-	25.2	48.9	16.4	24.2	-	62	19.9	24.6	17.7	
38	REH-2011-05	0.5	-	-	-	6.3	14.9	60.4	-	33.4	18.3	5.1	19.6	10.7	11.8	25.2	30.4	11.9	15.6	77.1	48.2	-	21	15.9	17.1	7.9	0.7	12.2	65	16.8	11.8	
39	X35B396	50.4	-	-	-	94.8	-	38.2	9.4	54.3	29.9	19	50	63.6	42.4	29	59.9	24.1	32.6	97.3	57.6	9.2	38.3	45.8	42.1	29.2	42	23.7	57.4	38.4	33.6	
40	AH 1211	-	37.1	-	-	-	0.7	72.2	-	-	-	2	-	-	-	-	-	-	-	73.4	-	-	-	4.6	13.9	-	-	-	48.1	-	-	
41	JH 31555	9.9	3	-	-	95.2	9	70.6	30.8	52.7	43.1	4.4	24.6	71.7	30.5	48.9	43.7	4	4.3	143.1	26.2	-	26.3	15.7	53.7	10.2	19.8	84.7	105.1	41	27.6	
42	JH 31601	-	-	-	-	50.7	7.3	66.1	40.6	60.5	39.9	-	10.3	81.9	25.6	83.8	19.8	11.8	25.6	109	75.1	33.2	42.4	74	53.7	28.5	49.1	79	91.8	58	34	
43	DAS MH-103	15.8	-	-	-	-	8	64.2	-	25.1	9.9	1.7	16.1	29.8	14.7	32.2	52.5	-	23.7	87.5	108.4	-	34.2	51	18.5	34	8.5	28.9	59	32.8	19.3	
44	X35B392	29.9	-	-	-	91.9	-	17.2	17.8	-	17.5	1.1	33.7	37.6	22.8	40.9	3.5	30.9	17.5	117	90.5	13.2	34.6	54.2	69.9	36.3	32.1	44.6	85.5	49.4	29.5	
45	CMH 10-477	15.3	-	-	-	71.7	-	28.6	26.2	51.1	29.8	2.4	20.1	84.2	31.7	59.3	48.6	24	28.1	104.6	81.1	-	41.7	50.7	37	32.3	13.7	67.6	66.5	42	30.5	
46	CMH 10-546	0.7	-	-	-	68.2	27.6	44.2	-	37.5	29.8	1.1	26.8	56.2	25.7	39.9	70.9	31.2	21.3	100.8	48.3	6.2	38.7	43.3	15.5	6.1	-	43.6	58	23.5	24	
47	CMH 10-540	10.2	14.3	-	-	45.6	30	20.1	22.1	18.3	26.6	-	33.3	39.7	22.4	52.9	54.1	16.5	19.8	93.5	82.8	9.8	39.4	56.9	44.6	32.2	21.3	129.4	28.6	49.5	28.9	
48	REH-2011-06	5.1	32.5	-	-	42.7	18.6	74.2	-	11.6	18.6	2.8	31.4	-	9	17.6	25.2	5.7	5	81.4	48.6	-	15.1	29.4	14.5	-	-	23.6	52.1	11.7	9.6	
49	PRO-388	38.6	-	-	-	86.5	15.9	20.9	1.1	20.4	23.5	-	14.7	25.5	11	52.6	81.8	30.2	20.6	104.4	91.7	-	45.4	46.8	69.1	37.9	6.2	60.6	94.6	47.3	30.8	
50	X35B391	31.9	-	-	-	76.4	4.4	18.4	19.3	24	23.8	22.4	63.1	34	39.9	40.8	86.9	26.4	20.2	98.8	78.1	13.1	44.4	64.8	51.6	22.7	-	98.2	79.3	44.3	32.4	
51	VNR-39029	-	112.9	-	-	37.6	30.8	27.4	-	-	15.7	1.5	33.8	32.5	21.5	46.5	28.6	8.9	18.8	97	86.7	12	34.1	11.6	5.5	5.2	38.4	61.3	84.2	31.3	19.6	
52	A-7503	10.7	-	-	-	18.4	0.8	13.5	14.8	40.4	16.1	-	30.9	12.8	13.4	54	63.6	18.4	25.9	90.2	101.6	18.5	45.8	39.1	39.1	21.2	48.7	78.3	25.7	40.2	26.1	
53	VMH-4174	14.8	-	-	-	-	9.9	64.5	12.3	77.7	27.7	4.9	41.7	22.2	22.6	28.3	25.9	-	12.7	52.6	104.2	-	18.8	39.9	35.9	45.3	8.5	50.9	-	25.9	18	
54	VMH-4185	31.2	-	-	-	37.9	28.5	34.8	16.4	61.5	34	6.3	43.8	48.2	31.2	54.2	30.3	34.4	25.2	91.9	111.9	-	41.7	40.1	27.9	49	24.7	109	17.6	45.9	33.8	
55	Euri 10	-	41.9	-	-	2	5.9	74.2	-	20	15	4.9	1.2	4.3	3.5	13.8	13.2	-	-	57.9	47.5	15.7	13	19.8	29.5	-	-	-	6.1	-	2.1	
56	X35B390	60.4	62.3	-	-	47.9	27.9	48	35.2	3.2	30.4	-	34.2	52	26.3	52.6	35.9	-	31.3	88.7	67.7	11.6	34.7	44.7	34.5	20.5	30.6	125.9	66.9	49.6	32.3	
57	VNR-4226	29	8.7	-	-	52.9	6.2	61.3	23.2	15.8	26.1	0.9	22.1	45.2	20.8	42.4	51	-	-	96.5	76.3	23.6	23.1	46.3	30.8	9.6	-	29.6	15.5	14.7	17.2	
58	GH-0928	-	-	-	-	-	18	64.6	-	-	-	10.5	-	6.3	-	-	-	-	-	35.9	14.3	-	-	7.9	30.9	-	-	-	25	0.9	-	
59	DHM 117	11.9	82.7	-	-	64.8	10.9	32.4	2.9	41.7	25.2	5.3	6.2	56.5	20.1	46.8	16.1	32.6	9.3	80.3	48	6.6	27.8	28.6	12.7	19.6	-	29.3	49.4	7.6	16.1	
CHECKS																																
60	PMH 1	26.2	31.8	-	-	28.6	-	51	48	30.4	27.9	9.3	2.2	36	14.4	55	40.1	30.6	8.9	122.3	80	4.4	38	38.5	47.6	35.1	-	40.7	-	19	22	
61	PMH 3	18.4	38.2	-	-	25.2	-	35.9	58.9	36.1	29.6	-	47.8	41.8	25.6	46.1	22.6	26.2	29.5	102.7	67.9	-	35	56.9	35	30.1	0.4	68.3	76.6	41.1	27.9	
62	SeedTech 2324	3.3	-	-	-	-	17.9	10.2	-	11	2.2	-	33.2	35.8	19.4	5.6	12.8	9.9	4	78.4	52.4	-	12.6	20.2	6.4	-	-	24.3	53.7	12	6.5	
63	Bio 9681	-	39.9	-	-	27.4	14.3	58.6	-	-	9.9	2.8	26.4	2.4	10.9	21.1	-	5.7	11.3	96.7	67.5	-	16	13	26.9	14.5	-	-	64.7	12.9	7.7	
64	HM 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 48.5 %





















Table No. 1 (Continued)

S.No. PEDIGREE	MOISTURE % AT HARVEST																													
	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5				OV'L									
	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
38 REH-2011-05	19.9	23.0	30.4	24.4	30.5	13.0	32.0	23.9	26.4	25.1	23.0	22.7	29.5	25.1	21.6	27.6	16.7	7.6	10.5	17.4	14.0	16.5	17.8	19.6	26.0	15.0	21.9	20.0	21.3	
39 X35B396	19.5	21.0	34.9	25.1	28.3	17.0	34.2	23.3	24.8	25.5	14.4	24.8	30.4	23.2	21.1	27.3	17.6	9.1	11.2	17.1	15.6	17.0	18.2	19.9	21.9	15.0	22.5	19.5	21.2	
40 AH 1211	20.4	22.5	30.4	24.4	18.6	18.3	28.7	20.0	24.0	21.9	20.6	22.2	27.1	23.3	16.8	18.8	16.2	7.4	10.5	17.7	15.7	14.7	17.8	15.0	20.7	15.0	22.2	18.1	19.4	
41 JH 31555	20.7	22.5	30.7	24.6	27.0	18.0	30.0	21.9	22.6	23.9	23.0	21.2	29.9	24.7	20.0	23.0	16.3	12.0	11.2	16.7	15.7	16.4	18.2	17.2	22.4	15.0	21.6	18.9	20.7	
42 JH 31601	21.2	21.5	29.9	24.2	31.3	17.7	29.3	26.0	26.1	26.0	24.7	24.2	28.0	25.6	21.9	24.8	20.5	10.5	11.4	18.6	14.5	17.4	17.3	19.9	23.9	15.0	21.9	19.6	21.7	
43 DAS MH-103	21.3	21.0	29.4	23.9	33.5	14.7	31.4	23.9	25.2	25.7	30.8	24.8	31.1	28.9	24.5	25.2	18.0	8.8	12.7	18.7	17.1	17.8	18.1	20.9	23.4	15.0	21.6	19.8	22.2	
44 X35B392	21.2	25.0	28.6	24.9	29.6	16.3	31.0	21.6	23.9	24.5	24.4	25.0	28.7	26.0	20.2	21.4	18.7	13.0	12.0	17.7	15.0	16.8	17.4	16.7	25.0	15.0	22.2	19.2	21.3	
45 CMH 10-477	21.8	23.5	28.5	24.6	29.7	13.3	32.2	25.3	25.2	25.1	23.4	23.7	28.5	25.2	22.4	25.3	19.1	7.8	10.4	17.5	14.1	16.6	17.7	19.1	25.7	15.0	22.5	20.0	21.4	
46 CMH 10-546	20.8	25.0	29.3	25.0	33.9	14.0	32.3	25.0	25.4	26.1	25.9	23.5	28.5	26.0	23.2	25.3	19.0	9.5	11.4	17.5	14.9	17.2	17.9	19.0	20.3	15.0	21.5	18.7	21.6	
47 CMH 10-540	20.7	22.5	33.6	25.6	32.1	18.0	32.4	25.2	24.5	26.4	26.6	22.3	31.5	26.8	24.2	23.0	18.9	7.4	12.4	17.8	15.1	16.9	17.3	19.2	19.9	15.0	22.3	18.7	21.8	
48 REH-2011-06	20.7	26.0	28.6	25.1	26.4	13.0	31.3	24.2	24.2	23.8	22.6	22.5	31.8	25.6	21.7	25.4	18.7	11.7	12.2	17.7	17.4	17.8	17.1	18.8	20.5	15.0	21.7	18.6	21.3	
49 PRO-388	20.7	22.5	30.5	24.6	31.0	17.7	31.2	23.1	24.3	25.4	27.2	24.6	28.4	26.7	21.9	25.3	19.6	7.6	11.0	17.9	15.2	16.9	18.6	21.2	20.1	15.0	22.4	19.4	21.6	
50 X35B391	20.1	21.5	33.7	25.1	30.3	15.7	30.9	25.7	23.3	25.2	23.4	25.9	31.3	26.9	20.7	22.7	18.7	10.9	10.1	18.0	14.8	16.5	17.4	18.6	25.9	15.0	21.6	19.7	21.6	
51 VNR-39029	20.6	21.0	33.1	24.9	31.1	13.3	32.0	25.9	26.1	25.7	25.7	22.5	31.2	26.5	23.0	26.1	21.0	8.6	12.1	18.0	16.0	17.8	16.8	22.8	21.7	15.0	22.2	19.7	22.0	
52 A-7503	21.8	25.0	31.8	26.2	31.2	14.3	30.7	25.4	24.1	25.1	25.5	23.3	31.8	26.9	22.1	25.3	17.5	8.8	10.6	17.6	16.1	16.8	17.8	22.1	20.5	15.0	21.9	19.4	21.7	
53 VMH-4174	19.9	23.5	31.9	25.1	31.3	14.3	28.3	23.6	21.5	23.8	20.2	23.6	30.9	24.9	21.1	22.0	16.6	7.1	11.1	17.7	14.7	15.7	17.2	18.4	23.4	15.0	22.0	19.2	20.6	
54 VMH-4185	21.0	25.0	32.3	26.1	29.8	14.3	32.5	26.5	28.6	26.3	22.2	24.1	32.2	26.1	23.3	29.2	22.4	5.9	12.7	17.7	17.1	18.3	18.4	21.5	22.4	15.0	21.1	19.7	22.4	
55 Euri 10	20.8	22.5	29.3	24.2	31.2	17.0	30.5	21.6	20.8	24.2	20.5	22.3	28.9	23.9	17.0	23.9	14.8	10.5	10.0	16.7	13.2	15.1	17.9	16.4	17.8	15.0	21.7	17.7	20.0	
56 X35B390	20.3	26.0	27.6	24.6	26.8	17.0	32.1	27.9	26.4	26.0	26.1	25.0	30.0	27.0	20.8	26.2	15.6	7.6	11.0	18.5	15.1	16.4	17.7	19.0	22.7	15.0	21.8	19.2	21.6	
57 VNR-4226	20.0	22.5	28.2	23.6	26.1	16.0	29.8	26.8	22.8	24.3	25.4	24.3	31.0	26.9	21.8	25.3	16.0	12.1	11.1	16.2	15.3	16.8	17.8	19.8	24.8	15.0	21.9	19.9	21.3	
58 GH-0928	18.7	22.5	28.7	23.3	33.8	13.3	31.2	20.2	27.1	25.1	18.9	20.7	29.8	23.1	19.3	27.1	18.0	9.8	9.8	16.7	16.8	16.8	17.1	16.9	15.6	15.0	21.9	17.3	20.4	
59 DHM 117	20.3	26.0	34.6	27.0	20.9	14.0	32.4	24.6	22.5	22.9	23.4	24.8	29.6	25.9	20.5	23.8	17.2	14.0	11.9	17.1	16.0	17.2	18.0	17.2	28.2	15.0	22.1	20.1	21.5	
CHECKS																														
60 PMH 1	21.6	21.5	30.9	24.6	30.3	13.7	31.7	25.6	25.8	25.4	21.8	22.2	29.0	24.3	21.9	25.2	18.2	11.1	11.8	18.1	15.6	17.4	18.5	18.0	20.9	15.0	21.9	18.9	21.3	
61 PMH 3	21.0	21.0	32.8	24.9	34.3	19.0	32.3	26.7	25.6	27.6	26.3	25.0	29.0	26.7	23.1	26.1	18.9	11.8	11.6	18.1	18.1	18.2	17.2	20.4	20.5	15.0	22.1	19.0	22.4	
62 SeedTech 2324	21.7	25.0	27.7	24.8	31.1	16.0	32.5	25.2	24.2	25.8	30.9	25.0	30.5	28.8	21.3	23.0	20.6	12.7	12.0	17.2	15.0	17.4	17.6	18.6	18.3	15.0	22.2	18.3	21.9	
63 Bio 9681	20.8	23.5	29.9	24.7	26.9	14.7	29.5	21.4	21.7	22.8	25.0	24.4	29.4	26.2	17.8	25.2	16.6	9.4	11.2	17.4	14.7	16.0	17.2	14.8	24.6	15.0	18.8	18.0	20.4	
64 HM 11	24.6	25.0	-	24.8	25.8	16.3	28.2	24.4	23.4	23.6	23.2	22.7	28.8	24.9	20.2	26.4	17.1	13.8	11.3	17.4	15.2	17.3	18.3	16.8	23.4	15.0	19.1	18.5	20.7	
Loc. Mean	20.8	23.5	28.2	24.8	29.0	15.6	31.2	24.0	24.1	24.8	23.8	23.5	29.7	25.7	20.8	24.7	18.0	10.2	11.3	17.5	15.5	16.9	17.7	18.5	22.0	15.0	21.6	18.9	21.2	
C.D. (5%)	1.13	3.40	5.57	3.59	3.44	1.97	1.59	2.02	2.84	2.61	3.16	2.90	4.04	2.79	1.13	0.42	2.38	0.56	0.93	0.49	1.44	1.50	0.38	0.85	4.98	-	0.53	1.73	1.02	
C.V. (%)	3.37	7.22	9.88	8.97	7.35	7.79	3.15	5.22	7.29	8.45	8.20	6.15	6.81	6.71	3.35	1.04	8.20	3.41	5.12	1.74	5.73	8.49	1.33	2.83	14.00	-	1.51	7.34	8.28	
F (Prob)	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.30	0.37	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.24	0.00















## B41

TABLE No. 2

Performance of medium maturing experimental hybrids at Bajaura, Barapani, Kangra, Delhi, Kanpur, Karnal, Ludhiana, Pantnagar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Udaipur, Bhilora in IET trial no. 62 (IET-M) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																													
		BAJA R								BARA R								KANG R								ZN 1								ZN 2								ZN 3					
		BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R	HYDE	R												
1	Meghan-G	13663	22	2850	12	1126	51	7395	29	6540	19	9589	3	5972	51	8454	26	9825	29	8076	14	6068	56	7086	22	7923	11	7026	8	10197	17	9723	14	6718	56												
2	FMH-603	12014	36	1216	64	1213	49	6614	41	4303	58	9802	2	6552	23	9496	15	10334	21	8098	13	6680	15	6233	45	7795	13	6903	13	10828	11	10469	8	10544	2												
3	Rasi-3033	11962	37	1354	52	584	74	6273	53	7731	9	7983	35	7731	1	8220	28	11168	15	8567	5	6149	51	5764	59	8530	3	6814	18	11429	6	9296	23	8811	17												
4	Rasi-588	9445	68	1077	71	1387	44	5416	67	5970	30	9134	9	6215	40	6901	41	6959	59	7036	45	5579	71	6420	40	4060	66	5353	67	9120	36	8643	36	7315	40												
5	AMH-455	9634	64	1232	61	2253	18	5943	56	6356	23	7299	59	6010	49	10669	6	7716	50	7610	25	6973	6	7412	17	5364	48	6583	26	8668	43	8731	35	8371	22												
6	NMH-1281	12687	31	2859	11	1663	37	7175	35	5935	31	8039	33	6220	39	6888	42	10024	25	7421	29	6231	46	5885	55	6460	32	6192	45	12452	4	7037	61	10032	8												
7	NMH-1276	15154	10	1891	35	3932	4	9543	4	6136	26	6776	69	5925	54	8790	22	11661	9	7858	21	6455	30	6163	46	8078	10	6899	14	8855	39	9520	19	9427	12												
8	Bisco X 2711	14496	14	2578	18	867	63	7681	22	7590	12	7853	43	6624	18	8681	23	9964	26	8142	12	5674	69	5725	63	8145	9	6515	30	8587	46	8863	31	9663	10												
9	NMH 1588	11633	42	2342	29	2158	24	6895	38	4837	50	6019	73	5800	57	6380	48	12903	1	7188	37	6089	55	6568	35	2691	73	5116	72	8695	42	7949	45	7940	27												
10	TI8334	10535	56	2729	15	2161	22	6348	49	5751	35	8877	14	5304	69	10249	11	10900	18	8216	11	6308	42	5899	54	8382	5	6863	16	10518	14	7638	52	7978	26												
11	IJ8533	15448	8	3102	5	3145	8	9297	7	8514	2	8168	30	5967	52	11560	2	8392	44	8520	7	6632	18	6691	30	6615	28	6646	25	12651	3	9369	22	10242	5												
12	DKC9108	13787	21	2566	20	1659	38	7723	21	5728	36	8099	31	6377	32	6592	47	5954	73	6550	57	7803	1	6037	49	4460	58	6100	48	5595	73	7360	54	5643	68												
13	VAMH 08014	13090	26	1843	37	2630	13	7860	20	6375	22	7761	47	6479	28	8871	19	6257	69	7149	39	6273	44	6636	32	8802	2	7237	4	10036	20	8818	33	9368	13												
14	JKMH 4511	10653	52	1949	33	1478	41	6065	54	6022	28	7944	38	6666	14	7415	37	8472	42	7304	33	6380	36	5756	60	7257	19	6464	33	9835	23	7326	55	7051	42												
15	S6850	13819	20	2396	27	5076	1	9447	5	7138	14	8538	17	5161	72	10723	5	9939	27	8300	9	5829	66	7045	23	6517	30	6464	34	11001	8	9784	12	10065	7												
16	S6790	16333	5	2024	32	2190	19	9262	8	8601	1	8879	13	5980	50	11791	1	8666	37	8784	4	6602	19	6975	25	6430	33	6669	22	10746	12	9539	18	10162	6												
17	BH-411036	9787	63	2396	28	786	68	5286	68	6223	25	6833	68	6019	48	7680	32	7511	53	6853	50	6685	13	6711	29	5675	45	6357	38	8484	48	8174	44	8310	23												
18	KH-7647	13347	24	2567	19	1946	28	7647	24	8248	4	8417	20	5446	67	8898	18	6112	72	7424	28	6651	17	6880	27	7074	21	6869	15	7870	57	10476	7	7585	33												
19	KMH-25K45	18268	1	1372	51	1700	35	9984	2	4929	47	7354	56	6887	9	10267	10	6486	64	7185	38	6806	8	7654	11	5137	49	6532	29	10049	19	10751	4	6735	55												
20	KMH-7148	16348	4	1136	67	1926	30	9137	9	1971	74	7936	39	6113	44	10608	7	6911	61	6708	54	5695	68	7945	6	6740	24	6793	19	11425	7	9259	24	5586	70												
21	KMH-3110	15702	6	1040	72	3454	5	9578	3	6352	24	7815	45	6029	47	9600	14	6355	67	7230	36	5931	64	7716	10	5041	50	6230	42	12823	1	9936	11	9257	14												
22	KMH-6681	15158	9	1690	42	728	71	7943	19	5652	37	7215	62	6150	43	9906	12	12191	5	8223	10	4815	75	7988	5	6605	29	6470	32	9934	22	10634	5	9071	15												
23	QMH-2966	14376	16	2480	23	2659	12	8517	11	3581	67	8690	16	5964	53	6641	46	10862	20	7148	40	7034	5	7091	21	4877	53	6334	39	9761	24	7868	47	5837	66												
24	EHL 111	10424	58	2440	25	1044	56	5734	62	4580	55	8296	24	7526	2	5812	57	9218	31	7087	43	7083	3	5903	52	7511	16	6832	17	8329	50	6953	64	6245	62												
25	EHL 2211	11815	39	2152	31	2557	14	7186	34	8219	5	8330	22	6363	33	11412	3	8381	45	8541	6	6228	47	7822	7	8393	4	7481	2	10896	10	9674	16	8429	21												
26	EHL 2311	10599	54	1300	54	1256	48	5928	57	3981	62	8461	18	5469	63	3155	75	11496	11	6512	58	6943	7	5718	64	5629	46	6097	49	7855	58	6913	66	6755	54												
27	NMH-1277	10062	62	3333	2	1578	39	5820	59	7842	7	7975	36	6705	12	6794	44	10204	23	7904	17	6693	11	8657	2	3063	72	6138	47	9263	33	10775	3	8973	16												
28	DAS MH-302	11793	40	1264	56	1092	53	6443	47	6110	27	7922	40	5537	59	9869	13	9917	28	7871	20	5969	61	6530	38	8285	6	6928	12	9467	31	9414	21	8638	19												





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GRAIN YIELD (kg/ha) AT 15% MOISTURE																																			
SI No	PEDIGREE	ZN 1												ZN 2						ZN 3															
		BAJA R	BARA R	KANG R	MEAN R	DELH R	KANP R	KARN R	LUDH R	PANT R	MEAN R	DHOL R	RANC R	VARA R	MEAN R	ARBH R	COIM R	HYDE R																	
62	DHM 117	12051	35	1476	45	1012	57	6532	43	6441	20	6687	71	6272	36	6003	55	9166	33	6914	48	6592	22	6407	41	2577	75	5192	70	10139	18	7040	60	7807	30
63	QMH-2910	11020	49	2475	24	1937	29	6478	46	6717	18	8320	23	6304	35	4949	66	6263	68	6510	59	6658	16	5736	61	2583	74	4992	73	8244	53	7036	62	6018	63
64	BH-411001	11267	47	2721	16	820	66	6043	55	4258	59	9957	1	5478	62	3980	71	8356	46	6406	61	6431	33	8302	3	4092	65	6275	41	7677	62	6922	65	6966	47
65	Safal X-260	11632	43	1403	47	1359	45	6496	45	6410	21	7258	61	6224	38	7288	38	7596	52	6955	47	5982	60	5503	69	6626	27	6037	52	8403	49	9688	15	6707	57
66	KNMH 4201	12486	33	2691	17	1998	27	7242	32	6895	16	9345	6	5381	68	7194	39	6878	62	7139	41	6391	35	7259	20	7432	17	7027	7	9507	28	9078	27	6376	61
67	KNMH 4202	11060	48	935	75	2181	21	6620	40	4947	46	9349	5	5245	70	4743	67	5919	74	6040	69	6458	29	5901	53	3531	67	5297	68	8953	38	8922	29	5104	73
68	KNMH 4203	11779	41	2866	9	811	67	6295	51	3692	66	7150	64	6555	22	5339	62	6228	70	5793	72	6148	52	6624	33	6678	26	6483	31	8638	44	7812	49	5082	74
69	KNMH 4204	9499	67	2935	7	730	70	5114	70	4386	57	8875	15	6441	30	4652	68	5579	75	5987	70	6569	25	4963	73	3299	69	4943	74	8759	41	7878	46	10334	4
70	KNMH 4205	14190	17	1243	60	925	59	7557	27	5309	39	7788	46	5920	56	8058	29	6472	65	6709	53	5861	65	7498	16	4435	59	5932	55	9683	26	9540	17	8042	25
CHECKS																																			
71	BIO 9637	14638	12	1251	59	1813	33	8226	14	5904	34	8959	10	6523	27	7997	30	9311	30	7739	23	6416	34	6536	37	6268	36	6407	36	9994	21	6419	72	8615	20
72	HM 8	9375	69	1022	73	561	75	4968	71	4715	54	7353	57	5449	66	5457	60	11334	12	6862	49	6580	24	7584	15	6190	37	6785	20	6801	67	8583	37	6820	49
73	HM 9	10371	59	1318	53	871	62	5621	65	4959	45	5106	75	7491	3	5478	59	12419	3	7091	42	6357	39	4915	75	5894	42	5722	62	7299	65	7846	48	6399	60
74	HM 10	11562	44	2999	6	2773	10	7167	36	3907	63	5910	74	5497	61	4516	70	8235	47	5613	75	6061	58	5409	70	4272	62	5248	69	8509	47	8386	39	6768	53
75	PMH 4	11371	45	1869	36	1189	50	6280	52	8325	3	6349	72	7158	4	8832	20	7475	54	7628	24	6703	10	5543	68	10228	1	7492	1	8818	40	9944	10	9751	9
Location Mean		12169		1952		1791		6980		5532		7943		6220		7396		8960		7210		6319		6586		5948		6285		9012		8436		7598	
Mean Stand		24		25		23		23		36		36		37		38		33		36		28		32		38		33		36		32		36	
C.D. (5%)		1989		1789		467		1228		1035		883		291		1324		2789		1265		930		2092		2010		1677		2045		700		1705	
C.V. (%)		10.13		45.98		13.08		-		11.6		6.89		2.9		11.1		15.62		-		9.12		15.94		16.95		-		14.06		5.14		13.91	
F (Prob)		0		0.089		0		0		0		0		0		0		0		0		0		0.062		0		0		0		0		0	
Plot Size		3.6		2.5		2.88		-		6		4.8		6		5.46		6		-		4.8		5.6		4.8		-		6		4.8		6	
AGRONOMY DATA																																			
Sowing Date		21-06		26-07		11-07		-		6-07		-		4-07		30-06		5-07		-		29-06		13-07		15-07		-		28-07		5-07		1-07	
Harvest Date		30-10		25-12		8-10		-		21-10		-		15-10		11-10		22-10		-		15-10		-		21-10		-		13-12		30-10		29-10	
Irrigation Nos		3		-		-		-		2		-		5		3		1		-		2		-		-		-		6		10		1	
Fertilizer Applied N		120		80		120		-		120		120		150		125		120		-		120		120		120		-		150		150		200	
Fertilizer Applied P		60		60		60		-		60		60		60		60		60		-		60		60		60		-		75		75		60	
Fertilizer Applied K		40		40		40		-		40		50		60		-		40		-		40		40		40		-		37.5		75		50	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 46.0 %: BHIL 31.5 %

## B44

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
SI		ZN 4																ZN 5		OV'L							
No	PEDIGREE	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN	R
1	Meghan-G	12079	34	5797	13	10136	16	6208	9	8694	15	7623	14	3503	50	10745	13	4976	37	5261	17	6004	49	6570	31	7725	15
2	FMH-603	15750	2	4395	36	9074	33	4665	44	9389	5	6163	53	4100	28	9124	38	9256	4	2750	70	6885	14	7106	12	7985	10
3	Rasi-3033	13168	23	5847	11	9125	31	4689	41	8909	13	6988	28	3769	41	8250	52	5344	31	4987	23	6871	18	6244	39	7700	19
4	Rasi-588	11129	47	5207	22	9067	34	4983	29	7923	39	5927	61	3732	43	8478	47	5196	33	4434	35	5203	62	5707	54	6640	49
5	AMH-455	14597	3	4888	25	9522	23	5793	14	8653	17	6020	59	4316	23	10107	23	2890	68	2845	67	7174	4	6101	41	7307	33
6	NMH-1281	8746	66	5888	10	10706	7	4822	37	8526	21	7732	10	3898	35	9952	27	5946	22	4706	27	6882	16	6882	17	7460	26
7	NMH-1276	13234	21	3284	57	10832	6	4904	33	8579	20	7748	8	4937	9	9219	37	7556	12	4615	28	6530	27	7198	9	7960	12
8	Bisco X 2711	8709	68	3926	46	10044	18	6151	10	7992	32	7596	15	3814	39	10406	16	2814	69	5109	21	6141	44	6154	40	7379	28
9	NMH 1588	12037	36	4057	43	10367	14	2918	72	7709	44	7413	18	4559	18	10604	14	4391	51	3660	50	6938	13	6781	20	6952	43
10	TI8334	12918	25	7159	2	9630	21	5332	24	8739	14	7069	24	4694	13	11804	5	3320	63	4515	33	6259	38	6629	28	7668	21
11	IJ8533	12517	30	5792	14	7859	53	6580	4	9287	7	8438	1	5916	1	11751	6	9011	6	5460	13	6794	20	8382	1	8548	1
12	DKC9108	11030	48	5549	17	8364	49	5106	26	6950	59	6491	45	3748	42	7889	59	6285	20	3388	56	4779	68	5839	51	6561	51
13	VAMH 08014	12512	31	5408	20	11221	3	6370	6	9105	10	7550	16	1975	74	11206	9	5135	34	5445	14	6317	37	6437	33	7686	20
14	JKMH 4511	11348	44	4470	32	8364	48	3400	64	7399	47	6239	50	4603	16	8725	45	3196	65	3792	47	7276	2	6008	43	6813	44
15	S6850	14486	4	6478	3	10430	12	8200	2	10063	1	6868	32	4629	15	11246	8	4979	36	6395	5	6875	17	6919	16	8401	3
16	S6790	16906	1	5907	9	10623	8	6242	7	10018	2	7309	20	4243	25	12721	1	2612	71	4857	25	6550	25	6687	24	8455	2
17	BH-411036	13734	11	4087	42	9020	35	4369	51	8025	31	6565	42	4172	26	10337	17	4863	39	4378	36	7137	8	6615	29	6962	42
18	KH-7647	14072	8	5828	12	9290	27	5726	16	8692	16	7183	22	4078	29	9837	30	5431	30	6207	7	7128	9	6731	22	7615	23
19	KMH-25K45	9610	58	4766	27	10431	11	5825	13	8310	28	8415	2	3481	52	10298	18	8689	7	7269	1	7048	11	7586	4	7799	13
20	KMH-7148	6022	75	4939	24	11225	2	5985	12	7777	42	8230	4	4066	30	10579	15	9058	5	5732	9	2819	75	6950	15	7336	31
21	KMH-3110	8920	63	4862	26	9642	20	4931	31	8624	18	6633	39	2852	72	11925	4	7737	10	4001	44	4231	72	6676	25	7625	22
22	KMH-6681	13966	9	5495	18	9191	29	5791	15	9154	9	7495	17	3555	48	11976	3	9920	1	5534	12	6251	39	7839	3	8168	6
23	QMH-2966	8302	72	4395	37	8992	37	4433	50	7084	54	7636	12	3622	45	10934	11	5700	26	4197	43	5442	60	6667	26	7032	39
24	EHL 111	11256	45	3506	52	8823	43	4286	56	7057	55	6926	30	4150	27	7516	61	6833	15	4539	31	6884	15	6462	32	6777	45
25	EHL 2211	13832	10	7386	1	9753	19	6223	8	9456	4	8321	3	4775	12	10202	19	4653	44	5128	20	6414	35	6873	18	8185	4
26	EHL 2311	9058	62	4682	28	7561	61	2933	70	6537	66	6439	47	4868	10	8048	56	4509	47	2893	65	5843	54	5941	47	6281	59
27	NMH-1277	13575	14	3509	50	11324	1	6668	3	9155	8	7108	23	4400	20	10164	21	7521	13	4497	34	6598	24	7158	10	7702	18
28	DAS MH-302	13710	12	5917	7	10995	5	5547	18	9098	11	6982	29	3450	55	11060	10	5776	23	3570	51	6803	19	6814	19	7763	14

## B45

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE																										
	No	PEDIGREE	ZN 4												ZN 5				OV'L								
			KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN
29	PRO 387	13564	15	5622	16	10411	13	8211	1	9942	3	7630	13	3924	33	10077	24	4424	48	6077	8	7173	5	6646	27	7977	11
30	BIO 719	12389	33	5911	8	10604	9	4859	35	8505	23	7765	7	3828	37	11425	7	5707	25	5587	10	6460	32	7037	14	8051	8
31	DAS MH-303	9624	57	3671	48	7915	52	3849	61	6806	62	5540	71	3443	56	6862	65	4123	54	3117	60	6502	30	5294	64	6383	57
32	X35B403	13493	16	4375	39	8970	38	5141	25	8337	27	6807	34	5449	3	9762	33	7088	14	6680	3	7141	7	7249	8	8148	7
33	CMH 10-529	10819	51	6415	4	9362	24	3954	59	7970	34	7695	11	4005	31	8827	43	7686	11	4836	26	7401	1	7123	11	7390	27
34	BAUMH-2011-04	8736	67	1667	75	-		3362	65	5182	74	4447	74	3817	38	4436	75	3529	59	2773	69	4380	70	4122	74	5069	74
35	BAUMH-2011-13	8378	71	1776	74	6221	69	2281	74	5739	72	4441	75	3067	65	6257	69	3325	62	4354	37	4234	71	4265	72	5602	71
36	LTH-21	11714	41	5034	23	10073	17	4969	30	7797	41	7775	6	5720	2	12085	2	8643	8	3743	49	5544	58	7953	2	7602	25
37	CMH 10-473	12978	24	4469	33	10184	15	4916	32	9309	6	7214	21	3118	64	9851	29	9640	2	6472	4	7231	3	7411	6	8181	5
38	X35B410	14073	7	6285	5	8759	44	4472	48	9054	12	7046	26	5097	6	10113	22	9391	3	5385	15	6057	48	7541	5	8002	9
39	REH 2011-03	12454	32	4442	35	9234	28	4332	54	7952	36	6710	37	3520	49	8137	55	4748	41	4334	38	6475	31	5918	48	7090	36
40	EC-3164	9570	60	3065	62	7188	65	3024	69	6659	64	5628	68	3067	66	8224	53	4573	46	3260	59	6246	40	5547	60	6232	62
41	CMH 10-485	9716	56	2829	68	7412	62	4835	36	7951	37	6571	41	4492	19	8936	40	4984	35	3499	52	6693	21	6335	37	6973	40
42	DH-12-01	9341	61	3681	47	5525	71	4443	49	6870	61	5887	63	4341	21	6401	67	3541	57	2889	66	5906	52	5215	65	5954	69
43	CMH 10-486	7643	74	3079	61	5326	72	2070	75	4976	75	4688	73	2859	71	5328	72	2069	73	-		4483	69	3885	75	4836	75
44	REH 2011-4	11009	49	4393	38	11132	4	5464	22	8366	25	6853	33	3635	44	8407	50	6545	17	3321	57	6527	29	6393	36	7313	32
45	AH 1209	11211	46	2340	71	4776	74	2922	71	5815	71	5613	69	3012	67	4725	74	3058	66	2381	73	4990	66	4279	71	5413	72
46	AH 1210	8387	70	2058	73	5177	73	3303	67	5488	73	5359	72	3246	59	4804	73	3678	56	2896	64	4116	73	4241	73	5280	73
47	JH 31583	14193	6	3003	65	6462	68	4235	58	7143	52	6799	35	4256	24	9010	39	6549	16	4235	42	7019	12	6727	23	6972	41
48	JH 31598	10628	53	5221	21	7157	66	5518	20	7860	40	6196	51	4577	17	10900	12	8532	9	6271	6	5018	65	7045	13	7609	24
49	JH 31599	11708	42	5689	15	9005	36	6378	5	8376	24	7413	19	3835	36	9783	32	5617	28	6902	2	7083	10	6746	21	7706	17
50	HKH 334	14442	5	3119	60	7562	60	3311	66	7580	45	5861	64	5013	8	7323	63	5654	27	3295	58	5512	59	5873	50	6696	47
51	HKH 335	11804	39	3940	45	7647	58	4668	43	7286	50	6558	43	3614	46	8918	41	4638	45	3811	46	5702	57	5886	49	6483	55
52	HKH 336	8539	69	3271	58	6520	67	5358	23	6102	69	5842	66	3491	51	6119	70	4423	49	2835	68	6078	46	5190	66	5765	70
53	Bio 9637 (Filler )	13278	20	4218	41	10508	10	4269	57	8111	29	7039	27	3169	62	8415	49	4968	38	5347	16	6667	22	6052	42	7355	30
54	HM-4 (Filler)	8248	73	2997	66	7781	56	3149	68	5980	70	6068	56	2899	70	5472	71	3531	58	2721	71	5064	63	4607	69	6122	66
55	Synthetics-1	8781	65	4493	31	8300	50	4320	55	7031	57	5843	65	4804	11	7477	62	1818	74	3451	54	7172	6	5423	61	6425	56
56	MMH 12-4	11778	40	3339	56	7372	63	2751	73	6471	67	5665	67	4643	14	8890	42	3481	61	4286	41	5754	56	5687	55	6205	63
57	MMH 12-5	11876	38	3003	64	7842	54	5580	17	6984	58	6124	54	3793	40	7977	58	4195	52	4300	40	5832	55	5584	59	6584	50
58	MMH 12-6	13186	22	4616	30	9160	30	5490	21	8356	26	6787	36	3563	47	9588	35	3026	67	5163	19	5057	64	5604	58	7167	35
59	MMH 12-7	11380	43	5409	19	8883	41	4784	39	7135	53	5993	60	3221	60	7801	60	3845	55	5064	22	5866	53	5345	63	6503	53
60	MMH 12-8	8915	64	2687	69	7685	57	4362	52	6280	68	6042	58	3935	32	8729	44	3496	60	2240	74	5927	51	5626	57	6107	67
61	VARANASI H12-1	12077	35	2844	67	7834	55	5038	27	7711	43	6891	31	4319	22	9997	26	4734	42	4532	32	6074	47	6403	35	7087	37

## B46

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
SI		ZN 4																ZN 5		OV'L							
No	PEDIGREE	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN	R
62	DHM 117	13460	17	3386	54	9295	26	4345	53	7925	38	7057	25	3174	61	10178	20	4157	53	4583	29	5376	61	5988	45	6756	46
63	QMH-2910	13340	18	3368	55	8487	46	4717	40	7316	49	5921	62	3406	57	6491	66	2595	72	2473	72	3958	74	4474	70	6094	68
64	BH-411001	9760	55	3065	63	8563	45	4524	47	6782	63	5565	70	3152	63	7979	57	4404	50	3440	55	4805	67	5181	67	6196	64
65	Safal X-260	12028	37	3218	59	6184	70	4569	45	7257	51	6432	48	3460	53	8259	51	5725	24	3758	48	6146	43	6005	44	6668	48
66	KNMH 4201	13624	13	4639	29	9554	22	3568	62	8050	30	6517	44	5038	7	8469	48	4753	40	3044	61	6460	33	6247	38	7220	34
67	KNMH 4202	12909	26	2231	72	8449	47	5530	19	7443	46	6468	46	5212	5	8648	46	6393	19	4546	30	6150	42	6574	30	6559	52
68	KNMH 4203	10648	52	3455	53	8848	42	3878	60	6909	60	6173	52	2749	73	7016	64	6168	21	3863	45	6140	45	5649	56	6255	60
69	KNMH 4204	12657	27	2476	70	8923	39	4680	42	7958	35	6045	57	2951	69	9735	34	1361	75	3019	62	6648	23	5348	62	6247	61
70	KNMH 4205	12531	28	5973	6	9360	25	4541	46	8524	22	6639	38	1961	75	9927	28	4676	43	4883	24	6547	26	5950	46	7085	38
CHECKS																											
71	BIO 9637	12527	29	4349	40	9102	32	4784	38	7970	33	7732	9	3399	58	9793	31	5233	32	5564	11	5994	50	6430	34	7378	29
72	HM 8	9570	59	3613	49	8886	40	4991	28	7038	56	6119	55	3001	68	8162	54	5463	29	3490	53	6337	36	5816	52	6497	54
73	HM 9	10019	54	3507	51	7241	64	3546	63	6551	65	6630	40	3457	54	6379	68	3200	64	4318	39	6153	41	5164	68	6161	65
74	HM 10	10965	50	4446	34	7595	59	4884	34	7365	48	6350	49	3914	34	9231	36	2771	70	2921	63	6529	28	5759	53	6295	58
75	PMH 4	13329	19	3993	44	8214	51	6050	11	8586	19	8028	5	5395	4	10060	25	6522	18	5204	18	6456	34	7292	7	7715	16
	Location Mean	11607		4321		8761		4791		7790		6688		3906		9020		5230		4342		6095		6188		7015	
	Mean Stand	30		39		33		26		33		38		31		37		17		15		31		31		32	
	C.D. (5%)	1457		1163		957		988		1288		1159		1192		618		1366		2724		653		998		1264	
	C.V. (%)	7.78		16.67		6.77		12.78		-		10.74		18.91		4.24		16.19		31.46		6.64		-		-	
	F (Prob)	0		0		0		0				0		0		0		0		0.011		0					
	Plot Size	4.8		6		5.6		4.8		-		6		4.8		6		2.4		2.4		4.8		-		-	
AGRONOMY DATA																											
	Sowing Date	27-06		12-07		20-07		4-07		-		10-07		12-07		27-06		7-07		18-07		3-07		-		-	
	Harvest Date	15-10		28-11		5-12		5-11		-		-		14-10		1-11		10-10		-		14-10		-		-	
	Irrigation Nos	-		-		8		10		-		-		-		-		-		-		2		-		-	
	Fertilizer Applied N	200		120		150		200		-		120		150		120		100		120		90		-		-	
	Fertilizer Applied P	60		60		75		75		-		60		80		60		50		60		60		-		-	
	Fertilizer Applied K	50		40		40		75		-		40		40		40		-		-		-		-		-	

TABLE No. 2 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637																
	ZN 1					ZN 2					ZN 3						
	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
1 Meghan-G	-	127.8	-	-	10.8	7	-	5.7	5.5	4.4	-	8.4	26.4	9.7	2	51.5	-
2 FMH-603	-	-	-	-	-	9.4	0.4	18.8	11	4.6	4.1	-	24.4	7.7	8.3	63.1	22.4
3 Rasi-3033	-	8.2	-	-	30.9	-	18.5	2.8	19.9	10.7	-	-	36.1	6.4	14.4	44.8	2.3
4 Rasi-588	-	-	-	-	1.1	2	-	-	-	-	-	-	-	-	-	34.6	-
5 AMH-455	-	-	24.3	-	7.7	-	-	33.4	-	-	8.7	13.4	-	2.8	-	36	-
6 NMH-1281	-	128.5	-	-	0.5	-	-	-	7.6	-	-	-	3.1	-	24.6	9.6	16.5
7 NMH-1276	3.5	51.1	116.9	16	3.9	-	-	9.9	25.2	1.5	0.6	-	28.9	7.7	-	48.3	9.4
8 Bisco X 2711	-	106.1	-	-	28.6	-	1.6	8.6	7	5.2	-	-	29.9	1.7	-	38.1	12.2
9 NMH 1588	-	87.2	19.1	-	-	-	-	-	38.6	-	-	0.5	-	-	-	23.8	-
10 TI8334	-	118.1	19.2	-	-	-	-	28.2	17.1	6.2	-	-	33.7	7.1	5.2	19	-
11 IJ8533	5.5	148	73.5	13	44.2	-	-	44.6	-	10.1	3.4	2.4	5.5	3.7	26.6	45.9	18.9
12 DKC9108	-	105.1	-	-	-	-	-	-	-	-	21.6	-	-	-	-	14.7	-
13 VAMH 08014	-	47.3	45.1	-	8	-	-	10.9	-	-	-	1.5	40.4	13	0.4	37.4	8.7
14 JKMH 4511	-	55.8	-	-	2	-	2.2	-	-	-	-	-	15.8	0.9	-	14.1	-
15 S6850	-	91.5	180	14.9	20.9	-	-	34.1	6.7	7.2	-	7.8	4	0.9	10.1	52.4	16.8
16 S6790	11.6	61.8	20.8	12.6	45.7	-	-	47.5	-	13.5	2.9	6.7	2.6	4.1	7.5	48.6	18
17 BH-411036	-	91.5	-	-	5.4	-	-	-	-	-	4.2	2.7	-	-	-	27.3	-
18 KH-7647	-	105.2	7.4	-	39.7	-	-	11.3	-	-	3.7	5.3	12.9	7.2	-	63.2	-
19 KMH-25K45	24.8	9.7	-	21.4	-	-	5.6	28.4	-	-	6.1	17.1	-	2	0.5	67.5	-
20 KMH-7148	11.7	-	6.3	11.1	-	-	-	32.7	-	-	-	21.5	7.5	6	14.3	44.2	-
21 KMH-3110	7.3	-	90.6	16.4	7.6	-	-	20.1	-	-	-	18.1	-	-	28.3	54.8	7.5
22 KMH-6681	3.5	35.1	-	-	-	-	-	23.9	30.9	6.3	-	22.2	5.4	1	-	65.7	5.3
23 QMH-2966	-	98.2	46.7	3.5	-	-	-	-	16.6	-	9.6	8.5	-	-	-	22.6	-
24 EHL 111	-	95	-	-	-	-	15.4	-	-	-	10.4	-	19.8	6.6	-	8.3	-
25 EHL 2211	-	72	41	-	39.2	-	-	42.7	-	10.4	-	19.7	33.9	16.8	9	50.7	-
26 EHL 2311	-	3.9	-	-	-	-	-	-	23.5	-	8.2	-	-	-	-	7.7	-
27 NMH-1277	-	166.4	-	-	32.8	-	2.8	-	9.6	2.1	4.3	32.5	-	-	-	67.9	4.2
28 DAS MH-302	-	1	-	-	3.5	-	-	23.4	6.5	1.7	-	-	32.2	8.1	-	46.6	0.3

## B48

TABLE No. 2 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637																
	ZN 1					ZN 2					ZN 3						
	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
29 PRO 387	22.8	-	-	13.4	0.1	-	-	-	17.6	-	0.8	1.9	-	-	27.6	47.9	10.7
30 BIO 719	-	-	48.7	2.5	19.5	-	6.5	29.1	27.3	14.3	-	16.3	23.9	11	9.1	9.9	-
31 DAS MH-303	-	11.6	14.5	-	-	3.5	2.3	-	10.2	-	-	-	-	-	-	9.8	-
32 X35B403	5.9	124	165	23.4	38.6	-	4.8	6.3	26.4	14.2	-	26.6	-	4.9	-	41.9	-
33 CMH 10-529	-	38.8	-	-	-	-	0.4	2.9	24.1	0.6	4.2	-	-	-	-	29.1	-
34 BAUMH-2011-04	-	38.6	-	-	-	-	1.8	-	-	-	-	0.5	-	-	-	-	-
35 BAUMH-2011-13	-	101.8	2.6	-	-	-	0	-	-	-	-	-	2.2	-	-	30	-
36 LTH-21	13	155.4	-	5.7	-	-	-	12.7	-	-	-	-	9.3	-	-	5.8	-
37 CMH 10-473	-	1.1	-	-	32.7	-	-	32.1	30.5	15.9	-	-	7.2	-	19	51.5	27.6
38 X35B410	0.1	0.9	19.2	2.2	14	-	9.6	40.5	-	3.5	-	12.2	-	-	7.2	62.3	0.4
39 REH 2011-03	-	-	15.9	-	1.7	-	-	-	-	-	-	49	-	15.6	-	38	-
40 EC-3164	-	10.7	-	-	-	-	-	-	-	-	-	0	3.4	0.9	-	38.7	-
41 CMH 10-485	-	129	-	-	0.2	-	-	-	-	-	-	-	-	-	-	78	20.8
42 DH-12-01	-	46.2	-	-	-	-	-	-	-	-	10.4	-	-	-	-	65	-
43 CMH 10-486	-	177.7	-	-	-	-	-	-	16.7	-	-	-	-	-	-	-	-
44 REH 2011-4	-	29.8	32.2	-	-	-	1.4	-	34.4	-	0.3	-	-	-	-	79.9	-
45 AH 1209	-	52.5	-	-	-	-	-	-	17.9	-	0.6	-	-	-	-	6.2	-
46 AH 1210	-	133.3	-	-	-	-	6.4	-	-	-	0.7	-	-	-	-	-	-
47 JH 31583	-	1	39	-	29.5	-	-	-	-	-	4.3	-	16.8	3.8	-	18.2	-
48 JH 31598	-	-	130.9	-	30.7	-	9.2	15.4	-	2.1	5.9	6.2	25.4	12.4	4.3	28.4	-
49 JH 31599	-	-	90.5	-	26.2	-	0.1	10.3	20.4	8.2	-	-	31.2	8.5	3.2	33	-
50 HKH 334	-	11.7	-	-	-	-	1.8	-	-	-	-	-	11.5	-	-	36.1	-
51 HKH 335	-	124.8	-	-	-	-	-	-	-	-	2.8	-	30.6	2.6	-	28.4	-
52 HKH 336	-	39	36.7	-	-	-	-	-	-	-	-	3.6	-	-	-	2.2	-
53 Bio 9637 (Filler)	-	86.5	-	-	-	-	-	-	21.4	1.9	2.8	19.5	2.3	8.3	-	20.5	-
54 HM-4 (Filler)	-	-	-	-	-	3.4	-	-	32.9	2.3	2	-	15.4	2.2	-	21.2	-
55 Synthetics-1	-	158.6	-	-	-	5.8	-	-	9.3	-	-	12.3	-	-	-	11.9	-
56 MMH 12-4	-	93	5.3	-	-	-	-	-	-	-	10.4	16.2	-	-	-	6.7	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637																
		ZN 1						ZN 2				ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
57	MMH 12-5	-	31.4	56.4	-	-	-	0.9	-	-	-	-	16.7	-	3.8	-	5.5	-
58	MMH 12-6	-	105.1	77.5	-	-	-	-	7.8	-	-	-	18.3	20.9	9.7	-	44	-
59	MMH 12-7	-	17.1	20.4	-	-	-	5.5	-	-	-	2.6	7.2	-	-	-	9.6	-
60	MMH 12-8	-	-	-	-	-	-	0.9	-	-	-	-	-	-	-	-	12.1	-
61	VARANASI H12-1	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	39.1	-
62	DHM 117	-	18	-	-	9.1	-	-	-	-	-	2.7	-	-	-	1.4	9.7	-
63	QMH-2910	-	97.8	6.8	-	13.8	-	-	-	-	-	3.8	-	-	-	-	9.6	-
64	BH-411001	-	117.5	-	-	-	11.1	-	-	-	-	0.2	27	-	-	-	7.8	-
65	Safal X-260	-	12.1	-	-	8.6	-	-	-	-	-	-	-	5.7	-	-	50.9	-
66	KNMH 4201	-	115.1	10.2	-	16.8	4.3	-	-	-	-	-	11.1	18.6	9.7	-	41.4	-
67	KNMH 4202	-	-	20.3	-	-	4.4	-	-	-	-	0.7	-	-	-	-	39	-
68	KNMH 4203	-	129.1	-	-	-	-	0.5	-	-	-	-	1.3	6.5	1.2	-	21.7	-
69	KNMH 4204	-	134.6	-	-	-	-	-	-	-	-	2.4	-	-	-	-	22.7	20
70	KNMH 4205	-	-	-	-	-	-	-	0.8	-	-	-	14.7	-	-	-	48.6	-
	CHECKS																	
71	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	HM 8	-	-	-	-	-	-	-	-	21.7	-	2.6	16	-	5.9	-	33.7	-
73	HM 9	-	5.4	-	-	-	-	14.8	-	33.4	-	-	-	-	-	-	22.2	-
74	HM 10	-	139.7	53	-	-	-	-	-	-	-	-	-	-	-	-	30.6	-
75	PMH 4	-	49.4	-	-	41	-	9.7	10.5	-	-	4.5	-	63.2	16.9	-	54.9	13.2

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): BARA 46.0 %: BHIL 31.5 %

## B50

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637												OV'L MEAN
		ZN 4										ZN 5		
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	
1	Meghan-G	-	33.3	11.4	29.8	9.1	-	3.1	9.7	-	-	0.2	2.2	4.7
2	FMH-603	25.7	1.1	-	-	17.8	-	20.6	-	76.9	-	14.9	10.5	8.2
3	Rasi-3033	5.1	34.4	0.2	-	11.8	-	10.9	-	2.1	-	14.6	-	4.4
4	Rasi-588	-	19.7	-	4.2	-	-	9.8	-	-	-	-	-	-
5	AMH-455	16.5	12.4	4.6	21.1	8.6	-	27	3.2	-	-	19.7	-	-
6	NMH-1281	-	35.4	17.6	0.8	7	-	14.7	1.6	13.6	-	14.8	7	1.1
7	NMH-1276	5.6	-	19	2.5	7.6	0.2	45.3	-	44.4	-	8.9	11.9	7.9
8	Bisco X 2711	-	-	10.3	28.6	0.3	-	12.2	6.3	-	-	2.5	-	0
9	NMH 1588	-	-	13.9	-	-	-	34.1	8.3	-	-	15.8	5.5	-
10	TI8334	3.1	64.6	5.8	11.4	9.6	-	38.1	20.5	-	-	4.4	3.1	3.9
11	IJ8533	-	33.2	-	37.6	16.5	9.1	74.1	20	72.2	-	13.3	30.4	15.9
12	DKC9108	-	27.6	-	6.7	-	-	10.3	-	20.1	-	-	-	-
13	VAMH 08014	-	24.3	23.3	33.1	14.2	-	-	14.4	-	-	5.4	0.1	4.2
14	JKMH 4511	-	2.8	-	-	-	-	35.4	-	-	-	21.4	-	-
15	S6850	15.6	48.9	14.6	71.4	26.3	-	36.2	14.8	-	14.9	14.7	7.6	13.9
16	S6790	35	35.8	16.7	30.5	25.7	-	24.8	29.9	-	-	9.3	4	14.6
17	BH-411036	9.6	-	-	-	0.7	-	22.7	5.6	-	-	19.1	2.9	-
18	KH-7647	12.3	34	2.1	19.7	9.1	-	20	0.4	3.8	11.6	18.9	4.7	3.2
19	KMH-25K45	-	9.6	14.6	21.8	4.3	8.8	2.4	5.2	66	30.6	17.6	18	5.7
20	KMH-7148	-	13.6	23.3	25.1	-	6.4	19.6	8	73.1	3	-	8.1	-
21	KMH-3110	-	11.8	5.9	3.1	8.2	-	-	21.8	47.9	-	-	3.8	3.3
22	KMH-6681	11.5	26.3	1	21	14.9	-	4.6	22.3	89.6	-	4.3	21.9	10.7
23	QMH-2966	-	1.1	-	-	-	-	6.6	11.7	8.9	-	-	3.7	-
24	EHL 111	-	-	-	-	-	-	22.1	-	30.6	-	14.9	0.5	-
25	EHL 2211	10.4	69.8	7.1	30.1	18.6	7.6	40.5	4.2	-	-	7	6.9	10.9
26	EHL 2311	-	7.7	-	-	-	-	43.2	-	-	-	-	-	-
27	NMH-1277	8.4	-	24.4	39.4	14.9	-	29.5	3.8	43.7	-	10.1	11.3	4.4
28	DAS MH-302	9.4	36.1	20.8	15.9	14.2	-	1.5	12.9	10.4	-	13.5	6	5.2



## B51

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637												OV'L MEAN
		ZN 4										ZN 5		
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
29	PRO 387	8.3	29.3	14.4	71.6	24.7	-	15.5	2.9	-	9.2	19.7	3.3	8.1
30	BIO 719	-	35.9	16.5	1.6	6.7	0.4	12.6	16.7	9.1	0.4	7.8	9.4	9.1
31	DAS MH-303	-	-	-	-	-	-	1.3	-	-	-	8.5	-	-
32	X35B403	7.7	0.6	-	7.5	4.6	-	60.3	-	35.5	20.1	19.1	12.7	10.4
33	CMH 10-529	-	47.5	2.9	-	-	-	17.8	-	46.9	-	23.5	10.8	0.2
34	BAUMH-2011-04	-	-	-	-	-	-	12.3	-	-	-	-	-	-
35	BAUMH-2011-13	-	-	-	-	-	-	-	-	-	-	-	-	-
36	LTH-21	-	15.8	10.7	3.9	-	0.5	68.3	23.4	65.2	-	-	23.7	3
37	CMH 10-473	3.6	2.8	11.9	2.8	16.8	-	-	0.6	84.2	16.3	20.6	15.3	10.9
38	X35B410	12.3	44.5	-	-	13.6	-	50	3.3	79.5	-	1.1	17.3	8.5
39	REH 2011-03	-	2.1	1.4	-	-	-	3.6	-	-	-	8	-	-
40	EC-3164	-	-	-	-	-	-	-	-	-	-	4.2	-	-
41	CMH 10-485	-	-	-	1.1	-	-	32.2	-	-	-	11.7	-	-
42	DH-12-01	-	-	-	-	-	-	27.7	-	-	-	-	-	-
43	CMH 10-486	-	-	-	-	-	-	-	-	-	-	-	-	-
44	REH 2011-4	-	1	22.3	14.2	5	-	7	-	25.1	-	8.9	-	-
45	AH 1209	-	-	-	-	-	-	-	-	-	-	-	-	-
46	AH 1210	-	-	-	-	-	-	-	-	-	-	-	-	-
47	JH 31583	13.3	-	-	-	-	-	25.2	-	25.2	-	17.1	4.6	-
48	JH 31598	-	20	-	15.3	-	-	34.7	11.3	63	12.7	-	9.6	3.1
49	JH 31599	-	30.8	-	33.3	5.1	-	12.8	-	7.3	24	18.2	4.9	4.5
50	HKH 334	15.3	-	-	-	-	-	47.5	-	8	-	-	-	-
51	HKH 335	-	-	-	-	-	-	6.3	-	-	-	-	-	-
52	HKH 336	-	-	-	12	-	-	2.7	-	-	-	1.4	-	-
53	Bio 9637 (Filler)	6	-	15.4	-	1.8	-	-	-	-	-	11.2	-	-
54	HM-4 (Filler)	-	-	-	-	-	-	-	-	-	-	-	-	-
55	Synthetics-1	-	3.3	-	-	-	-	41.3	-	-	-	19.6	-	-
56	MMH 12-4	-	-	-	-	-	-	36.6	-	-	-	-	-	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637											OV'L MEAN	
		ZN 4								ZN 5				
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	
57	MMH 12-5	-	-	-	16.6	-	-	11.6	-	-	-	-	-	-
58	MMH 12-6	5.3	6.1	0.6	14.8	4.8	-	4.8	-	-	-	-	-	-
59	MMH 12-7	-	24.4	-	-	-	-	-	-	-	-	-	-	-
60	MMH 12-8	-	-	-	-	-	-	15.8	-	-	-	-	-	-
61	VARANASI H12-1	-	-	-	5.3	-	-	27.1	2.1	-	-	1.3	-	-
62	DHM 117	7.5	-	2.1	-	-	-	-	3.9	-	-	-	-	-
63	QMH-2910	6.5	-	-	-	-	-	0.2	-	-	-	-	-	-
64	BH-411001	-	-	-	-	-	-	-	-	-	-	-	-	-
65	Safal X-260	-	-	-	-	-	-	1.8	-	9.4	-	2.5	-	-
66	KNMH 4201	8.8	6.7	5	-	1	-	48.2	-	-	-	7.8	-	-
67	KNMH 4202	3	-	-	15.6	-	-	53.3	-	22.2	-	2.6	2.2	-
68	KNMH 4203	-	-	-	-	-	-	-	-	17.9	-	2.4	-	-
69	KNMH 4204	1	-	-	-	-	-	-	-	-	-	10.9	-	-
70	KNMH 4205	0	37.3	2.8	-	7	-	-	1.4	-	-	9.2	-	-
	CHECKS													
71	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-
72	HM 8	-	-	-	4.3	-	-	-	-	4.4	-	5.7	-	-
73	HM 9	-	-	-	-	-	-	1.7	-	-	-	2.6	-	-
74	HM 10	-	2.2	-	2.1	-	-	15.2	-	-	-	8.9	-	-
75	PMH 4	6.4	-	-	26.5	7.7	3.8	58.7	2.7	24.6	-	7.7	13.4	4.6

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 46.0 %: BHIL 31.5 %

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
1	Meghan-G	45.7	178.9	100.9	48.9	38.7	30.4	9.6	54.9	-	17.7	-	-	28	3.6	49.9	13.3	-
2	FMH-603	28.2	19	116.4	33.1	-	33.3	20.2	74	-	18	1.5	-	25.9	1.7	59.2	22	54.6
3	Rasi-3033	27.6	32.5	4.1	26.3	64	8.6	41.9	50.6	-	24.8	-	-	37.8	0.4	68	8.3	29.2
4	Rasi-588	0.8	5.4	147.4	9	26.6	24.2	14.1	26.5	-	2.5	-	-	-	-	34.1	0.7	7.3
5	AMH-455	2.8	20.6	301.8	19.6	34.8	-	10.3	95.5	-	10.9	6	-	-	-	27.5	1.7	22.7
6	NMH-1281	35.3	179.8	196.7	44.4	25.9	9.3	14.2	26.2	-	8.2	-	-	4.4	-	83.1	-	47.1
7	NMH-1276	61.7	85	601.4	92.1	30.2	-	8.7	61.1	2.9	14.5	-	-	30.5	1.7	30.2	10.9	38.2
8	Bisco X 2711	54.6	152.3	54.7	54.6	61	6.8	21.6	59.1	-	18.7	-	-	31.6	-	26.3	3.3	41.7
9	NMH 1588	24.1	129.1	284.9	38.8	2.6	-	6.4	16.9	13.8	4.8	-	-	-	-	27.8	-	16.4
10	TI8334	12.4	167	285.5	27.8	22	20.7	-	87.8	-	19.7	-	-	35.4	1.2	54.7	-	17
11	IJ8533	64.8	203.6	461	87.1	80.6	11.1	9.5	111.8	-	24.2	0.8	-	6.9	-	86	9.2	50.2
12	DKC9108	47.1	151.1	195.9	55.5	21.5	10.1	17	20.8	-	-	18.6	-	-	-	-	-	-
13	VAMH 08014	39.6	80.4	369.1	58.2	35.2	5.6	18.9	62.6	-	4.2	-	-	42.2	6.7	47.6	2.7	37.4
14	JKMH 4511	13.6	90.7	163.6	22.1	27.7	8	22.3	35.9	-	6.4	-	-	17.2	-	44.6	-	3.4
15	S6850	47.4	134.5	805.3	90.2	51.4	16.1	-	96.5	-	21	-	-	5.3	-	61.8	14	47.6
16	S6790	74.2	98.1	290.7	86.4	82.4	20.8	9.7	116.1	-	28	0.3	-	3.9	-	58	11.1	49
17	BH-411036	4.4	134.5	40.2	6.4	32	-	10.5	40.7	-	-	1.6	-	-	-	24.7	-	21.8
18	KH-7647	42.4	151.2	247.2	53.9	74.9	14.5	-	63	-	8.2	1.1	-	14.3	1.2	15.7	22.1	11.2
19	KMH-25K45	94.9	34.3	203.2	101	4.5	0	26.4	88.1	-	4.7	3.4	0.9	-	-	47.8	25.3	-
20	KMH-7148	74.4	11.2	243.5	83.9	-	7.9	12.2	94.4	-	-	-	4.8	8.9	0.1	68	7.9	-
21	KMH-3110	67.5	1.7	516.1	92.8	34.7	6.3	10.6	75.9	-	5.4	-	1.7	-	-	88.5	15.8	35.7
22	KMH-6681	61.7	65.4	29.9	59.9	19.9	-	12.9	81.5	7.6	19.8	-	5.3	6.7	-	46.1	23.9	33
23	QMH-2966	53.3	142.7	374.3	71.5	-	18.2	9.4	21.7	-	4.2	6.9	-	-	-	43.5	-	-
24	EHL 111	11.2	138.8	86.2	15.4	-	12.8	38.1	6.5	-	3.3	7.6	-	21.3	0.7	22.5	-	-
25	EHL 2211	26	110.6	356	44.7	74.3	13.3	16.8	109.1	-	24.5	-	3.1	35.6	10.3	60.2	12.7	23.6
26	EHL 2311	13.1	27.2	124	19.3	-	15.1	0.4	-	1.4	-	5.5	-	-	-	15.5	-	-
27	NMH-1277	7.3	226.1	181.4	17.2	66.3	8.5	23.1	24.5	-	15.2	1.7	14.2	-	-	36.2	25.5	31.6
28	DAS MH-302	25.8	23.7	94.8	29.7	29.6	7.7	1.6	80.8	-	14.7	-	-	33.9	2.1	39.2	9.7	26.6

TABLE No. 2 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8																	
	ZN 1						ZN 2						ZN 3					
	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	
29 PRO 387	91.7	20.4	21.7	87.8	25.4	5.5	8.7	10.7	-	6.6	-	-	-	-	87.5	10.6	39.9	
30 BIO 719	51.1	10.3	380.8	69.7	49.7	9.4	27.5	89.2	4.6	28.9	-	0.3	25.4	4.8	60.3	-	14.6	
31 DAS MH-303	12.5	36.7	270.2	27	5.3	26.2	22.5	14.7	-	9.1	-	-	-	-	21.4	-	6.7	
32 X35B403	65.3	174.2	756.9	104.3	73.5	21.1	25.4	55.8	3.8	28.8	-	9.1	-	-	39.6	6.1	14	
33 CMH 10-529	34.3	70	95.4	37.8	9.8	0.8	20.2	50.7	2	13.5	1.6	-	-	-	41.3	-	7.6	
34 BAUMH-2011-04	-	69.7	57.5	-	-	11.1	21.8	-	-	-	-	-	-	-	-	-	2.6	
35 BAUMH-2011-13	20.8	147.1	231.9	32.7	-	8.9	19.7	-	-	-	-	-	3.5	-	-	-	-	
36 LTH-21	76.4	212.7	53.3	75.1	-	12.5	17.9	65.1	-	6.5	-	-	10.7	-	39.3	-	-	
37 CMH 10-473	37.9	23.8	150.2	44.2	66.2	8.2	16.3	93.6	7.2	30.7	-	-	8.6	-	74.9	13.3	61.2	
38 X35B410	56.3	23.6	285.5	69.2	42.7	2.2	31.2	106	-	16.7	-	-	-	-	57.6	21.4	26.8	
39 REH 2011-03	38.9	7.7	274.6	52.2	27.4	-	11.8	38.1	-	-	-	28.4	-	9.2	42.5	3.2	-	
40 EC-3164	11.6	35.5	128.4	18.2	0.9	-	0.1	11.5	-	-	-	-	4.7	-	8.4	3.8	9.8	
41 CMH 10-485	42.4	180.3	171.6	49.7	25.4	1.9	-	23	-	-	-	-	-	-	32.9	33.1	52.5	
42 DH-12-01	-	79	49.2	-	9.2	1.1	0.2	-	-	-	7.7	-	-	-	13.2	23.4	-	
43 CMH 10-486	-	240	36.5	-	-	-	-	29.9	-	2.6	-	-	-	-	-	-	7.7	
44 REH 2011-4	38	58.9	327.4	54.4	-	-	21.4	24.6	10.4	8.9	-	-	-	-	17.6	34.5	2.9	
45 AH 1209	-	86.7	93.7	-	-	1.9	1.1	-	-	-	-	-	-	-	0.2	-	-	
46 AH 1210	1.7	185.7	198.5	12.8	-	-	27.3	-	-	-	-	-	-	-	-	-	1.7	
47 JH 31583	9.9	23.7	349.5	29.1	62.1	11.6	-	46.4	-	7.7	1.7	-	18.3	-	13.7	-	-	
48 JH 31598	26.7	20.4	646.5	61.7	63.6	6.4	30.7	69.1	-	15.2	3.3	-	27	6.1	53.3	-	14.7	
49 JH 31599	17.2	10.3	516	45.3	58	7	19.8	61.7	-	22.1	-	-	32.9	2.5	51.7	-	2.6	
50 HKH 334	50.7	36.7	90	53	0.8	2.8	21.9	-	-	-	-	-	12.9	-	19.8	1.8	13.5	
51 HKH 335	13.3	175.2	58.1	15.9	4.2	-	13.9	14.3	-	-	0.2	-	32.3	-	12.9	-	3	
52 HKH 336	-	70.2	342.1	14.6	-	-	14.6	-	-	-	-	-	-	-	-	-	-	
53 Bio 9637 (Filler)	41.4	128.3	126.9	46.2	19	20.8	13.9	36.2	-	14.9	0.2	3	3.6	2.3	35.8	-	10.4	
54 HM-4 (Filler)	2.6	16.3	69	6.3	9.4	26	18.8	15.9	9.2	15.4	-	-	16.9	-	-	-	-	
55 Synthetics-1	15.8	216.7	28.9	16.5	4	29	3	13.4	-	6	-	-	-	-	26.9	-	10.1	
56 MMH 12-4	-	136.3	240.6	13.2	-	14.5	11	2	-	-	7.6	0.1	-	-	19.8	-	-	

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8																
		ZN 1				ZN 2				ZN 3								
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
57	MMH 12-5	8.8	60.9	405.5	31.2	-	13.3	20.8	38.1	-	2.2	-	0.6	-	-	21.8	-	-
58	MMH 12-6	38.3	151.1	473.8	62.9	-	12.7	-	58	-	-	-	2	22.5	3.5	38.4	7.7	8.3
59	MMH 12-7	32.2	43.4	289.2	46.7	1.6	2.9	26.3	7.4	-	-	0.1	-	-	-	-	-	-
60	MMH 12-8	55	18.3	212.6	63.9	-	7.3	20.7	-	-	-	-	-	-	-	15	-	-
61	VARANASI H12-1	54.2	-	160.5	60.2	6.3	12.5	21.8	36.7	-	6.3	-	-	-	-	35.2	4.1	18.1
62	DHM 117	28.6	44.5	80.5	31.5	36.6	-	15.1	10	-	0.8	0.2	-	-	-	49.1	-	14.5
63	QMH-2910	17.6	142.2	245.4	30.4	42.5	13.1	15.7	-	-	-	1.2	-	-	-	21.2	-	-
64	BH-411001	20.2	166.3	46.2	21.6	-	35.4	0.5	-	-	-	-	9.5	-	-	12.9	-	2.1
65	Safal X-260	24.1	37.3	142.5	30.8	36	-	14.2	33.5	-	1.4	-	-	7	-	23.6	12.9	-
66	KNMH 4201	33.2	163.3	256.4	45.8	46.2	27.1	-	31.8	-	4	-	-	20.1	3.6	39.8	5.8	-
67	KNMH 4202	18	-	289	33.3	4.9	27.1	-	-	-	-	-	-	-	-	31.6	4	-
68	KNMH 4203	25.6	180.5	44.7	26.7	-	-	20.3	-	-	-	-	-	7.9	-	27	-	-
69	KNMH 4204	1.3	187.2	30.3	3	-	20.7	18.2	-	-	-	-	-	-	-	28.8	-	51.5
70	KNMH 4205	51.4	21.6	65	52.1	12.6	5.9	8.6	47.7	-	-	-	-	-	-	42.4	11.1	17.9
	CHECKS																	
71	BIO 9637	56.2	22.4	223.3	65.6	25.2	21.8	19.7	46.5	-	12.8	-	-	1.3	-	47	-	26.3
72	HM 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	HM 9	10.6	29	55.4	13.2	5.2	-	37.5	0.4	9.6	3.3	-	-	-	-	7.3	-	-
74	HM 10	23.3	193.5	394.6	44.3	-	-	0.9	-	-	-	-	-	-	-	25.1	-	-
75	PMH 4	21.3	82.9	112.1	26.4	76.6	-	31.4	61.8	-	11.2	1.9	-	65.2	10.4	29.7	15.9	43

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 46.0 %: BHIL 31.5 %

## B56

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8												
		ZN 4										ZN 5	OV'L	
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
1	Meghan-G	26.2	60.5	14.1	24.4	23.5	24.6	16.7	31.6	-	50.8	-	13	18.9
2	FMH-603	64.6	21.6	2.1	-	33.4	0.7	36.6	11.8	69.4	-	8.6	22.2	22.9
3	Rasi-3033	37.6	61.8	2.7	-	26.6	14.2	25.6	1.1	-	42.9	8.4	7.4	18.5
4	Rasi-588	16.3	44.1	2	-	12.6	-	24.4	3.9	-	27	-	-	2.2
5	AMH-455	52.5	35.3	7.2	16.1	23	-	43.8	23.8	-	-	13.2	4.9	12.5
6	NMH-1281	-	63	20.5	-	21.2	26.4	29.9	21.9	8.8	34.9	8.6	18.3	14.8
7	NMH-1276	38.3	-	21.9	-	21.9	26.6	64.5	12.9	38.3	32.3	3	23.8	22.5
8	Bisco X 2711	-	8.7	13	23.3	13.6	24.1	27.1	27.5	-	46.4	-	5.8	13.6
9	NMH 1588	25.8	12.3	16.7	-	9.5	21.2	51.9	29.9	-	4.9	9.5	16.6	7
10	TI8334	35	98.1	8.4	6.8	24.2	15.5	56.4	44.6	-	29.4	-	14	18
11	IJ8533	30.8	60.3	-	31.9	32	37.9	97.1	44	65	56.4	7.2	44.1	31.6
12	DKC9108	15.3	53.6	-	2.3	-	6.1	24.9	-	15.1	-	-	0.4	1
13	VAMH 08014	30.7	49.7	26.3	27.6	29.4	23.4	-	37.3	-	56	-	10.7	18.3
14	JKMH 4511	18.6	23.7	-	-	5.1	2	53.4	6.9	-	8.6	14.8	3.3	4.8
15	S6850	51.4	79.3	17.4	64.3	43	12.3	54.3	37.8	-	83.2	8.5	19	29.3
16	S6790	76.7	63.5	19.5	25.1	42.3	19.5	41.4	55.8	-	39.2	3.4	15	30.1
17	BH-411036	43.5	13.1	1.5	-	14	7.3	39	26.6	-	25.5	12.6	13.7	7.1
18	KH-7647	47	61.3	4.6	14.7	23.5	17.4	35.9	20.5	-	77.9	12.5	15.7	17.2
19	KMH-25K45	0.4	31.9	17.4	16.7	18.1	37.5	16	26.2	59	108.3	11.2	30.4	20
20	KMH-7148	-	36.7	26.3	19.9	10.5	34.5	35.5	29.6	65.8	64.2	-	19.5	12.9
21	KMH-3110	-	34.6	8.5	-	22.5	8.4	-	46.1	41.6	14.7	-	14.8	17.4
22	KMH-6681	45.9	52.1	3.4	16	30.1	22.5	18.5	46.7	81.6	58.6	-	34.8	25.7
23	QMH-2966	-	21.6	1.2	-	0.7	24.8	20.7	34	4.3	20.3	-	14.6	8.2
24	EHL 111	17.6	-	-	-	0.3	13.2	38.3	-	25.1	30.1	8.6	11.1	4.3
25	EHL 2211	44.5	104.4	9.8	24.7	34.4	36	59.1	25	-	46.9	1.2	18.2	26
26	EHL 2311	-	29.6	-	-	-	5.2	62.2	-	-	-	-	2.1	-
27	NMH-1277	41.8	-	27.4	33.6	30.1	16.2	46.6	24.5	37.7	28.9	4.1	23.1	18.5
28	DAS MH-302	43.3	63.8	23.7	11.1	29.3	14.1	15	35.5	5.7	2.3	7.3	17.2	19.5

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8												OV'L
		ZN 4										ZN 5	MEAN	
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
29	PRO 387	41.7	55.6	17.2	64.5	41.3	24.7	30.8	23.5	-	74.1	13.2	14.3	22.8
30	BIO 719	29.5	63.6	19.3	-	20.8	26.9	27.5	40	4.5	60.1	1.9	21	23.9
31	DAS MH-303	0.6	1.6	-	-	-	-	14.7	-	-	-	2.6	-	-
32	X35B403	41	21.1	0.9	3	18.5	11.3	81.6	19.6	29.8	91.4	12.7	24.6	25.4
33	CMH 10-529	13	77.6	5.4	-	13.2	25.8	33.5	8.1	40.7	38.6	16.8	22.5	13.7
34	BAUMH-2011-04	-	-	-	-	-	-	27.2	-	-	-	-	-	-
35	BAUMH-2011-13	-	-	-	-	-	-	2.2	-	-	24.8	-	-	-
36	LTH-21	22.4	39.3	13.4	-	10.8	27.1	90.6	48.1	58.2	7.3	-	36.7	17
37	CMH 10-473	35.6	23.7	14.6	-	32.3	17.9	3.9	20.7	76.5	85.5	14.1	27.4	25.9
38	X35B410	47	74	-	-	28.7	15.2	69.8	23.9	71.9	54.3	-	29.6	23.2
39	REH 2011-03	30.1	22.9	3.9	-	13	9.7	17.3	-	-	24.2	2.2	1.7	9.1
40	EC-3164	-	-	-	-	-	-	2.2	0.7	-	-	-	-	-
41	CMH 10-485	1.5	-	-	-	13	7.4	49.7	9.5	-	0.3	5.6	8.9	7.3
42	DH-12-01	-	1.9	-	-	-	-	44.7	-	-	-	-	-	-
43	CMH 10-486	-	-	-	-	-	-	-	-	-	-	-	-	-
44	REH 2011-4	15	21.6	25.3	9.5	18.9	12	21.1	3	19.8	-	3	9.9	12.6
45	AH 1209	17.1	-	-	-	-	-	0.3	-	-	-	-	-	-
46	AH 1210	-	-	-	-	-	-	8.2	-	-	-	-	-	-
47	JH 31583	48.3	-	-	-	1.5	11.1	41.8	10.4	19.9	21.4	10.8	15.6	7.3
48	JH 31598	11	44.5	-	10.6	11.7	1.3	52.5	33.5	56.2	79.7	-	21.1	17.1
49	JH 31599	22.3	57.5	1.3	27.8	19	21.2	27.8	19.9	2.8	97.8	11.8	16	18.6
50	HKH 334	50.9	-	-	-	7.7	-	67	-	3.5	-	-	1	3.1
51	HKH 335	23.3	9	-	-	3.5	7.2	20.4	9.3	-	9.2	-	1.2	-
52	HKH 336	-	-	-	7.4	-	-	16.3	-	-	-	-	-	-
53	Bio 9637 (Filler)	38.7	16.7	18.3	-	15.2	15	5.6	3.1	-	53.2	5.2	4	13.2
54	HM-4 (Filler)	-	-	-	-	-	-	-	-	-	-	-	-	-
55	Synthetics-1	-	24.4	-	-	-	-	60.1	-	-	-	13.2	-	-
56	MMH 12-4	23.1	-	-	-	-	-	54.7	8.9	-	22.8	-	-	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8												OV'L MEAN
		ZN 4								ZN 5				
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	
57	MMH 12-5	24.1	-	-	11.8	-	0.1	26.4	-	-	23.2	-	-	1.3
58	MMH 12-6	37.8	27.8	3.1	10	18.7	10.9	18.7	17.5	-	47.9	-	-	10.3
59	MMH 12-7	18.9	49.7	-	-	1.4	-	7.3	-	-	45.1	-	-	0.1
60	MMH 12-8	-	-	-	-	-	-	31.1	6.9	-	-	-	-	-
61	VARANASI H12-1	26.2	-	-	0.9	9.6	12.6	43.9	22.5	-	29.9	-	10.1	9.1
62	DHM 117	40.6	-	4.6	-	12.6	15.3	5.8	24.7	-	31.3	-	3	4
63	QMH-2910	39.4	-	-	-	4	-	13.5	-	-	-	-	-	-
64	BH-411001	2	-	-	-	-	-	5	-	-	-	-	-	-
65	Safal X-260	25.7	-	-	-	3.1	5.1	15.3	1.2	4.8	7.7	-	3.2	2.6
66	KNMH 4201	42.4	28.4	7.5	-	14.4	6.5	67.9	3.8	-	-	1.9	7.4	11.1
67	KNMH 4202	34.9	-	-	10.8	5.8	5.7	73.7	5.9	17	30.3	-	13	1
68	KNMH 4203	11.3	-	-	-	-	0.9	-	-	12.9	10.7	-	-	-
69	KNMH 4204	32.2	-	0.4	-	13.1	-	-	19.3	-	-	4.9	-	-
70	KNMH 4205	30.9	65.3	5.3	-	21.1	8.5	-	21.6	-	39.9	3.3	2.3	9
	CHECKS													
71	BIO 9637	30.9	20.4	2.4	-	13.2	26.4	13.2	20	-	59.4	-	10.6	13.5
72	HM 8	-	-	-	-	-	-	-	-	-	-	-	-	-
73	HM 9	4.7	-	-	-	-	8.4	15.2	-	-	23.7	-	-	-
74	HM 10	14.6	23.1	-	-	4.6	3.8	30.4	13.1	-	-	3	-	-
75	PMH 4	39.3	10.5	-	21.2	22	31.2	79.8	23.2	19.4	49.1	1.9	25.4	18.7



TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
1	Meghan-G	31.7	116.2	29.3	31.6	31.9	87.8	-	54.3	-	13.9	-	44.2	34.4	22.8	39.7	23.9	5
2	FMH-603	15.8	-	39.3	17.7	-	92	-	73.4	-	14.2	5.1	26.8	32.3	20.6	48.4	33.4	64.8
3	Rasi-3033	15.3	2.7	-	11.6	55.9	56.3	3.2	50.1	-	20.8	-	17.3	44.7	19.1	56.6	18.5	37.7
4	Rasi-588	-	-	59.2	-	20.4	78.9	-	26	-	-	-	30.6	-	-	24.9	10.2	14.3
5	AMH-455	-	-	158.6	5.7	28.2	42.9	-	94.8	-	7.3	9.7	50.8	-	15.1	18.8	11.3	30.8
6	NMH-1281	22.3	116.9	91	27.6	19.7	57.4	-	25.7	-	4.7	-	19.7	9.6	8.2	70.6	-	56.8
7	NMH-1276	46.1	43.4	351.5	69.8	23.8	32.7	-	60.5	-	10.8	1.6	25.4	37.1	20.6	21.3	21.3	47.3
8	Bisco X 2711	39.8	95.6	-	36.7	53.1	53.8	-	58.5	-	14.8	-	16.5	38.2	13.9	17.6	13	51
9	NMH 1588	12.2	77.6	147.8	22.7	-	17.9	-	16.5	3.9	1.4	-	33.6	-	-	19.1	1.3	24.1
10	TI8334	1.6	107	148.1	12.9	16	73.9	-	87.1	-	15.9	-	20	42.2	19.9	44.1	-	24.7
11	IJ8533	49	135.3	261.1	65.4	71.7	60	-	111	-	20.2	4.3	36.1	12.2	16.2	73.3	19.4	60.1
12	DKC9108	32.9	94.6	90.5	37.4	15.5	58.6	-	20.3	-	-	22.7	22.8	-	6.6	-	-	-
13	VAMH 08014	26.2	39.8	202	39.8	28.6	52	-	61.9	-	0.8	-	35	49.3	26.5	37.5	12.4	46.4
14	JKMH 4511	2.7	47.8	69.7	7.9	21.4	55.6	-	35.4	-	3	0.4	17.1	23.1	13	34.8	-	10.2
15	S6850	33.3	81.8	482.8	68.1	43.9	67.2	-	95.8	-	17.1	-	43.4	10.6	13	50.7	24.7	57.3
16	S6790	57.5	53.5	151.5	64.8	73.5	73.9	-	115.3	-	23.9	3.9	41.9	9.1	16.5	47.2	21.6	58.8
17	BH-411036	-	81.8	-	-	25.5	33.8	-	40.2	-	-	5.2	36.6	-	11.1	16.2	4.2	29.9
18	KH-7647	28.7	94.7	123.5	36	66.3	64.8	-	62.4	-	4.7	4.6	40	20	20	7.8	33.5	18.5
19	KMH-25K45	76.1	4.1	95.2	77.6	-	44	-	87.4	-	1.3	7.1	55.7	-	14.2	37.7	37	5.3
20	KMH-7148	57.6	-	121.1	62.6	-	55.4	-	93.6	-	-	-	61.6	14.4	18.7	56.5	18	-
21	KMH-3110	51.4	-	296.6	70.4	28.1	53	-	75.2	-	2	-	57	-	8.9	75.7	26.6	44.7
22	KMH-6681	46.2	28.2	-	41.3	14	41.3	-	80.8	-	16	-	62.5	12.1	13.1	36.1	35.5	41.8
23	QMH-2966	38.6	88.1	205.3	51.5	-	70.2	-	21.2	-	0.8	10.6	44.3	-	10.7	33.7	0.3	-
24	EHL 111	0.5	85.1	19.9	2	-	62.5	0.5	6.1	-	-	11.4	20.1	27.4	19.4	14.1	-	-
25	EHL 2211	13.9	63.2	193.5	27.8	65.8	63.1	-	108.3	-	20.5	-	59.2	42.4	30.7	49.3	23.3	31.7
26	EHL 2311	2.2	-	44.2	5.5	-	65.7	-	-	-	-	9.2	16.3	-	6.6	7.6	-	5.6
27	NMH-1277	-	152.8	81.1	3.5	58.1	56.2	-	24	-	11.5	5.3	76.1	-	7.3	26.9	37.3	40.2
28	DAS MH-302	13.7	-	25.4	14.6	23.2	55.2	-	80.1	-	11	-	32.9	40.6	21.1	29.7	20	35

## B60

TABLE No. 2 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9																
	ZN 1					ZN 2					ZN 3						
	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
29 PRO 387	73.3	-	-	65.9	19.2	51.9	-	10.3	-	3.2	1.7	35.5	-	1.6	74.7	21	49.1
30 BIO 719	36.6	-	209.5	50	42.3	57.5	-	88.4	-	24.7	-	54.7	31.7	24.2	49.3	-	22.1
31 DAS MH-303	1.7	5.9	138.3	12.2	0.1	81.7	-	14.3	-	5.6	-	8.3	-	-	13.2	-	13.7
32 X35B403	49.4	112.5	451.6	80.6	65	74.4	-	55.2	-	24.6	-	68.4	-	17.5	30.1	16.1	21.5
33 CMH 10-529	21.4	31.7	25.8	21.8	4.4	45.2	-	50.2	-	9.8	5.2	25.3	-	8.2	31.7	5.7	14.7
34 BAUMH-2011-04	-	31.5	1.4	-	-	60.1	-	-	-	-	0.2	33.7	-	-	-	-	9.4
35 BAUMH-2011-13	9.2	91.5	113.6	17.3	-	56.8	-	-	-	-	-	13.2	8.7	1.4	-	6.4	5.9
36 LTH-21	59.5	142.4	-	54.8	-	62	-	64.4	-	3	-	22.6	16.3	10.6	29.8	-	1.9
37 CMH 10-473	24.6	-	61.1	27.5	58	55.8	-	92.9	-	26.5	-	18.1	14.1	8.3	63	24	71.8
38 X35B410	41.3	-	148.1	49.5	35.7	47.1	-	105.2	-	13	-	49.2	-	5.5	46.8	32.8	35.2
39 REH 2011-03	25.5	-	141.1	34.5	21.1	38.4	-	37.6	-	-	-	98.1	4.2	29.4	32.8	12.9	3.9
40 EC-3164	0.8	5	47.1	4.4	-	32.3	-	11.1	-	-	0.2	33	10	12.9	1	13.5	17
41 CMH 10-485	28.7	117.3	74.8	32.3	19.3	46.8	-	22.5	-	-	-	16.6	2.7	4.2	23.8	45.6	62.6
42 DH-12-01	-	38.7	-	-	3.9	45.6	-	-	-	-	11.5	31.1	-	6.4	5.5	35	6.5
43 CMH 10-486	-	163.5	-	-	-	42.4	-	29.4	-	-	-	15.4	-	-	-	-	14.8
44 REH 2011-4	24.8	23.2	175.1	36.4	-	37.7	-	24.1	0.8	5.4	1.2	27.9	-	2.9	9.6	47.2	9.7
45 AH 1209	-	44.7	24.7	-	-	46.7	-	-	-	-	1.5	23.5	-	-	-	-	-
46 AH 1210	-	121.4	92.1	-	-	43.4	-	-	-	-	1.6	29.9	-	0.4	-	-	8.4
47 JH 31583	-	-	189.4	14.1	54.2	60.7	-	45.8	-	4.3	5.2	20.9	24.3	16.3	6	-	6.1
48 JH 31598	14.5	-	380.5	42.9	55.6	53.2	-	68.4	-	11.4	6.9	41.2	33.3	25.8	42.9	5	22.3
49 JH 31599	5.9	-	296.5	28.4	50.2	54.1	-	61.1	-	18.1	-	28.8	39.6	21.5	41.4	8.8	9.3
50 HKH 334	36.3	6	22.3	35.2	-	48.1	-	-	-	-	-	13.9	18.6	8	11.6	11.3	21
51 HKH 335	2.4	113.3	1.8	2.4	-	40.3	-	13.9	-	-	3.7	0.3	38.9	14.8	5.2	5.1	9.8
52 HKH 336	-	31.9	184.6	1.2	-	39.5	-	-	-	-	-	37.8	-	1	-	-	-
53 Bio 9637 (Filler)	27.8	76.9	46	29.2	13.2	74	-	35.7	-	11.2	3.8	58.9	8.8	21.3	26.6	-	17.6
54 HM-4 (Filler)	-	-	8.8	-	4	81.5	-	15.4	-	11.7	2.9	19.2	22.7	14.4	-	-	-
55 Synthetics-1	4.6	145.4	-	3	-	85.7	-	12.9	-	2.6	-	49.3	-	-	18.2	-	17.3
56 MMH 12-4	-	83.1	119.2	0	-	64.9	-	1.6	-	-	11.4	54.5	-	11.7	11.6	-	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
57	MMH 12-5	-	24.7	225.4	16	-	63.1	-	37.5	-	-	-	55.2	4.2	16.2	13.5	-	-
58	MMH 12-6	25	94.6	269.4	44	-	62.3	-	57.4	-	-	-	57.3	28.6	22.8	29	17.8	15.5
59	MMH 12-7	19.5	11.1	150.5	29.7	-	48.2	-	7	-	-	3.6	42.5	-	5.5	-	-	-
60	MMH 12-8	40.1	-	101.2	44.9	-	54.5	-	-	-	-	-	18.5	-	-	7.1	-	-
61	VARANASI H12-1	39.4	-	67.7	41.6	1.1	62	-	36.2	-	2.9	-	9.3	0.6	2.1	25.9	13.8	25.9
62	DHM 117	16.2	12	16.2	16.2	29.9	31	-	9.6	-	-	3.7	30.4	-	-	38.9	-	22
63	QMH-2910	6.3	87.7	122.3	15.3	35.5	62.9	-	-	-	-	4.7	16.7	-	-	13	-	-
64	BH-411001	8.6	106.4	-	7.5	-	95	-	-	-	-	1.2	68.9	-	9.7	5.2	-	8.9
65	Safal X-260	12.2	6.4	56.1	15.6	29.3	42.1	-	33	-	-	-	12	12.4	5.5	15.1	23.5	4.8
66	KNMH 4201	20.4	104.1	129.4	28.8	39	83	-	31.3	-	0.7	0.5	47.7	26.1	22.8	30.3	15.7	-
67	KNMH 4202	6.6	-	150.4	17.8	-	83.1	-	-	-	-	1.6	20.1	-	-	22.7	13.7	-
68	KNMH 4203	13.6	117.4	-	12	-	40	-	-	-	-	-	34.8	13.3	13.3	18.4	-	-
69	KNMH 4204	-	122.6	-	-	-	73.8	-	-	-	-	3.3	1	-	-	20	0.4	61.5
70	KNMH 4205	36.8	-	6.2	34.5	7.1	52.5	-	47.1	-	-	-	52.6	-	3.7	32.7	21.6	25.7
	CHECKS																	
71	BIO 9637	41.1	-	108.1	46.3	19.1	75.5	-	46	-	9.1	0.9	33	6.4	12	36.9	-	34.6
72	HM 8	-	-	-	-	-	44	-	-	-	-	3.5	54.3	5	18.6	-	9.4	6.6
73	HM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74	HM 10	11.5	127.5	218.4	27.5	-	15.7	-	-	-	-	-	10.1	-	-	16.6	6.9	5.8
75	PMH 4	9.6	41.8	36.5	11.7	67.9	24.3	-	61.2	-	7.6	5.4	12.8	73.5	30.9	20.8	26.7	52.4

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 46.0 %: BHIL 31.5 %

## B62

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9												OV'L MEAN
		ZN 4										ZN 5		
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	
1	Meghan-G	20.6	65.3	40	75.1	32.7	15	1.3	68.4	55.5	21.8	-	27.2	25.4
2	FMH-603	57.2	25.3	25.3	31.6	43.3	-	18.6	43	189.2	-	11.9	37.6	29.6
3	Rasi-3033	31.4	66.7	26	32.3	36	5.4	9	29.3	67	15.5	11.7	20.9	25
4	Rasi-588	11.1	48.5	25.2	40.5	20.9	-	8	32.9	62.4	2.7	-	10.5	7.8
5	AMH-455	45.7	39.4	31.5	63.4	32.1	-	24.9	58.4	-	-	16.6	18.2	18.6
6	NMH-1281	-	67.9	47.8	36	30.2	16.6	12.8	56	85.8	9	11.9	33.3	21.1
7	NMH-1276	32.1	-	49.6	38.3	31	16.9	42.8	44.5	136.1	6.9	6.1	39.4	29.2
8	Bisco X 2711	-	11.9	38.7	73.5	22	14.6	10.3	63.1	-	18.3	-	19.2	19.8
9	NMH 1588	20.1	15.7	43.2	-	17.7	11.8	31.9	66.2	37.2	-	12.8	31.3	12.8
10	TI8334	28.9	104.1	33	50.4	33.4	6.6	35.8	85	3.7	4.6	1.7	28.4	24.5
11	IJ8533	24.9	65.1	8.5	85.6	41.8	27.3	71.1	84.2	181.6	26.4	10.4	62.3	38.7
12	DKC9108	10.1	58.2	15.5	44	6.1	-	8.4	23.7	96.4	-	-	13.1	6.5
13	VAMH 08014	24.9	54.2	55	79.6	39	13.9	-	75.7	60.4	26.1	2.7	24.7	24.8
14	JKMH 4511	13.3	27.4	15.5	-	12.9	-	33.2	36.8	-	-	18.3	16.3	10.6
15	S6850	44.6	84.7	44	131.2	53.6	3.6	33.9	76.3	55.6	48.1	11.7	34	36.4
16	S6790	68.7	68.4	46.7	76	52.9	10.2	22.7	99.4	-	12.5	6.5	29.5	37.2
17	BH-411036	37.1	16.6	24.6	23.2	22.5	-	20.7	62	52	1.4	16	28.1	13
18	KH-7647	40.5	66.2	28.3	61.5	32.7	8.4	18	54.2	69.7	43.7	15.8	30.4	23.6
19	KMH-25K45	-	35.9	44	64.3	26.8	26.9	0.7	61.4	171.5	68.3	14.5	46.9	26.6
20	KMH-7148	-	40.8	55	68.8	18.7	24.1	17.6	65.8	183	32.7	-	34.6	19.1
21	KMH-3110	-	38.6	33.1	39.1	31.7	0.1	-	86.9	141.8	-	-	29.3	23.8
22	KMH-6681	39.4	56.7	26.9	63.3	39.7	13.1	2.8	87.7	210	28.2	1.6	51.8	32.6
23	QMH-2966	-	25.3	24.2	25	8.1	15.2	4.8	71.4	78.1	-	-	29.1	14.1
24	EHL 111	12.3	-	21.8	20.9	7.7	4.5	20.1	17.8	113.5	5.1	11.9	25.1	10
25	EHL 2211	38.1	110.6	34.7	75.5	44.3	25.5	38.1	59.9	45.4	18.8	4.2	33.1	32.9
26	EHL 2311	-	33.5	4.4	-	-	-	40.8	26.2	40.9	-	-	15.1	1.9
27	NMH-1277	35.5	0	56.4	88	39.8	7.2	27.3	59.3	135	4.2	7.2	38.6	25
28	DAS MH-302	36.8	68.7	51.8	56.4	38.9	5.3	-	73.4	80.5	-	10.6	32	26

## B63

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9												
		ZN 4											ZN 5	OV'L
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
29	PRO 387	35.4	60.3	43.8	131.6	51.8	15.1	13.5	58	38.2	40.7	16.6	28.7	29.5
30	BIO 719	23.7	68.6	46.4	37	29.8	17.1	10.7	79.1	78.3	29.4	5	36.3	30.7
31	DAS MH-303	-	4.7	9.3	8.6	3.9	-	-	7.6	28.8	-	5.7	2.5	3.6
32	X35B403	34.7	24.8	23.9	45	27.3	2.7	57.6	53	121.5	54.7	16.1	40.4	32.3
33	CMH 10-529	8	82.9	29.3	11.5	21.7	16.1	15.9	38.4	140.2	12	20.3	37.9	20
34	BAUMH-2011-04	-	-	-	-	-	-	10.4	-	10.3	-	-	-	-
35	BAUMH-2011-13	-	-	-	-	-	-	-	-	3.9	0.8	-	-	-
36	LTH-21	16.9	43.6	39.1	40.1	19	17.3	65.5	89.4	170.1	-	-	54	23.4
37	CMH 10-473	29.5	27.4	40.6	38.7	42.1	8.8	-	54.4	201.2	49.9	17.5	43.5	32.8
38	X35B410	40.5	79.2	21	26.1	38.2	6.3	47.4	58.5	193.5	24.7	-	46	29.9
39	REH 2011-03	24.3	26.7	27.5	22.2	21.4	1.2	1.8	27.6	48.4	0.4	5.2	14.6	15.1
40	EC-3164	-	-	-	-	1.7	-	-	28.9	42.9	-	1.5	7.4	1.2
41	CMH 10-485	-	-	2.4	36.4	21.4	-	30	40.1	55.7	-	8.8	22.7	13.2
42	DH-12-01	-	5	-	25.3	4.9	-	25.6	0.3	10.6	-	-	1	-
43	CMH 10-486	-	-	-	-	-	-	-	-	-	-	-	-	-
44	REH 2011-4	9.9	25.3	53.7	54.1	27.7	3.4	5.2	31.8	104.5	-	6.1	23.8	18.7
45	AH 1209	11.9	-	-	-	-	-	-	-	-	-	-	-	-
46	AH 1210	-	-	-	-	-	-	-	-	14.9	-	-	-	-
47	JH 31583	41.7	-	-	19.5	9	2.6	23.1	41.2	104.7	-	14.1	30.3	13.2
48	JH 31598	6.1	48.9	-	55.6	20	-	32.4	70.9	166.6	45.2	-	36.4	23.5
49	JH 31599	16.9	62.2	24.3	79.9	27.9	11.8	11	53.4	75.5	59.8	15.1	30.6	25.1
50	HKH 334	44.2	-	4.4	-	15.7	-	45	14.8	76.7	-	-	13.7	8.7
51	HKH 335	17.8	12.3	5.6	31.7	11.2	-	4.6	39.8	44.9	-	-	14	5.2
52	HKH 336	-	-	-	51.1	-	-	1	-	38.2	-	-	0.5	-
53	Bio 9637 (Filler)	32.5	20.3	45.1	20.4	23.8	6.2	-	31.9	55.2	23.8	8.4	17.2	19.4
54	HM-4 (Filler)	-	-	7.4	-	-	-	-	-	10.3	-	-	-	-
55	Synthetics-1	-	28.1	14.6	21.8	7.3	-	39	17.2	-	-	16.6	5	4.3
56	MMH 12-4	17.6	-	1.8	-	-	-	34.3	39.4	8.8	-	-	10.1	0.7

## B64

TABLE No. 2 (Cont.)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9												
		ZN 4										ZN 5	OV'L	
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
57	MMH 12-5	18.5	-	8.3	57.4	6.6	-	9.7	25	31.1	-	-	8.1	6.9
58	MMH 12-6	31.6	31.6	26.5	54.8	27.6	2.4	3.1	50.3	-	19.6	-	8.5	16.3
59	MMH 12-7	13.6	54.2	22.7	34.9	8.9	-	-	22.3	20.1	17.3	-	3.5	5.6
60	MMH 12-8	-	-	6.1	23	-	-	13.8	36.8	9.3	-	-	9	-
61	VARANASI H12-1	20.5	-	8.2	42.1	17.7	3.9	25	56.7	47.9	5	-	24	15
62	DHM 117	34.3	-	28.4	22.5	21	6.4	-	59.6	29.9	6.1	-	16	9.7
63	QMH-2910	33.2	-	17.2	33	11.7	-	-	1.8	-	-	-	-	-
64	BH-411001	-	-	18.3	27.6	3.5	-	-	25.1	37.6	-	-	0.3	0.6
65	Safal X-260	20.1	-	-	28.9	10.8	-	0.1	29.5	78.9	-	-	16.3	8.2
66	KNMH 4201	36	32.3	31.9	0.6	22.9	-	45.8	32.8	48.5	-	5	21	17.2
67	KNMH 4202	28.8	-	16.7	56	13.6	-	50.8	35.6	99.8	5.3	-	27.3	6.5
68	KNMH 4203	6.3	-	22.2	9.4	5.5	-	-	10	92.7	-	-	9.4	1.5
69	KNMH 4204	26.3	-	23.2	32	21.5	-	-	52.6	-	-	8	3.6	1.4
70	KNMH 4205	25.1	70.3	29.3	28.1	30.1	0.1	-	55.6	46.1	13.1	6.4	15.2	15
	CHECKS													
71	BIO 9637	25	24	25.7	34.9	21.7	16.6	-	53.5	63.5	28.9	-	24.5	19.8
72	HM 8	-	3	22.7	40.8	7.4	-	-	28	70.7	-	3	12.6	5.5
73	HM 9	-	-	-	-	-	-	-	-	-	-	-	-	-
74	HM 10	9.4	26.8	4.9	37.8	12.4	-	13.2	44.7	-	-	6.1	11.5	2.2
75	PMH 4	33	13.8	13.4	70.6	31.1	21.1	56.1	57.7	103.8	20.5	4.9	41.2	25.2

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 46.0 %: BHIL 31.5 %

## B65

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 10																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
1	Meghan-G	18.2	-	-	3.2	67.4	62.2	8.7	87.2	19.3	43.9	0.1	31	85.5	33.9	19.8	16	-
2	FMH-603	3.9	-	-	-	10.1	65.8	19.2	110.3	25.5	44.3	10.2	15.2	82.5	31.5	27.3	24.8	55.8
3	Rasi-3033	3.5	-	-	-	97.9	35.1	40.7	82	35.6	52.6	1.4	6.6	99.7	29.9	34.3	10.9	30.2
4	Rasi-588	-	-	-	-	52.8	54.5	13.1	52.8	-	25.4	-	18.7	-	2	7.2	3.1	8.1
5	AMH-455	-	-	-	-	62.7	23.5	9.3	136.3	-	35.6	15	37	25.6	25.4	1.9	4.1	23.7
6	NMH-1281	9.7	-	-	0.1	51.9	36	13.2	52.5	21.7	32.2	2.8	8.8	51.2	18	46.3	-	48.2
7	NMH-1276	31.1	-	41.8	33.1	57.1	14.6	7.8	94.7	41.6	40	6.5	13.9	89.1	31.5	4.1	13.5	39.3
8	Bisco X 2711	25.4	-	-	7.2	94.3	32.9	20.5	92.2	21	45.1	-	5.8	90.6	24.1	0.9	5.7	42.8
9	NMH 1588	0.6	-	-	-	23.8	1.8	5.5	41.3	56.7	28.1	0.4	21.4	-	-	2.2	-	17.3
10	TI8334	-	-	-	-	47.2	50.2	-	127	32.4	46.4	4.1	9	96.2	30.8	23.6	-	17.9
11	IJ8533	33.6	3.5	13.4	29.7	117.9	38.2	8.6	156	1.9	51.8	9.4	23.7	54.8	26.6	48.7	11.7	51.3
12	DKC9108	19.2	-	-	7.7	46.6	37	16	46	-	16.7	28.7	11.6	4.4	16.2	-	-	-
13	VAMH 08014	13.2	-	-	9.7	63.2	31.3	17.9	96.4	-	27.4	3.5	22.7	106	37.9	17.9	5.2	38.4
14	JKMH 4511	-	-	-	-	54.1	34.4	21.3	64.2	2.9	30.1	5.3	6.4	69.9	23.2	15.6	-	4.2
15	S6850	19.5	-	83.1	31.8	82.7	44.5	-	137.5	20.7	47.9	-	30.2	52.6	23.2	29.3	16.7	48.7
16	S6790	41.3	-	-	29.2	120.2	50.2	8.8	161.1	5.2	56.5	8.9	28.9	50.5	27.1	26.3	13.7	50.1
17	BH-411036	-	-	-	-	59.3	15.6	9.5	70.1	-	22.1	10.3	24.1	32.8	21.1	-	-	22.8
18	KH-7647	15.4	-	-	6.7	111.1	42.4	-	97	-	32.3	9.7	27.2	65.6	30.9	-	24.9	12.1
19	KMH-25K45	58	-	-	39.3	26.2	24.4	25.3	127.3	-	28	12.3	41.5	20.2	24.5	18.1	28.2	-
20	KMH-7148	41.4	-	-	27.5	-	34.3	11.2	134.9	-	19.5	-	46.9	57.8	29.5	34.3	10.4	-
21	KMH-3110	35.8	-	24.6	33.6	62.6	32.2	9.7	112.6	-	28.8	-	42.6	18	18.7	50.7	18.5	36.8
22	KMH-6681	31.1	-	-	10.8	44.7	22.1	11.9	119.4	48	46.5	-	47.7	54.6	23.3	16.7	26.8	34
23	QMH-2966	24.3	-	-	18.8	-	47	8.5	47.1	31.9	27.3	16	31.1	14.2	20.7	14.7	-	-
24	EHL 111	-	-	-	-	17.2	40.4	36.9	28.7	11.9	26.3	16.8	9.1	75.8	30.2	-	-	-
25	EHL 2211	2.2	-	-	0.3	110.4	40.9	15.8	152.7	1.8	52.2	2.7	44.6	96.5	42.6	28.1	15.4	24.5
26	EHL 2311	-	-	-	-	1.9	43.2	-	-	39.6	16	14.5	5.7	31.8	16.2	-	-	-
27	NMH-1277	-	11.1	-	-	100.7	34.9	22	50.5	23.9	40.8	10.4	60	-	17	8.9	28.5	32.6
28	DAS MH-302	2	-	-	-	56.4	34	0.7	118.5	20.4	40.2	-	20.7	93.9	32	11.3	12.3	27.6

## B66

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 10																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
29	PRO 387	55.4	-	-	30.1	51.3	31.2	7.7	33.8	32.9	30.3	6.7	23.1	1.1	10.8	49.9	13.2	40.9
30	BIO 719	22.5	-	-	17.6	80.6	36.1	26.4	128.6	43.9	57.6	-	40.6	81.7	35.5	28.1	-	15.4
31	DAS MH-303	-	-	-	-	27.1	56.9	21.4	38.6	24.6	33.4	-	-	16	3.4	-	-	7.5
32	X35B403	34	-	73.3	41.6	109.4	50.7	24.3	88.3	42.9	57.5	2.2	53	33.4	28.1	11.6	8.6	14.9
33	CMH 10-529	8.9	-	-	-	32.5	25.4	19.2	82.2	40.3	38.7	10.3	13.8	34.2	18	12.9	-	8.4
34	BAUMH-2011-04	-	-	-	-	-	38.3	20.8	-	2.7	8.6	5.1	21.5	-	2.8	-	-	3.4
35	BAUMH-2011-13	-	-	-	-	3.8	35.5	18.7	14.4	-	11	-	2.8	49.9	10.5	-	-	0.1
36	LTH-21	43	6.6	-	21.4	7.3	39.9	16.9	99.5	4.7	30.1	0.7	11.4	60.4	20.6	11.3	-	-
37	CMH 10-473	11.8	-	-	-	100.6	34.6	15.3	133.9	47.5	59.8	0	7.3	57.4	18.1	39.8	16	62.5
38	X35B410	26.7	-	-	17.3	72.2	27.1	30	148.9	-	42.7	4.3	35.5	4.5	15.1	25.9	24.3	27.8
39	REH 2011-03	12.6	-	-	5.5	53.7	19.6	10.8	66.9	-	19	4.6	80	43.8	41.1	13.9	5.6	-
40	EC-3164	-	-	-	-	21.8	14.3	-	34.7	4.2	12.7	5.1	20.8	51.7	23.1	-	6.2	10.6
41	CMH 10-485	15.5	-	-	3.8	51.4	26.8	-	48.6	-	18.7	0.8	5.9	41.7	13.7	6.2	36.2	53.7
42	DH-12-01	-	-	-	-	31.8	25.8	-	0.7	-	2.5	16.9	19.1	10.7	16	-	26.3	0.7
43	CMH 10-486	-	15.9	-	-	-	23	-	57	32	25.5	-	4.8	-	-	-	-	8.5
44	REH 2011-4	11.9	-	-	7	12.8	18.9	20.3	50.6	52	33.1	6.1	16.2	15.8	12.2	-	37.7	3.7
45	AH 1209	-	-	-	-	-	26.8	0.2	-	33.4	9.5	6.4	12.2	-	6.6	-	-	-
46	AH 1210	-	-	-	-	-	23.8	26.2	-	-	0.1	6.6	18	2.7	9.4	-	-	2.5
47	JH 31583	-	-	-	-	95.7	38.8	-	76.9	-	31.7	10.3	9.9	71.4	26.8	-	-	0.3
48	JH 31598	2.7	-	50.9	12	97.5	32.4	29.5	104.3	-	40.8	12.1	28.3	84	37.2	22.6	-	15.6
49	JH 31599	-	-	24.5	0.7	90.7	33.2	18.7	95.4	36.1	49.2	3.9	17	92.5	32.5	21.2	1.8	3.4
50	HKH 334	22.2	-	-	6	21.6	27.9	20.8	10.7	-	11	-	3.5	63.6	17.8	-	4.2	14.4
51	HKH 335	-	-	-	-	25.7	21.2	12.9	38.1	-	10.3	8.8	-	91.7	25.2	-	-	3.8
52	HKH 336	-	-	-	-	-	20.5	13.6	20.1	-	4.9	-	25.2	29.5	10.2	-	-	-
53	Bio 9637 (Filler)	14.6	-	-	1.3	43.6	50.3	12.9	64.6	37.2	40.5	8.8	44.4	50	32.2	8.6	-	11.2
54	HM-4 (Filler)	-	-	-	-	32	56.8	17.8	40	50.3	41.1	8	8.3	69.3	24.7	-	-	-
55	Synthetics-1	-	7.9	-	-	25.5	60.4	2.1	37	23.5	29.6	-	35.7	-	8.5	1.4	-	10.9
56	MMH 12-4	-	-	-	-	-	42.4	10	23.2	6.6	15.3	16.8	40.4	5.2	21.8	-	-	-



TABLE No. 2 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 10																
	ZN 1					ZN 2					ZN 3						
	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
57 MMH 12-5	-	-	2.2	-	-	40.9	19.7	66.8	11.5	24.9	2	41	43.7	26.7	-	-	-
58 MMH 12-6	12.1	-	16	12.9	-	40.2	-	91	4.1	20.8	-	43	77.5	33.9	10.6	10.2	9.2
59 MMH 12-7	7.2	-	-	1.7	22.6	28	25.2	29.8	4.6	20.1	8.6	29.5	5.7	15	-	-	-
60 MMH 12-8	25.7	-	-	13.6	-	33.5	19.7	16.4	8.1	8.7	2.8	7.7	-	-	-	-	-
61 VARANASI H12-1	25	-	-	11	28.3	40	20.8	65.2	10.5	30	2.7	-	38.7	11.3	8	6.5	19
62 DHM 117	4.2	-	-	-	64.9	13.1	14.1	32.9	11.3	23.2	8.8	18.4	-	-	19.1	-	15.4
63 QMH-2910	-	-	-	-	71.9	40.8	14.7	9.6	-	16	9.8	6	-	-	-	-	-
64 BH-411001	-	-	-	-	9	68.5	-	-	1.5	14.1	6.1	53.5	-	19.6	-	-	2.9
65 Safal X-260	0.6	-	-	-	64.1	22.8	13.2	61.4	-	23.9	-	1.7	55.1	15	-	15.5	-
66 KNMH 4201	8	-	-	1	76.5	58.1	-	59.3	-	27.2	5.4	34.2	74	33.9	11.7	8.3	-
67 KNMH 4202	-	-	-	-	26.6	58.2	-	5	-	7.6	6.5	9.1	-	0.9	5.2	6.4	-
68 KNMH 4203	1.9	-	-	-	-	21	19.3	18.2	-	3.2	1.4	22.4	56.3	23.5	1.5	-	-
69 KNMH 4204	-	-	-	-	12.3	50.2	17.2	3	-	6.7	8.4	-	-	-	2.9	-	52.7
70 KNMH 4205	22.7	-	-	5.4	35.9	31.8	7.7	78.4	-	19.5	-	38.6	3.8	13	13.8	13.8	18.8
CHECKS																	
71 BIO 9637	26.6	-	-	14.8	51.1	51.6	18.7	77.1	13.1	37.9	5.8	20.8	46.7	22.1	17.5	-	27.3
72 HM 8	-	-	-	-	20.7	24.4	-	20.8	37.6	22.2	8.6	40.2	44.9	29.3	-	2.4	0.8
73 HM 9	-	-	-	-	26.9	-	36.3	21.3	50.8	26.3	4.9	-	38	9	-	-	-
74 HM 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 PMH 4	-	-	-	-	113.1	7.4	30.2	95.6	-	35.9	10.6	2.5	139.4	42.8	3.6	18.6	44.1

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%): BARA 46.0 %: BHIL 31.5 %

## B68

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 10												
		ZN 4										ZN 5	OV'L	
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
1	Meghan-G	10.2	30.4	33.4	27.1	18	20	-	16.4	79.6	80.1	-	14.1	22.7
2	FMH-603	43.6	-	19.5	-	27.5	-	4.8	-	234.1	-	5.5	23.4	26.9
3	Rasi-3033	20.1	31.5	20.1	-	21	10	-	-	92.9	70.8	5.2	8.4	22.3
4	Rasi-588	1.5	17.1	19.4	2	7.6	-	-	-	87.6	51.8	-	-	5.5
5	AMH-455	33.1	9.9	25.4	18.6	17.5	-	10.3	9.5	4.3	-	9.9	6	16.1
6	NMH-1281	-	32.4	41	-	15.8	21.8	-	7.8	114.6	61.1	5.4	19.5	18.5
7	NMH-1276	20.7	-	42.6	0.4	16.5	22	26.1	-	172.7	58	0	25	26.4
8	Bisco X 2711	-	-	32.2	25.9	8.5	19.6	-	12.7	1.6	74.9	-	6.9	17.2
9	NMH 1588	9.8	-	36.5	-	4.7	16.7	16.5	14.9	58.5	25.3	6.3	17.7	10.4
10	TI8334	17.8	61	26.8	9.2	18.7	11.3	19.9	27.9	19.8	54.6	-	15.1	21.8
11	IJ8533	14.2	30.3	3.5	34.7	26.1	32.9	51.1	27.3	225.2	86.9	4.1	45.6	35.8
12	DKC9108	0.6	24.8	10.1	4.5	-	2.2	-	-	126.9	16	-	1.4	4.2
13	VAMH 08014	14.1	21.6	47.7	30.4	23.6	18.9	-	21.4	85.3	86.4	-	11.8	22.1
14	JKMH 4511	3.5	0.5	10.1	-	0.5	-	17.6	-	15.4	29.8	11.4	4.3	8.2
15	S6850	32.1	45.7	37.3	67.9	36.6	8.2	18.3	21.8	79.7	118.9	5.3	20.2	33.5
16	S6790	54.2	32.8	39.9	27.8	36	15.1	8.4	37.8	-	66.3	0.3	16.1	34.3
17	BH-411036	25.3	-	18.8	-	9	3.4	6.6	12	75.5	49.9	9.3	14.9	10.6
18	KH-7647	28.3	31.1	22.3	17.2	18	13.1	4.2	6.6	96	112.5	9.2	16.9	21
19	KMH-25K45	-	7.2	37.3	19.3	12.8	32.5	-	11.6	213.6	148.9	8	31.7	23.9
20	KMH-7148	-	11.1	47.8	22.5	5.6	29.6	3.9	14.6	226.9	96.2	-	20.7	16.5
21	KMH-3110	-	9.4	26.9	1	17.1	4.5	-	29.2	179.3	37	-	15.9	21.1
22	KMH-6681	27.4	23.6	21	18.6	24.3	18	-	29.7	258	89.5	-	36.1	29.7
23	QMH-2966	-	-	18.4	-	-	20.3	-	18.5	105.7	43.7	-	15.8	11.7
24	EHL 111	2.7	-	16.2	-	-	9.1	6	-	146.6	55.4	5.4	12.2	7.7
25	EHL 2211	26.1	66.1	28.4	27.4	28.4	31	22	10.5	67.9	75.6	-	19.3	30
26	EHL 2311	-	5.3	-	-	-	1.4	24.4	-	62.7	-	-	3.2	-
27	NMH-1277	23.8	-	49.1	36.5	24.3	11.9	12.4	10.1	171.4	54	1.1	24.3	22.4
28	DAS MH-302	25	33.1	44.8	13.6	23.5	10	-	19.8	108.5	22.2	4.2	18.3	23.3

## B69

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 10												OV'L MEAN
		ZN 4										ZN 5		
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	
29	PRO 387	23.7	26.4	37.1	68.1	35	20.2	0.3	9.2	59.7	108.1	9.9	15.4	26.7
30	BIO 719	13	33	39.6	-	15.5	22.3	-	23.8	106	91.3	-	22.2	27.9
31	DAS MH-303	-	-	4.2	-	-	-	-	-	48.8	6.7	-	-	1.4
32	X35B403	23.1	-	18.1	5.3	13.2	7.2	39.2	5.8	155.8	128.7	9.4	25.9	29.4
33	CMH 10-529	-	44.3	23.3	-	8.2	21.2	2.3	-	177.4	65.6	13.4	23.7	17.4
34	BAUMH-2011-04	-	-	-	-	-	-	-	-	27.4	-	-	-	-
35	BAUMH-2011-13	-	-	-	-	-	-	-	-	20	49.1	-	-	-
36	LTH-21	6.8	13.2	32.6	1.7	5.9	22.4	46.2	30.9	211.9	28.2	-	38.1	20.8
37	CMH 10-473	18.4	0.5	34.1	0.7	26.4	13.6	-	6.7	247.9	121.6	10.8	28.7	30
38	X35B410	28.3	41.4	15.3	-	22.9	11	30.2	9.6	239	84.4	-	30.9	27.1
39	REH 2011-03	13.6	-	21.6	-	8	5.7	-	-	71.4	48.4	-	2.8	12.6
40	EC-3164	-	-	-	-	-	-	-	-	65.1	11.6	-	-	-
41	CMH 10-485	-	-	-	-	8	3.5	14.8	-	79.9	19.8	2.5	10	10.8
42	DH-12-01	-	-	-	-	-	-	10.9	-	27.8	-	-	-	-
43	CMH 10-486	-	-	-	-	-	-	-	-	-	-	-	-	-
44	REH 2011-4	0.4	-	46.6	11.9	13.6	7.9	-	-	136.2	13.7	-	11	16.2
45	AH 1209	2.2	-	-	-	-	-	-	-	10.4	-	-	-	-
46	AH 1210	-	-	-	-	-	-	-	-	32.8	-	-	-	-
47	JH 31583	29.4	-	-	-	-	7.1	8.7	-	136.4	45	7.5	16.8	10.8
48	JH 31598	-	17.4	-	13	6.7	-	16.9	18.1	207.9	114.7	-	22.3	20.9
49	JH 31599	6.8	28	18.6	30.6	13.7	16.7	-	6	102.7	136.3	8.5	17.1	22.4
50	HKH 334	31.7	-	-	-	2.9	-	28.1	-	104.1	12.8	-	2	6.4
51	HKH 335	7.7	-	0.7	-	-	3.3	-	-	67.4	30.5	-	2.2	3
52	HKH 336	-	-	-	9.7	-	-	-	-	59.6	-	-	-	-
53	Bio 9637 (Filler)	21.1	-	38.3	-	10.1	10.9	-	-	79.3	83.1	2.1	5.1	16.8
54	HM-4 (Filler)	-	-	2.4	-	-	-	-	-	27.5	-	-	-	-
55	Synthetics-1	-	1.1	9.3	-	-	-	22.7	-	-	18.2	9.8	-	2.1
56	MMH 12-4	7.4	-	-	-	-	-	18.6	-	25.7	46.8	-	-	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 10												
		ZN 4										ZN 5		OV'L
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
57	MMH 12-5	8.3	-	3.3	14.2	-	-	-	-	51.4	47.2	-	-	4.6
58	MMH 12-6	20.2	3.8	20.6	12.4	13.5	6.9	-	3.9	9.2	76.8	-	-	13.8
59	MMH 12-7	3.8	21.7	17	-	-	-	-	-	38.8	73.4	-	-	3.3
60	MMH 12-8	-	-	1.2	-	-	-	0.5	-	26.2	-	-	-	-
61	VARANASI H12-1	10.1	-	3.1	3.1	4.7	8.5	10.4	8.3	70.9	55.2	-	11.2	12.6
62	DHM 117	22.8	-	22.4	-	7.6	11.1	-	10.3	50	56.9	-	4	7.3
63	QMH-2910	21.7	-	11.7	-	-	-	-	-	-	-	-	-	-
64	BH-411001	-	-	12.7	-	-	-	-	-	59	17.8	-	-	-
65	Safal X-260	9.7	-	-	-	-	1.3	-	-	106.6	28.6	-	4.3	5.9
66	KNMH 4201	24.2	4.3	25.8	-	9.3	2.6	28.7	-	71.6	4.2	-	8.5	14.7
67	KNMH 4202	17.7	-	11.2	13.2	1.1	1.9	33.2	-	130.8	55.7	-	14.2	4.2
68	KNMH 4203	-	-	16.5	-	-	-	-	-	122.6	32.3	-	-	-
69	KNMH 4204	15.4	-	17.5	-	8.1	-	-	5.5	-	3.4	1.8	-	-
70	KNMH 4205	14.3	34.3	23.2	-	15.7	4.5	-	7.5	68.8	67.2	0.3	3.3	12.6
	CHECKS													
71	BIO 9637	14.2	-	19.8	-	8.2	21.8	-	6.1	88.9	90.5	-	11.7	17.2
72	HM 8	-	-	17	2.2	-	-	-	-	97.2	19.5	-	1	3.2
73	HM 9	-	-	-	-	-	4.4	-	-	15.5	47.8	-	-	-
74	HM 10	-	-	-	-	-	-	-	-	-	-	-	-	-
75	PMH 4	21.6	-	8.2	23.9	16.6	26.4	37.8	9	135.4	78.2	-	26.6	22.6

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 46.0 %: BHIL 31.5 %

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 4																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
1	Meghan-G	20.2	52.5	-	17.8	-	51	-	-	31.4	5.9	-	27.8	-	-	15.6	-	-
2	FMH-603	5.7	-	2.1	5.3	-	54.4	-	7.5	38.3	6.2	-	12.4	-	-	22.8	5.3	8.1
3	Rasi-3033	5.2	-	-	-	-	25.7	8	-	49.4	12.3	-	4	-	-	29.6	-	-
4	Rasi-588	-	-	16.6	-	-	43.9	-	-	-	-	-	15.8	-	-	3.4	-	-
5	AMH-455	-	-	89.5	-	-	15	-	20.8	3.2	-	4	33.7	-	-	-	-	-
6	NMH-1281	11.6	53	39.9	14.3	-	26.6	-	-	34.1	-	-	6.2	-	-	41.2	-	2.9
7	NMH-1276	33.3	1.2	230.7	52	-	6.7	-	-	56	3	-	11.2	-	-	0.4	-	-
8	Bisco X 2711	27.5	37.9	-	22.3	-	23.7	-	-	33.3	6.7	-	3.3	-	-	-	-	-
9	NMH 1588	2.3	25.3	81.5	9.8	-	-	-	-	72.6	-	-	18.5	-	-	-	-	-
10	TI8334	-	46	81.8	1.1	-	39.8	-	16	45.8	7.7	-	6.4	-	-	19.3	-	-
11	IJ8533	35.9	66	164.5	48	2.3	28.7	-	30.9	12.3	11.7	-	20.7	-	-	43.5	-	5
12	DKC9108	21.2	37.3	39.5	23	-	27.6	-	-	-	-	16.4	8.9	-	-	-	-	-
13	VAMH 08014	15.1	-	121.2	25.2	-	22.3	-	0.4	-	-	-	19.7	-	-	13.8	-	-
14	JKMH 4511	-	4.3	24.3	-	-	25.1	-	-	13.3	-	-	3.8	-	-	11.5	-	-
15	S6850	21.5	28.2	326.9	50.4	-	34.5	-	21.4	33	8.8	-	27.1	-	-	24.8	-	3.2
16	S6790	43.6	8.3	84.2	47.5	3.3	39.9	-	33.5	15.9	15.2	-	25.8	-	-	21.9	-	4.2
17	BH-411036	-	28.2	-	-	-	7.6	-	-	0.5	-	-	21.1	-	-	-	-	-
18	KH-7647	17.4	37.3	63.7	21.8	-	32.6	-	0.7	-	-	-	24.1	-	-	-	5.3	-
19	KMH-25K45	60.7	-	43	59	-	15.8	-	16.2	-	-	1.5	38.1	-	-	14	8.1	-
20	KMH-7148	43.8	-	62	45.5	-	25	-	20.1	-	-	-	43.3	-	-	29.6	-	-
21	KMH-3110	38.1	-	190.5	52.5	-	23.1	-	8.7	-	-	-	39.2	-	-	45.4	-	-
22	KMH-6681	33.3	-	-	26.5	-	13.7	-	12.2	63.1	7.8	-	44.1	-	-	12.7	6.9	-
23	QMH-2966	26.4	32.7	123.6	35.6	-	36.9	-	-	45.3	-	4.9	27.9	-	-	10.7	-	-
24	EHL 111	-	30.5	-	-	-	30.7	5.1	-	23.3	-	5.7	6.5	-	-	-	-	-
25	EHL 2211	3.9	15.1	115	14.4	-	31.2	-	29.2	12.1	12	-	41.1	-	-	23.6	-	-
26	EHL 2311	-	-	5.6	-	-	33.3	-	-	53.8	-	3.6	3.2	-	-	-	-	-
27	NMH-1277	-	78.3	32.7	-	-	25.6	-	-	36.5	3.6	-	56.2	-	-	5.1	8.4	-
28	DAS MH-302	3.7	-	-	2.6	-	24.8	-	11.7	32.7	3.2	-	17.8	-	-	7.4	-	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 4																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
29	PRO 387	58	-	-	48.5	-	22.2	-	-	46.5	-	-	20.1	-	-	44.6	-	-
30	BIO 719	24.6	-	126.7	34.2	-	26.7	-	16.9	58.5	15.9	-	37.2	-	-	23.6	-	-
31	DAS MH-303	-	-	74.5	0.5	-	46.1	-	-	37.2	-	-	-	-	-	-	-	-
32	X35B403	36.3	49.9	304.1	61.6	-	40.3	-	-	57.5	15.9	-	49.3	-	-	7.7	-	-
33	CMH 10-529	10.8	-	-	9	-	16.8	-	-	54.6	2.1	-	11.1	-	-	9	-	-
34	BAUMH-2011-04	-	-	-	-	-	28.7	-	-	13.1	-	-	18.6	-	-	-	-	-
35	BAUMH-2011-13	-	35.1	56.5	5	-	26.1	-	-	-	-	-	0.3	-	-	-	-	-
36	LTH-21	45.4	70.9	-	38.5	-	30.3	-	2	15.4	-	-	8.7	-	-	7.4	-	-
37	CMH 10-473	13.7	-	18	14.1	-	25.3	-	19.6	62.5	17.6	-	4.7	-	-	34.9	-	12.8
38	X35B410	28.8	-	81.8	33.8	-	18.4	-	27.3	-	5	-	32.3	-	-	21.5	4.8	-
39	REH 2011-03	14.5	-	76.6	20.4	-	11.4	-	-	-	-	-	75.6	-	-	9.9	-	-
40	EC-3164	-	-	7.7	-	-	6.4	-	-	14.8	-	-	17.9	-	-	-	-	-
41	CMH 10-485	17.4	53.3	28.1	18.4	-	18.1	-	-	9.9	-	-	3.4	-	-	2.5	14.9	6.7
42	DH-12-01	-	-	-	-	-	17.1	-	-	-	-	5.7	16.2	-	-	-	6.5	-
43	CMH 10-486	-	85.9	-	-	-	14.5	-	-	45.4	-	-	2.3	-	-	-	-	-
44	REH 2011-4	13.8	-	101.5	22.1	-	10.7	-	-	67.4	-	-	13.4	-	-	-	16.1	-
45	AH 1209	-	2.1	-	-	-	18	-	-	46.9	-	-	9.5	-	-	-	-	-
46	AH 1210	-	56.2	40.7	-	-	15.3	-	-	-	-	-	15.1	-	-	-	-	-
47	JH 31583	-	-	112	2.1	-	29.3	-	-	5.6	-	-	7.2	-	-	-	-	-
48	JH 31598	4.4	-	252	27.9	-	23.3	-	4.5	2	3.6	1.4	25.2	-	-	18.3	-	-
49	JH 31599	-	-	190.5	14.9	-	24	-	-	50	9.8	-	14.2	-	-	17	-	-
50	HKH 334	24.3	-	-	21	-	19.1	-	-	-	-	-	1	-	-	-	-	-
51	HKH 335	-	50.4	-	-	-	12.8	-	-	-	-	-	-	-	-	-	-	-
52	HKH 336	-	-	108.5	-	-	12.2	-	-	-	-	-	22.2	-	-	-	-	-
53	Bio 9637 (Filler)	16.6	24.8	7	15.7	-	40	-	-	51.2	3.4	-	40.9	-	-	4.8	-	-
54	HM-4 (Filler)	-	-	-	-	-	46	-	-	65.6	3.8	-	5.7	-	-	-	-	-
55	Synthetics-1	-	73.1	-	-	-	49.4	-	-	36.1	-	-	32.4	-	-	-	-	-
56	MMH 12-4	-	29.2	60.6	-	-	32.6	-	-	17.4	-	5.6	37	-	-	-	-	-

TABLE No. 2 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 4																
	ZN 1				ZN 2				ZN 3								
	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE
57 MMH 12-5	-	-	138.4	3.8	-	31.2	-	-	22.9	-	-	37.6	-	-	-	-	-
58 MMH 12-6	14	37.3	170.6	28.8	-	30.5	-	-	14.7	-	-	39.5	-	-	6.7	-	-
59 MMH 12-7	9	-	83.5	16.1	-	19.2	-	-	15.2	-	-	26.4	-	-	-	-	-
60 MMH 12-8	27.8	-	47.4	29.7	-	24.2	-	-	19.1	-	-	5.1	-	-	-	-	-
61 VARANASI H12-1	27.2	-	22.8	26.7	-	30.3	-	-	21.8	-	-	-	-	-	4.2	-	-
62 DHM 117	6	-	-	4	-	5.3	-	-	22.6	-	-	15.6	-	-	15	-	-
63 QMH-2910	-	32.4	62.9	3.2	-	31.1	-	-	-	-	-	3.5	-	-	-	-	-
64 BH-411001	-	45.6	-	-	-	56.8	-	-	11.8	-	-	49.8	-	-	-	-	-
65 Safal X-260	2.3	-	14.3	3.4	-	14.3	-	-	1.6	-	-	-	-	-	-	-	-
66 KNMH 4201	9.8	44	68	15.3	-	47.2	-	-	-	-	-	30.9	-	-	7.8	-	-
67 KNMH 4202	-	-	83.4	5.4	-	47.3	-	-	-	-	-	6.5	-	-	1.5	-	-
68 KNMH 4203	3.6	53.3	-	0.2	-	12.6	-	-	-	-	-	19.5	-	-	-	-	-
69 KNMH 4204	-	57	-	-	-	39.8	-	-	-	-	-	-	-	-	-	-	6
70 KNMH 4205	24.8	-	-	20.3	-	22.7	-	-	-	-	-	35.3	-	-	9.8	-	-
CHECKS																	
71 BIO 9637	28.7	-	52.5	31	-	41.1	-	-	24.6	1.5	-	17.9	-	-	13.3	-	-
72 HM 8	-	-	-	-	-	15.8	-	-	51.6	-	-	36.8	-	-	-	-	-
73 HM 9	-	-	-	-	-	-	4.6	-	66.2	-	-	-	-	-	-	-	-
74 HM 10	1.7	60.4	133.2	14.1	-	-	-	-	10.2	-	-	-	-	-	-	-	-
75 PMH 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 46.0 %: BHIL 31.5 %

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 4											ZN 5 MEAN	OV'L MEAN
		KARI	KOLH	MAND	VAGA	ZN 4 MEAN AMBI BANS			CHHI	GODH	BHIL	UDAI		
1	Meghan-G	-	45.2	23.4	2.6	1.3	-	-	6.8	-	1.1	-	-	0.1
2	FMH-603	18.2	10.1	10.5	-	9.4	-	-	-	41.9	-	6.6	-	3.5
3	Rasi-3033	-	46.4	11.1	-	3.8	-	-	-	-	-	6.4	-	-
4	Rasi-588	-	30.4	10.4	-	-	-	-	-	-	-	-	-	-
5	AMH-455	9.5	22.4	15.9	-	0.8	-	-	0.5	-	-	11.1	-	-
6	NMH-1281	-	47.5	30.3	-	-	-	-	-	-	-	6.6	-	-
7	NMH-1276	-	-	31.9	-	-	-	-	-	15.9	-	1.1	-	3.2
8	Bisco X 2711	-	-	22.3	1.7	-	-	-	3.4	-	-	-	-	-
9	NMH 1588	-	1.6	26.2	-	-	-	-	5.4	-	-	7.5	-	-
10	TI8334	-	79.3	17.2	-	1.8	-	-	17.3	-	-	-	-	-
11	IJ8533	-	45.1	-	8.8	8.2	5.1	9.7	16.8	38.2	4.9	5.2	14.9	10.8
12	DKC9108	-	39	1.8	-	-	-	-	-	-	-	-	-	-
13	VAMH 08014	-	35.4	36.6	5.3	6	-	-	11.4	-	4.6	-	-	-
14	JKMH 4511	-	11.9	1.8	-	-	-	-	-	-	-	12.7	-	-
15	S6850	8.7	62.3	27	35.5	17.2	-	-	11.8	-	22.9	6.5	-	8.9
16	S6790	26.8	47.9	29.3	3.2	16.7	-	-	26.5	-	-	1.5	-	9.6
17	BH-411036	3	2.4	9.8	-	-	-	-	2.8	-	-	10.5	-	-
18	KH-7647	5.6	46	13.1	-	1.2	-	-	-	-	19.3	10.4	-	-
19	KMH-25K45	-	19.4	27	-	-	4.8	-	2.4	33.2	39.7	9.2	4	1.1
20	KMH-7148	-	23.7	36.7	-	-	2.5	-	5.2	38.9	10.1	-	-	-
21	KMH-3110	-	21.8	17.4	-	0.5	-	-	18.5	18.6	-	-	-	-
22	KMH-6681	4.8	37.6	11.9	-	6.6	-	-	19	52.1	6.3	-	7.5	5.9
23	QMH-2966	-	10.1	9.5	-	-	-	-	8.7	-	-	-	-	-
24	EHL 111	-	-	7.4	-	-	-	-	-	4.8	-	6.6	-	-
25	EHL 2211	3.8	85	18.7	2.9	10.1	3.6	-	1.4	-	-	-	-	6.1
26	EHL 2311	-	17.3	-	-	-	-	-	-	-	-	-	-	-
27	NMH-1277	1.8	-	37.9	10.2	6.6	-	-	1	15.3	-	2.2	-	-
28	DAS MH-302	2.9	48.2	33.9	-	6	-	-	9.9	-	-	5.4	-	0.6





TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 4											OV'L MEAN	
		ZN 4								ZN 5				
		KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	
57	MMH 12-5	-	-	-	-	-	-	-	-	-	-	-	-	-
58	MMH 12-6	-	15.6	11.5	-	-	-	-	-	-	-	-	-	-
59	MMH 12-7	-	35.5	8.1	-	-	-	-	-	-	-	-	-	-
60	MMH 12-8	-	-	-	-	-	-	-	-	-	-	-	-	-
61	VARANASI H12-1	-	-	-	-	-	-	-	-	-	-	-	-	-
62	DHM 117	1	-	13.2	-	-	-	-	1.2	-	-	-	-	-
63	QMH-2910	0.1	-	3.3	-	-	-	-	-	-	-	-	-	-
64	BH-411001	-	-	4.2	-	-	-	-	-	-	-	-	-	-
65	Safal X-260	-	-	-	-	-	-	-	-	-	-	-	-	-
66	KNMH 4201	2.2	16.2	16.3	-	-	-	-	-	-	-	0.1	-	-
67	KNMH 4202	-	-	2.9	-	-	-	-	-	-	-	-	-	-
68	KNMH 4203	-	-	7.7	-	-	-	-	-	-	-	-	-	-
69	KNMH 4204	-	-	8.6	-	-	-	-	-	-	-	3	-	-
70	KNMH 4205	-	49.6	13.9	-	-	-	-	-	-	-	1.4	-	-
	CHECKS													
71	BIO 9637	-	8.9	10.8	-	-	-	-	-	-	6.9	-	-	-
72	HM 8	-	-	8.2	-	-	-	-	-	-	-	-	-	-
73	HM 9	-	-	-	-	-	-	-	-	-	-	-	-	-
74	HM 10	-	11.4	-	-	-	-	-	-	-	-	1.1	-	-
75	PMH 4	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 46.0 %: BHIL 31.5 %

Table No. 2 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																
		ZN 1				ZN 2				ZN 3								
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
1	Meghan-G	71.3	94.0	76.4	80.6	60.0	71.5	61.1	72.0	55.8	64.1	61.1	55.4	83.3	66.6	58.9	66.7	62.8
2	FMH-603	62.0	90.0	76.4	76.1	67.2	70.1	62.2	73.3	56.7	65.9	63.2	51.8	83.3	66.1	59.4	66.7	62.8
3	Rasi-3033	60.2	76.0	76.4	70.9	65.6	77.1	60.6	62.3	56.7	64.4	51.4	54.5	81.3	62.4	59.4	65.3	62.2
4	Rasi-588	39.8	76.0	79.9	65.2	53.9	72.9	62.2	63.5	56.7	61.8	37.5	43.8	78.1	53.1	53.9	66.7	58.9
5	AMH-455	73.1	92.0	74.7	79.9	56.7	76.4	62.2	75.7	52.5	64.7	72.2	58.9	83.3	71.5	57.8	66.7	59.4
6	NMH-1281	67.6	94.0	86.8	82.8	55.6	71.5	61.1	76.3	54.2	63.7	60.4	59.8	83.3	67.9	62.8	64.6	61.7
7	NMH-1276	69.4	90.0	85.1	81.5	60.6	75.0	62.2	74.5	56.7	65.8	62.5	56.3	82.3	67.0	66.7	65.3	57.2
8	Bisco X 2711	67.6	102.0	76.4	82.0	60.6	79.2	62.2	74.5	56.7	66.6	61.1	58.0	78.1	65.8	60.6	66.7	63.9
9	NMH 1588	70.4	112.0	76.4	86.3	56.7	75.0	62.8	69.6	56.7	64.1	51.4	62.5	83.3	65.7	60.0	66.0	63.3
10	TI8334	64.8	94.0	74.7	77.8	56.7	75.7	61.1	75.1	56.7	65.0	63.2	65.2	83.3	70.6	66.7	63.9	61.1
11	IJ8533	71.3	104.0	93.8	89.7	62.2	77.8	63.3	74.5	56.7	66.9	68.1	50.9	76.0	65.0	66.7	66.7	60.6
12	DKC9108	75.0	90.0	76.4	80.5	63.3	79.9	62.2	72.6	56.7	66.9	74.3	55.4	83.3	71.0	62.8	66.0	56.1
13	VAMH 08014	73.1	110.0	76.4	86.5	68.9	80.6	61.7	71.4	56.7	67.8	61.1	51.8	82.3	65.1	62.8	64.6	59.4
14	JKMH 4511	68.5	106.0	86.8	87.1	63.3	79.9	61.7	72.6	56.7	66.8	67.4	56.3	78.1	67.2	62.2	65.3	60.6
15	S6850	71.3	100.0	88.5	86.6	62.2	79.2	61.1	75.1	56.7	66.9	68.8	63.4	82.3	71.5	60.0	66.0	62.8
16	S6790	70.4	96.0	76.4	80.9	59.4	78.5	61.7	75.1	56.7	66.3	72.9	66.1	82.3	73.8	61.7	66.0	57.2
17	BH-411036	64.8	96.0	76.4	79.1	53.9	70.8	62.2	56.2	56.7	60.0	52.8	51.8	82.3	62.3	50.6	64.6	61.7
18	KH-7647	68.5	102.0	78.1	82.9	63.9	72.2	61.1	62.9	55.8	63.2	55.6	64.3	81.3	67.0	66.1	66.7	59.4
19	KMH-25K45	73.1	96.0	46.9	72.0	91.7	68.8	60.6	76.3	56.7	70.8	57.6	63.4	76.0	65.7	67.2	66.7	62.2
20	KMH-7148	73.1	108.0	78.1	86.4	47.8	72.2	62.2	74.5	56.7	62.7	56.3	52.7	81.3	63.4	56.1	65.3	49.4
21	KMH-3110	72.2	100.0	90.3	87.5	65.0	75.7	61.7	73.9	56.7	66.6	69.4	59.8	74.0	67.7	60.6	65.3	66.7
22	KMH-6681	65.7	100.0	76.4	80.7	66.1	72.9	61.1	75.1	56.7	66.4	79.2	57.1	79.2	71.8	63.3	66.7	60.6
23	QMH-2966	64.8	112.0	83.3	86.7	57.2	70.8	61.1	75.7	56.7	64.3	66.0	57.1	81.3	68.1	65.6	66.7	63.9
24	EHL 111	65.7	104.0	76.4	82.0	66.1	75.0	60.0	73.9	56.7	66.3	68.1	58.9	83.3	70.1	58.3	65.3	56.1
25	EHL 2211	64.8	104.0	76.4	81.7	58.9	75.0	61.1	73.9	56.7	65.1	59.0	64.3	79.2	67.5	60.6	66.0	63.3
26	EHL 2311	68.5	116.0	72.9	85.8	67.2	70.8	61.1	73.9	56.7	65.9	61.8	56.3	76.0	64.7	56.1	66.7	62.8
27	NMH-1277	75.0	94.0	88.5	85.8	60.0	72.2	62.2	75.7	56.7	65.4	63.9	55.4	83.3	67.5	62.2	66.7	66.1
28	DAS MH-302	63.0	120.0	76.4	86.5	65.0	75.0	60.6	76.9	52.5	66.0	59.0	63.4	82.3	68.2	66.1	66.7	56.7
29	PRO 387	74.1	108.0	78.1	86.7	61.7	70.8	62.2	75.1	56.7	65.3	64.6	63.4	81.3	69.7	67.2	66.0	63.9
30	BIO 719	67.6	108.0	81.6	85.7	61.7	75.0	62.2	71.4	56.7	65.4	61.8	56.3	78.1	65.4	67.8	65.3	60.6

Table No. 2 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																
		ZN 1							ZN 2					ZN 3				
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
31	DAS MH-303	60.2	66.0	76.4	67.5	59.4	77.1	61.1	64.7	56.7	63.8	45.1	50.0	72.9	56.0	51.1	66.0	51.1
32	X35B403	69.4	110.0	92.0	90.5	65.6	77.1	63.3	74.5	51.7	66.4	63.2	56.3	81.3	66.9	61.7	66.0	63.9
33	CMH 10-529	66.7	110.0	76.4	84.4	62.8	76.4	61.1	66.5	56.7	64.7	49.3	63.4	74.0	62.2	63.9	66.7	57.8
34	BAUMH-2011-04	50.0	118.0	81.6	83.2	52.2	73.6	61.7	63.5	56.7	61.5	36.1	57.1	81.3	58.2	42.8	64.6	49.4
35	BAUMH-2011-13	63.0	110.0	76.4	83.1	30.0	72.2	62.2	47.6	56.7	53.7	18.1	62.5	83.3	54.6	45.0	65.3	50.0
36	LTH-21	54.6	110.0	76.4	80.3	67.8	73.6	61.1	71.4	56.7	66.1	53.5	65.2	81.3	66.6	59.4	66.0	59.4
37	CMH 10-473	63.0	108.0	81.6	84.2	66.1	73.6	59.4	67.2	56.7	64.6	59.0	62.5	75.0	65.5	60.6	66.7	61.1
38	X35B410	75.9	100.0	88.5	88.2	65.6	72.2	63.9	76.3	56.7	66.9	63.2	57.1	76.0	65.5	55.6	66.0	58.9
39	REH 2011-03	65.7	94.0	76.4	78.7	67.8	70.8	60.0	69.6	56.7	65.0	68.1	50.9	83.3	67.4	58.9	65.3	63.9
40	EC-3164	62.0	110.0	72.9	81.7	60.0	68.8	62.2	56.2	51.7	59.8	52.1	54.5	83.3	63.3	55.0	66.7	63.9
41	CMH 10-485	69.4	118.0	76.4	87.9	68.9	75.0	63.9	71.4	56.7	67.2	67.4	51.8	80.2	66.5	55.6	66.7	64.4
42	DH-12-01	71.3	112.0	74.7	86.0	60.0	77.8	60.6	70.2	56.7	65.0	59.7	58.9	78.1	65.6	57.8	66.0	60.6
43	CMH 10-486	16.7	118.0	76.4	70.4	27.2	73.6	-	55.6	56.7	53.3	32.6	51.8	83.3	55.9	28.3	66.0	38.9
44	REH 2011-4	75.0	110.0	86.8	90.6	67.8	73.6	60.0	73.3	56.7	66.3	63.9	58.0	78.1	66.7	61.1	66.7	58.9
45	AH 1209	65.7	94.0	76.4	78.7	66.7	76.4	60.6	72.0	56.7	66.5	54.9	50.9	81.3	62.3	56.1	65.3	60.6
46	AH 1210	67.6	76.0	76.4	73.3	54.4	77.1	61.7	70.8	50.8	63.0	61.1	48.2	69.8	59.7	63.3	65.3	55.6
47	JH 31583	66.7	100.0	81.6	82.8	66.1	75.7	62.2	70.8	52.5	65.5	58.3	57.1	76.0	63.8	64.4	64.6	56.7
48	JH 31598	68.5	98.0	86.8	84.4	62.8	73.6	61.1	73.3	56.7	65.5	59.0	57.1	79.2	65.1	63.3	65.3	60.0
49	JH 31599	66.7	108.0	83.3	86.0	56.1	77.1	60.6	73.9	53.3	64.2	56.3	63.4	83.3	67.7	61.7	66.0	61.1
50	HKH 334	63.9	116.0	76.4	85.4	60.0	77.1	62.2	68.4	53.3	64.2	43.1	63.4	83.3	63.3	57.8	66.7	63.9
51	HKH 335	60.2	102.0	79.9	80.7	65.0	77.1	62.2	74.5	56.7	67.1	56.3	57.1	83.3	65.6	67.2	66.7	62.8
52	HKH 336	40.7	54.0	81.6	58.8	51.1	79.9	61.1	67.8	55.8	63.1	14.6	51.8	81.3	49.2	48.3	66.0	47.2
53	Bio 9637 (Filler)	67.6	116.0	72.9	85.5	61.7	80.6	63.9	67.8	54.2	65.6	58.3	60.7	81.3	66.8	63.9	66.0	60.6
54	HM-4 (Filler)	65.7	98.0	76.4	80.0	65.6	79.2	61.1	69.0	56.7	66.3	51.4	58.9	78.1	62.8	62.2	65.3	65.6
55	Synthetics-1	70.4	100.0	76.4	82.3	61.1	77.8	62.2	69.6	54.2	65.0	61.1	54.5	80.2	65.3	63.9	66.0	61.1
56	MMH 12-4	74.1	106.0	76.4	85.5	57.2	78.5	61.1	73.3	56.7	65.3	65.3	63.4	81.3	70.0	62.8	65.3	61.7
57	MMH 12-5	63.0	114.0	86.8	87.9	60.6	79.2	61.1	67.8	56.7	65.1	59.0	52.7	72.9	61.5	53.3	65.3	60.6
58	MMH 12-6	67.6	100.0	76.4	81.3	51.1	72.9	60.6	65.9	56.7	61.4	50.7	50.0	79.2	60.0	57.8	66.0	63.3
59	MMH 12-7	71.3	112.0	76.4	86.6	59.4	69.4	61.7	72.6	48.3	62.3	65.3	58.9	75.0	66.4	60.6	66.0	63.3
60	MMH 12-8	63.0	102.0	86.8	83.9	51.7	73.6	61.7	70.2	52.5	61.9	58.3	56.3	75.0	63.2	56.1	65.3	50.0

Table No. 2 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																
		ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
61	VARANASI H12-1	66.7	92.0	86.8	81.8	65.0	72.9	61.1	73.9	56.7	65.9	67.4	63.4	74.0	68.2	60.6	66.7	64.4
62	DHM 117	73.1	110.0	78.1	87.1	61.7	71.5	62.2	75.1	56.7	65.4	66.7	62.5	83.3	70.8	62.2	66.0	66.1
63	QMH-2910	74.1	94.0	79.9	82.6	60.6	73.6	61.1	73.3	56.7	65.0	63.9	57.1	82.3	67.8	61.7	66.0	62.2
64	BH-411001	70.4	98.0	76.4	81.6	56.1	71.5	62.8	56.2	25.8	54.5	54.2	65.2	70.8	63.4	59.4	64.6	56.1
65	Safal X-260	63.0	82.0	83.3	76.1	67.2	72.9	62.8	55.6	43.3	60.4	56.3	62.5	83.3	67.4	63.9	66.7	65.0
66	KNMH 4201	67.6	110.0	78.1	85.2	67.2	76.4	60.0	72.6	56.7	66.6	59.0	51.8	78.1	63.0	59.4	66.0	56.1
67	KNMH 4202	67.6	100.0	79.9	82.5	62.8	69.4	60.6	73.9	56.7	64.7	66.7	49.1	83.3	66.4	61.1	66.7	56.7
68	KNMH 4203	67.6	100.0	76.4	81.3	65.0	71.5	61.1	73.9	56.7	65.6	68.8	62.5	82.3	71.2	61.1	65.3	56.7
69	KNMH 4204	61.1	106.0	86.8	84.6	56.7	71.5	62.2	72.0	55.8	63.7	53.5	58.0	79.2	63.6	58.9	63.9	64.4
70	KNMH 4205	60.2	64.0	76.4	66.9	63.9	72.2	61.7	64.7	56.7	63.8	59.0	61.6	79.2	66.6	53.3	66.0	62.2
CHECKS																		
71	BIO 9637	70.4	96.0	79.9	82.1	59.4	71.5	62.8	70.2	56.7	64.1	60.4	62.5	79.2	67.4	65.6	65.3	59.4
72	HM 8	70.4	88.0	86.8	81.7	61.7	69.4	58.9	71.4	55.8	63.5	52.8	56.3	83.3	64.1	60.0	64.6	62.2
73	HM 9	57.4	82.0	74.7	71.4	61.1	73.6	62.8	67.2	55.8	64.1	50.0	55.4	76.0	60.5	56.1	66.7	56.1
74	HM 10	70.4	100.0	78.1	82.8	58.9	75.7	60.6	73.3	54.2	64.5	54.2	61.6	78.1	64.6	60.0	65.3	53.9
75	PMH 4	80.6	96.0	76.4	84.3	64.4	74.3	62.2	74.5	50.0	65.1	54.2	65.2	81.3	66.9	58.3	67.4	64.4
	Loc. Mean	66.2	100.0	79.2	81.8	60.8	74.5	61.6	70.4	55.2	64.5	58.2	57.8	79.8	65.3	59.6	65.9	59.8
	C.D. (5%)	9.11	21.74	11.31	15.09	12.03	5.45	2.60	6.13	6.15	5.79	15.12	12.83	10.63	11.30	10.31	1.58	9.03
	C.V. (%)	8.53	10.91	7.16	11.43	12.25	4.53	2.60	5.40	5.60	7.21	16.11	11.14	6.68	10.73	10.72	1.49	9.36
	F (Prob)	0.00	0.00	0.00	0.14	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20	0.77	0.22	0.00	0.00	0.00

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Table No. 2 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)											ZN 5	OV'L
		KARI	KOLH	MAND	VAGA	ZN 4								
1	Meghan-G	70.1	66.1	56.5	55.6	62.4	68.3	68.8	62.2	66.7	72.9	66.0	67.5	66.8
2	FMH-603	63.9	63.3	64.9	54.2	62.2	55.0	63.9	65.6	81.9	66.7	64.6	66.3	66.2
3	Rasi-3033	59.0	66.7	59.5	52.8	60.7	63.9	69.4	62.2	70.8	68.8	65.3	66.7	64.5
4	Rasi-588	44.4	63.3	60.1	56.9	57.8	52.2	68.1	52.2	66.7	56.3	64.6	60.0	59.5
5	AMH-455	76.4	65.6	58.9	52.1	62.4	59.4	65.3	60.0	59.7	52.1	64.6	60.2	65.7
6	NMH-1281	77.8	66.7	57.7	55.6	63.8	68.3	63.9	66.7	75.0	58.3	63.2	65.9	67.2
7	NMH-1276	73.6	66.7	57.1	55.6	63.2	70.6	72.2	60.0	76.4	60.4	65.3	67.5	67.6
8	Bisco X 2711	70.8	66.7	57.1	56.3	63.1	73.3	70.8	63.9	62.5	56.3	64.6	65.2	67.1
9	NMH 1588	56.9	66.7	59.5	50.7	60.4	70.6	61.8	60.6	75.0	70.8	64.6	67.2	66.8
10	TI8334	66.0	63.3	58.9	56.9	62.4	69.4	61.1	65.0	79.2	60.4	65.3	66.7	67.0
11	IJ8533	74.3	65.0	56.5	52.8	63.2	74.4	63.9	61.7	80.6	72.9	64.6	69.7	69.1
12	DKC9108	70.8	63.9	59.5	54.2	61.9	64.4	63.2	62.8	79.2	72.9	63.9	67.7	67.9
13	VAMH 08014	75.0	66.1	58.3	61.1	63.9	65.6	70.1	62.2	68.1	66.7	64.6	66.2	68.3
14	JKMH 4511	76.4	66.7	61.3	55.6	64.0	58.9	68.1	61.1	62.5	56.3	62.5	61.6	67.3
15	S6850	75.0	66.7	55.4	56.3	63.1	62.2	64.6	65.0	72.2	70.8	65.3	66.7	68.8
16	S6790	70.8	66.7	60.1	59.0	63.1	72.2	45.1	60.0	62.5	60.4	66.0	61.0	66.8
17	BH-411036	60.4	61.7	59.5	47.9	58.0	57.2	64.6	57.2	61.1	54.2	64.6	59.8	62.0
18	KH-7647	49.3	64.4	57.1	50.7	59.1	68.9	64.6	61.1	62.5	68.8	64.6	65.1	65.4
19	KMH-25K45	66.7	66.7	58.3	52.1	62.8	71.1	65.3	63.3	73.6	72.9	64.6	68.5	67.4
20	KMH-7148	63.9	66.1	60.1	56.3	59.6	67.8	66.0	61.7	76.4	64.6	47.2	63.9	65.2
21	KMH-3110	58.3	66.7	57.7	56.3	61.6	60.0	61.1	62.8	77.8	75.0	63.9	66.8	67.9
22	KMH-6681	69.4	65.6	59.5	56.3	63.0	76.1	67.4	65.0	79.2	72.9	63.9	70.7	69.0
23	QMH-2966	64.6	62.2	63.1	61.1	63.9	60.6	58.3	63.9	66.7	66.7	64.6	63.4	67.2
24	EHL 111	47.2	65.0	61.9	50.7	57.8	62.2	61.8	62.2	83.3	72.9	64.6	67.8	66.7
25	EHL 2211	68.8	65.0	58.9	50.7	61.9	63.9	61.1	61.1	63.9	75.0	63.9	64.8	66.5
26	EHL 2311	68.1	66.1	56.5	57.6	62.0	65.0	62.5	64.4	58.3	58.3	66.0	62.4	66.2
27	NMH-1277	58.3	66.1	61.3	56.9	62.5	65.6	60.4	60.0	72.2	66.7	66.0	65.1	67.3
28	DAS MH-302	78.5	66.7	59.5	56.9	64.4	62.2	65.3	65.6	69.4	60.4	64.6	64.6	68.0
29	PRO 387	70.1	63.9	59.5	61.1	64.5	69.4	67.4	64.4	62.5	66.7	66.0	66.1	68.5
30	BIO 719	62.5	64.4	56.0	51.4	61.1	63.3	58.3	61.1	69.4	72.9	65.3	65.1	66.6

Table No. 2 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)											ZN 5	OV'L
		KARI	KOLH	MAND	VAGA	ZN 4				Mean				
31	DAS MH-303	64.6	66.7	56.5	53.5	58.5	42.2	64.6	58.3	80.6	56.3	63.9	61.0	61.0
32	X35B403	66.0	65.6	60.7	53.5	62.5	71.1	66.7	65.0	69.4	58.3	64.6	65.9	68.2
33	CMH 10-529	62.5	63.9	62.5	56.9	62.0	70.6	63.9	71.7	80.6	56.3	66.0	68.1	66.9
34	BAUMH-2011-04	41.0	59.4	-	47.2	50.7	35.0	63.2	48.3	58.3	54.2	63.9	53.8	59.1
35	BAUMH-2011-13	13.9	58.3	56.0	16.0	43.5	33.9	58.3	38.9	61.1	47.9	61.8	50.3	53.7
36	LTH-21	69.4	64.4	60.1	57.6	62.4	76.1	68.1	62.8	65.3	52.1	65.3	64.9	66.6
37	CMH 10-473	72.9	65.6	57.7	55.6	62.9	65.0	66.7	61.1	81.9	72.9	65.3	68.8	67.7
38	X35B410	65.3	65.0	59.5	59.0	61.3	63.9	65.3	63.3	79.2	72.9	65.3	68.3	68.1
39	REH 2011-03	72.9	66.7	52.4	52.8	61.8	63.9	67.4	63.9	77.8	47.9	64.6	64.2	65.9
40	EC-3164	59.7	62.8	55.4	47.2	58.7	48.3	62.5	62.2	69.4	62.5	63.9	61.5	63.0
41	CMH 10-485	66.7	65.0	59.5	57.6	62.2	58.3	70.1	60.6	72.2	43.8	66.0	61.8	66.9
42	DH-12-01	68.1	63.3	56.5	52.8	60.7	55.0	65.3	63.3	72.2	64.6	63.9	64.1	66.2
43	CMH 10-486	13.9	58.3	59.5	16.0	40.1	38.3	58.3	32.2	27.8	-	45.8	40.5	48.9
44	REH 2011-4	81.3	66.7	60.1	57.6	64.6	59.4	63.2	60.0	68.1	43.8	66.0	60.1	67.3
45	AH 1209	40.3	60.0	55.4	49.3	55.3	56.1	66.0	62.2	75.0	68.8	63.2	65.2	63.9
46	AH 1210	65.3	62.8	60.1	54.2	60.9	50.0	59.7	60.0	75.0	68.8	45.1	59.8	62.5
47	JH 31583	54.9	66.7	58.3	55.6	60.2	70.0	60.4	64.4	79.2	79.2	66.0	69.9	67.0
48	JH 31598	66.0	66.7	57.7	56.9	62.3	71.1	63.9	59.4	69.4	58.3	56.9	63.2	66.3
49	JH 31599	60.4	66.1	60.1	62.5	62.6	71.1	67.4	63.3	66.7	66.7	64.6	66.6	67.5
50	HKH 334	47.2	63.3	54.2	59.7	59.0	61.1	63.2	62.2	73.6	62.5	64.6	64.5	65.3
51	HKH 335	53.5	65.0	56.5	50.0	60.2	66.1	65.3	61.7	54.2	68.8	63.9	63.3	65.7
52	HKH 336	34.0	65.0	57.7	51.4	52.8	46.7	61.1	51.1	73.6	64.6	63.9	60.2	57.1
53	Bio 9637 (Filler)	60.4	65.6	55.4	57.6	61.3	73.3	63.2	65.6	73.6	72.9	63.2	68.6	67.8
54	HM-4 (Filler)	67.4	65.0	63.1	54.9	63.3	57.8	66.0	60.0	63.9	60.4	64.6	62.1	65.7
55	Synthetics-1	68.1	64.4	54.8	56.3	62.1	57.2	68.1	62.2	68.1	60.4	65.3	63.5	66.0
56	MMH 12-4	54.9	66.1	58.9	54.2	60.5	55.0	66.0	62.8	68.1	56.3	64.6	62.1	66.2
57	MMH 12-5	64.6	63.3	59.5	60.4	61.0	68.3	68.1	62.2	72.2	58.3	65.3	65.7	66.5
58	MMH 12-6	56.3	63.3	56.0	52.8	59.3	67.2	64.6	56.7	65.3	52.1	64.6	61.7	63.2
59	MMH 12-7	62.5	64.4	57.1	59.0	61.9	64.4	69.4	65.6	69.4	66.7	63.9	66.6	66.8
60	MMH 12-8	70.1	65.6	56.5	54.9	59.8	63.3	63.2	65.0	62.5	70.8	64.6	64.9	65.0

Table No. 2 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)												
		ZN 4										ZN 5		OV'L
		KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
61	VARANASI H12-1	77.1	64.4	61.3	58.3	64.7	66.7	68.8	62.8	81.9	62.5	64.6	67.9	68.3
62	DHM 117	75.0	66.1	56.5	58.3	64.3	66.7	63.9	65.0	62.5	58.3	63.9	63.4	68.0
63	QMH-2910	51.4	66.7	54.8	55.6	59.7	61.7	61.8	64.4	76.4	56.3	65.3	64.3	65.9
64	BH-411001	55.6	63.9	56.0	54.2	58.5	57.2	70.8	54.4	58.3	45.8	63.2	58.3	61.1
65	Safal X-260	56.9	66.7	57.7	50.7	61.1	53.3	61.1	58.9	70.8	70.8	63.9	63.1	64.1
66	KNMH 4201	63.9	62.8	58.9	50.0	59.6	69.4	63.9	62.8	76.4	62.5	65.3	66.7	66.5
67	KNMH 4202	71.5	66.7	58.9	55.6	62.4	70.6	72.2	65.6	69.4	47.9	64.6	65.0	66.6
68	KNMH 4203	74.3	66.7	64.9	52.1	63.0	67.8	70.8	63.3	66.7	60.4	63.2	65.4	67.5
69	KNMH 4204	70.1	66.7	60.7	56.3	63.0	64.4	66.7	64.4	70.8	52.1	64.6	63.8	66.1
70	KNMH 4205	53.5	63.3	60.7	50.0	58.4	61.1	70.1	58.3	75.0	54.2	64.6	63.9	63.0
	CHECKS													
71	BIO 9637	75.7	66.7	60.1	50.7	63.4	67.8	58.3	63.3	70.8	50.0	65.3	62.6	66.2
72	HM 8	58.3	66.7	58.9	55.6	60.9	57.2	62.5	62.8	76.4	58.3	62.5	63.3	65.0
73	HM 9	59.7	65.0	54.2	54.9	58.9	58.9	59.0	58.9	75.0	50.0	63.2	60.8	62.2
74	HM 10	61.1	66.1	58.9	56.9	60.3	58.3	63.9	64.4	68.1	52.1	62.5	61.6	64.9
75	PMH 4	58.3	66.7	59.5	59.7	62.1	71.1	66.0	62.8	73.6	72.9	65.3	68.6	67.7
	Loc. Mean	62.6	64.9	58.5	53.9	60.7	62.6	64.6	61.2	70.1	62.1	63.7	64.0	65.5
	C.D. (5%)	5.05	4.53	5.17	6.43	5.58	9.43	8.91	7.31	16.26	24.80	6.18	6.73	3.48
	C.V. (%)	5.00	4.32	5.55	7.39	8.75	9.34	8.56	7.40	14.37	19.91	6.02	9.26	9.37
	F (Prob)	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00



Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																
		ZN 1						ZN 2				ZN 3						
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
1	Meghan-G	59.7	69.5	52.5	60.6	54.0	45.3	52.7	49.3	52.5	50.8	57.7	52.0	52.5	54.1	58.3	52.0	54.7
2	FMH-603	60.3	62.0	52.0	58.1	51.0	43.3	52.3	50.0	53.5	50.0	55.7	54.0	50.0	53.2	58.3	49.0	52.7
3	Rasi-3033	59.7	70.0	54.0	61.2	55.3	54.3	52.7	51.3	52.5	53.2	59.3	54.5	54.5	56.1	58.3	52.0	54.0
4	Rasi-588	61.3	66.5	54.0	60.6	56.3	55.7	52.7	52.3	61.0	55.6	59.7	52.5	52.0	54.7	57.7	51.0	55.0
5	AMH-455	60.3	62.0	49.0	57.1	52.0	50.3	47.7	49.0	59.0	51.6	55.3	53.0	55.0	54.4	58.0	49.0	52.7
6	NMH-1281	59.7	66.5	52.5	59.6	53.0	50.0	50.7	50.3	55.0	51.8	59.7	53.0	53.5	55.4	58.3	49.0	57.0
7	NMH-1276	56.3	64.5	49.5	56.8	52.0	52.3	51.3	49.3	52.5	51.5	56.0	52.0	50.5	52.8	58.0	48.0	56.3
8	Bisco X 2711	58.7	66.5	52.0	59.1	54.0	53.3	49.7	47.3	52.5	51.4	58.0	51.0	51.0	53.3	57.7	52.3	54.7
9	NMH 1588	63.0	68.0	54.0	61.7	56.0	48.0	54.0	51.0	53.0	52.4	60.0	48.0	56.0	54.7	57.7	53.3	55.3
10	TI8334	63.3	62.0	54.0	59.8	56.3	48.0	54.0	52.0	51.5	52.4	60.3	53.0	53.5	55.6	58.0	51.0	56.0
11	IJ8533	62.0	63.0	52.0	59.0	54.3	55.7	53.0	50.0	55.5	53.7	60.0	52.5	55.0	55.8	58.0	55.0	53.7
12	DKC9108	54.7	65.0	47.0	55.6	48.0	53.0	46.3	44.3	52.5	48.8	51.0	49.5	50.5	50.3	57.7	46.0	52.0
13	VAMH 08014	63.3	65.5	54.0	60.9	56.0	54.0	54.0	51.3	56.5	54.4	60.7	52.0	54.5	55.7	57.7	52.0	56.7
14	JKMH 4511	61.7	66.5	53.5	60.6	56.7	52.0	53.0	51.0	54.0	53.3	59.3	52.5	54.0	55.3	58.7	50.0	54.0
15	S6850	62.3	67.0	53.0	60.8	58.3	57.3	54.0	51.3	52.5	54.7	57.0	49.0	55.5	53.8	57.3	52.0	54.3
16	S6790	60.3	70.0	54.0	61.4	57.7	55.7	54.7	51.0	55.0	54.8	58.3	52.0	54.5	54.9	59.0	51.0	56.0
17	BH-411036	62.0	74.0	54.0	63.3	60.3	52.3	54.0	51.3	54.5	54.5	63.7	53.0	56.0	57.6	57.3	54.0	55.7
18	KH-7647	60.3	68.5	52.0	60.3	53.0	54.0	50.7	50.0	52.5	52.0	59.3	52.5	54.0	55.3	58.7	50.0	53.7
19	KMH-25K45	60.3	70.5	54.0	61.6	52.3	54.3	49.7	48.3	57.0	52.3	58.0	52.0	54.0	54.7	57.7	52.0	54.3
20	KMH-7148	56.7	71.0	54.0	60.6	53.3	52.3	51.0	54.3	56.5	53.5	58.0	54.0	53.0	55.0	58.0	51.0	55.7
21	KMH-3110	60.7	69.0	54.0	61.2	51.7	55.3	52.3	49.3	53.0	52.3	56.0	52.5	55.0	54.5	58.0	52.0	54.3
22	KMH-6681	59.3	62.5	54.0	58.6	51.3	57.7	47.7	46.3	52.5	51.1	54.0	50.5	49.5	51.3	57.3	47.0	51.7
23	QMH-2966	60.0	63.0	48.5	57.2	51.7	53.3	50.0	48.0	56.0	51.8	56.3	49.5	50.0	51.9	58.0	51.0	54.0
24	EHL 111	60.7	64.5	48.5	57.9	51.7	52.0	49.0	49.0	55.5	51.4	54.0	49.5	49.0	50.8	57.7	49.0	53.0
25	EHL 2211	60.7	73.0	53.0	62.2	54.3	54.7	48.3	49.3	57.5	52.8	57.0	50.5	54.5	54.0	57.7	49.0	53.0
26	EHL 2311	56.3	70.0	50.0	58.8	51.0	52.0	49.0	49.3	55.0	51.3	56.7	51.0	51.0	52.9	58.7	50.0	53.3
27	NMH-1277	60.0	67.5	51.5	59.7	51.3	48.7	51.7	50.3	54.5	51.3	56.7	51.5	51.5	53.2	58.3	52.0	54.0
28	DAS MH-302	62.7	67.5	54.0	61.4	53.3	55.3	52.0	50.7	53.5	53.0	59.3	52.5	54.5	55.4	57.3	51.0	52.7
29	PRO 387	61.0	74.0	53.0	62.7	56.0	56.7	48.7	51.7	54.5	53.5	59.0	50.5	53.0	54.2	57.3	52.3	55.7
30	BIO 719	63.3	69.5	54.0	62.3	54.7	55.3	51.0	51.7	53.5	53.2	58.3	51.0	55.0	54.8	57.7	54.0	53.3

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																
		ZN 1				ZN 2				ZN 3								
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
31	DAS MH-303	61.0	64.5	53.0	59.5	53.7	54.3	53.0	50.0	53.0	52.8	59.0	53.0	53.0	55.0	57.7	50.0	51.7
32	X35B403	59.3	65.0	52.0	58.8	54.7	49.3	52.0	50.0	53.0	51.8	57.0	50.5	55.5	54.3	56.7	48.0	51.3
33	CMH 10-529	61.0	73.0	52.0	62.0	54.3	54.7	51.7	50.0	51.0	52.3	59.3	51.5	55.0	55.3	57.0	51.0	54.3
34	BAUMH-2011-04	55.0	65.0	46.5	55.5	50.0	55.0	44.7	43.3	51.5	48.9	50.7	47.5	48.5	48.9	57.3	45.3	51.3
35	BAUMH-2011-13	59.7	72.5	47.0	59.7	52.7	53.3	55.0	48.7	55.0	52.9	58.7	52.5	51.0	54.1	57.3	52.0	55.0
36	LTH-21	57.0	63.5	52.0	57.5	50.3	55.3	49.7	46.3	53.5	51.0	55.3	49.5	50.5	51.8	57.7	48.0	52.0
37	CMH 10-473	61.3	70.5	54.0	61.9	59.0	48.3	54.3	53.3	50.0	53.0	59.7	51.5	55.5	55.6	56.7	56.3	54.0
38	X35B410	62.3	67.5	53.0	60.9	52.3	55.3	51.7	50.0	53.0	52.5	57.3	50.5	54.5	54.1	56.7	50.0	55.3
39	REH 2011-03	62.0	72.0	53.0	62.3	55.0	57.3	51.0	50.7	54.0	53.6	58.7	53.0	55.0	55.6	57.3	53.0	56.7
40	EC-3164	61.3	67.0	52.0	60.1	51.0	53.0	49.7	46.3	53.5	50.7	55.0	51.5	50.0	52.2	56.3	47.0	51.7
41	CMH 10-485	62.7	75.5	52.0	63.4	54.3	47.3	51.7	51.0	54.5	51.8	58.3	51.5	50.0	53.3	57.3	54.0	54.3
42	DH-12-01	56.0	67.0	50.0	57.7	50.3	44.7	48.0	45.7	52.5	48.2	54.7	50.5	50.5	51.9	57.3	48.0	50.7
43	CMH 10-486	62.0	76.0	54.0	64.0	60.3	43.3	-	53.3	54.0	52.8	63.7	55.0	59.5	59.4	57.3	55.0	57.7
44	REH 2011-4	61.0	69.5	50.0	60.2	55.0	57.3	51.3	50.7	54.0	53.7	57.7	51.5	53.0	54.1	58.0	51.0	57.7
45	AH 1209	56.7	67.0	48.5	57.4	50.7	45.7	49.0	47.3	53.0	49.1	54.3	54.5	48.5	52.4	58.3	47.0	51.7
46	AH 1210	54.7	68.5	48.0	57.1	50.0	48.3	47.7	45.7	59.5	50.2	54.0	49.5	53.0	52.2	58.0	47.0	52.3
47	JH 31583	59.7	71.5	52.0	61.1	52.0	53.0	49.7	47.3	54.0	51.2	54.0	53.5	51.5	53.0	58.3	48.0	51.3
48	JH 31598	56.0	68.5	52.0	58.8	50.3	55.0	47.7	46.3	53.5	50.6	53.7	51.0	50.0	51.6	56.3	47.0	51.3
49	JH 31599	58.3	67.5	48.0	57.9	53.3	51.7	48.3	47.3	53.0	50.7	55.7	49.5	51.0	52.1	57.7	49.0	52.3
50	HKH 334	58.3	69.5	54.0	60.6	51.0	54.3	49.0	51.0	51.5	51.4	55.0	53.5	46.0	51.5	57.7	49.0	52.0
51	HKH 335	58.0	69.0	55.0	60.7	52.0	51.7	48.7	48.3	47.5	49.6	55.3	50.5	48.0	51.3	57.7	49.0	52.3
52	HKH 336	58.0	71.5	51.0	60.2	52.3	53.0	48.7	47.3	53.5	51.0	58.7	50.0	49.5	52.7	58.0	49.0	51.3
53	Bio 9637 (Filler)	58.7	70.5	49.5	59.6	53.3	53.3	50.0	50.0	50.5	51.4	56.7	51.5	55.5	54.6	58.0	52.0	50.7
54	HM-4 (Filler)	58.0	67.5	52.0	59.2	51.0	48.7	46.7	47.0	50.5	48.8	55.7	52.0	50.0	52.6	57.3	48.0	51.7
55	Synthetics-1	60.3	70.0	53.0	61.1	53.7	46.7	50.7	49.7	58.0	51.7	59.3	53.0	51.5	54.6	57.7	52.7	53.3
56	MMH 12-4	55.0	65.0	46.0	55.3	48.3	50.0	47.3	44.0	56.0	49.1	51.3	51.0	48.5	50.3	57.7	45.3	50.7
57	MMH 12-5	59.0	67.0	49.5	58.5	51.3	53.3	48.7	47.3	53.0	50.7	58.7	50.0	50.0	52.9	57.7	47.0	56.0
58	MMH 12-6	63.0	71.0	54.0	62.7	56.3	45.3	53.7	51.3	57.5	52.8	57.0	52.5	50.5	53.3	58.3	49.0	55.3
59	MMH 12-7	58.7	69.0	47.5	58.4	53.0	43.3	51.7	48.7	56.0	50.5	55.7	52.5	50.5	52.9	58.3	49.0	52.3
60	MMH 12-8	60.3	67.5	52.0	59.9	55.7	54.3	54.3	49.7	53.0	53.4	57.7	52.5	55.0	55.1	58.7	50.0	55.7

Table No. 2 (Continued)

DAYS TO 50% POLLEN SHED																	
S.No. PEDIGREE	ZN 1					ZN 2					ZN 3						
	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
61 VARANASI H12-1	60.3	69.0	54.0	61.1	53.7	55.7	52.0	50.0	53.0	52.9	59.7	52.0	52.5	54.7	57.3	54.0	56.0
62 DHM 117	63.0	75.0	54.0	64.0	54.3	50.3	52.7	53.3	52.0	52.5	60.7	54.5	55.5	56.9	58.3	53.0	53.0
63 QMH-2910	58.7	70.5	50.0	59.7	54.0	53.3	50.7	47.7	48.5	50.8	54.0	55.0	51.0	53.3	57.7	48.0	52.7
64 BH-411001	57.0	69.5	48.5	58.3	50.3	55.3	49.0	46.3	62.0	52.6	54.7	47.0	51.0	50.9	56.3	47.0	51.0
65 Safal X-260	61.0	67.0	53.0	60.3	53.0	48.3	51.0	48.3	58.0	51.7	55.3	51.0	49.0	51.8	57.7	52.7	53.7
66 KNMH 4201	58.0	70.5	51.0	59.8	35.7	55.3	49.0	47.3	53.5	48.2	57.0	53.0	51.0	53.7	57.0	50.0	52.0
67 KNMH 4202	61.3	69.5	54.0	61.6	55.7	57.3	54.3	51.0	50.5	53.8	58.3	52.5	51.5	54.1	59.0	54.0	53.3
68 KNMH 4203	61.7	69.0	53.5	61.4	55.3	53.0	50.7	50.7	49.5	51.8	59.3	53.0	54.0	55.4	57.3	52.0	52.0
69 KNMH 4204	62.3	73.0	52.5	62.6	58.3	45.3	54.0	54.7	50.5	52.6	62.3	54.0	63.5	59.9	57.3	53.0	52.7
70 KNMH 4205	61.3	76.0	54.0	63.8	56.7	43.3	53.0	55.0	51.5	51.9	59.0	52.0	54.5	55.2	58.7	51.0	53.3
CHECKS																	
71 BIO 9637	58.3	72.0	54.0	61.4	54.3	54.3	54.7	49.7	50.5	52.7	56.3	54.5	53.0	54.6	57.7	49.0	51.3
72 HM 8	60.7	72.0	50.5	61.1	52.3	55.7	51.0	48.7	52.0	51.9	57.0	53.5	50.5	53.7	57.7	53.0	54.7
73 HM 9	57.3	70.5	50.0	59.3	52.7	50.3	51.0	46.0	48.5	49.7	57.7	53.5	51.0	54.1	56.0	50.0	51.3
74 HM 10	59.0	67.5	52.0	59.5	54.0	47.3	50.0	54.3	52.0	51.5	57.3	53.0	51.0	53.8	58.0	50.0	53.0
75 PMH 4	57.3	64.0	51.0	57.4	51.3	45.3	47.7	47.0	53.0	48.9	56.5	49.0	44.5	50.0	57.7	48.0	51.7
Loc. Mean	59.8	68.6	51.8	60.1	53.3	51.9	50.9	49.4	53.6	51.8	57.3	51.8	52.4	53.8	57.7	50.4	53.5
C.D. (5%)	2.87	6.75	3.13	3.60	5.49	1.59	0.76	1.87	4.06	3.55	2.75	4.09	2.29	2.94	1.78	0.40	1.90
C.V. (%)	2.98	4.94	3.03	3.71	6.39	1.90	0.92	2.35	3.80	5.50	2.98	3.96	2.20	3.39	1.91	0.49	2.19
F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.64	0.00	0.00

## B86

Table No. 2 (Continue

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED											ZN 5 Mean	OV'L Mean
		KARI	KOLH	MAND	VAGA	ZN 4 Mean				BANS	CHHI	GODH		
1	Meghan-G	47.3	59.7	55.0	51.7	54.1	55.3	46.3	55.3	52.0	55.0	56.0	53.3	54.0
2	FMH-603	46.3	58.0	53.3	50.3	52.6	49.3	46.0	53.7	50.3	57.5	54.3	51.9	52.6
3	Rasi-3033	47.7	61.7	56.0	52.0	54.5	52.3	43.3	55.3	50.0	58.5	57.3	52.8	54.9
4	Rasi-588	48.7	61.0	55.7	51.3	54.3	52.3	43.3	56.3	50.3	59.5	55.7	52.9	55.1
5	AMH-455	46.0	58.7	53.7	51.3	52.8	51.3	42.3	54.0	52.3	55.0	54.3	51.6	53.0
6	NMH-1281	47.7	60.0	54.0	51.3	53.9	52.0	43.7	55.0	53.0	57.5	56.0	52.9	54.1
7	NMH-1276	47.3	58.7	54.3	51.3	53.4	51.0	43.3	54.7	50.0	55.5	54.0	51.4	52.9
8	Bisco X 2711	46.7	59.0	53.7	51.0	53.6	50.0	42.7	53.3	49.0	57.0	53.7	50.9	53.1
9	NMH 1588	48.0	63.0	56.3	51.7	55.0	52.3	44.7	56.0	52.0	58.5	55.7	53.2	54.8
10	TI8334	48.7	60.7	55.0	53.7	54.7	54.3	42.7	56.7	52.0	54.5	57.0	52.9	54.5
11	IJ8533	48.7	62.0	55.3	52.0	55.0	52.0	42.7	56.0	49.0	57.5	55.3	52.1	54.6
12	DKC9108	44.3	57.0	50.7	48.3	50.9	49.3	41.3	52.0	46.0	54.0	55.3	49.7	50.7
13	VAMH 08014	49.3	63.0	56.3	52.3	55.3	54.0	46.0	57.0	50.3	57.5	56.7	53.6	55.4
14	JKMH 4511	48.0	60.3	55.3	51.7	54.0	53.3	43.3	54.0	51.0	58.5	55.3	52.6	54.5
15	S6850	48.7	62.7	56.0	52.0	54.7	54.3	44.0	56.7	50.7	59.5	56.0	53.5	55.1
16	S6790	47.7	62.0	55.3	52.7	54.8	55.0	47.0	54.0	56.7	59.5	56.0	54.7	55.6
17	BH-411036	49.7	62.3	57.3	54.3	55.8	55.3	53.0	58.7	55.7	58.5	56.0	56.2	56.8
18	KH-7647	47.0	59.0	55.3	52.3	53.7	51.0	45.3	55.0	53.0	55.0	55.3	52.4	54.1
19	KMH-25K45	46.7	60.3	55.7	51.3	54.0	51.0	44.0	55.0	50.3	54.0	56.7	51.8	54.1
20	KMH-7148	46.7	60.7	54.3	52.7	54.1	51.3	43.7	54.7	49.7	57.0	56.0	52.1	54.4
21	KMH-3110	47.0	58.7	54.3	51.7	53.7	51.7	41.0	54.7	49.3	54.0	53.0	50.6	53.7
22	KMH-6681	45.7	58.0	54.0	49.3	51.9	50.3	45.3	53.0	47.0	53.5	54.7	50.6	52.2
23	QMH-2966	46.3	59.7	53.3	51.3	53.4	51.0	45.3	55.0	49.0	56.0	54.0	51.7	52.9
24	EHL 111	46.0	58.0	53.0	52.0	52.7	50.3	52.3	53.3	51.0	56.5	54.0	52.9	52.9
25	EHL 2211	46.3	57.3	54.3	51.7	52.8	51.7	44.3	53.7	48.0	57.0	56.0	51.8	53.9
26	EHL 2311	46.7	58.7	53.3	51.3	53.1	49.0	44.7	54.7	50.0	59.5	54.7	52.1	53.2
27	NMH-1277	46.7	60.0	54.0	51.3	53.8	51.0	42.3	54.7	50.3	52.5	54.7	50.9	53.2
28	DAS MH-302	47.7	61.7	55.3	52.0	54.0	52.3	44.3	54.7	54.0	58.0	55.3	53.1	54.7
29	PRO 387	48.3	60.0	55.0	52.7	54.5	54.7	44.0	56.3	54.3	58.0	55.3	53.8	55.1
30	BIO 719	48.3	60.7	56.0	52.3	54.6	54.3	43.3	55.7	53.0	57.0	55.7	53.2	54.9

## B87

Table No. 2 (Continue

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED											ZN 5 Mean	OV'L Mean
		KARI	KOLH	MAND	VAGA	ZN 4 Mean				BANS	CHHI	GODH		
31	DAS MH-303	47.3	59.0	54.0	51.0	53.0	51.3	45.0	56.7	52.3	58.0	54.0	52.9	54.0
32	X35B403	46.7	57.7	53.7	50.0	52.0	50.3	43.3	54.0	49.3	57.0	54.7	51.4	53.0
33	CMH 10-529	47.0	59.0	55.3	51.3	53.6	55.0	46.7	55.0	50.7	59.5	54.3	53.5	54.6
34	BAUMH-2011-04	41.7	56.7	-	47.7	50.0	44.7	41.0	52.3	44.0	54.5	53.7	48.4	49.9
35	BAUMH-2011-13	46.3	59.0	53.7	50.3	53.4	50.3	44.7	55.3	51.3	55.5	55.0	52.0	53.8
36	LTH-21	45.7	58.0	53.7	50.3	52.2	49.3	43.3	53.3	49.7	56.0	53.0	50.8	52.2
37	CMH 10-473	51.0	62.7	58.0	55.3	56.3	56.3	43.7	57.3	55.7	59.5	58.3	55.1	55.9
38	X35B410	48.0	60.0	54.3	52.0	53.8	50.3	45.7	55.0	50.0	57.0	53.3	51.9	54.0
39	REH 2011-03	48.7	61.0	55.7	52.7	55.0	52.3	45.0	57.3	51.0	58.5	55.7	53.3	55.3
40	EC-3164	44.3	57.0	52.3	48.7	51.0	49.3	44.0	52.7	46.3	57.0	52.0	50.2	52.0
41	CMH 10-485	47.7	64.3	56.3	53.0	55.3	55.0	42.7	55.3	50.7	55.5	55.7	52.5	54.6
42	DH-12-01	43.0	57.0	52.0	48.0	50.9	47.3	46.3	52.0	45.0	54.0	52.7	49.6	51.0
43	CMH 10-486	52.3	63.3	60.3	57.0	57.6	57.3	53.3	59.7	49.0	-	57.7	55.4	57.3
44	REH 2011-4	47.0	59.7	54.7	51.7	54.2	51.3	43.0	55.7	50.7	58.0	55.3	52.3	54.4
45	AH 1209	43.7	58.0	52.0	50.0	51.5	46.0	45.7	53.0	47.7	55.5	52.3	50.0	51.5
46	AH 1210	43.7	57.7	50.3	48.7	51.1	47.3	42.3	52.7	46.0	53.5	53.7	49.3	51.3
47	JH 31583	45.7	57.3	54.3	51.7	52.4	51.3	43.0	52.7	49.3	54.5	54.3	50.9	52.9
48	JH 31598	45.0	57.0	54.0	50.7	51.6	50.3	41.3	51.7	48.0	56.5	54.3	50.4	52.0
49	JH 31599	45.3	57.0	54.0	52.0	52.5	49.3	42.0	52.3	49.3	53.5	54.0	50.1	52.1
50	HKH 334	45.7	58.3	53.7	50.7	52.4	51.3	41.0	53.3	50.0	55.0	54.0	50.8	52.7
51	HKH 335	45.0	59.0	53.0	50.7	52.4	51.3	45.0	52.7	49.0	55.5	52.7	51.0	52.4
52	HKH 336	45.7	57.3	51.7	49.0	51.7	49.3	42.0	54.7	48.3	55.5	53.0	50.5	52.4
53	Bio 9637 (Filler)	45.7	57.3	53.7	49.3	52.4	50.3	43.3	53.0	49.0	55.0	55.3	51.0	53.0
54	HM-4 (Filler)	44.7	57.7	54.0	50.3	52.0	48.3	43.7	53.0	48.3	57.0	54.0	50.7	52.0
55	Synthetics-1	46.7	58.7	54.3	52.0	53.6	51.3	43.0	55.3	55.7	57.0	55.7	53.0	54.1
56	MMH 12-4	43.0	57.0	50.0	48.3	50.3	49.3	42.7	51.7	47.3	53.5	55.3	50.0	50.6
57	MMH 12-5	45.0	57.7	53.0	51.3	52.5	51.7	43.0	53.3	49.7	58.5	52.0	51.4	52.7
58	MMH 12-6	47.3	62.0	56.0	51.3	54.2	54.0	42.0	57.3	52.3	55.5	56.3	52.9	54.5
59	MMH 12-7	45.7	58.0	53.7	50.3	52.5	50.3	45.0	55.0	48.7	55.0	54.3	51.4	52.6
60	MMH 12-8	46.7	60.0	55.0	50.3	53.8	50.3	41.0	55.0	51.3	56.5	53.7	51.3	54.0



Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																
					ZN 1					ZN 2					ZN 3			
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
1	Meghan-G	62.3	70.5	55.5	62.8	56.7	50.3	54.7	50.0	55.5	53.4	58.0	56.0	57.5	57.2	60.0	55.0	56.7
2	FMH-603	62.3	63.0	55.0	60.1	55.0	46.3	54.3	51.3	56.0	52.6	56.7	58.0	55.5	56.7	59.7	51.0	54.7
3	Rasi-3033	62.7	71.0	57.0	63.6	58.0	58.7	55.7	52.3	56.0	56.1	61.0	58.5	60.0	59.8	60.0	54.0	59.0
4	Rasi-588	63.3	67.5	57.0	62.6	61.3	59.0	54.7	52.7	64.5	58.4	61.0	57.0	57.0	58.3	59.7	53.0	57.0
5	AMH-455	63.0	63.0	53.5	59.8	55.3	53.7	50.7	49.7	61.5	54.2	58.7	57.0	60.5	58.7	59.7	51.0	55.7
6	NMH-1281	62.3	67.5	56.0	61.9	56.3	53.3	52.7	51.3	58.0	54.3	61.0	57.0	60.0	59.3	59.0	51.0	59.0
7	NMH-1276	58.3	65.5	52.5	58.8	54.3	55.3	53.3	50.0	55.5	53.7	56.7	56.0	53.5	55.4	59.7	50.0	59.0
8	Bisco X 2711	60.7	67.5	55.5	61.2	56.0	56.0	52.7	48.0	56.0	53.7	58.3	55.0	55.5	56.3	59.7	54.3	57.7
9	NMH 1588	65.3	69.0	57.0	63.8	63.3	51.7	56.0	52.0	56.0	55.8	60.7	51.5	61.0	57.7	58.3	56.0	58.3
10	TI8334	66.0	63.0	57.0	62.0	60.0	54.3	56.0	52.0	54.5	55.4	61.0	57.0	58.0	58.7	59.0	53.0	59.3
11	IJ8533	64.3	64.0	55.5	61.3	56.3	59.0	55.0	51.0	58.0	55.9	61.0	56.5	59.5	59.0	59.0	57.0	57.3
12	DKC9108	57.0	66.0	52.5	58.5	50.0	55.3	48.3	45.0	55.5	50.8	51.0	54.5	54.0	53.2	58.0	48.0	55.0
13	VAMH 08014	65.3	66.5	57.0	62.9	58.7	57.7	56.7	52.0	59.0	56.8	61.3	56.0	59.0	58.8	59.3	54.0	58.7
14	JKMH 4511	64.3	67.5	56.5	62.8	60.3	55.7	55.0	52.0	57.0	56.0	60.0	56.5	57.0	57.8	59.3	52.0	57.0
15	S6850	64.7	68.0	56.0	62.9	63.0	61.0	56.0	52.0	55.0	57.4	57.3	53.0	59.0	56.4	59.3	54.0	57.3
16	S6790	62.7	71.0	57.0	63.6	61.3	58.3	56.7	51.7	58.0	57.2	59.7	56.0	59.0	58.2	60.0	53.0	59.7
17	BH-411036	64.7	75.0	57.0	65.6	64.3	55.3	56.0	52.3	57.5	57.1	64.7	57.0	62.5	61.4	59.7	56.0	57.7
18	KH-7647	62.7	69.5	55.5	62.6	56.3	58.3	52.7	51.0	56.0	54.9	60.7	56.5	59.5	58.9	59.3	52.0	56.0
19	KMH-25K45	62.7	71.5	57.0	63.7	56.0	58.0	52.7	49.7	59.5	55.2	59.7	56.5	43.5	53.2	59.3	54.0	57.0
20	KMH-7148	58.7	72.0	57.0	62.6	56.3	55.3	53.0	55.3	59.0	55.8	57.0	58.0	57.0	57.3	59.3	53.0	58.0
21	KMH-3110	63.0	70.0	57.0	63.3	54.3	58.7	54.3	50.0	56.0	54.7	58.3	56.5	59.5	58.1	60.3	54.0	56.3
22	KMH-6681	61.3	63.5	57.0	60.6	54.3	60.7	49.7	47.3	55.5	53.5	56.3	54.0	55.0	55.1	59.3	49.0	52.7
23	QMH-2966	62.3	64.0	52.0	59.4	54.0	57.3	52.0	49.0	58.5	54.2	57.7	54.0	54.5	55.4	60.0	53.0	58.0
24	EHL 111	63.0	65.5	53.0	60.5	55.0	56.0	51.0	50.0	58.0	54.0	56.0	54.0	54.0	54.7	58.3	51.0	55.0
25	EHL 2211	63.3	74.0	56.0	64.4	57.3	57.3	51.3	50.0	60.5	55.3	58.3	54.5	59.5	57.4	59.0	51.0	55.3
26	EHL 2311	58.7	71.0	54.0	61.2	56.3	55.3	52.0	50.7	58.0	54.5	58.7	55.0	57.5	57.1	59.7	52.0	55.3
27	NMH-1277	62.0	68.5	56.0	62.2	53.0	53.0	53.7	51.3	57.5	53.7	57.7	55.0	56.5	56.4	59.0	54.0	56.0
28	DAS MH-302	65.0	68.5	57.0	63.5	55.3	59.7	55.0	51.0	56.5	55.5	60.7	56.5	59.0	58.7	58.7	53.0	55.3
29	PRO 387	63.0	75.0	56.0	64.7	60.3	59.7	52.3	51.7	57.5	56.3	60.0	54.0	60.0	58.0	59.3	55.0	57.0
30	BIO 719	65.7	70.5	57.0	64.4	56.7	58.7	53.0	52.0	56.5	55.4	59.7	55.0	60.0	58.2	60.3	56.0	56.3

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																	
		BAJA			BARA			KANG			ZN 1				ZN 2				ZN 3
		Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE				
31	DAS MH-303	63.3	65.5	55.5	61.4	58.0	57.7	55.0	51.0	57.0	55.7	61.0	57.0	62.0	60.0	58.3	52.0	57.7	
32	X35B403	62.0	66.0	55.5	61.2	56.3	53.0	54.0	50.3	56.0	53.9	58.0	55.0	59.5	57.5	58.0	50.0	54.0	
33	CMH 10-529	63.0	74.0	55.5	64.2	56.3	57.7	53.7	50.0	54.5	54.4	59.3	55.0	60.0	58.1	57.7	53.0	59.3	
34	BAUMH-2011-04	57.0	66.0	51.5	58.2	50.7	59.0	46.7	44.3	55.0	51.1	52.3	52.0	54.5	52.9	58.7	47.3	54.0	
35	BAUMH-2011-13	62.0	73.5	51.0	62.2	57.3	56.3	58.0	50.0	58.0	55.9	59.3	56.5	57.5	57.8	60.0	54.0	57.0	
36	LTH-21	59.7	64.5	55.5	59.9	52.3	59.7	51.7	46.7	57.0	53.5	56.3	53.5	55.5	55.1	58.3	50.0	55.3	
37	CMH 10-473	64.7	71.5	57.0	64.4	63.0	52.3	56.3	54.0	53.0	55.7	61.3	55.5	60.5	59.1	58.0	58.3	57.0	
38	X35B410	64.7	68.5	56.0	63.1	55.0	59.3	54.7	50.7	56.0	55.1	59.0	55.0	60.0	58.0	57.7	52.0	57.7	
39	REH 2011-03	64.3	73.0	55.0	64.1	58.3	61.0	53.0	51.0	57.0	56.1	59.3	57.0	63.0	59.8	58.3	55.3	59.3	
40	EC-3164	63.3	68.0	55.5	62.3	53.7	56.3	52.7	47.3	56.5	53.3	55.3	55.0	54.5	54.9	59.3	49.0	53.3	
41	CMH 10-485	65.0	76.5	55.5	65.7	56.3	51.3	53.7	52.0	57.5	54.2	59.3	56.0	54.0	56.4	59.3	56.0	56.3	
42	DH-12-01	58.7	68.0	53.5	60.1	52.3	48.7	50.0	46.0	55.0	50.4	55.3	54.5	55.5	55.1	58.7	50.0	53.3	
43	CMH 10-486	64.3	77.0	57.0	66.1	63.7	46.3	-	54.3	57.0	55.3	64.3	59.5	65.5	63.1	59.0	57.0	60.7	
44	REH 2011-4	63.3	70.5	54.0	62.6	58.0	61.3	53.3	51.7	57.0	56.3	59.3	55.5	57.0	57.3	58.3	53.0	60.0	
45	AH 1209	59.0	68.0	52.0	59.7	54.3	50.3	52.0	48.7	56.0	52.3	55.7	58.0	54.5	56.1	59.3	49.0	54.0	
46	AH 1210	56.7	69.5	50.5	58.9	52.0	51.3	49.7	46.0	61.5	52.1	54.0	54.0	53.0	53.7	60.7	49.0	54.7	
47	JH 31583	62.0	72.5	54.0	62.8	54.7	56.7	51.7	48.0	57.5	53.7	54.7	58.0	56.0	56.2	59.3	50.0	53.3	
48	JH 31598	58.7	69.5	55.5	61.2	52.7	58.3	49.7	47.3	56.5	52.9	54.7	55.0	55.0	54.9	59.0	49.0	53.3	
49	JH 31599	60.7	68.5	51.0	60.1	56.0	55.0	50.3	48.3	55.0	52.9	57.3	54.0	55.5	55.6	59.3	51.0	54.7	
50	HKH 334	60.7	70.5	57.0	62.7	54.0	57.7	52.0	52.0	55.0	54.1	56.7	57.5	51.0	55.1	59.7	51.0	54.0	
51	HKH 335	60.0	70.0	57.5	62.5	54.3	55.3	50.7	49.3	50.5	52.0	55.3	54.5	57.5	55.8	58.7	51.7	54.0	
52	HKH 336	60.7	72.5	54.5	62.6	54.3	57.0	50.7	48.3	56.5	53.4	58.7	53.5	54.5	55.6	59.3	51.0	53.7	
53	Bio 9637 (Filler)	61.3	71.5	54.0	62.3	55.0	56.7	52.0	51.0	53.5	53.6	57.7	56.0	62.0	58.6	59.7	54.0	52.3	
54	HM-4 (Filler)	60.3	68.5	55.5	61.4	53.7	52.3	48.7	47.7	54.0	51.3	56.7	56.0	54.5	55.7	60.3	50.0	53.3	
55	Synthetics-1	62.7	71.0	56.0	63.2	56.0	50.3	53.7	50.7	60.0	54.1	60.7	57.5	57.5	58.6	59.0	55.0	55.7	
56	MMH 12-4	57.3	66.0	49.0	57.4	50.3	54.0	49.3	44.3	58.5	51.3	52.3	55.0	53.0	53.4	58.3	47.3	53.0	
57	MMH 12-5	61.7	68.0	54.0	61.2	53.3	57.3	50.7	48.3	56.5	53.2	59.3	53.5	53.0	55.3	59.3	49.0	58.7	
58	MMH 12-6	65.7	72.0	57.0	64.9	63.3	48.3	55.7	52.0	60.5	56.0	57.7	56.5	55.0	56.4	59.7	51.0	57.3	
59	MMH 12-7	61.0	70.0	54.0	61.7	55.7	53.0	53.7	49.7	58.0	54.0	56.7	56.5	54.5	55.9	59.7	51.0	54.3	
60	MMH 12-8	63.7	68.5	55.5	62.6	58.0	55.0	56.3	50.7	56.0	55.2	58.7	56.5	59.5	58.2	60.0	52.0	57.3	



Table No. 2 (Continued)

		DAYS TO 50% SILKING																
		ZN 1					ZN 2					ZN 3						
S.No.	PEDIGREE	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
61	VARANASI H12-1	63.3	70.0	57.0	63.4	56.7	51.7	54.0	51.0	56.0	53.9	61.3	56.5	58.0	58.6	59.0	56.0	57.7
62	DHM 117	65.3	76.0	57.0	66.1	60.7	54.3	54.7	53.0	55.5	55.6	61.7	59.0	65.5	62.1	59.0	55.0	55.7
63	QMH-2910	61.7	71.5	54.0	62.4	57.3	56.3	52.7	49.0	51.5	53.4	57.3	59.5	56.0	57.6	59.0	50.0	55.0
64	BH-411001	59.3	70.5	51.5	60.4	53.7	59.7	51.0	47.7	65.5	55.5	56.3	51.5	56.5	54.8	58.3	49.0	53.3
65	Safal X-260	63.0	68.0	55.5	62.2	56.0	52.3	53.0	49.3	61.0	54.3	56.3	55.0	53.5	54.9	58.3	55.0	55.0
66	KNMH 4201	60.0	71.5	54.5	62.0	53.3	59.3	52.0	48.3	56.5	53.9	57.7	57.0	55.5	56.7	59.0	52.0	54.7
67	KNMH 4202	64.0	70.5	57.0	63.8	58.7	61.0	56.3	51.3	53.0	56.1	60.3	57.0	57.5	58.3	58.7	56.0	55.7
68	KNMH 4203	64.0	70.0	56.5	63.5	64.0	56.3	52.7	52.3	53.5	55.8	61.3	57.0	59.0	59.1	59.0	54.0	54.0
69	KNMH 4204	65.0	74.0	56.0	65.0	63.7	52.3	56.0	55.3	54.0	56.3	63.0	58.0	67.5	62.8	60.0	55.0	54.7
70	KNMH 4205	64.0	77.0	57.0	66.0	64.0	50.3	56.0	56.0	55.0	56.3	60.3	56.0	62.0	59.4	60.0	53.0	55.3
CHECKS																		
71	BIO 9637	60.7	73.0	57.0	63.6	56.3	54.0	56.7	50.7	54.0	54.3	58.7	53.5	58.0	56.7	59.7	51.0	53.7
72	HM 8	63.0	73.0	54.5	63.5	54.3	57.3	53.0	49.7	55.0	53.9	58.3	57.5	55.5	57.1	59.3	55.0	57.3
73	HM 9	59.3	71.5	53.5	61.4	55.0	48.3	53.0	48.3	51.0	51.1	59.7	57.5	55.5	57.6	58.3	52.0	52.7
74	HM 10	61.7	68.5	55.0	61.7	60.0	50.3	52.0	55.3	55.0	54.5	59.0	57.0	57.0	57.7	59.3	52.0	55.3
75	PMH 4	59.3	65.0	55.0	59.8	54.3	49.3	49.7	48.0	55.5	51.4	58.5	53.0	49.5	53.7	58.7	50.3	53.7
	Loc. Mean	62.2	69.6	55.2	62.3	56.7	55.3	53.1	50.3	56.6	54.4	58.5	55.8	57.3	57.2	59.2	52.4	56.0
	C.D. (5%)	2.93	6.75	2.92	3.54	2.72	1.39	0.80	1.85	3.90	3.40	2.74	4.31	5.68	3.47	1.62	0.39	2.31
	C.V. (%)	2.92	4.87	2.66	3.52	2.97	1.56	0.93	2.28	3.46	5.02	2.90	3.88	4.97	3.77	1.69	0.46	2.56
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.08	0.00	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING											ZN 5 Mean	OV'L Mean
		KARI	KOLH	MAND	VAGA	ZN 4 Mean				BANS	CHHI	GODH		
1	Meghan-G	48.3	60.7	58.0	54.3	56.1	58.0	50.0	56.3	54.3	55.0	58.0	55.3	56.3
2	FMH-603	48.3	59.7	56.3	53.7	54.8	52.7	49.0	55.7	52.0	57.5	56.3	53.9	55.0
3	Rasi-3033	49.0	62.7	60.3	55.0	57.1	55.3	46.3	57.3	51.7	58.5	59.3	54.8	57.5
4	Rasi-588	50.0	62.7	60.3	55.3	56.9	55.0	46.3	57.3	51.7	59.5	57.7	54.6	57.5
5	AMH-455	48.0	60.0	55.3	54.3	54.9	53.7	45.7	55.3	53.7	55.0	56.3	53.3	55.4
6	NMH-1281	49.3	62.3	56.3	54.3	55.9	55.3	46.7	56.7	55.7	57.5	58.0	55.0	56.5
7	NMH-1276	48.0	60.0	56.0	53.7	55.2	54.0	46.3	54.7	51.0	55.5	56.0	52.9	54.8
8	Bisco X 2711	47.3	60.0	56.0	54.3	55.6	52.7	46.3	54.7	50.7	57.0	55.7	52.8	55.3
9	NMH 1588	49.3	65.0	60.0	55.0	57.4	54.3	48.0	57.7	53.3	58.5	57.7	54.9	57.3
10	TI8334	49.7	61.7	57.3	55.7	56.5	57.3	46.3	57.3	54.3	54.5	59.0	54.8	56.8
11	IJ8533	50.3	63.3	57.0	55.0	57.0	55.3	45.7	57.3	51.0	57.5	57.3	54.0	56.8
12	DKC9108	46.0	58.0	52.3	51.7	52.7	52.3	44.3	52.0	47.7	54.0	57.3	51.3	52.7
13	VAMH 08014	50.7	65.0	59.3	56.3	57.6	57.0	49.7	57.0	51.3	57.5	58.7	55.2	57.7
14	JKMH 4511	49.3	61.7	57.0	54.3	55.8	56.0	46.3	55.3	53.0	58.5	57.3	54.4	56.6
15	S6850	49.7	64.7	59.0	55.0	57.0	57.7	47.0	56.7	53.0	59.5	58.3	55.4	57.3
16	S6790	48.3	63.3	59.0	55.3	57.0	57.7	50.0	57.0	59.0	59.5	58.0	56.9	58.0
17	BH-411036	50.7	64.3	61.3	58.3	58.3	58.7	56.0	59.0	58.0	58.5	58.0	58.0	59.3
18	KH-7647	47.7	60.3	58.7	55.0	55.6	54.0	48.3	55.3	54.7	55.0	57.3	54.1	56.3
19	KMH-25K45	48.3	62.3	58.0	55.0	56.3	54.0	47.0	56.7	52.3	54.0	58.7	53.8	56.0
20	KMH-7148	48.0	62.3	57.0	55.7	56.2	53.7	47.0	55.0	50.7	57.0	58.0	53.6	56.4
21	KMH-3110	48.7	60.3	57.0	54.7	55.9	55.0	44.3	55.0	50.7	54.0	55.0	52.3	56.0
22	KMH-6681	47.0	59.7	55.7	53.7	53.9	53.7	48.3	54.7	49.3	53.5	56.7	52.7	54.5
23	QMH-2966	47.7	61.3	56.0	54.3	55.8	54.0	49.7	55.0	52.0	56.0	56.3	53.8	55.4
24	EHL 111	47.0	59.7	56.0	55.0	54.6	53.3	55.3	54.7	52.3	56.5	56.0	54.7	55.2
25	EHL 2211	46.7	58.3	55.7	55.3	54.5	54.3	47.7	53.7	51.3	57.0	58.0	53.7	56.1
26	EHL 2311	47.7	60.0	56.3	54.7	55.1	53.0	47.7	56.0	52.3	59.5	56.7	54.2	55.8
27	NMH-1277	48.0	61.7	56.3	54.3	55.6	53.7	45.7	55.0	51.3	52.5	56.7	52.5	55.3
28	DAS MH-302	48.7	63.0	57.7	53.7	55.7	55.0	47.7	56.3	55.0	58.0	57.3	54.9	56.8
29	PRO 387	49.0	61.3	57.7	56.0	56.5	57.7	47.3	56.7	55.7	58.0	57.3	55.4	57.4
30	BIO 719	49.0	61.7	58.7	54.3	56.6	57.0	47.0	56.3	55.0	57.0	57.7	55.0	57.1

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING											ZN 5 Mean	OV'L Mean
		KARI	KOLH	MAND	VAGA	ZN 4 Mean			AMBI	BANS	CHHI	GODH		
31	DAS MH-303	48.7	60.7	57.7	53.7	55.5	54.3	48.3	58.7	53.3	58.0	56.0	54.8	56.7
32	X35B403	47.3	58.7	56.3	53.0	53.9	53.3	46.3	54.3	52.0	57.0	56.3	53.2	55.1
33	CMH 10-529	47.7	60.3	57.0	53.7	55.5	58.0	50.0	55.0	53.0	59.5	56.3	55.3	56.6
34	BAUMH-2011-04	43.7	57.7	-	51.0	52.1	48.0	44.0	52.7	46.0	54.5	56.0	50.2	52.3
35	BAUMH-2011-13	48.0	60.3	56.7	53.7	55.7	53.7	47.7	56.0	53.0	55.5	57.3	53.9	56.3
36	LTH-21	47.0	59.0	56.0	53.7	54.2	52.0	46.3	55.3	50.7	56.0	55.0	52.6	54.5
37	CMH 10-473	52.7	64.3	61.0	57.7	58.4	59.3	47.0	59.0	56.7	59.5	60.3	57.0	58.3
38	X35B410	48.7	61.0	56.7	54.3	55.4	53.0	48.7	55.3	51.3	57.0	55.3	53.4	56.1
39	REH 2011-03	49.3	62.3	57.0	55.0	56.7	55.3	48.0	57.3	53.0	58.5	58.0	55.0	57.5
40	EC-3164	46.0	58.0	55.0	51.7	53.2	52.3	47.3	54.7	48.3	57.0	54.0	52.3	54.3
41	CMH 10-485	48.3	62.3	59.3	56.3	56.9	57.7	45.7	56.0	53.0	55.5	57.7	54.3	56.7
42	DH-12-01	45.0	58.3	54.3	50.3	52.9	50.3	50.0	52.7	47.3	54.0	55.3	51.6	53.2
43	CMH 10-486	52.7	65.3	62.7	59.7	59.6	60.3	56.3	59.7	52.3	-	59.7	57.7	59.7
44	REH 2011-4	48.7	61.0	57.0	53.7	56.0	54.3	46.0	57.7	52.0	58.0	57.3	54.2	56.6
45	AH 1209	45.7	59.3	55.0	56.0	54.0	49.0	48.7	55.0	49.3	55.5	54.3	52.0	54.1
46	AH 1210	45.0	59.0	51.7	52.7	53.2	50.3	45.7	52.7	48.0	53.5	55.7	51.0	53.2
47	JH 31583	47.0	58.7	57.0	54.7	54.3	54.3	46.3	53.0	52.3	54.5	56.3	52.8	55.1
48	JH 31598	46.0	58.0	55.7	53.7	53.5	53.7	45.0	52.0	50.3	56.5	56.3	52.3	54.2
49	JH 31599	46.7	58.0	56.0	54.0	54.2	52.3	45.0	52.7	50.7	53.5	56.0	51.7	54.2
50	HKH 334	47.0	59.7	55.3	54.3	54.4	54.0	44.0	55.3	52.0	55.0	56.0	52.7	55.1
51	HKH 335	45.7	60.3	54.3	54.0	54.1	54.3	48.0	54.7	51.0	55.5	54.7	53.0	54.7
52	HKH 336	46.7	58.3	52.7	51.7	53.3	52.7	45.3	54.7	50.7	55.5	55.0	52.3	54.5
53	Bio 9637 (Filler)	47.3	58.7	56.3	52.3	54.4	53.0	46.3	55.0	51.7	55.0	57.3	53.1	55.4
54	HM-4 (Filler)	46.0	58.7	56.3	54.3	54.1	51.3	46.7	54.0	50.0	57.0	56.0	52.5	54.2
55	Synthetics-1	48.7	60.0	57.0	55.0	55.8	54.0	46.0	56.7	57.7	57.0	57.7	54.8	56.5
56	MMH 12-4	45.0	58.3	51.0	51.7	52.1	52.0	45.7	51.7	50.3	53.5	57.3	51.8	52.7
57	MMH 12-5	46.3	58.7	54.7	54.7	54.5	54.7	46.0	53.3	51.7	58.5	54.7	53.1	54.8
58	MMH 12-6	48.7	63.3	59.3	54.3	56.2	56.7	45.3	57.3	53.7	55.5	58.3	54.5	56.8
59	MMH 12-7	47.0	59.3	55.3	54.0	54.4	53.0	48.7	55.3	52.0	55.0	56.3	53.4	55.2
60	MMH 12-8	48.3	61.3	57.0	53.7	55.7	53.3	44.0	56.0	52.7	56.5	55.7	53.0	56.1



Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK															
		ZN 1				ZN 2				ZN 3							
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	Mean	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI
1	Meghan-G	109.7	123.0	94.5	109.1	106.0	90.7	84.0	91.7	93.1	86.3	92.5	92.5	90.4	96.0	100.7	74.0
2	FMH-603	104.3	121.0	94.5	106.6	102.7	86.3	84.3	86.7	90.0	85.0	95.0	87.5	89.2	88.0	103.3	76.3
3	Rasi-3033	106.0	122.5	94.5	107.7	107.0	88.3	84.7	87.7	91.9	89.7	95.5	92.0	92.4	96.0	102.3	75.7
4	Rasi-588	114.3	122.0	94.5	110.3	111.3	90.7	84.0	88.3	93.6	88.3	94.0	89.5	90.6	92.0	103.0	81.0
5	AMH-455	105.3	121.5	93.0	106.6	104.7	91.0	82.7	88.7	91.8	88.3	94.0	94.5	92.3	88.0	103.3	76.0
6	NMH-1281	104.7	122.0	95.0	107.2	103.7	89.3	82.3	91.3	91.7	89.7	93.0	96.0	92.9	88.0	104.7	74.7
7	NMH-1276	100.3	121.0	92.5	104.6	102.7	87.3	81.3	85.7	89.3	83.3	91.5	85.0	86.6	88.0	102.0	76.7
8	Bisco X 2711	106.3	122.0	94.5	107.6	107.3	89.7	81.7	86.3	91.2	85.0	91.0	89.0	88.3	96.0	102.0	74.7
9	NMH 1588	104.7	122.0	94.5	107.1	103.0	87.7	79.7	85.7	89.0	87.0	88.5	90.0	88.5	98.0	102.0	75.7
10	TI8334	112.0	121.0	94.5	109.2	107.0	88.3	84.3	88.3	92.0	90.7	94.0	89.5	91.4	92.0	102.0	77.0
11	IJ8533	111.3	120.5	94.0	108.6	108.3	86.3	84.0	93.7	93.1	89.0	93.5	92.5	91.7	98.0	103.3	76.0
12	DKC9108	103.3	121.5	92.5	105.8	95.3	87.7	81.3	83.7	87.0	77.7	90.0	87.0	84.9	84.0	101.0	73.7
13	VAMH 08014	109.3	121.5	95.0	108.6	105.7	90.3	81.3	86.7	91.0	87.3	93.0	90.5	90.3	95.0	100.3	76.7
14	JKMH 4511	105.0	121.5	94.0	106.8	103.0	91.7	82.7	88.3	91.4	87.7	93.5	91.0	90.7	90.0	102.3	76.7
15	S6850	108.3	121.0	95.0	108.1	112.0	89.3	84.3	87.3	93.3	85.0	91.0	94.0	90.0	96.0	101.3	77.0
16	S6790	110.3	123.0	94.5	109.3	110.3	86.3	83.7	90.0	92.6	88.3	93.0	90.0	90.4	92.0	101.0	77.0
17	BH-411036	108.3	123.0	95.0	108.8	108.3	89.3	83.7	89.7	92.7	92.7	94.5	94.5	93.9	96.7	100.3	77.3
18	KH-7647	107.0	123.0	94.0	108.0	110.0	87.3	82.0	87.3	91.7	87.0	93.5	91.5	90.7	90.0	101.0	76.3
19	KMH-25K45	108.0	123.0	95.0	108.7	102.7	91.7	83.0	87.3	91.2	88.0	94.0	93.0	91.7	95.0	101.7	74.7
20	KMH-7148	108.7	123.0	94.0	108.6	94.3	92.7	86.0	101.0	93.5	88.3	95.0	91.0	91.4	92.0	100.0	73.7
21	KMH-3110	103.7	123.0	95.0	107.2	96.7	88.7	82.0	89.0	89.1	84.7	94.0	92.0	90.2	96.0	102.0	75.7
22	KMH-6681	109.7	121.5	94.0	108.4	108.3	86.0	82.0	87.7	91.0	83.3	91.5	90.5	88.4	86.0	100.3	76.0
23	QMH-2966	103.3	122.0	93.0	106.1	97.7	88.3	80.7	85.7	88.1	83.7	90.0	82.5	85.4	91.3	101.7	74.0
24	EHL 111	104.0	122.0	92.5	106.2	104.7	91.0	80.0	84.3	90.0	83.0	91.0	87.5	87.2	88.0	101.3	75.0
25	EHL 2211	101.7	123.0	94.5	106.4	105.3	91.7	81.3	85.7	91.0	85.7	91.5	88.0	88.4	88.0	101.3	77.0
26	EHL 2311	98.7	123.0	93.5	105.1	103.7	87.7	80.0	89.3	90.2	84.3	91.0	87.0	87.4	90.0	100.0	75.0
27	NMH-1277	100.0	122.0	94.5	105.5	104.3	89.3	81.3	86.3	90.3	85.7	91.0	87.0	87.9	96.0	101.3	75.0
28	DAS MH-302	108.3	122.0	95.0	108.4	103.7	92.3	81.0	86.3	90.8	88.0	93.5	87.5	89.7	92.0	100.3	77.0
29	PRO 387	110.7	123.0	94.5	109.4	110.0	88.3	84.0	91.7	93.5	88.3	90.5	96.5	91.8	96.0	100.0	77.3
30	BIO 719	108.0	123.0	94.5	108.5	106.7	88.3	84.3	89.7	92.3	88.3	93.5	91.5	91.1	98.0	100.3	76.0

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK															
					ZN 1					ZN 2					ZN 3		
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	Mean	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI
31	DAS MH-303	108.0	121.0	94.0	107.7	103.7	88.7	84.7	87.3	91.1	88.7	94.0	93.0	91.9	90.0	99.3	77.3
32	X35B403	102.3	121.0	93.5	105.6	107.3	87.3	82.3	86.3	90.8	84.7	91.0	90.5	88.7	88.0	99.7	76.3
33	CMH 10-529	104.3	122.0	94.0	106.8	105.3	88.3	81.0	85.7	90.1	86.3	91.5	90.0	89.3	92.0	102.7	76.7
34	BAUMH-2011-04	101.3	124.0	91.5	105.6	92.3	89.7	80.0	80.0	85.5	80.7	89.0	85.0	84.9	84.0	98.7	73.3
35	BAUMH-2011-13	105.7	123.0	92.0	106.9	108.0	90.7	83.3	86.3	92.1	88.0	93.5	88.5	90.0	94.3	100.0	76.3
36	LTH-21	105.3	122.5	94.0	107.3	92.3	89.3	82.7	81.7	86.5	82.3	94.5	89.0	88.6	88.0	100.7	73.7
37	CMH 10-473	109.7	122.5	94.5	108.9	108.3	86.3	84.3	91.0	92.5	88.0	92.5	91.5	90.7	100.0	101.7	75.7
38	X35B410	104.3	122.0	94.5	106.9	94.3	92.7	82.3	85.7	88.8	86.7	91.5	94.0	90.7	90.0	104.0	76.3
39	REH 2011-03	110.7	123.0	94.5	109.4	107.0	89.7	84.3	93.7	93.7	86.7	95.0	92.5	91.4	96.0	103.7	79.7
40	EC-3164	106.0	123.5	94.5	108.0	108.0	87.3	81.3	84.0	90.2	81.3	92.0	89.0	87.4	86.0	95.7	75.0
41	CMH 10-485	106.3	122.5	94.0	107.6	106.3	88.3	81.7	86.0	90.6	86.3	92.5	87.5	88.8	96.0	101.7	75.0
42	DH-12-01	100.7	123.5	93.0	105.7	103.7	89.3	81.7	80.7	88.8	82.7	91.0	89.0	87.6	88.0	98.7	75.3
43	CMH 10-486	110.7	123.0	95.0	109.6	110.0	87.7	-	94.7	97.4	88.7	96.0	92.5	92.4	98.0	100.3	77.3
44	REH 2011-4	108.3	123.5	93.5	108.4	106.0	86.3	82.0	88.3	90.7	86.3	93.0	89.5	89.6	92.3	101.3	77.0
45	AH 1209	99.3	123.5	92.0	104.9	104.3	87.7	81.3	82.0	88.8	82.0	94.5	87.5	88.0	88.0	96.3	74.7
46	AH 1210	100.0	124.0	92.0	105.3	94.3	90.0	80.7	86.0	87.8	80.3	91.5	83.0	84.9	85.0	98.0	75.3
47	JH 31583	105.0	123.0	93.0	107.0	109.0	92.7	83.0	87.3	93.0	82.0	93.5	91.5	89.0	88.0	97.3	76.3
48	JH 31598	101.3	123.5	94.5	106.4	97.3	92.0	81.0	86.0	89.1	82.7	92.0	88.5	87.7	86.0	99.0	73.7
49	JH 31599	104.7	123.0	92.0	106.6	107.0	90.7	81.3	86.3	91.3	85.0	90.0	92.0	89.0	88.0	100.7	74.7
50	HKH 334	107.7	123.0	95.0	108.6	106.7	87.7	83.7	91.3	92.3	85.3	93.5	90.5	89.8	88.0	102.7	74.3
51	HKH 335	104.3	123.0	95.0	107.4	94.7	88.0	82.0	83.0	86.9	84.0	91.5	85.0	86.8	90.0	100.7	74.7
52	HKH 336	105.0	123.0	93.5	107.2	97.7	89.7	81.7	86.7	88.9	86.0	90.5	88.5	88.3	88.0	100.3	73.7
53	Bio 9637 (Filler)	106.7	123.0	93.0	107.6	111.0	91.3	82.3	90.7	93.8	85.3	92.5	104.0	93.9	96.0	98.3	76.3
54	HM-4 (Filler)	100.3	123.5	94.0	105.9	105.3	88.3	82.3	80.7	89.2	82.7	92.5	91.5	88.9	88.0	100.7	75.7
55	Synthetics-1	106.3	123.0	94.5	107.9	110.0	88.0	82.7	88.0	92.2	86.3	94.0	86.0	88.8	96.0	103.3	73.7
56	MMH 12-4	102.0	123.0	91.5	105.5	91.7	89.3	79.7	82.7	85.8	80.3	91.5	85.0	85.6	83.3	97.3	76.0
57	MMH 12-5	103.3	123.5	93.5	106.8	97.7	89.0	81.0	84.3	88.0	86.7	92.0	89.0	89.2	86.0	101.7	76.0
58	MMH 12-6	110.3	123.0	95.0	109.4	97.7	87.7	83.7	88.3	89.3	85.3	93.0	86.5	88.3	89.3	102.0	77.7
59	MMH 12-7	105.3	123.0	93.0	107.1	104.0	90.0	83.7	87.3	91.3	83.7	93.5	86.5	87.9	88.0	98.7	76.0
60	MMH 12-8	104.0	122.0	94.5	106.8	104.7	92.7	83.7	89.0	92.5	86.3	92.0	90.0	89.4	90.0	102.3	73.0

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK															
		ZN 1					ZN 2					ZN 3					
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	Mean	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI
61	VARANASI H12-1	105.3	123.0	95.0	107.8	106.0	92.0	82.3	87.3	91.9	88.7	93.5	90.0	90.7	98.0	101.7	76.0
62	DHM 117	104.0	123.0	94.0	107.0	106.0	90.7	83.3	93.7	93.4	90.0	96.5	95.5	94.0	96.0	101.3	77.0
63	QMH-2910	101.7	123.0	94.0	106.2	101.3	90.0	81.3	85.3	89.5	82.7	97.0	88.0	89.2	88.0	99.0	76.3
64	BH-411001	105.7	123.0	91.5	106.7	107.7	92.7	84.0	99.7	96.0	83.3	88.5	90.5	87.4	85.0	97.3	76.0
65	Safal X-260	110.0	122.0	94.0	108.7	111.3	92.0	82.0	87.3	93.2	84.3	92.0	86.0	87.4	96.0	101.3	76.7
66	KNMH 4201	102.0	122.0	93.5	105.8	106.7	90.7	81.0	85.7	91.0	87.3	94.5	85.5	89.1	90.0	99.3	77.3
67	KNMH 4202	107.7	122.0	95.0	108.2	108.0	87.7	86.7	87.7	92.5	88.0	93.5	72.5	84.7	96.0	100.7	75.0
68	KNMH 4203	103.3	123.0	94.0	106.8	105.0	91.0	80.0	87.0	90.8	89.0	95.0	93.5	92.5	95.0	101.3	76.0
69	KNMH 4204	107.3	123.0	95.0	108.4	108.3	93.3	84.3	101.3	96.8	91.7	95.0	97.5	94.7	96.0	100.3	77.3
70	KNMH 4205	108.3	123.0	95.0	108.8	111.7	91.3	81.3	101.3	96.4	88.0	92.5	92.5	91.0	92.0	101.3	77.7
	CHECKS																
71	BIO 9637	106.0	124.0	94.0	108.0	107.0	89.7	83.0	88.0	91.9	86.7	92.0	89.5	89.4	88.0	98.0	76.3
72	HM 8	108.0	124.0	93.0	108.3	103.3	92.0	81.3	85.7	90.6	86.0	94.0	85.0	88.3	95.0	103.0	77.0
73	HM 9	108.7	123.0	93.0	108.2	102.0	84.7	81.3	87.0	88.8	87.3	95.0	89.5	90.6	90.0	95.7	76.7
74	HM 10	105.3	123.5	93.0	107.3	101.0	88.0	83.0	101.3	93.3	86.7	94.0	95.0	91.9	90.0	100.7	76.3
75	PMH 4	100.0	122.0	93.5	105.2	111.7	87.3	82.3	85.7	91.8	85.0	90.5	82.5	86.0	88.0	96.7	75.0
	Loc. Mean	105.7	122.6	93.9	107.4	104.4	89.4	82.4	88.1	91.1	85.9	92.7	89.7	89.5	91.4	100.7	75.9
	C.D. (5%)	4.84	1.64	1.64	3.27	6.53	1.77	1.30	3.97	4.69	3.99	4.42	6.46	4.12	0.42	2.59	2.04
	C.V. (%)	2.83	0.67	0.88	1.89	3.88	1.23	0.97	2.79	3.69	2.87	2.39	3.61	2.86	0.28	1.60	1.66
	F (Prob)	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00

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Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK										ZN 5 Mean	OV'L Mean
		KOLH	MAND	VAGA	ZN 4						UDAI		
					Mean	AMBI	BANS	CHHI	GODH	BHIL			
1	Meghan-G	100.3	105.0	106.0	97.0	95.7	81.0	96.7	85.3	88.5	90.3	89.6	95.0
2	FMH-603	100.7	102.0	106.7	96.2	94.7	80.3	93.3	82.0	88.0	88.3	87.8	93.2
3	Rasi-3033	100.3	101.3	106.7	97.1	97.0	79.3	95.7	87.7	91.0	90.0	90.1	95.0
4	Rasi-588	100.7	103.0	106.7	97.7	94.7	74.7	95.7	84.7	88.5	89.7	88.0	95.1
5	AMH-455	100.7	100.3	105.3	95.6	91.7	75.0	94.7	85.0	90.0	89.0	87.6	93.8
6	NMH-1281	101.7	99.7	107.3	96.0	95.3	78.7	94.0	85.7	54.0	89.0	82.8	92.7
7	NMH-1276	101.3	98.7	106.7	95.6	90.0	76.0	89.0	84.0	86.5	89.0	85.8	91.8
8	Bisco X 2711	100.3	100.7	108.7	97.1	92.7	79.0	91.3	82.0	88.5	88.7	87.0	93.5
9	NMH 1588	101.7	99.0	108.3	97.4	90.0	80.3	93.3	84.7	88.5	90.0	87.8	93.4
10	TI8334	101.7	99.0	107.7	96.6	97.0	77.0	96.0	88.3	89.0	91.0	89.7	94.9
11	IJ8533	102.7	103.3	105.3	98.1	95.7	77.0	99.7	82.3	91.0	91.0	89.4	95.4
12	DKC9108	99.3	99.0	104.3	93.6	93.0	75.7	88.7	79.7	84.0	89.0	85.0	90.5
13	VAMH 08014	100.7	101.0	108.3	97.0	93.0	80.0	90.7	86.3	89.0	90.7	88.3	94.2
14	JKMH 4511	101.0	98.0	107.7	95.9	91.7	79.3	90.0	85.3	89.0	89.7	87.5	93.6
15	S6850	101.7	103.0	107.3	97.7	97.3	76.7	95.3	89.7	94.0	90.7	90.6	95.3
16	S6790	100.3	101.3	108.7	96.7	95.0	81.3	93.7	92.7	91.0	90.3	90.7	95.2
17	BH-411036	103.0	102.3	108.7	98.1	97.7	83.3	95.7	86.7	91.0	92.0	91.1	96.1
18	KH-7647	101.0	102.3	109.0	96.6	97.7	81.3	93.7	84.3	91.0	90.0	89.7	94.6
19	KMH-25K45	101.0	102.0	108.0	97.1	97.7	82.0	97.0	83.3	86.5	90.0	89.4	94.8
20	KMH-7148	102.3	105.3	108.7	97.0	95.0	77.3	97.7	83.7	90.0	90.3	89.0	95.0
21	KMH-3110	101.7	103.3	108.3	97.8	95.7	77.0	93.7	81.7	85.0	87.0	86.7	93.4
22	KMH-6681	101.3	101.7	109.3	95.8	96.3	80.3	92.7	83.0	87.0	89.7	88.2	93.6
23	QMH-2966	100.3	100.0	107.3	95.8	92.7	80.3	93.3	84.7	88.5	88.3	88.0	92.2
24	EHL 111	100.0	98.0	108.7	95.2	91.0	85.0	89.3	84.0	85.0	88.0	87.1	92.4
25	EHL 2211	102.3	98.3	108.3	95.9	93.0	79.7	88.7	84.3	84.0	89.0	86.4	92.8
26	EHL 2311	100.0	99.0	107.3	95.2	89.3	80.3	87.3	85.0	90.5	89.7	87.0	92.3
27	NMH-1277	100.3	99.3	107.3	96.6	90.3	75.7	89.3	83.7	87.5	89.7	86.0	92.6
28	DAS MH-302	103.0	100.7	106.3	96.6	92.7	77.0	91.3	85.3	90.5	89.3	87.7	93.8
29	PRO 387	102.0	105.0	108.3	98.1	96.3	79.3	93.7	85.0	91.0	90.3	89.3	95.5
30	BIO 719	102.7	103.7	107.3	98.0	97.0	78.7	97.3	84.7	90.5	90.3	89.8	95.2



## B99

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK										ZN 5 Mean	OV'L Mean
		KOLH	MAND	VAGA	ZN 4 Mean				BANS	CHHI	GODH		
31	DAS MH-303	101.7	100.7	107.7	96.1	94.3	75.7	91.7	86.3	89.0	88.3	87.6	93.9
32	X35B403	101.0	99.0	105.7	94.9	90.3	78.0	89.3	83.7	88.0	89.7	86.5	92.5
33	CMH 10-529	101.3	100.0	105.7	96.4	93.3	81.3	89.7	84.0	89.5	90.0	88.0	93.4
34	BAUMH-2011-04	99.0	-	105.0	92.0	89.0	75.3	81.3	77.7	84.0	85.3	82.1	88.9
35	BAUMH-2011-13	100.7	98.7	106.7	96.1	96.7	80.7	89.3	85.3	87.0	89.3	88.1	93.8
36	LTH-21	100.7	98.3	106.0	94.6	92.0	80.3	92.7	84.0	88.0	88.0	87.5	92.1
37	CMH 10-473	101.7	100.3	108.3	97.9	98.7	79.7	94.0	86.0	94.5	91.3	90.7	95.5
38	X35B410	101.7	98.7	108.0	96.4	92.3	80.3	90.0	83.3	86.0	89.0	86.8	93.1
39	REH 2011-03	101.3	103.0	109.0	98.8	96.7	77.7	97.3	85.7	88.0	91.0	89.4	95.7
40	EC-3164	100.7	99.3	105.3	93.7	93.0	79.0	88.7	79.3	86.5	86.7	85.5	91.9
41	CMH 10-485	102.7	97.3	108.7	96.9	94.0	78.0	89.3	83.3	91.0	89.3	87.5	93.5
42	DH-12-01	102.0	99.7	104.0	94.6	90.3	81.0	88.7	81.7	90.0	88.7	86.7	92.0
43	CMH 10-486	102.0	101.3	110.0	98.2	98.3	85.0	96.3	88.3	-	91.0	91.8	97.3
44	REH 2011-4	100.3	102.3	108.7	97.0	97.0	76.0	93.7	86.7	92.0	89.7	89.2	94.3
45	AH 1209	100.3	98.0	110.0	94.6	88.7	80.0	86.7	81.0	85.0	87.7	84.8	91.4
46	AH 1210	100.0	96.3	105.3	93.3	89.7	75.3	89.0	80.0	87.0	88.3	84.9	90.5
47	JH 31583	99.7	99.7	109.0	95.0	91.7	76.7	87.0	83.0	89.0	90.0	86.2	93.1
48	JH 31598	101.0	97.0	107.0	93.9	94.3	76.0	90.7	82.0	89.0	89.7	86.9	92.0
49	JH 31599	100.7	99.0	109.0	95.3	92.7	74.7	90.3	85.0	91.0	88.0	86.9	93.0
50	HKH 334	101.3	98.3	107.0	95.3	92.3	77.3	94.0	82.0	92.5	89.3	87.9	93.8
51	HKH 335	100.7	95.7	107.7	94.9	94.0	81.3	88.3	83.3	88.0	87.3	87.1	91.9
52	HKH 336	101.7	98.7	105.3	94.6	94.3	79.0	90.3	82.3	88.5	87.3	87.0	92.3
53	Bio 9637 (Filler)	101.3	100.0	104.3	96.1	92.3	78.3	90.3	82.3	85.5	89.7	86.4	94.3
54	HM-4 (Filler)	102.3	100.7	107.0	95.7	91.3	80.0	88.0	82.3	87.0	88.7	86.2	92.4
55	Synthetics-1	100.7	99.0	109.0	96.9	95.0	78.3	91.0	85.0	94.0	89.3	88.8	94.2
56	MMH 12-4	100.0	97.0	105.3	93.2	92.3	76.3	89.7	81.3	88.0	88.7	86.1	90.5
57	MMH 12-5	100.0	101.3	108.3	95.6	92.0	75.7	91.3	85.7	90.5	86.7	87.0	92.5
58	MMH 12-6	102.3	101.0	106.3	96.4	94.0	77.7	90.0	82.3	88.0	90.7	87.1	93.3
59	MMH 12-7	100.3	99.7	107.7	95.1	91.7	83.0	92.7	86.7	87.5	88.7	88.4	93.2
60	MMH 12-8	100.7	99.3	105.0	95.1	91.7	76.7	94.0	84.0	85.5	88.7	86.8	93.2

## B100

Table No. 2 (Continued)

DAYS TO 75% DRY HUSK													
S.No.	PEDIGREE	ZN 4									ZN 5		OV'L
		KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
61	VARANASI H12-1	100.3	97.7	107.3	96.8	91.3	79.7	90.0	84.3	88.5	89.0	87.1	94.0
62	DHM 117	102.3	99.7	105.7	97.0	94.0	80.3	93.7	88.3	94.5	90.3	90.2	95.4
63	QMH-2910	100.7	98.7	109.3	95.3	93.3	76.0	93.7	85.7	94.5	90.0	88.9	93.2
64	BH-411001	102.7	103.0	107.0	95.2	96.3	75.7	94.0	80.7	85.0	87.3	86.5	93.5
65	Safal X-260	100.0	99.0	107.7	96.8	91.3	76.3	93.3	83.7	90.0	89.0	87.3	93.9
66	KNMH 4201	100.3	97.3	108.7	95.5	90.3	78.0	89.0	84.7	90.5	90.0	87.1	92.9
67	KNMH 4202	101.0	100.0	110.0	97.1	95.7	81.0	96.7	85.7	89.0	90.0	89.7	94.1
68	KNMH 4203	101.3	97.3	108.3	96.6	91.7	79.7	91.3	88.0	94.0	89.3	89.0	94.3
69	KNMH 4204	102.7	98.3	109.3	97.3	95.0	77.7	93.7	76.0	94.0	91.0	87.9	95.8
70	KNMH 4205	103.0	99.7	108.7	97.1	95.3	80.0	91.3	85.3	91.0	90.3	88.9	95.5
CHECKS													
71	BIO 9637	101.0	100.7	107.3	95.2	93.0	80.3	89.3	85.3	88.0	89.3	87.6	93.5
72	HM 8	100.7	100.7	108.3	97.4	95.0	77.0	95.3	83.7	88.5	90.7	88.4	94.0
73	HM 9	101.3	100.7	106.7	95.2	94.0	77.7	93.3	85.0	90.5	88.3	88.1	93.2
74	HM 10	101.3	101.0	109.7	96.5	95.3	74.3	94.0	85.3	94.0	90.0	88.8	94.7
75	PMH 4	100.0	95.7	107.0	93.7	92.3	80.7	91.3	81.7	88.0	87.7	86.9	92.0
	Loc. Mean	101.1	98.7	107.4	96.1	93.7	78.6	92.0	84.2	88.6	89.3	87.7	93.5
	C.D. (5%)	1.55	3.23	2.33	2.32	3.11	2.17	1.39	5.43	13.72	1.65	3.03	1.51
	C.V. (%)	0.95	2.03	1.34	2.12	2.06	1.71	0.93	4.00	7.72	1.14	3.05	2.73
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST															
		ZN 1					ZN 2					ZN 3					
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM
1	Meghan-G	20.7	22.5	32.0	25.0	30.8	12.0	28.7	28.8	24.1	24.9	29.1	25.3	29.9	28.1	20.3	22.8
2	FMH-603	21.4	25.0	33.4	26.6	30.9	14.5	27.1	27.0	24.4	24.8	24.3	27.2	29.0	26.8	21.6	25.5
3	Rasi-3033	21.1	21.5	33.3	25.3	24.4	16.5	29.9	26.0	20.7	23.5	29.6	25.4	27.6	27.5	18.7	23.0
4	Rasi-588	21.3	23.0	29.9	24.7	32.7	14.5	28.6	26.5	21.0	24.6	30.9	24.5	26.6	27.3	21.4	24.7
5	AMH-455	20.9	22.5	31.9	25.1	28.4	11.5	30.0	32.2	22.4	24.9	26.3	25.3	28.1	26.6	22.1	22.8
6	NMH-1281	20.0	21.5	31.2	24.2	27.2	13.5	27.4	28.1	20.0	23.2	29.4	26.4	30.7	28.8	20.1	18.3
7	NMH-1276	18.9	25.0	32.1	25.3	26.7	16.5	30.4	27.6	21.5	24.5	29.9	23.6	25.2	26.2	17.3	24.3
8	Bisco X 2711	20.7	24.0	31.6	25.4	30.6	17.0	31.5	28.8	22.6	26.1	28.9	26.0	29.5	28.1	16.7	22.3
9	NMH 1588	21.1	25.5	27.4	24.7	28.2	17.5	26.1	27.7	20.2	23.9	27.6	26.3	28.6	27.5	21.4	22.6
10	TI8334	21.7	23.0	32.0	25.6	29.2	15.5	27.9	29.0	22.0	24.7	31.7	25.6	27.3	28.2	23.1	22.7
11	IJ8533	19.4	21.5	30.2	23.7	24.4	16.5	29.8	29.6	29.0	25.9	30.3	26.0	31.0	29.1	20.7	22.8
12	DKC9108	19.0	22.5	33.0	24.8	15.4	14.5	30.6	23.9	27.4	22.4	17.3	24.8	25.6	22.6	14.8	18.7
13	VAMH 08014	21.1	23.0	31.0	25.0	31.2	18.5	25.4	32.1	19.3	25.3	30.7	26.5	26.5	27.9	21.9	26.0
14	JKMH 4511	21.0	22.5	34.7	26.1	35.1	17.5	28.6	27.7	20.5	25.9	30.2	25.1	28.7	28.0	19.3	21.7
15	S6850	22.2	24.0	36.3	27.5	36.8	15.5	26.5	28.8	21.6	25.8	32.9	26.8	25.2	28.3	20.2	24.0
16	S6790	21.7	21.0	32.4	25.0	34.9	14.5	29.9	29.0	20.4	25.7	23.1	25.9	29.9	26.3	19.4	24.0
17	BH-411036	21.5	23.5	32.3	25.8	30.5	17.0	26.2	29.0	24.2	25.4	29.1	25.9	28.0	27.6	22.8	23.8
18	KH-7647	21.3	25.0	30.0	25.4	28.4	17.0	25.3	24.3	21.7	23.3	23.5	25.5	27.1	25.3	20.8	22.0
19	KMH-25K45	21.2	21.5	30.4	24.4	30.8	16.0	26.9	28.8	25.4	25.6	28.7	25.3	27.2	27.0	23.3	25.4
20	KMH-7148	21.1	25.0	33.3	26.4	29.0	15.0	29.9	30.4	28.4	26.5	33.0	25.5	29.3	29.3	22.9	25.0
21	KMH-3110	21.9	22.5	31.3	25.2	26.9	12.5	26.3	25.2	25.3	23.2	30.9	25.8	31.7	29.4	22.2	24.7
22	KMH-6681	20.3	21.0	28.1	23.1	34.0	13.0	28.2	27.9	19.7	24.6	27.1	25.4	30.7	27.7	22.3	25.1
23	QMH-2966	21.0	22.5	30.9	24.8	25.2	16.0	28.0	29.1	21.8	24.0	23.9	26.0	24.7	24.9	18.0	23.3
24	EHL 111	21.0	22.5	32.0	25.2	28.9	16.5	27.8	24.4	19.9	23.5	23.4	27.4	29.1	26.6	17.5	24.9
25	EHL 2211	21.5	23.0	29.5	24.6	30.3	15.5	28.9	28.1	26.2	25.8	28.9	24.9	29.3	27.7	21.1	22.7
26	EHL 2311	19.8	21.0	27.7	22.8	26.8	16.0	24.4	23.9	21.3	22.5	22.2	25.9	29.3	25.8	14.7	22.3
27	NMH-1277	19.5	22.5	32.2	24.7	23.3	14.0	27.6	24.8	20.1	21.9	25.1	25.8	28.7	26.5	18.9	20.3
28	DAS MH-302	21.2	22.0	31.1	24.8	29.0	15.5	27.4	28.1	24.1	24.8	28.5	25.9	29.5	28.0	22.2	24.0
29	PRO 387	21.8	24.0	30.6	25.5	35.4	14.5	29.5	31.1	19.8	26.0	30.7	24.1	29.3	28.0	22.0	26.2
30	BIO 719	20.2	21.5	31.6	24.4	29.9	16.0	27.0	26.9	21.7	24.3	30.8	25.5	26.3	27.5	20.8	22.0

Table No. 2 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST															
		ZN 1					ZN 2					ZN 3					
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM
31	DAS MH-303	21.0	21.5	37.0	26.5	28.3	13.5	25.8	29.0	26.4	24.6	27.3	26.8	28.7	27.6	17.9	22.6
32	X35B403	19.6	22.5	31.8	24.6	27.2	15.5	29.3	28.5	20.7	24.2	27.7	25.3	33.0	28.6	21.2	23.8
33	CMH 10-529	20.7	23.0	31.5	25.1	31.8	16.5	30.2	28.1	19.9	25.3	24.2	25.6	25.6	25.1	21.8	23.7
34	BAUMH-2011-04	21.5	21.0	33.8	25.4	17.5	13.5	28.4	20.7	20.9	20.2	21.9	26.4	23.7	24.0	16.1	21.6
35	BAUMH-2011-13	21.2	23.0	34.2	26.1	24.8	12.5	28.6	24.7	21.3	22.4	20.8	26.0	26.0	24.2	13.7	22.3
36	LTH-21	20.9	21.0	28.9	23.6	24.5	14.5	27.4	26.3	19.9	22.5	28.6	26.1	29.5	28.1	16.7	23.3
37	CMH 10-473	20.6	21.5	34.1	25.4	34.7	15.5	31.6	28.6	23.1	26.7	31.6	25.9	29.8	29.1	21.1	24.8
38	X35B410	19.8	25.0	33.5	26.1	28.3	17.0	28.6	27.5	22.4	24.7	29.4	25.6	28.0	27.7	20.7	23.7
39	REH 2011-03	20.4	21.0	31.5	24.3	32.7	16.5	27.0	26.3	20.7	24.6	27.6	27.1	32.0	28.9	20.9	22.7
40	EC-3164	21.1	22.5	26.4	23.3	31.6	16.0	27.3	23.8	20.4	23.8	27.5	25.1	24.5	25.7	19.0	23.1
41	CMH 10-485	20.5	23.0	31.4	25.0	33.6	16.0	30.2	28.6	21.3	25.9	29.9	25.0	29.5	28.1	20.4	20.4
42	DH-12-01	21.9	21.0	31.6	24.8	21.8	17.0	25.1	31.1	23.6	23.7	20.0	25.1	27.4	24.2	17.7	20.4
43	CMH 10-486	21.2	23.5	30.1	24.9	34.2	17.5	29.4	25.2	22.0	25.7	29.7	25.9	30.9	28.8	17.9	22.9
44	REH 2011-4	21.8	23.5	32.7	26.0	31.1	15.0	25.8	26.6	21.2	23.9	30.7	26.5	27.0	28.0	19.6	23.0
45	AH 1209	20.6	21.5	31.7	24.6	25.4	17.5	26.0	27.7	22.3	23.8	21.8	25.5	26.1	24.5	15.1	21.3
46	AH 1210	18.8	23.5	28.0	23.4	18.0	17.5	27.7	22.8	20.4	21.3	23.5	27.1	27.0	25.9	16.2	23.5
47	JH 31583	21.5	22.0	31.5	25.0	26.5	13.5	27.4	23.9	24.6	23.2	23.2	25.3	25.9	24.8	16.8	19.4
48	JH 31598	19.9	24.0	29.4	24.4	28.8	14.5	28.9	24.9	22.2	23.9	24.2	27.4	30.6	27.4	17.5	21.9
49	JH 31599	21.8	21.5	31.9	25.1	30.5	15.5	27.1	26.0	21.4	24.1	26.4	26.2	28.6	27.0	18.3	22.0
50	HKH 334	20.7	21.5	34.1	25.4	25.1	16.5	27.6	24.6	21.7	23.1	26.8	27.0	26.3	26.7	15.7	19.5
51	HKH 335	20.6	22.5	34.1	25.7	20.8	17.5	26.1	24.0	19.6	21.6	22.6	25.9	25.6	24.7	19.1	24.1
52	HKH 336	20.8	23.5	34.2	26.2	27.0	16.5	26.5	23.2	22.0	23.0	24.0	25.3	25.5	24.9	15.6	22.8
53	Bio 9637 (Filler )	19.4	21.0	33.0	24.5	28.3	13.5	30.2	26.9	21.8	24.1	29.7	23.3	29.3	27.4	20.0	22.0
54	HM-4 (Filler)	19.4	22.5	27.8	23.2	27.3	12.5	27.6	24.6	20.2	22.4	22.1	26.4	27.0	25.1	23.2	22.1
55	Synthetics-1	21.0	21.0	35.4	25.8	30.3	13.0	30.4	25.9	21.6	24.2	27.1	26.1	26.3	26.5	18.9	21.6
56	MMH 12-4	21.0	24.0	34.4	26.5	18.3	14.5	27.4	23.3	19.8	20.6	20.7	25.8	25.9	24.1	22.1	18.5
57	MMH 12-5	21.9	22.5	33.7	26.0	30.7	15.5	27.2	25.7	19.3	23.7	30.6	25.8	28.1	28.1	19.4	22.3
58	MMH 12-6	21.0	22.5	31.6	25.0	23.4	15.5	31.9	24.7	22.8	23.7	27.6	23.9	24.0	25.1	18.7	21.3
59	MMH 12-7	20.7	22.0	30.1	24.3	34.3	15.0	26.9	25.4	19.1	24.1	26.6	25.2	32.7	28.2	17.6	22.1
60	MMH 12-8	21.1	21.5	33.4	25.3	21.8	15.0	29.8	27.9	20.4	23.0	29.8	26.6	26.0	27.4	18.6	19.7

Table No. 2 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST															
		ZN 1						ZN 2				ZN 3					
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM
61	VARANASI H12-1	20.5	22.0	32.3	24.9	29.9	15.0	28.4	25.8	22.2	24.3	30.1	26.2	27.6	28.0	19.6	23.1
62	DHM 117	20.7	24.5	35.3	26.8	34.4	16.5	27.7	29.0	20.7	25.7	28.2	26.4	28.1	27.6	20.2	23.8
63	QMH-2910	19.6	22.5	31.3	24.5	22.8	15.0	28.4	25.7	19.3	22.2	24.4	25.9	29.2	26.5	18.2	22.4
64	BH-411001	21.2	22.5	31.6	25.1	32.0	16.0	31.4	24.4	22.3	25.2	24.1	25.2	29.3	26.2	19.6	21.4
65	Safal X-260	21.6	21.5	33.8	25.6	28.7	14.0	27.9	24.7	28.3	24.7	27.1	26.9	26.6	26.8	21.2	21.2
66	KNMH 4201	21.1	22.0	32.7	25.2	28.1	15.0	27.9	26.8	24.3	24.4	26.4	26.3	27.0	26.5	17.9	21.7
67	KNMH 4202	22.0	23.0	32.4	25.8	33.3	16.0	28.6	30.9	21.9	26.1	29.6	25.1	30.3	28.3	21.5	23.2
68	KNMH 4203	20.6	21.5	38.1	26.7	26.4	12.5	28.7	27.7	21.2	23.3	30.0	25.7	26.6	27.4	16.7	20.6
69	KNMH 4204	20.6	23.0	34.2	25.9	32.4	16.0	26.7	31.3	22.8	25.8	30.0	26.5	32.0	29.5	21.8	23.1
70	KNMH 4205	21.4	21.0	30.6	24.3	32.8	14.5	25.5	28.7	20.8	24.5	30.1	26.6	27.8	28.2	18.7	23.1
	CHECKS																
71	BIO 9637	21.1	23.5	28.1	24.2	34.8	15.5	25.7	32.3	26.4	26.9	26.7	25.2	25.3	25.7	18.6	24.2
72	HM 8	20.8	23.5	34.0	26.1	24.0	15.5	28.5	24.9	24.2	23.4	21.9	25.2	27.7	24.9	19.9	22.0
73	HM 9	21.4	23.0	30.4	24.9	24.5	15.5	27.3	22.3	21.1	22.1	25.7	25.0	29.7	26.8	19.0	21.9
74	HM 10	21.5	23.5	35.3	26.8	27.0	14.0	26.0	27.3	26.3	24.1	28.5	25.8	29.6	27.9	20.4	21.2
75	PMH 4	21.5	23.0	30.3	24.9	28.6	13.0	26.2	27.7	22.6	23.6	23.1	26.2	27.3	25.5	20.1	24.7
	Loc. Mean	20.8	22.6	31.9	25.1	28.4	15.3	28.0	26.9	22.2	24.2	27.0	25.8	28.0	26.9	19.4	22.6
	C.D. (5%)	1.12	2.75	3.50	2.43	3.07	1.17	0.29	0.95	1.95	3.26	2.86	2.47	5.05	3.61	1.86	1.13
	C.V. (%)	3.32	6.11	5.49	6.00	6.69	4.76	0.65	2.19	4.41	10.84	6.57	4.82	9.05	8.31	5.94	3.09
	F (Prob)	0.00	0.06	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.76	0.09	0.05	0.00	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST											ZN 5 Mean	OVL Mean
		HYDE	KARI	KOLH	MAND	VAGA	ZN 4 Mean		BANS	CHHI	GODH	BHIL		
1	Meghan-G	16.9	7.1	11.6	16.5	15.7	15.8	17.2	17.9	21.7	15.0	22.2	18.8	21.2
2	FMH-603	18.2	8.7	11.9	17.1	14.6	16.8	16.8	17.0	20.6	15.0	21.1	18.1	21.4
3	Rasi-3033	19.1	7.6	10.8	16.1	16.4	15.9	17.0	17.6	23.7	15.0	20.9	18.8	20.9
4	Rasi-588	17.6	10.2	12.6	17.5	14.9	17.0	17.0	19.2	24.6	15.0	21.2	19.4	21.5
5	AMH-455	19.3	13.2	11.2	15.5	17.5	17.4	16.3	17.3	18.2	15.0	21.5	17.6	21.3
6	NMH-1281	18.1	10.1	12.4	17.3	17.3	16.2	16.3	17.3	28.9	15.0	21.1	19.7	21.2
7	NMH-1276	18.0	10.3	11.3	17.4	15.8	16.3	16.4	16.9	21.2	15.0	21.0	18.1	20.9
8	Bisco X 2711	16.4	9.2	12.0	18.0	16.2	15.8	17.0	16.4	21.0	15.0	21.7	18.2	21.4
9	NMH 1588	17.6	12.0	11.8	16.2	17.6	17.0	16.9	17.8	21.4	15.0	21.7	18.6	21.2
10	TI8334	17.7	14.0	13.6	17.4	15.2	17.6	16.4	21.7	21.9	15.0	24.1	19.8	22.1
11	IJ8533	18.0	7.6	12.1	17.8	14.5	16.2	17.4	19.6	23.8	15.0	20.0	19.1	21.6
12	DKC9108	17.5	8.3	9.5	17.5	12.4	14.1	16.6	15.0	17.1	15.0	19.0	16.5	18.9
13	VAMH 08014	17.3	12.1	13.1	18.4	14.9	17.6	16.7	17.8	22.9	15.0	22.8	19.0	21.9
14	JKMH 4511	19.3	12.3	12.1	17.4	17.0	17.0	16.9	19.0	17.9	15.0	21.8	18.1	21.8
15	S6850	18.2	10.0	13.2	18.9	16.3	17.2	16.3	19.7	20.1	15.0	21.7	18.6	22.2
16	S6790	19.1	6.8	13.3	17.4	16.7	16.7	16.9	18.5	19.5	15.0	22.8	18.5	21.4
17	BH-411036	17.4	9.4	14.0	17.6	16.1	17.3	17.0	18.9	22.5	15.0	21.6	19.0	21.9
18	KH-7647	17.6	8.7	11.9	17.5	16.6	16.4	17.1	17.4	23.1	15.0	23.6	19.2	20.9
19	KMH-25K45	18.1	14.0	12.2	18.2	15.9	18.1	16.7	18.8	19.5	15.0	21.2	18.2	21.7
20	KMH-7148	19.5	11.9	13.2	18.0	16.0	18.1	16.6	19.9	22.1	15.0	22.0	19.1	22.7
21	KMH-3110	19.0	10.0	11.9	19.0	16.1	17.5	16.7	19.4	24.8	15.0	22.6	19.7	21.8
22	KMH-6681	16.8	11.3	11.7	16.9	15.6	17.1	16.4	18.0	21.5	15.0	21.8	18.5	21.2
23	QMH-2966	15.7	8.9	12.2	18.1	13.0	15.6	16.3	16.8	22.0	15.0	20.6	18.1	20.4
24	EHL 111	18.0	10.1	11.6	17.4	16.3	16.5	16.9	16.8	20.8	15.0	21.9	18.3	20.8
25	EHL 2211	16.4	12.2	12.8	17.1	15.2	16.8	16.2	17.9	22.5	15.0	21.9	18.7	21.6
26	EHL 2311	17.7	10.0	11.0	18.0	15.5	15.6	16.3	15.0	19.5	15.0	23.1	17.8	19.8
27	NMH-1277	17.3	10.7	10.2	15.6	12.4	15.0	16.3	16.1	25.5	15.0	23.3	19.2	20.2
28	DAS MH-302	19.0	6.9	13.3	16.8	15.9	16.8	17.0	20.0	21.2	15.0	19.7	18.6	21.4
29	PRO 387	21.2	7.6	11.2	17.3	11.4	16.7	16.5	20.3	21.8	15.0	21.0	18.9	21.8
30	BIO 719	21.0	12.4	10.1	17.2	17.9	17.3	16.7	17.1	23.7	15.0	19.9	18.5	21.3

Table No. 2 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST										ZN 5 Mean	OV'L Mean	
		HYDE	KARI	KOLH	MAND	VAGA	ZN 4 Mean			BANS	CHHI			GODH
31	DAS MH-303	16.4	11.0	10.7	16.2	15.1	15.7	16.4	15.9	27.9	15.0	20.9	19.2	21.3
32	X35B403	20.7	10.1	10.1	19.0	17.9	17.5	16.5	17.2	24.2	15.0	20.3	18.6	21.6
33	CMH 10-529	20.1	11.1	12.7	18.5	14.8	17.5	16.1	19.3	17.5	15.0	20.0	17.6	21.2
34	BAUMH-2011-04	19.2	8.2	10.5	-	17.2	15.4	17.4	12.8	18.1	15.0	21.1	16.9	19.4
35	BAUMH-2011-13	18.1	10.0	11.1	15.5	11.7	14.6	16.3	13.8	18.3	15.0	22.9	17.3	19.6
36	LTH-21	19.1	14.7	11.1	16.8	16.3	16.8	16.3	20.0	25.8	15.0	22.5	19.9	21.1
37	CMH 10-473	20.5	12.0	11.0	15.9	15.2	17.2	16.7	18.0	22.7	15.0	21.7	18.8	22.2
38	X35B410	19.2	12.4	11.7	16.5	15.2	17.0	16.3	17.1	26.5	15.0	18.9	18.7	21.6
39	REH 2011-03	22.0	12.1	10.5	16.2	14.2	16.9	16.4	18.2	24.2	15.0	21.0	19.0	21.6
40	EC-3164	15.1	7.1	12.2	18.0	15.2	15.7	16.5	15.9	24.1	15.0	19.7	18.2	20.3
41	CMH 10-485	17.2	11.9	12.5	16.7	13.7	16.1	16.4	17.6	24.1	15.0	21.1	18.8	21.5
42	DH-12-01	16.7	11.3	12.1	16.2	14.8	15.6	17.0	14.5	21.1	15.0	21.9	17.9	20.2
43	CMH 10-486	19.9	8.9	10.6	16.2	15.3	15.9	16.6	18.9	25.0	-	21.1	20.4	21.9
44	REH 2011-4	22.1	7.0	11.2	18.1	15.7	16.6	16.4	18.6	24.4	15.0	21.9	19.3	21.5
45	AH 1209	20.2	7.3	11.5	16.6	15.9	15.4	16.9	14.6	21.0	15.0	21.1	17.7	20.1
46	AH 1210	19.7	9.0	10.2	17.3	13.7	15.7	16.7	14.7	19.7	15.0	20.0	17.2	19.6
47	JH 31583	19.4	10.7	11.2	16.0	16.1	15.6	16.4	15.7	24.8	15.0	21.2	18.6	20.3
48	JH 31598	19.9	10.9	10.4	16.6	15.6	16.1	17.0	17.4	19.0	15.0	22.0	18.1	20.8
49	JH 31599	18.6	8.2	10.5	16.0	14.8	15.5	16.1	15.7	21.8	15.0	21.9	18.1	20.7
50	HKH 334	20.4	8.5	11.1	16.9	15.4	15.3	17.0	16.0	19.4	15.0	22.2	17.9	20.4
51	HKH 335	20.4	15.0	10.4	15.6	16.4	17.3	17.1	15.9	28.0	15.0	19.1	19.0	20.7
52	HKH 336	17.1	9.3	11.4	16.1	14.8	15.3	16.4	14.3	20.6	15.0	19.2	17.1	20.0
53	Bio 9637 (Filler)	20.8	9.5	10.0	16.7	14.0	16.1	16.8	17.3	20.9	15.0	21.7	18.3	20.9
54	HM-4 (Filler)	16.2	9.0	12.1	18.3	15.7	16.6	17.0	14.5	18.9	15.0	21.0	17.3	20.0
55	Synthetics-1	18.3	10.4	11.2	16.0	15.6	16.0	16.8	18.0	24.6	15.0	21.2	19.1	21.1
56	MMH 12-4	19.0	7.3	10.8	15.9	15.6	15.6	16.3	13.9	19.6	15.0	22.2	17.4	19.6
57	MMH 12-5	20.0	9.5	11.8	15.5	15.8	16.3	16.2	16.9	29.5	15.0	20.9	19.7	21.5
58	MMH 12-6	18.4	13.0	12.8	17.8	12.5	16.3	17.4	17.9	20.5	15.0	20.5	18.2	20.6
59	MMH 12-7	19.9	9.2	10.6	15.2	13.2	15.4	16.4	16.9	20.3	15.0	21.2	18.0	20.7
60	MMH 12-8	19.5	10.2	10.7	15.6	13.4	15.4	16.6	18.8	23.4	15.0	22.2	19.2	20.7

Table No. 2 (Continued)

MOISTURE % AT HARVEST														
S.No.	PEDIGREE						ZN 4					ZN 5	OV'L	
		HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
61	VARANASI H12-1	19.5	15.5	12.3	17.7	14.9	17.5	16.4	16.1	29.1	15.0	22.4	19.8	21.8
62	DHM 117	18.5	15.0	11.5	16.6	15.4	17.3	16.6	18.2	18.6	15.0	22.3	18.1	21.9
63	QMH-2910	16.9	9.9	11.3	16.6	14.6	15.7	16.6	18.0	20.7	15.0	22.8	18.6	20.3
64	BH-411001	21.3	9.9	11.4	16.9	15.9	16.6	17.1	17.6	23.1	15.0	22.0	18.9	21.3
65	Safal X-260	20.0	11.1	11.3	17.4	17.1	17.0	16.7	18.6	20.5	15.0	20.9	18.3	21.4
66	KNMH 4201	17.7	7.3	10.7	15.6	15.2	15.1	16.6	16.1	20.0	15.0	21.9	17.9	20.6
67	KNMH 4202	17.7	6.3	12.3	16.7	16.4	16.3	16.8	19.3	19.0	15.0	22.7	18.5	21.7
68	KNMH 4203	17.6	14.7	11.6	17.2	13.0	15.9	16.5	15.1	20.4	15.0	21.8	17.8	20.8
69	KNMH 4204	17.9	6.0	13.6	17.4	14.5	16.3	16.4	16.2	19.4	15.0	22.3	17.9	21.7
70	KNMH 4205	20.5	8.3	13.0	16.2	15.1	16.4	16.2	17.0	22.4	15.0	22.1	18.5	21.2
CHECKS														
71	BIO 9637	19.0	13.7	11.5	17.0	14.8	17.0	16.6	17.2	18.4	15.0	22.8	18.0	21.4
72	HM 8	20.7	6.2	10.8	16.7	17.5	16.2	17.4	17.1	23.7	15.0	20.8	18.8	20.8
73	HM 9	19.1	7.2	11.3	17.6	16.3	16.0	17.1	16.0	23.2	15.0	21.9	18.6	20.5
74	HM 10	20.5	12.1	11.3	15.6	14.9	16.6	16.4	18.5	24.1	15.0	22.1	19.2	21.6
75	PMH 4	17.8	7.1	10.5	14.8	14.8	15.7	16.5	16.8	22.8	15.0	21.5	18.5	20.5
	Loc. Mean	18.7	10.1	11.6	16.9	15.3	16.4	16.6	17.3	22.1	15.0	21.5	18.5	21.0
	C.D. (5%)	2.11	0.30	1.16	0.67	0.98	1.66	0.50	0.91	3.70	-	0.99	1.94	1.11
	C.V. (%)	7.00	1.83	6.24	2.49	3.98	9.66	1.85	3.26	10.39	-	2.85	8.44	9.14
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.20	0.00



Table No. 2 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																	
		BAJA			BARA			KANG			ZN 1			ZN 2			ZN 3		
		Mean	DELH	KANP	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	
1	Meghan-G	78.8	66.5	72.5	72.6	89.6	76.0	63.4	86.6	86.2	80.3	78.0	86.0	82.0	82.0	87.2	82.6	77.7	
2	FMH-603	86.4	69.5	71.2	75.7	87.3	77.0	64.5	89.7	89.8	81.6	80.0	85.3	81.0	82.1	86.6	83.6	79.6	
3	Rasi-3033	82.0	68.5	71.3	73.9	88.4	77.5	65.9	86.2	89.5	81.5	82.0	85.3	76.5	81.3	83.9	78.3	82.8	
4	Rasi-588	84.3	65.5	82.5	77.4	87.8	73.0	67.3	86.5	85.4	80.0	81.0	83.8	80.5	81.8	86.5	80.0	82.1	
5	AMH-455	77.6	62.5	84.7	74.9	87.5	74.0	67.0	87.9	85.7	80.4	82.0	85.9	80.5	82.8	87.0	82.6	78.2	
6	NMH-1281	81.4	66.0	78.4	75.3	85.1	75.0	64.9	85.1	86.4	79.3	81.5	83.6	81.5	82.2	86.0	81.0	82.5	
7	NMH-1276	85.9	70.5	82.6	79.7	87.5	73.0	65.1	87.1	86.4	79.8	81.5	84.7	83.5	83.2	86.4	81.2	80.0	
8	Bisco X 2711	84.6	71.5	78.5	78.2	88.2	74.0	63.8	87.5	84.6	79.6	77.5	82.8	78.0	79.4	86.8	79.5	82.3	
9	NMH 1588	81.5	68.5	77.6	75.9	84.7	71.5	61.5	82.6	88.9	77.8	81.5	80.3	80.0	80.6	82.5	77.5	78.7	
10	TI8334	82.0	64.5	76.3	74.3	87.6	74.5	64.3	85.1	86.4	79.6	82.5	83.2	82.5	82.7	83.4	79.8	79.7	
11	IJ8533	84.3	68.0	76.8	76.4	86.8	72.0	65.3	84.4	83.3	78.3	80.0	83.3	82.5	81.9	84.1	81.4	79.1	
12	DKC9108	90.2	70.0	83.6	81.3	89.1	75.0	67.2	83.0	88.0	80.5	81.5	87.1	84.0	84.2	83.1	82.6	80.6	
13	VAMH 08014	75.0	66.5	77.7	73.1	87.9	71.5	65.4	85.1	82.9	78.6	83.0	81.7	75.5	80.1	85.0	78.0	80.9	
14	JKMH 4511	83.6	64.5	79.9	76.0	85.0	74.5	64.0	84.9	86.7	79.0	83.0	84.1	78.5	81.9	84.1	78.1	79.8	
15	S6850	82.4	63.0	75.2	73.5	86.4	75.5	67.1	84.8	83.3	79.4	77.5	83.6	81.5	80.9	83.4	78.8	81.1	
16	S6790	85.9	67.5	79.7	77.7	88.2	75.5	68.0	85.8	82.1	79.9	76.5	85.6	79.5	80.5	84.6	80.4	79.4	
17	BH-411036	80.0	71.5	80.0	77.2	82.5	77.5	65.7	84.3	87.7	79.5	83.5	80.5	81.5	81.8	77.0	75.1	79.7	
18	KH-7647	85.7	68.5	83.3	79.2	88.9	77.5	64.5	88.4	85.7	81.0	82.5	85.6	80.5	82.9	84.8	83.2	82.1	
19	KMH-25K45	91.1	66.0	74.4	77.2	84.0	77.0	64.4	85.1	84.6	79.0	83.5	85.0	81.5	83.3	81.3	77.9	80.8	
20	KMH-7148	84.2	66.5	79.0	76.6	87.2	74.5	68.4	85.9	85.7	80.3	79.5	82.2	78.5	80.1	84.3	78.1	80.3	
21	KMH-3110	82.1	69.5	75.7	75.8	89.0	74.0	65.9	86.3	86.7	80.4	82.5	82.3	79.5	81.4	84.3	80.2	81.0	
22	KMH-6681	87.5	68.5	75.1	77.0	87.2	73.0	65.2	88.4	88.2	80.4	82.5	84.1	80.5	82.4	82.7	79.8	79.9	
23	QMH-2966	81.0	65.5	79.7	75.4	84.6	73.5	63.4	84.4	85.7	78.3	80.5	81.9	82.5	81.6	80.6	80.6	80.9	
24	EHL 111	81.7	62.5	79.2	74.5	84.8	72.0	67.0	85.6	86.7	79.2	81.0	83.4	83.5	82.6	86.2	82.4	81.0	
25	EHL 2211	86.4	66.0	79.6	77.3	86.5	76.5	64.6	85.6	80.3	78.7	82.0	84.5	81.0	82.5	83.8	79.0	80.1	
26	EHL 2311	82.8	69.0	78.7	76.8	84.9	76.0	66.3	79.4	90.0	79.3	82.0	81.0	81.5	81.5	84.0	81.5	78.5	
27	NMH-1277	86.5	70.0	81.4	79.3	87.1	75.0	64.1	86.9	89.5	80.5	77.5	85.2	79.0	80.6	87.5	80.8	79.8	
28	DAS MH-302	81.7	68.5	79.9	76.7	88.5	77.0	62.4	86.4	84.1	79.7	79.5	84.8	80.5	81.6	81.6	78.7	82.3	
29	PRO 387	88.2	64.5	73.7	75.5	86.5	75.0	64.9	85.3	84.2	79.2	80.5	83.8	84.5	82.9	83.2	79.9	81.8	
30	BIO 719	85.1	68.0	78.6	77.2	86.8	72.0	65.3	84.9	88.0	79.4	80.5	84.5	79.0	81.3	85.4	77.7	81.0	

Table No. 2 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																
					ZN 1				ZN 2				ZN 3					
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
31	DAS MH-303	86.1	70.0	80.1	78.7	84.8	75.0	68.5	84.1	86.3	79.7	81.0	81.7	78.5	80.4	85.0	81.3	81.7
32	X35B403	86.2	66.5	82.1	78.3	89.0	75.5	67.1	86.1	88.9	81.3	81.0	81.1	79.0	80.4	83.8	79.9	80.7
33	CMH 10-529	81.6	64.5	76.7	74.3	84.9	71.0	64.7	84.4	88.9	78.8	80.5	83.6	81.5	81.9	81.7	80.8	81.6
34	BAUMH-2011-04	86.5	70.5	78.6	78.5	82.4	71.5	65.0	87.3	83.7	78.0	81.5	83.7	80.5	81.9	83.3	82.1	80.8
35	BAUMH-2011-13	83.9	66.5	79.2	76.5	85.6	75.5	66.5	84.1	83.3	79.0	82.5	83.3	82.5	82.8	85.8	80.4	82.8
36	LTH-21	92.2	70.5	76.9	79.9	85.8	77.0	66.4	86.4	87.5	80.6	78.5	85.4	82.0	82.0	87.0	80.3	82.4
37	CMH 10-473	77.2	68.5	76.2	74.0	85.1	76.0	64.8	82.1	86.9	79.0	79.5	82.9	81.5	81.3	80.9	77.7	77.9
38	X35B410	84.5	66.0	81.3	77.3	85.8	75.0	64.6	86.4	84.6	79.3	81.0	85.3	83.5	83.3	84.8	84.4	75.5
39	REH 2011-03	84.2	66.5	76.6	75.7	87.3	75.5	65.5	85.4	81.8	79.1	78.0	83.5	79.0	80.2	81.9	79.9	79.9
40	EC-3164	86.5	70.5	79.1	78.7	84.6	77.5	65.2	85.5	84.0	79.4	82.0	84.5	81.0	82.5	84.9	82.6	79.5
41	CMH 10-485	84.8	68.5	75.8	76.4	84.8	77.5	65.1	85.2	85.0	79.5	81.0	77.8	81.0	79.9	82.8	80.0	80.8
42	DH-12-01	81.6	65.5	81.4	76.1	87.6	73.0	61.7	84.1	86.7	78.6	81.0	83.6	78.5	81.0	82.4	80.2	79.7
43	CMH 10-486	86.8	71.5	75.2	77.8	84.7	72.5	67.4	86.3	83.4	78.9	81.0	84.4	75.5	80.3	85.8	80.7	81.1
44	REH 2011-4	88.7	66.0	79.2	78.0	86.4	73.5	65.0	84.6	87.4	79.4	82.0	83.5	79.0	81.5	84.6	79.3	81.5
45	AH 1209	78.0	69.0	81.1	76.0	82.9	73.0	63.3	84.6	82.4	77.2	82.5	81.2	80.0	81.2	84.8	80.6	77.3
46	AH 1210	85.1	70.0	81.0	78.7	86.0	73.5	65.0	86.4	85.7	79.3	76.0	80.4	77.0	77.8	86.1	81.2	79.2
47	JH 31583	77.5	68.5	82.4	76.1	88.4	76.5	61.3	86.3	82.9	79.1	83.5	82.3	79.0	81.6	84.8	82.3	78.3
48	JH 31598	84.5	64.5	81.4	76.8	87.5	77.0	69.4	85.1	86.7	81.1	80.0	81.9	78.5	80.1	84.6	80.0	81.7
49	JH 31599	85.3	68.0	80.3	77.8	88.6	74.5	66.5	84.7	85.2	79.9	80.0	82.5	82.5	81.7	85.4	82.1	80.2
50	HKH 334	86.2	70.0	79.7	78.6	83.9	74.5	67.5	86.1	80.8	78.5	74.5	83.9	81.0	79.8	85.1	82.6	77.8
51	HKH 335	79.7	66.5	75.7	74.0	83.9	72.5	65.2	85.2	85.7	78.5	83.0	83.4	80.5	82.3	83.8	79.3	79.2
52	HKH 336	91.7	64.5	83.4	79.8	85.4	73.0	66.6	85.6	84.2	78.9	78.5	83.5	80.8	80.9	84.5	81.9	82.6
53	Bio 9637 (Filler)	85.2	63.0	76.4	74.9	86.9	73.5	67.0	84.2	90.5	80.4	84.0	84.8	83.0	83.9	84.8	81.4	81.3
54	HM-4 (Filler)	83.0	67.5	80.9	77.1	84.2	74.5	64.9	83.8	85.3	78.5	83.5	77.6	76.5	79.2	85.3	79.6	82.0
55	Synthetics-1	86.4	71.5	81.5	79.8	84.0	75.5	63.9	86.2	83.8	78.7	80.0	82.6	80.0	80.9	86.9	83.1	82.2
56	MMH 12-4	82.7	68.5	81.3	77.5	86.3	77.5	65.7	85.0	88.9	80.7	81.5	84.7	81.0	82.4	82.1	82.5	80.2
57	MMH 12-5	84.7	66.0	82.2	77.6	90.4	75.5	66.5	86.1	88.9	81.5	81.5	85.5	82.0	83.0	85.3	83.0	80.8
58	MMH 12-6	83.8	66.5	81.4	77.2	82.3	79.0	67.0	83.1	83.8	79.0	76.0	80.4	78.5	78.3	85.7	80.7	79.0
59	MMH 12-7	79.7	69.5	84.2	77.8	89.9	80.0	62.9	87.9	86.7	81.5	84.0	86.7	84.0	84.9	86.5	83.1	82.2
60	MMH 12-8	83.8	68.5	79.8	77.4	76.3	78.0	67.9	83.2	85.7	78.2	82.5	81.8	72.5	78.9	82.9	78.1	79.0

Table No. 2 (Continued)

		GRAIN SHELLING %																
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3						
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
61	VARANASI H12-1	87.0	67.0	80.7	78.2	84.1	79.5	65.7	86.0	82.3	79.5	80.5	80.7	74.0	78.4	86.1	78.7	82.4
62	DHM 117	79.7	62.5	74.7	72.3	84.0	77.5	64.1	79.4	87.1	78.4	80.5	80.9	80.5	80.6	80.5	75.9	79.1
63	QMH-2910	83.5	66.0	79.5	76.3	81.0	77.5	64.5	85.4	83.1	78.3	81.0	82.6	80.5	81.4	84.7	81.0	81.1
64	BH-411001	85.1	69.0	80.5	78.2	86.3	79.5	64.9	80.3	77.5	77.7	78.0	83.5	82.0	81.2	86.4	80.7	81.2
65	Safal X-260	81.8	70.0	78.7	76.8	85.6	76.0	66.0	86.6	86.7	80.1	79.5	81.1	78.0	79.5	83.0	82.0	76.3
66	KNMH 4201	79.8	68.5	79.2	75.8	84.1	78.5	66.4	83.3	84.2	79.3	79.5	83.5	80.5	81.2	84.3	82.4	79.1
67	KNMH 4202	82.6	64.5	77.1	74.7	84.6	79.0	64.2	81.1	81.3	78.0	82.5	79.6	80.5	80.9	83.7	76.6	80.5
68	KNMH 4203	83.4	68.0	73.1	74.8	80.3	78.5	67.9	78.9	84.6	78.0	78.5	81.9	79.0	79.8	80.4	79.5	80.8
69	KNMH 4204	83.9	70.0	74.1	76.0	82.3	79.0	64.6	77.0	88.9	78.3	82.5	80.9	76.0	79.8	80.5	74.9	82.2
70	KNMH 4205	89.9	66.5	69.1	75.1	83.9	79.0	64.3	82.4	87.3	79.4	81.0	82.8	79.0	80.9	80.8	77.4	81.3
CHECKS																		
71	BIO 9637	86.6	64.5	77.4	76.1	85.0	76.5	65.1	85.2	83.3	79.0	82.0	84.0	79.5	81.8	84.7	82.6	81.9
72	HM 8	80.4	63.0	79.9	74.4	84.0	78.0	65.5	83.8	81.3	78.5	80.5	81.5	79.0	80.3	84.4	76.1	78.1
73	HM 9	88.4	67.5	78.7	78.2	83.8	75.0	65.9	83.5	85.5	78.7	82.5	83.5	80.0	82.0	80.9	79.0	79.1
74	HM 10	83.1	71.5	74.0	76.2	84.8	76.0	65.3	79.9	82.4	77.7	81.5	79.4	49.5	70.1	81.6	77.6	82.4
75	PMH 4	86.3	68.5	83.2	79.3	87.5	77.5	65.6	87.2	84.6	80.5	84.0	83.4	82.0	83.1	87.2	82.9	83.3
	Loc. Mean	84.0	67.4	78.6	76.7	85.7	75.5	65.4	84.8	85.4	79.4	80.8	83.1	79.7	81.2	84.1	80.2	80.4
	C.D. (5%)	0.00	4.05	5.80	4.84	2.70	1.37	0.65	1.63	3.06	2.79	2.73	5.04	11.30	4.42	2.55	1.25	2.30
	C.V. (%)	0.00	3.01	3.70	3.91	1.95	1.13	0.62	1.19	1.80	2.83	2.09	3.04	7.11	3.37	1.88	0.96	1.77
	F (Prob)	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.25	0.34	0.04	0.00	0.00	0.00

## B110

Table No. 2 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %											ZN 5	OV'L
		KARI	KOLH	MAND	VAGA	ZN 4				UDAI				
1	Meghan-G	87.8	83.5	81.5	82.4	83.2	79.7	69.0	84.1	78.1	87.2	84.6	80.4	80.4
2	FMH-603	87.6	86.4	83.6	82.9	84.3	80.3	70.7	87.9	78.0	84.5	83.9	80.9	81.5
3	Rasi-3033	85.7	82.3	81.9	84.4	82.7	78.5	70.5	88.3	79.7	81.7	83.7	80.4	80.6
4	Rasi-588	80.6	84.5	83.6	85.4	83.3	78.7	69.3	80.5	79.8	84.0	79.8	78.7	80.5
5	AMH-455	86.8	84.8	82.2	82.4	83.4	79.2	67.3	89.8	79.8	87.7	83.9	81.3	81.1
6	NMH-1281	84.6	79.6	83.5	82.9	82.9	79.6	67.3	82.0	79.0	83.2	82.8	79.0	80.1
7	NMH-1276	85.0	81.3	80.9	81.9	82.4	80.6	68.8	88.2	77.7	82.8	82.9	80.2	81.0
8	Bisco X 2711	83.7	84.8	79.7	80.9	82.5	81.2	68.9	88.6	75.8	83.8	84.0	80.4	80.4
9	NMH 1588	78.8	73.6	84.2	74.8	78.6	79.5	69.3	74.5	73.0	70.2	80.8	74.5	77.3
10	TI8334	84.3	86.0	82.8	82.4	82.6	79.5	71.3	85.6	78.7	86.0	84.2	80.9	80.5
11	IJ8533	83.0	80.8	81.5	85.3	82.2	81.2	71.8	80.6	77.3	81.6	82.9	79.2	79.9
12	DKC9108	84.8	88.1	79.0	84.7	83.3	79.9	66.8	89.7	85.2	87.5	84.3	82.2	82.3
13	VAMH 08014	82.3	82.9	83.9	77.9	81.5	80.1	68.9	81.2	74.7	82.9	85.3	78.8	79.0
14	JKMH 4511	78.8	84.1	83.0	78.7	80.9	79.0	70.2	81.5	77.9	83.0	84.8	79.4	79.6
15	S6850	81.0	82.0	82.6	81.4	81.5	79.4	68.8	80.1	71.0	83.4	84.0	77.8	79.0
16	S6790	84.3	82.8	81.5	83.7	82.4	80.8	70.6	85.3	81.3	84.2	85.3	81.3	80.8
17	BH-411036	82.2	78.8	82.8	77.1	78.9	78.4	72.5	85.4	73.9	78.0	81.8	78.3	79.0
18	KH-7647	88.2	84.8	81.0	81.6	83.6	80.4	69.1	87.7	77.4	87.6	85.0	81.2	81.8
19	KMH-25K45	85.7	75.8	82.0	82.0	80.8	79.0	69.8	81.9	76.8	85.2	82.8	79.3	79.9
20	KMH-7148	84.6	81.0	80.9	80.3	81.3	79.3	69.7	88.2	77.1	86.5	71.4	78.7	79.7
21	KMH-3110	82.0	83.8	81.6	82.0	82.1	79.9	70.8	82.4	77.2	84.8	82.9	79.7	80.3
22	KMH-6681	85.7	81.0	82.8	82.2	82.0	80.2	71.7	84.4	78.9	84.3	84.6	80.7	80.8
23	QMH-2966	82.7	81.1	81.5	82.8	81.4	79.5	69.5	86.7	73.7	84.3	82.8	79.4	79.5
24	EHL 111	84.6	83.1	80.7	82.5	82.9	78.9	72.2	83.8	65.8	85.0	84.1	78.3	79.9
25	EHL 2211	82.7	85.0	82.0	79.8	81.8	80.8	68.7	85.2	77.5	84.1	80.1	79.4	80.1
26	EHL 2311	83.6	83.4	80.4	82.3	81.9	80.0	70.6	88.1	79.0	84.7	81.5	80.7	80.4
27	NMH-1277	85.5	84.6	81.1	83.9	83.3	80.1	68.9	82.2	79.9	85.2	83.8	80.0	81.0
28	DAS MH-302	84.6	84.0	84.0	80.3	82.2	80.6	70.8	85.8	77.2	83.4	84.7	80.4	80.5
29	PRO 387	83.8	83.2	83.4	84.1	82.7	81.0	67.9	80.7	77.7	84.4	83.2	79.1	80.2
30	BIO 719	81.1	83.8	82.5	79.3	81.5	78.9	72.3	89.1	77.1	85.1	84.3	81.1	80.4

## B111

Table No. 2 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %											OV'L	
		KARI	KOLH	MAND	VAGA	ZN 4				ZN 5				
					Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
31	DAS MH-303	83.2	84.9	83.4	83.3	83.2	81.2	67.0	87.7	76.8	78.3	84.1	79.2	80.6
32	X35B403	86.9	86.8	81.8	83.4	83.3	80.3	71.2	87.5	76.1	160.7	82.9	93.1	84.3
33	CMH 10-529	82.2	85.0	83.4	79.5	82.0	81.3	69.2	83.8	76.2	84.0	84.7	79.9	79.8
34	BAUMH-2011-04	79.1	82.1	-	81.5	81.5	76.8	69.7	86.6	78.8	82.4	84.3	79.8	79.9
35	BAUMH-2011-13	82.1	80.8	78.5	82.0	81.8	77.5	65.8	83.7	78.5	80.5	83.3	78.2	79.8
36	LTH-21	87.0	85.1	82.1	86.3	84.3	80.3	69.9	83.5	83.6	83.9	82.7	80.6	81.8
37	CMH 10-473	82.1	83.0	83.0	77.8	80.3	79.4	66.8	81.0	73.8	78.2	83.1	77.0	78.5
38	X35B410	85.4	80.9	82.0	82.4	82.2	78.1	71.9	80.1	80.0	85.0	83.1	79.7	80.5
39	REH 2011-03	83.3	82.3	81.5	85.5	82.0	79.3	67.7	90.3	77.7	81.6	82.7	79.9	79.9
40	EC-3164	82.9	80.8	81.4	81.7	82.0	77.7	68.3	86.3	78.1	81.7	83.8	79.3	80.4
41	CMH 10-485	79.1	82.8	80.1	80.9	80.9	77.8	68.8	83.2	77.6	84.6	83.9	79.3	79.5
42	DH-12-01	82.0	82.3	81.4	82.1	81.4	79.5	68.4	87.5	81.6	82.2	83.0	80.4	79.9
43	CMH 10-486	84.9	83.9	79.1	80.7	82.3	78.4	69.3	83.8	78.5	-	81.6	78.3	79.8
44	REH 2011-4	84.0	84.6	81.0	83.2	82.6	79.8	71.7	81.5	85.3	83.0	83.0	80.7	80.7
45	AH 1209	83.3	83.2	80.9	80.5	81.5	78.8	67.7	85.9	76.4	84.5	83.3	79.4	79.4
46	AH 1210	83.6	83.8	80.9	81.4	82.3	79.0	67.7	80.9	77.9	85.1	83.0	78.9	79.8
47	JH 31583	86.1	81.3	83.8	83.7	82.9	79.4	69.7	86.0	75.8	85.3	81.0	79.5	80.2
48	JH 31598	85.5	85.8	78.9	80.3	82.4	79.8	69.9	88.3	80.5	85.2	84.1	81.3	80.9
49	JH 31599	82.9	83.2	81.2	81.9	82.4	80.8	68.4	89.1	78.9	85.2	83.9	81.0	80.9
50	HKH 334	87.0	81.8	80.0	82.8	82.4	79.7	72.8	84.5	79.2	80.2	78.7	79.2	80.0
51	HKH 335	82.0	82.1	83.1	79.5	81.3	80.5	71.9	87.5	76.1	81.9	84.9	80.4	79.7
52	HKH 336	86.1	84.4	82.7	84.7	83.8	79.6	68.1	88.2	77.0	83.0	84.0	80.0	81.0
53	Bio 9637 (Filler)	84.3	83.7	80.0	82.1	82.5	80.0	68.8	81.2	77.9	88.5	84.1	80.1	80.7
54	HM-4 (Filler)	80.9	80.0	82.1	80.0	81.4	79.5	67.8	88.0	75.5	82.1	82.3	79.2	79.4
55	Synthetics-1	88.6	86.3	80.5	85.6	84.7	78.2	70.6	86.5	80.1	82.6	84.7	80.4	81.3
56	MMH 12-4	86.1	80.2	80.8	81.3	81.9	79.4	68.7	87.0	62.9	83.4	83.6	77.5	80.0
57	MMH 12-5	83.6	81.8	81.5	84.7	82.9	78.4	68.2	80.6	78.3	83.7	82.8	78.6	80.9
58	MMH 12-6	84.1	80.0	81.3	82.8	81.9	79.6	72.7	84.3	80.4	83.8	80.9	80.3	79.9
59	MMH 12-7	84.0	87.5	82.9	81.3	83.9	79.8	68.4	91.1	81.6	86.3	83.9	81.8	82.2
60	MMH 12-8	85.6	83.8	82.5	80.7	81.8	79.9	67.8	82.7	78.3	83.0	83.8	79.2	79.5

## B112

Table No. 2 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %												
		KARI KOLH MAND VAGA				ZN 4				ZN 5				OV'L
					Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
61	VARANASI H12-1	83.8	80.6	80.9	82.0	82.1	78.7	69.7	91.1	75.6	84.2	83.9	80.5	80.2
62	DHM 117	78.5	76.3	83.1	80.1	79.0	78.1	67.7	82.2	73.3	76.2	83.7	76.9	77.7
63	QMH-2910	83.4	82.2	83.9	82.1	82.6	79.6	68.3	79.3	72.6	81.1	82.7	77.3	79.4
64	BH-411001	83.2	82.9	82.8	81.5	82.6	79.1	68.1	83.5	73.6	82.6	82.9	78.3	79.8
65	Safal X-260	85.8	83.3	79.1	82.5	81.7	80.6	64.7	84.0	77.5	83.7	84.5	79.1	79.9
66	KNMH 4201	84.1	82.9	81.7	79.0	81.9	81.1	72.2	86.4	76.2	80.9	84.4	80.2	80.1
67	KNMH 4202	84.0	83.9	81.0	82.0	81.6	80.7	71.7	87.8	77.8	80.1	83.7	80.3	79.6
68	KNMH 4203	80.8	82.1	83.0	82.3	81.2	80.6	69.2	83.3	73.2	80.1	84.4	78.5	78.9
69	KNMH 4204	79.3	85.2	82.0	79.7	80.5	79.1	65.3	81.9	69.3	79.6	83.0	76.3	78.4
70	KNMH 4205	79.9	80.8	79.3	80.8	80.0	80.7	65.4	88.7	68.4	83.0	84.8	78.5	79.0
	CHECKS													
71	BIO 9637	82.0	79.7	83.6	81.4	82.3	80.8	68.6	88.2	74.2	84.7	84.1	80.1	80.2
72	HM 8	77.2	83.0	82.0	81.3	80.3	79.3	70.8	86.2	73.8	81.1	83.9	79.2	78.9
73	HM 9	77.8	79.9	82.9	82.5	80.3	80.3	68.8	87.3	73.1	79.3	83.9	78.8	79.5
74	HM 10	82.1	80.0	80.4	80.4	80.6	80.3	71.1	86.2	76.1	71.0	84.6	78.2	77.5
75	PMH 4	86.5	84.1	83.6	83.1	84.4	80.4	77.3	86.6	79.3	87.0	83.9	82.4	82.3
	Loc. Mean	83.5	82.7	81.8	81.8	82.1	79.6	69.4	85.1	76.9	84.1	83.2	79.7	80.1
	C.D. (5%)	0.84	1.01	1.97	1.53	1.92	2.45	1.98	1.58	5.10	25.99	0.76	5.03	1.69
	C.V. (%)	0.62	0.76	1.51	1.16	2.23	1.91	1.77	1.15	4.11	15.72	0.57	5.56	3.72
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.06	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																
		ZN 1				ZN 2				ZN 3								
		BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
1	Meghan-G	231.7	103.2	144.5	159.8	205.7	182.0	180.0	255.0	236.0	211.7	164.7	188.3	165.0	172.7	178.0	189.5	203.3
2	FMH-603	241.7	93.4	125.0	153.3	191.3	192.7	208.3	240.0	221.0	210.7	173.0	178.8	185.0	178.9	168.5	210.0	203.7
3	Rasi-3033	231.7	85.0	133.0	149.9	177.0	197.7	200.0	225.0	230.0	205.9	135.3	159.1	155.0	149.8	155.5	180.6	186.0
4	Rasi-588	226.7	76.3	143.5	148.8	168.7	187.3	170.0	221.7	199.5	189.4	154.2	149.0	140.0	147.7	147.0	176.3	191.7
5	AMH-455	228.3	101.9	163.5	164.6	196.7	167.7	215.0	255.0	203.5	207.6	163.8	184.5	145.0	164.4	169.5	191.7	205.7
6	NMH-1281	250.0	129.3	149.5	176.3	207.7	190.0	230.0	275.0	221.0	224.7	191.8	167.7	195.0	184.8	196.0	189.3	220.3
7	NMH-1276	243.3	109.7	201.0	184.7	190.7	192.0	233.3	240.0	231.0	217.4	157.3	173.2	162.5	164.3	167.5	201.3	196.0
8	Bisco X 2711	240.0	117.2	146.5	167.9	182.3	175.7	210.0	231.7	218.5	203.6	156.0	180.0	142.5	159.5	161.5	190.8	207.3
9	NMH 1588	250.0	110.3	156.5	172.3	198.0	162.3	233.3	230.0	223.0	209.3	169.8	187.9	147.5	168.4	172.0	188.4	209.0
10	TI8334	265.0	116.8	180.0	187.3	200.0	166.0	231.7	253.3	206.5	211.5	166.7	168.3	155.0	163.3	164.0	209.5	189.0
11	IJ8533	260.0	134.0	181.5	191.8	210.3	192.7	230.0	273.3	219.5	225.2	168.3	199.9	170.0	179.4	180.5	212.2	225.3
12	DKC9108	221.7	98.2	158.5	159.5	167.0	162.3	190.0	210.0	225.5	191.0	142.2	172.5	147.5	154.1	135.5	167.3	170.0
13	VAMH 08014	248.3	111.0	160.5	173.3	184.3	197.0	216.7	226.7	204.0	205.7	149.7	153.6	155.0	152.8	164.0	150.7	206.3
14	JKMH 4511	240.0	104.6	144.0	162.9	182.7	195.7	200.0	233.3	208.5	204.0	161.3	154.8	165.0	160.4	155.0	190.1	195.3
15	S6850	211.7	107.7	177.5	165.6	204.0	164.0	208.3	240.0	222.5	207.8	157.0	181.6	170.0	169.5	154.0	188.9	187.7
16	S6790	250.0	112.3	154.0	172.1	196.3	184.0	220.0	246.7	262.0	221.8	162.0	186.3	175.0	174.4	173.0	193.7	200.0
17	BH-411036	243.3	114.8	152.5	170.2	206.3	191.7	260.0	243.3	217.0	223.7	163.3	189.4	192.5	181.7	176.0	192.8	213.3
18	KH-7647	231.7	118.2	143.0	164.3	198.0	174.3	231.7	246.7	191.0	208.3	167.3	166.8	190.0	174.7	164.5	190.7	205.3
19	KMH-25K45	246.7	104.1	140.0	163.6	193.0	194.7	230.0	240.0	207.0	212.9	160.3	182.9	167.5	170.2	173.0	183.5	197.7
20	KMH-7148	235.7	109.0	174.0	172.9	198.7	182.3	241.7	253.3	189.0	213.0	164.2	182.6	160.0	168.9	177.5	190.5	198.0
21	KMH-3110	243.3	103.4	160.0	168.9	193.0	180.0	218.3	226.7	206.0	204.8	163.2	166.0	157.5	162.2	180.0	203.5	200.0
22	KMH-6681	228.3	112.8	123.5	154.9	193.7	165.0	228.3	236.7	225.0	209.7	151.3	167.7	185.0	168.0	172.0	207.3	202.3
23	QMH-2966	251.7	102.4	175.5	176.5	191.3	195.3	221.7	245.0	234.5	217.6	163.8	191.6	160.0	171.8	167.5	185.8	203.0
24	EHL 111	221.7	88.6	146.5	152.3	178.0	183.0	201.7	225.0	226.5	202.8	150.2	173.7	177.5	167.1	162.0	181.6	185.3
25	EHL 2211	261.7	105.6	163.5	176.9	218.0	175.0	246.7	270.0	240.5	230.0	169.8	195.1	185.0	183.3	181.0	199.5	214.0
26	EHL 2311	218.3	87.1	169.5	158.3	179.3	192.7	171.7	226.7	241.5	202.4	170.2	158.4	140.0	156.2	152.0	170.5	189.0
27	NMH-1277	245.3	124.3	167.5	179.0	192.3	174.3	243.3	255.0	220.5	217.1	164.5	178.5	180.0	174.3	159.0	220.5	215.7
28	DAS MH-302	258.3	91.9	135.0	161.7	190.3	190.3	230.0	241.7	226.0	215.7	158.3	168.3	152.5	159.7	175.0	181.2	189.7
29	PRO 387	225.0	87.9	166.5	159.8	180.0	191.3	183.3	221.7	232.0	201.7	152.5	174.4	152.5	159.8	143.5	178.2	198.0
30	BIO 719	226.7	95.2	170.0	164.0	198.7	182.3	220.0	261.7	231.5	218.8	175.0	168.7	177.5	173.7	174.0	174.9	218.7

Table No. 2 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																		
		BAJA			BARA			KANG			ZN 1				ZN 2				ZN 3	
		Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE					
31	DAS MH-303	213.3	81.7	162.5	152.5	204.0	179.7	250.0	211.7	233.0	215.7	144.0	161.5	150.0	151.8	156.0	162.7	188.3		
32	X35B403	255.0	102.7	175.5	177.7	211.7	194.7	241.7	253.3	236.5	227.6	170.2	176.3	162.5	169.7	169.5	207.7	210.3		
33	CMH 10-529	248.3	89.2	154.0	163.8	200.3	190.3	240.0	241.7	225.0	219.5	166.5	174.3	185.0	175.3	164.5	183.3	205.7		
34	BAUMH-2011-04	206.7	90.5	127.5	141.6	161.7	171.7	186.7	190.0	217.0	185.4	134.0	158.0	122.5	138.2	141.5	149.5	176.0		
35	BAUMH-2011-13	251.7	66.4	175.0	164.3	185.3	171.7	213.3	236.7	203.0	202.0	152.5	166.2	152.5	157.1	149.5	190.9	199.0		
36	LTH-21	246.7	103.6	146.5	165.6	182.0	182.3	206.7	218.3	204.0	198.7	148.0	187.8	155.0	163.6	170.5	180.5	188.7		
37	CMH 10-473	253.3	97.1	159.0	169.8	208.3	181.0	248.3	266.7	255.5	232.0	165.2	171.1	190.0	175.4	169.0	218.9	222.7		
38	X35B410	240.0	86.1	150.5	158.9	192.7	182.3	216.7	238.3	218.0	209.6	165.5	181.7	177.5	174.9	165.5	212.5	219.0		
39	REH 2011-03	230.0	67.6	166.0	154.5	198.0	182.0	211.7	236.7	198.5	205.4	158.2	149.4	175.0	160.9	162.5	184.4	198.3		
40	EC-3164	258.3	90.5	151.5	166.8	192.7	187.3	206.7	240.0	226.5	210.6	170.0	169.0	165.0	168.0	165.5	182.2	201.0		
41	CMH 10-485	240.0	77.6	175.5	164.4	194.3	187.0	220.0	253.3	200.0	210.9	161.5	163.7	162.5	162.6	161.5	192.7	216.0		
42	DH-12-01	216.7	74.6	131.0	140.7	160.0	185.7	190.0	216.7	186.0	187.7	148.5	169.7	137.5	151.9	157.0	158.6	169.7		
43	CMH 10-486	225.0	96.7	135.0	152.2	188.7	189.0	-	238.3	219.0	208.8	165.0	166.1	147.5	159.5	153.0	168.8	205.0		
44	REH 2011-4	246.7	80.3	181.5	169.5	186.3	186.3	210.0	241.7	215.0	207.9	155.7	192.7	165.0	171.1	157.0	180.3	196.7		
45	AH 1209	231.7	84.1	147.5	154.4	174.7	188.0	198.3	215.0	215.0	198.2	156.0	151.4	125.0	144.1	147.0	181.9	179.3		
46	AH 1210	213.3	76.7	147.5	145.8	171.7	171.7	178.3	196.7	156.5	175.0	150.8	141.4	137.5	143.2	147.0	188.4	176.3		
47	JH 31583	243.3	81.6	162.5	162.5	186.3	197.7	196.7	236.7	198.0	203.1	156.0	170.1	140.0	155.4	161.0	196.1	188.0		
48	JH 31598	221.7	95.9	164.0	160.5	195.7	180.0	186.7	235.0	226.5	204.8	164.0	173.6	142.5	160.0	163.0	190.1	191.7		
49	JH 31599	258.3	96.8	175.0	176.7	205.0	187.3	210.0	238.3	213.5	210.8	171.8	164.9	150.0	162.2	170.5	187.8	201.7		
50	HKH 334	236.7	98.7	138.0	157.8	184.3	180.7	218.3	238.3	204.5	205.2	155.7	153.8	170.0	159.8	163.5	180.4	209.3		
51	HKH 335	238.3	80.3	136.5	151.7	186.3	172.3	230.0	240.0	189.5	203.6	153.2	169.2	177.5	166.6	158.0	183.4	199.7		
52	HKH 336	209.3	67.6	155.0	144.0	176.7	192.3	215.0	216.7	206.5	201.4	128.2	175.5	147.5	150.4	137.0	181.6	174.0		
53	Bio 9637 (Filler)	258.3	104.5	160.5	174.4	189.0	181.0	220.0	260.0	214.5	212.9	167.5	181.6	180.0	176.4	168.5	194.1	222.0		
54	HM-4 (Filler)	253.3	69.6	118.5	147.1	167.7	187.7	200.0	208.3	210.0	194.7	138.8	151.3	132.5	140.9	138.0	187.0	186.7		
55	Synthetics-1	235.0	102.4	163.0	166.8	200.7	191.3	223.3	266.7	223.0	221.0	160.5	180.7	155.0	165.4	174.0	177.1	210.0		
56	MMH 12-4	230.0	84.5	167.0	160.5	168.3	184.3	161.7	208.3	213.5	187.2	134.7	162.2	122.5	139.8	144.0	187.6	166.0		
57	MMH 12-5	226.7	80.0	181.0	162.6	175.7	181.0	171.7	230.0	224.5	196.6	149.2	174.1	155.0	159.4	149.5	176.7	179.7		
58	MMH 12-6	265.0	85.7	203.5	184.7	233.0	191.3	246.7	265.0	202.5	227.7	163.8	175.9	165.0	168.2	160.0	197.6	225.3		
59	MMH 12-7	245.0	77.2	151.0	157.7	187.0	182.3	228.3	236.7	211.0	209.1	145.3	175.4	152.5	157.7	141.5	180.7	188.0		
60	MMH 12-8	240.0	66.8	162.0	156.3	177.7	179.7	216.7	226.7	209.0	201.9	148.3	157.4	142.5	149.4	132.5	192.8	177.0		



Table No. 2 (Continued)

S.No. PEDIGREE	PLANT HEIGHT(cm)																
	ZN 1				ZN 2				ZN 3								
	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
61 VARANASI H12-1	233.3	103.0	167.5	167.9	196.7	194.7	191.7	246.7	208.0	207.5	154.5	161.7	150.0	155.4	159.5	191.5	196.0
62 DHM 117	245.0	88.6	154.0	162.5	210.3	190.3	206.7	253.3	215.0	215.1	156.2	175.1	172.5	167.9	164.5	183.5	218.3
63 QMH-2910	250.0	79.1	165.5	164.9	189.3	171.7	231.7	235.0	197.0	204.9	150.5	173.0	152.5	158.7	151.0	163.3	188.7
64 BH-411001	236.7	77.0	151.5	155.0	173.3	169.7	201.7	240.0	196.5	196.2	140.2	152.1	142.5	144.9	137.0	167.6	177.7
65 Safal X-260	216.7	71.4	157.5	148.5	173.0	175.0	188.3	223.3	202.5	192.4	139.8	158.8	135.0	144.5	143.5	151.3	193.0
66 KNMH 4201	226.3	87.6	165.0	159.6	204.3	178.0	208.3	231.7	198.5	204.2	168.2	176.9	182.5	175.9	165.0	207.2	205.3
67 KNMH 4202	236.7	76.6	158.0	157.1	202.0	183.7	210.0	235.0	210.0	208.1	161.2	171.0	145.0	159.1	137.0	198.4	196.7
68 KNMH 4203	261.7	103.4	180.0	181.7	223.7	181.7	255.0	268.3	186.5	223.0	158.3	169.2	200.0	175.8	158.5	214.4	219.7
69 KNMH 4204	251.7	77.5	187.5	172.2	199.0	189.3	250.0	265.0	173.0	215.3	177.7	178.3	195.0	183.7	168.0	192.0	215.0
70 KNMH 4205	258.3	73.0	145.0	158.8	207.7	194.7	240.0	246.7	212.5	220.3	168.2	175.7	165.0	169.6	156.0	183.4	209.3
CHECKS																	
71 BIO 9637	268.3	102.2	171.0	180.5	203.0	175.0	210.0	256.7	206.5	210.2	164.3	186.4	180.0	176.9	169.0	199.9	221.0
72 HM 8	226.7	80.7	170.0	159.1	176.0	171.7	180.0	233.3	215.5	195.3	141.2	175.4	145.0	153.9	155.5	191.3	190.0
73 HM 9	225.0	103.8	143.0	157.3	169.7	163.0	193.3	218.3	239.0	196.7	166.5	149.2	140.0	151.9	138.5	182.2	198.3
74 HM 10	251.7	113.2	184.5	183.1	190.7	171.0	220.0	231.7	200.0	202.7	157.2	176.0	165.0	166.1	166.5	181.9	210.7
75 PMH 4	226.7	101.7	118.0	148.8	174.7	171.7	193.3	211.7	196.5	189.6	156.3	170.7	175.0	167.3	154.5	184.7	185.3
Loc. Mean	239.1	94.0	158.0	163.7	190.8	182.4	213.9	238.0	213.8	207.8	158.1	171.3	160.5	163.3	160.3	187.2	199.0
C.D. (5%)	28.98	27.20	16.40	23.21	15.14	5.73	5.99	23.02	28.78	17.52	21.94	26.83	-	17.56	14.89	4.88	17.35
C.V. (%)	7.51	14.52	5.21	8.79	4.92	1.95	1.72	6.00	6.76	6.78	8.60	7.86	-	6.67	5.76	1.61	5.40
F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	-	0.00	0.00	0.00	0.00

## B116

Table No. 2 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)										OV'L		
		KARI	KOLH	MAND	VAGA	ZN 4				ZN 5		Mean	Mean	
					Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
1	Meghan-G	226.7	176.7	219.3	151.7	192.2	242.9	235.3	215.0	170.0	176.5	221.7	210.2	194.3
2	FMH-603	228.3	170.0	219.0	149.5	192.7	210.4	232.3	211.7	168.3	152.5	208.3	197.3	190.9
3	Rasi-3033	246.7	158.3	211.3	146.9	183.6	205.3	230.4	186.7	163.3	148.0	190.0	187.3	180.7
4	Rasi-588	221.7	160.0	214.7	154.5	180.8	195.0	202.1	193.3	150.7	134.5	191.7	177.9	173.7
5	AMH-455	230.0	178.3	221.0	143.3	191.4	219.6	220.7	211.7	131.7	170.0	200.0	192.3	188.3
6	NMH-1281	231.7	180.0	217.3	152.7	198.2	234.9	195.4	221.7	174.0	155.0	216.7	199.6	199.7
7	NMH-1276	238.3	178.3	220.0	148.3	192.8	240.9	208.8	210.0	161.0	167.0	206.7	199.1	194.9
8	Bisco X 2711	230.0	175.0	216.7	158.5	191.4	224.8	225.6	200.0	155.7	178.0	205.0	198.2	188.7
9	NMH 1588	215.0	161.7	213.0	142.7	186.0	254.7	192.2	223.3	150.0	173.0	228.3	203.6	191.3
10	TI8334	215.0	195.0	218.7	143.3	190.6	235.2	193.9	218.3	149.7	178.0	208.3	197.2	192.8
11	IJ8533	218.3	180.0	222.7	150.3	198.5	252.4	198.9	218.3	170.0	189.5	221.7	208.5	203.3
12	DKC9108	226.7	158.3	211.0	152.9	174.5	213.5	238.7	181.7	146.7	152.0	173.3	184.3	176.0
13	VAMH 08014	205.0	138.3	217.7	143.3	175.0	228.9	212.3	208.3	139.7	162.0	198.3	191.6	182.6
14	JKMH 4511	205.0	173.3	210.3	143.1	181.8	207.9	227.3	193.3	156.0	151.5	201.7	189.6	183.3
15	S6850	213.3	161.7	214.0	158.3	182.5	229.9	220.5	201.7	147.3	152.0	203.3	192.5	186.5
16	S6790	225.0	173.3	221.0	147.3	190.5	228.1	213.7	213.3	148.3	182.0	200.0	197.6	194.5
17	BH-411036	221.7	180.0	217.0	129.8	190.1	245.8	224.0	208.3	158.3	178.5	221.7	206.1	197.6
18	KH-7647	195.0	186.7	216.3	154.1	187.5	243.0	212.1	203.3	171.0	172.0	211.7	202.2	191.0
19	KMH-25K45	218.3	176.7	220.3	144.5	187.7	260.1	230.6	223.3	181.7	181.0	220.0	216.1	194.9
20	KMH-7148	233.3	183.3	223.0	138.9	192.1	247.3	223.7	216.7	169.0	172.5	183.3	202.1	193.6
21	KMH-3110	208.3	160.0	226.0	154.9	190.4	247.9	217.0	220.0	148.3	172.5	200.0	201.0	189.8
22	KMH-6681	230.0	180.0	217.3	147.1	193.7	235.9	198.8	216.7	178.7	182.0	195.0	201.2	190.9
23	QMH-2966	223.3	158.3	218.0	157.5	187.6	225.4	197.2	201.7	156.0	182.0	200.0	193.7	192.0
24	EHL 111	216.7	151.7	217.0	137.4	178.8	220.1	200.6	188.3	144.3	156.0	190.0	183.2	180.1
25	EHL 2211	245.0	193.3	222.0	149.5	200.6	249.1	213.9	223.3	179.7	186.0	221.7	212.3	204.5
26	EHL 2311	191.7	166.7	216.0	135.8	174.5	221.6	192.4	198.3	151.7	162.5	185.0	185.2	178.7
27	NMH-1277	220.0	175.0	224.0	147.6	194.5	231.2	183.9	213.3	181.7	179.5	206.7	199.4	196.0
28	DAS MH-302	211.7	178.3	215.7	148.3	185.7	231.7	197.4	198.3	153.3	146.0	201.7	188.1	186.3
29	PRO 387	216.7	163.3	219.7	153.4	181.8	226.3	205.7	190.0	151.7	175.0	188.3	189.5	182.4
30	BIO 719	216.7	181.7	223.7	148.5	191.2	237.9	218.5	205.0	166.7	172.0	210.0	201.7	194.0

## B117

Table No. 2 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)											OV'L	
		KARI	KOLH	MAND	VAGA	ZN 4				ZN 5				
					Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
31	DAS MH-303	211.7	180.0	215.3	150.9	180.7	207.8	210.6	170.0	150.7	155.5	191.7	181.0	180.9
32	X35B403	221.7	173.3	232.7	149.1	194.9	241.3	221.2	206.7	187.3	160.0	225.0	206.9	199.4
33	CMH 10-529	210.0	183.3	220.3	150.1	188.2	249.4	197.0	203.3	172.3	149.5	205.0	196.1	192.0
34	BAUMH-2011-04	181.7	176.7	-	128.7	159.0	176.1	203.7	153.3	154.3	146.0	191.7	170.9	162.8
35	BAUMH-2011-13	238.3	148.3	218.3	156.3	185.8	227.3	195.4	205.0	148.0	165.0	200.0	190.1	184.0
36	LTH-21	211.7	168.3	214.7	151.7	183.7	215.7	207.2	200.0	162.3	160.0	193.3	189.8	183.6
37	CMH 10-473	233.3	173.3	224.7	158.5	200.1	238.1	247.3	226.7	180.0	175.0	218.3	214.2	203.4
38	X35B410	221.7	173.3	231.3	147.7	195.9	245.8	205.6	190.0	171.7	169.0	205.0	197.8	192.0
39	REH 2011-03	221.7	175.0	224.3	145.4	187.4	219.9	198.6	211.7	165.0	169.0	196.7	193.5	185.2
40	EC-3164	211.7	188.3	214.7	128.5	184.6	228.1	227.1	201.7	152.3	158.5	211.7	196.6	188.7
41	CMH 10-485	220.0	181.7	216.3	131.3	188.5	237.3	220.5	221.7	185.7	147.0	211.7	204.0	190.8
42	DH-12-01	228.3	155.0	210.0	155.5	176.3	208.3	208.9	190.0	129.0	153.5	180.0	178.3	171.7
43	CMH 10-486	221.7	170.0	214.7	142.6	182.2	203.7	203.1	196.7	142.7	-	203.3	189.9	181.6
44	REH 2011-4	215.0	165.0	215.7	142.6	181.7	238.8	209.1	186.7	146.7	159.0	210.0	191.7	186.8
45	AH 1209	208.3	153.3	212.0	131.3	173.3	204.1	203.7	190.0	148.7	162.0	188.3	182.8	174.9
46	AH 1210	218.3	165.0	207.7	141.3	177.7	208.1	205.1	181.7	142.3	149.0	188.3	179.1	169.2
47	JH 31583	223.3	183.3	218.7	137.7	186.9	218.6	215.4	216.7	153.3	162.0	221.7	197.9	186.0
48	JH 31598	183.3	188.3	216.0	146.9	182.8	230.2	214.9	206.7	160.0	175.5	188.3	195.9	185.0
49	JH 31599	220.0	165.0	213.3	151.4	187.1	242.9	195.5	210.0	145.0	173.0	206.7	195.5	189.7
50	HKH 334	221.7	160.0	214.3	155.8	186.4	216.3	197.3	193.3	156.0	167.5	198.3	188.1	183.9
51	HKH 335	220.0	163.3	217.7	155.9	185.4	237.1	195.5	206.7	173.3	174.5	186.7	195.6	185.2
52	HKH 336	188.3	146.7	208.7	136.7	167.6	211.1	193.8	178.3	154.0	151.5	183.3	178.7	172.3
53	Bio 9637 (Filler)	235.0	161.7	226.0	152.7	194.3	245.1	206.3	203.3	178.3	177.5	216.7	204.5	196.0
54	HM-4 (Filler)	221.7	160.0	211.7	125.0	175.7	218.5	200.6	173.3	147.3	150.0	193.3	180.5	173.0
55	Synthetics-1	218.3	163.3	218.0	153.4	187.7	222.1	209.0	205.0	168.3	159.0	206.7	195.0	191.1
56	MMH 12-4	203.3	146.7	211.7	136.4	170.8	196.1	218.9	183.3	145.7	137.0	163.3	174.1	169.9
57	MMH 12-5	193.3	165.0	210.3	148.9	174.8	224.3	204.0	193.3	157.7	150.0	181.7	185.2	178.5
58	MMH 12-6	231.7	185.0	217.0	155.8	196.1	242.3	222.2	215.0	174.3	170.0	221.7	207.6	200.6
59	MMH 12-7	210.0	163.3	211.0	155.7	178.6	222.3	221.9	206.7	136.7	160.5	190.0	189.7	182.5
60	MMH 12-8	185.0	168.3	214.3	149.5	174.2	211.9	193.9	211.7	149.3	156.5	208.3	188.6	178.2

Table No. 2 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)												
		KARI	KOLH	MAND	VAGA	ZN 4					ZN 5		OV'L	
					Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
61	VARANASI H12-1	220.0	175.0	221.3	152.7	188.0	225.5	216.9	211.7	180.0	149.0	203.3	197.7	187.9
62	DHM 117	203.3	183.3	228.7	150.8	190.4	257.1	203.8	216.7	155.0	178.5	218.3	204.9	192.9
63	QMH-2910	233.3	170.0	220.3	134.6	180.2	230.4	199.0	193.3	152.3	154.5	216.7	191.0	183.4
64	BH-411001	200.0	166.7	213.7	148.2	173.0	198.4	220.8	188.3	151.0	157.0	190.0	184.3	174.9
65	Safal X-260	208.3	160.0	214.0	127.1	171.0	213.3	173.6	196.7	148.7	154.5	193.3	180.0	171.6
66	KNMH 4201	245.0	176.7	213.7	128.1	191.6	236.0	207.3	211.7	162.0	136.5	211.7	194.2	188.9
67	KNMH 4202	221.7	166.7	216.7	138.3	182.2	218.9	198.8	190.0	160.0	145.0	193.3	184.3	182.1
68	KNMH 4203	243.3	190.0	226.0	141.4	199.0	253.8	210.7	235.0	153.3	190.0	201.7	207.4	201.1
69	KNMH 4204	241.7	183.3	227.3	151.5	197.0	241.4	208.1	213.3	155.0	160.5	210.0	198.1	196.3
70	KNMH 4205	228.3	183.3	215.7	151.0	189.6	240.7	205.4	206.7	177.7	180.5	216.7	204.6	193.4
	CHECKS													
71	BIO 9637	216.7	180.0	224.7	156.6	195.4	263.0	200.6	221.7	180.0	192.0	198.3	209.3	197.8
72	HM 8	211.7	171.7	222.3	145.5	184.0	204.5	209.0	193.3	177.7	144.5	183.3	185.4	179.8
73	HM 9	213.3	160.0	210.3	143.5	178.0	220.4	214.4	183.3	160.0	157.5	188.3	187.3	178.4
74	HM 10	225.0	175.0	223.7	146.4	189.9	249.3	190.4	198.3	156.7	169.5	200.0	194.0	189.8
75	PMH 4	208.3	165.0	209.0	140.3	178.2	227.7	215.5	200.0	163.3	154.5	183.3	190.7	178.7
	Loc. Mean	218.3	170.8	217.7	146.2	185.5	228.2	209.2	202.8	159.3	163.6	201.4	194.1	186.8
	C.D. (5%)	20.93	22.92	9.71	23.41	10.43	24.17	23.64	10.35	34.61	29.63	17.17	13.08	6.67
	C.V. (%)	5.94	8.32	2.80	9.93	5.35	6.56	7.00	3.16	13.47	9.03	5.28	5.94	6.31
	F (Prob)	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.21	0.01	0.00	0.00	0.00





TABLE No. 3

Performance of early maturing experimental hybrids at Almora, Bajaura, Kangra, Barapani, Delhi, Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Jhabua, Udaipur, Bhilora in IET trial no. 63 (IET-E) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																			
		ZN 1								ZN 2								ZN 3																			
		ALMO	R	BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R
1	GAWMH-2	7481	15	12068	16	2896	28	7068	4	8872	13	4538	22	5835	22	4445	26	6720	18	4874	26	5282	23	4727	8	3749	17	6993	22	5412	28	6028	22	5382	22	5924	17
2	GYH-9842	7294	16	10484	23	2968	26	5375	14	7718	21	3531	30	5599	28	4358	27	4744	30	5741	11	4795	31	4200	25	3048	26	7044	19	6736	15	2640	31	4734	30	5192	24
3	KMH-7021	8732	7	12863	14	3791	19	3607	25	8401	16	5095	14	6178	15	4612	18	4541	31	5963	8	5278	24	5087	6	3393	22	6939	26	4797	32	4600	27	4963	28	6919	7
4	FH 3605	8927	4	14391	6	3816	18	5847	10	9722	5	7067	2	6652	5	4593	19	8915	3	4982	24	6442	3	4196	26	3762	14	6921	27	8344	2	8699	2	6385	2	6741	9
5	FH 3609	9827	2	16619	2	2936	27	7905	2	11450	1	4980	18	5535	29	5059	8	7893	12	4972	25	5688	18	4926	7	3787	13	7188	12	7625	5	7200	9	6145	7	7134	6
6	FH 3626	7009	23	14836	4	6131	5	6900	6	9582	6	5084	15	5600	27	5208	5	8225	6	5105	22	5844	15	4516	15	3758	16	7168	13	6975	9	7055	11	5894	11	6839	8
7	EH-2223	9157	3	15409	3	3385	23	5654	13	10073	3	5142	13	6429	10	4816	15	6646	19	7024	3	6012	9	4677	12	2948	28	7269	9	6859	12	6829	14	5716	15	6354	15
8	EH-2212	8584	8	13473	11	3668	21	5689	12	9249	8	5031	17	5818	23	4459	25	6873	17	4864	27	5409	21	4491	18	1473	32	7146	14	7215	6	4849	26	5035	27	6538	12
9	REH 2011-1	8422	10	14218	7	5056	7	4119	22	8920	11	5076	16	6245	13	5225	4	8156	7	5329	20	6006	10	4495	17	4045	9	6868	29	6878	11	6509	18	5759	14	6557	11
10	Filler-13	6920	25	11873	18	3892	16	4980	20	7924	20	4138	26	5649	25	4298	28	5731	23	6041	7	5171	25	4670	13	3457	21	7423	6	5637	27	1884	32	4614	31	4946	25
11	CMH-10-537	7948	11	10520	22	3866	17	5310	16	7926	19	6109	6	6640	6	3954	31	7657	14	5041	23	5880	14	4720	9	3488	20	7002	21	5857	25	5830	23	5379	23	7273	5
12	CMH-10-484	6005	30	6588	31	4205	12	3317	27	5304	31	5223	12	7090	2	4938	11	10164	1	5908	9	6665	2	3922	30	4197	5	6625	32	5806	26	7568	7	5624	16	7341	4
13	REH 2011-2	7086	22	14160	8	4410	9	6753	7	9333	7	4790	19	5613	26	4849	14	7896	11	6509	4	5931	13	4355	19	4079	8	6952	24	8654	1	6954	13	6199	5	6451	13
14	CMH-10-527	6998	24	12631	15	4195	13	2928	29	7519	22	5669	8	6406	12	5757	3	7491	15	5163	21	6097	7	5292	4	3593	19	7800	2	7206	7	7631	6	6305	3	8328	2
15	CMH-10-531	7713	12	14502	5	6674	1	4522	21	8912	12	6446	3	5652	24	5114	6	8120	8	5346	18	6136	5	5123	5	4623	3	6943	25	6845	13	7372	8	6181	6	7408	3
16	Filler-12	6596	29	8693	27	4389	10	6721	9	7337	24	4198	25	5850	21	4281	29	5718	24	5442	16	5098	27	4296	20	3759	15	7503	3	6276	18	5391	24	5445	18	5805	18
17	BAUMH-2011-07	6910	26	12050	17	4073	14	5252	18	8070	18	4551	21	6239	14	4558	21	6082	21	4217	30	5130	26	4046	29	3983	10	7441	5	7156	8	4538	28	5433	19	4689	28
18	BAUMH-2011-05	4687	31	8707	26	3548	22	3019	28	5471	30	3896	27	6471	8	4943	10	5655	26	4181	31	5029	28	4265	22	3295	24	7824	1	5860	24	6192	19	5487	17	4299	29
19	BIO 6008	9856	1	18337	1	6538	3	3814	24	10669	2	6154	5	4959	32	4502	23	9005	2	4023	32	5729	17	5538	2	4677	2	7023	20	7642	4	6568	16	6289	4	10323	1
20	AH-1205	7129	21	10714	21	4724	8	2598	30	6814	26	3661	29	5909	18	4894	12	5450	27	4344	29	4852	30	4295	21	1613	30	7347	7	6205	19	6101	20	5112	25	4702	27
21	AH-1206	8497	9	13462	12	2267	32	3536	26	8499	15	5352	10	6580	7	4990	9	7816	13	5333	19	6014	8	4661	14	3904	12	6885	28	6939	10	6622	15	5802	13	6565	10
22	AH-1207	6713	27	9039	25	3945	15	4055	23	6602	29	3482	31	7076	3	4205	30	4870	29	5478	14	5022	29	4236	24	3375	23	7253	10	5341	29	5070	25	5055	26	5222	23
23	AH-1208	4063	32	6447	32	3167	24	1223	32	3911	32	3131	32	6427	11	4531	22	3665	32	4590	28	4469	32	3760	32	3029	27	7278	8	5051	30	3762	30	4576	32	3854	32
24	JH 31602	7214	18	13226	13	2695	30	7051	5	9164	9	7275	1	7809	1	4473	24	8737	4	5810	10	6821	1	5585	1	4496	4	7047	18	6809	14	10707	1	6929	1	6168	16

B122

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																			
		ZN 1										ZN 2										ZN 3															
		ALMO	R	BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R
25	JH 31603	7185	19	11626	20	3676	20	8038	1	8950	10	6196	4	5851	20	5067	7	8043	10	5355	17	6102	6	4258	23	4080	7	7489	4	6482	17	7865	3	6035	8	5489	20
26	PRAKASH(Filler)	7145	20	9373	24	2716	29	5802	11	7440	23	5958	7	5396	30	5805	1	8249	5	5476	15	6177	4	4689	11	4813	1	7222	11	6141	21	6975	12	5968	10	5354	22
27	JH 3459 (Filler)	7687	13	7590	30	2595	31	5153	19	6810	27	3776	28	5989	17	5792	2	5699	25	6375	5	5526	19	4496	16	3246	25	6967	23	6183	20	6046	21	5387	20	4096	31
28	HKH 333	8920	5	14159	9	5757	6	6751	8	9943	4	5338	11	5299	31	4579	20	6926	16	7591	1	5947	11	3764	31	1716	29	7048	17	6726	16	7665	5	5384	21	6436	14
29	HKH 331	7680	14	11659	19	6477	4	2100	31	7147	25	4438	23	6039	16	4877	13	6404	20	5721	12	5496	20	4140	27	4155	6	6718	31	7803	3	7197	10	6002	9	5506	19
30	HKH 332	7220	17	13538	10	4328	11	5332	15	8697	14	4291	24	7046	4	3901	32	5307	28	6167	6	5343	22	4118	28	1609	31	6754	30	6020	22	7722	4	5245	24	5380	21
CHECKS																																					
31	JH-3459	6608	28	7979	29	6647	2	5303	17	6630	28	4588	20	6440	9	4724	17	5983	22	7486	2	5844	16	4711	10	3673	18	7069	15	4912	31	4198	29	4913	29	4251	30
32	Prakash	8824	6	8666	28	3001	25	7309	3	8266	17	5370	9	5877	19	4803	16	8093	9	5552	13	5939	12	5469	3	3954	11	7062	16	6005	23	6560	17	5810	12	4887	26
Location Mean		7532		11872		4139		5095		8166		4987		6131		4769		6921		5500		5662		4554		3524		7132		6512		6276		5600		6030	
Mean Stand		22		22		24		20		22		37		36		37		37		30		35		30		31		29		31		39		32		30	
C.D. (5%)		1514		2321		2716		623		1486		1054		844		290		1541		1915		1129		613		223		801		1361		1493		898		1982	
C.V. (%)		12.31		11.97		32.14		5.98		-		12.95		8.43		3.73		13.64		17.05		-		8.24		3.87		6.88		10.23		14.57		-		20	
F (Prob)		0		0		0.025		0		-		0		0		0		0		0.003		-		0		0		0.051		0.002		0		-		0	
Plot Size		3.6		3		2.5		2.88		-		6		4.8		6		5.46		6		-		4.8		4.8		4.8		5.6		4.8		-		6	
AGRONOMY DATA																																					
Sowing Date		9-07		29-06		27-06		9-07		-		6-07		-		4-07		30-06		9-07		-		10-07		-		2-07		6-07		15-07		-		24-07	
Harvest Date		8-11		26-10		17-10		8-10		-		19-10		31-10		1-10		12-10		19-10		-		17-10		1-10		15-10		15-10		20-10		-		22-11	
Irrigation Nos		3		3		-		-		-		2		-		4		3		1		-		-		-		2		-		-		-		6	
Fertilizer Applied N		80		120		80		120		-		120		120		150		90		120		-		120		120		120		120		100		-		150	
Fertilizer Applied P		60		60		60		60		-		60		60		60		30		60		-		60		60		60		60		40		-		75	
Fertilizer Applied K		40		40		40		40		-		40		50		60		-		40		-		60		60		40		40		40		-		37.5	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 32.1 %: BHIL 23.2 %



B123

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
		ZN 4														ZN 5								OV'L									
		COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R
1	GAWMH-2	7394	17	6335	26	7655	19	4965	11	6872	12	3144	26	6041	20	2944	21	2741	26	5502	29	4939	28	1988	31	3436	29	4900	17	4077	29	5642	22
2	GYH-9842	5638	30	7266	17	5905	30	4392	27	6754	15	3135	27	5469	28	3387	16	3009	25	5980	26	4530	29	1506	32	4072	17	4408	24	4231	26	5172	29
3	KMH-7021	8200	11	8893	4	8784	8	5036	8	8923	2	5146	4	7414	5	4572	8	3206	23	9630	3	7715	5	3552	14	3457	27	4698	20	5546	7	6215	13
4	FH 3605	9684	3	10320	1	8620	10	5284	4	8334	4	6231	1	7888	2	3834	12	3407	17	9148	5	8490	2	2971	24	4234	14	6356	4	5912	4	7076	2
5	FH 3609	8135	12	8069	11	7861	16	5073	7	7758	7	2133	31	6595	13	3537	13	4394	6	8103	13	5222	27	3455	16	4836	5	4604	22	5116	14	6553	7
6	FH 3626	9616	4	8488	8	7740	18	5033	9	7552	9	3979	12	7035	8	4796	4	5210	1	8709	7	6032	18	2366	28	5406	3	4811	19	5828	5	6602	6
7	EH-2223	5634	31	7317	16	7551	21	4417	26	7372	10	3263	24	5987	22	3176	17	4396	5	8092	14	5576	21	4760	3	3559	25	6065	8	5144	13	6217	12
8	EH-2212	8267	10	8247	10	6997	24	6148	1	6797	14	5489	3	6926	9	2925	22	3582	14	8514	8	5340	25	3202	18	3819	19	4909	16	4848	19	6059	17
9	REH 2011-1	7760	14	7865	13	7988	15	5244	5	7765	6	3885	13	6723	11	4128	10	1993	32	6603	22	5400	23	5029	1	3270	32	6211	5	4601	22	6164	15
10	Filler-13	5706	29	5650	31	6343	28	4144	28	6058	25	3525	18	5196	29	2149	30	4796	4	6335	24	5883	20	2219	29	3782	20	4349	25	4549	23	5245	26
11	CMH-10-537	9275	5	7885	12	8296	14	4937	12	5914	26	3554	17	6733	10	2168	29	3476	15	8175	11	6773	9	4900	2	3677	22	6368	3	5106	15	6071	16
12	CMH-10-484	7741	15	6608	24	9066	5	4446	24	6357	20	3521	19	6440	15	-	-	2471	28	8400	10	3329	31	4473	6	4689	10	4473	23	4672	21	5832	19
13	REH 2011-2	9935	2	9925	2	8486	12	4527	23	8150	5	4491	6	7424	4	4054	11	3372	19	9211	4	7881	4	3781	13	4762	7	4630	21	5652	6	6712	4
14	CMH-10-527	11345	1	8637	7	8823	6	5333	3	6839	13	4340	8	7664	3	2622	24	2287	31	10092	2	6209	17	4083	9	4462	12	6177	6	5308	11	6541	8
15	CMH-10-531	7809	13	8773	6	9253	4	4876	14	8487	3	3489	20	7156	7	4972	3	3898	8	8434	9	6349	15	4207	7	5794	1	6534	1	5997	3	6708	5
16	Filler-12	6219	28	5955	27	6318	29	4774	18	6086	24	3372	22	5504	27	2971	20	3143	24	6709	21	5419	22	3029	22	3420	30	3932	29	4265	25	5340	25
17	BAUMH-2011-07	6896	22	5780	29	7354	23	4990	10	6682	16	2935	28	5618	25	2297	27	4857	3	7325	17	6566	10	4690	4	3614	24	5256	12	4986	17	5625	23
18	BAUMH-2011-05	6492	25	5673	30	5507	31	4868	15	5561	27	3157	25	5080	30	1263	31	3277	20	5094	30	2659	32	2869	25	3439	28	3469	32	3200	32	4760	31
19	BIO 6008	7190	18	9627	3	11627	1	4747	20	10373	1	4834	5	8389	1	6062	1	3621	13	10536	1	9210	1	3880	11	5415	2	5793	9	6773	1	7364	1
20	AH-1205	7072	19	6504	25	6616	26	4652	22	6185	23	4196	9	5704	23	2694	23	2393	29	4966	31	5919	19	2570	27	4037	18	4057	26	4011	30	5164	30
21	AH-1206	8874	7	8411	9	8579	11	4669	21	7607	8	6168	2	7268	6	4686	5	4107	7	8000	15	6210	16	4594	5	4148	16	5229	13	5397	10	6455	9
22	AH-1207	6927	21	6864	22	6795	25	4824	16	5434	28	2781	30	5550	26	3536	14	3733	12	5547	28	6422	13	4040	10	3733	21	3665	31	4439	24	5218	27
23	AH-1208	4490	32	4629	32	5434	32	4034	30	4136	32	2017	32	4085	32	2306	26	3808	10	3985	32	4478	30	2015	30	3415	31	4025	27	3669	31	4137	32
24	JH 31602	8606	8	7348	15	10017	2	4119	29	6603	17	3827	14	6670	12	4981	2	5053	2	8144	12	8099	3	4083	8	4473	11	6068	7	6136	2	6913	3

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SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
		ZN 4												ZN 5						OV'L													
		COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R
25	JH 31603	7634	16	7349	14	7590	20	5110	6	5248	29	4112	10	6076	19	3509	15	3260	21	7297	18	6850	7	3504	15	4710	8	5512	11	5190	12	6200	14
26	PRAKASH(Filler)	8418	9	6751	23	8470	13	4004	31	6549	19	3368	23	6131	17	4201	9	3420	16	5713	27	6441	12	2597	26	4958	4	5164	14	4983	18	5994	18
27	JH 3459 (Filler)	6295	26	5814	28	6520	27	4429	25	5245	30	2913	29	5045	31	2316	25	2706	27	6209	25	5329	26	3176	19	3669	23	4814	18	4174	28	5206	28
28	HKH 333	6683	24	8773	5	7431	22	5405	2	6220	22	3607	16	6365	16	3038	18	3388	18	8983	6	7016	6	3132	20	4314	13	6374	2	5519	8	6313	10
29	HKH 331	6871	23	7056	19	8651	9	3961	32	4189	31	3428	21	5666	24	3019	19	3246	22	7563	16	6419	14	3067	21	4703	9	5013	15	4994	16	5714	21
30	HKH 332	6961	20	7175	18	7825	17	4789	17	6340	21	4410	7	6126	18	4601	7	2342	30	6995	20	6842	8	3830	12	4177	15	3722	30	4780	20	5792	20
CHECKS																																	
31	JH-3459	6285	27	6951	21	8822	7	4756	19	6954	11	4066	11	6012	21	2214	28	3786	11	6460	23	5379	24	3383	17	3496	26	3991	28	4221	27	5426	24
32	Prakash	9117	6	7011	20	9621	3	4895	13	6571	18	3790	15	6556	14	4621	6	3854	9	7281	19	6546	11	2994	23	4825	6	5638	10	5461	9	6238	11
Location Mean		7599		7436		7892		4778		6747		3822		6329		3470		3507		7429		6108		3436		4181		5038		4956		5956	
Mean Stand		31		34		30		37		33		26		32		23		30		36		25		29		26		27		28		30	
C.D. (5%)		722		1715		1132		922		801		817		1156		801		707		401		1062		1625		526		526		670		1027	
C.V. (%)		5.82		14.12		8.79		11.82		7.27		13.09		-		14.14		12.34		3.3		10.64		23.16		7.7		6.4		-		-	
F (Prob)		0		0		0		0.007		0		0		0		0		0		0		0		0.007		0		0		-		-	
Plot Size		4.8		6		6		6		5.6		4.8		-		6		4.8		6		4.8		4.8		4.5		4.8		-		-	
AGRONOMY DATA																																	
Sowing Date		5-07		5-07		5-07		22-07		25-07		23-06		-		14-07		14-07		27-06		13-07		18-07		6-07		3-07		-		-	
Harvest Date		20-10		25-10		25-10		3-12		10-12		18-10		-		-		13-10		31-10		12-10		-		13-10		13-10		-		-	
Irrigation Nos		10		1		-		-		8		10		-		-		-		-		-		-		-		1		-		-	
Fertilizer Applied N		150		200		180		100		150		200		-		100		150		120		120		120		100		90		-		-	
Fertilizer Applied P		75		60		60		50		75		75		-		50		80		60		50		60		60		60		-		-	
Fertilizer Applied K		75		50		50		30		40		75		-		30		40		40		-		-		40		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 32.1 %: BHIL 23.2 %

## B125

TABLE No. 3 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE JH-3459																	
		ZN 1						ZN 2						ZN 3					
		ALMO	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH
1	GAWMH-2	13.2	51.2	-	33.3	33.8	-	-	-	12.3	-	-	0.3	2.1	-	10.2	43.6	9.6	39.4
2	GYH-9842	10.4	31.4	-	1.4	16.4	-	-	-	-	-	-	-	-	-	37.1	-	-	22.1
3	KMH-7021	32.2	61.2	-	-	26.7	11.1	-	-	-	-	-	8	-	-	-	9.6	1	62.8
4	FH 3605	35.1	80.4	-	10.3	46.6	54	3.3	-	49	-	10.2	-	2.4	-	69.9	107.2	30	58.6
5	FH 3609	48.7	108.3	-	49.1	72.7	8.5	-	7.1	31.9	-	-	4.6	3.1	1.7	55.2	71.5	25.1	67.8
6	FH 3626	6.1	85.9	-	30.1	44.5	10.8	-	10.3	37.5	-	0	-	2.3	1.4	42	68	20	60.9
7	EH-2223	38.6	93.1	-	6.6	51.9	12.1	-	1.9	11.1	-	2.9	-	-	2.8	39.6	62.7	16.4	49.5
8	EH-2212	29.9	68.9	-	7.3	39.5	9.6	-	-	14.9	-	-	-	-	1.1	46.9	15.5	2.5	53.8
9	REH 2011-1	27.5	78.2	-	-	34.5	10.6	-	10.6	36.3	-	2.8	-	10.1	-	40	55	17.2	54.3
10	Filler-13	4.7	48.8	-	-	19.5	-	-	-	-	-	-	-	-	5	14.8	-	-	16.4
11	CMH-10-537	20.3	31.9	-	0.1	19.6	33.1	3.1	-	28	-	0.6	0.2	-	-	19.2	38.9	9.5	71.1
12	CMH-10-484	-	-	-	-	-	13.8	10.1	4.5	69.9	-	14	-	14.3	-	18.2	80.3	14.5	72.7
13	REH 2011-2	7.2	77.5	-	27.3	40.8	4.4	-	2.6	32	-	1.5	-	11.1	-	76.2	65.6	26.2	51.8
14	CMH-10-527	5.9	58.3	-	-	13.4	23.6	-	21.9	25.2	-	4.3	12.3	-	10.3	46.7	81.8	28.3	95.9
15	CMH-10-531	16.7	81.8	0.4	-	34.4	40.5	-	8.3	35.7	-	5	8.7	25.9	-	39.4	75.6	25.8	74.3
16	Filler-12	-	9	-	26.7	10.7	-	-	-	-	-	-	-	2.3	6.1	27.8	28.4	10.8	36.6
17	BAUMH-2011-07	4.6	51	-	-	21.7	-	-	-	1.7	-	-	-	8.4	5.3	45.7	8.1	10.6	10.3
18	BAUMH-2011-05	-	9.1	-	-	-	-	0.5	4.6	-	-	-	-	-	10.7	19.3	47.5	11.7	1.1
19	BIO 6008	49.2	129.8	-	-	60.9	34.1	-	-	50.5	-	-	17.5	27.3	-	55.6	56.4	28	142.9
20	AH-1205	7.9	34.3	-	-	2.8	-	-	3.6	-	-	-	-	-	3.9	26.3	45.3	4.1	10.6
21	AH-1206	28.6	68.7	-	-	28.2	16.7	2.2	5.6	30.6	-	2.9	-	6.3	-	41.2	57.7	18.1	54.5
22	AH-1207	1.6	13.3	-	-	-	-	9.9	-	-	-	-	-	-	2.6	8.7	20.8	2.9	22.8
23	AH-1208	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.8	-	-	-
24	JH 31602	9.2	65.8	-	32.9	38.2	58.6	21.3	-	46	-	16.7	18.5	22.4	-	38.6	155	41	45.1
25	JH 31603	8.7	45.7	-	51.6	35	35	-	7.3	34.4	-	4.4	-	11.1	5.9	31.9	87.3	22.8	29.1
26	PRAKASH(Filler)	8.1	17.5	-	9.4	12.2	29.9	-	22.9	37.9	-	5.7	-	31.1	2.2	25	66.1	21.5	26
27	JH 3459 (Filler)	16.3	-	-	-	2.7	-	-	22.6	-	-	-	-	-	-	25.9	44	9.7	-
28	HKH 333	35	77.5	-	27.3	50	16.4	-	-	15.8	1.4	1.8	-	-	-	36.9	82.6	9.6	51.4
29	HKH 331	16.2	46.1	-	-	7.8	-	-	3.2	7	-	-	-	13.1	-	58.9	71.4	22.2	29.5
30	HKH 332	9.3	69.7	-	0.5	31.2	-	9.4	-	-	-	-	-	-	-	22.6	83.9	6.8	26.6
	CHECKS																		
31	JH-3459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Prakash	33.5	8.6	-	37.8	24.7	17	-	1.7	35.3	-	1.6	16.1	7.7	-	22.3	56.3	18.3	15

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 21%) : BARA 32.1 %: BHIL 23.2 %

## B126

TABLE No. 3 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE JH-3459														OV'L	
		ZN 4											ZN 5				
		COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN
1	GAWMH-2	17.7	-	-	4.4	-	-	0.5	33	-	-	-	-	-	22.8	-	4
2	GYH-9842	-	4.5	-	-	-	-	-	53	-	-	-	-	16.5	10.4	0.2	-
3	KMH-7021	30.5	27.9	-	5.9	28.3	26.6	23.3	106.5	-	49.1	43.4	5	-	17.7	31.4	14.5
4	FH 3605	54.1	48.5	-	11.1	19.8	53.2	31.2	73.2	-	41.6	57.9	-	21.1	59.3	40.1	30.4
5	FH 3609	29.4	16.1	-	6.7	11.6	-	9.7	59.8	16.1	25.4	-	2.1	38.3	15.4	21.2	20.8
6	FH 3626	53	22.1	-	5.8	8.6	-	17	116.7	37.6	34.8	12.1	-	54.7	20.6	38.1	21.7
7	EH-2223	-	5.3	-	-	6	-	-	43.5	16.1	25.3	3.7	40.7	1.8	52	21.9	14.6
8	EH-2212	31.5	18.6	-	29.3	-	35	15.2	32.1	-	31.8	-	-	9.2	23	14.9	11.7
9	REH 2011-1	23.5	13.1	-	10.3	11.7	-	11.8	86.5	-	2.2	0.4	48.6	-	55.6	9	13.6
10	Filler-13	-	-	-	-	-	-	-	-	26.7	-	9.4	-	8.2	9	7.8	-
11	CMH-10-537	47.6	13.4	-	3.8	-	-	12	-	-	26.6	25.9	44.8	5.2	59.6	21	11.9
12	CMH-10-484	23.2	-	2.8	-	-	-	7.1	-	-	30	-	32.2	34.1	12.1	10.7	7.5
13	REH 2011-2	58.1	42.8	-	-	17.2	10.5	23.5	83.1	-	42.6	46.5	11.8	36.2	16	33.9	23.7
14	CMH-10-527	80.5	24.3	0	12.1	-	6.8	27.5	18.4	-	56.2	15.4	20.7	27.6	54.8	25.8	20.5
15	CMH-10-531	24.3	26.2	4.9	2.5	22	-	19	124.6	3	30.6	18	24.3	65.8	63.7	42.1	23.6
16	Filler-12	-	-	-	0.4	-	-	-	34.2	-	3.9	0.7	-	-	-	1.1	-
17	BAUMH-2011-07	9.7	-	-	4.9	-	-	-	3.8	28.3	13.4	22.1	38.6	3.4	31.7	18.1	3.7
18	BAUMH-2011-05	3.3	-	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-
19	BIO 6008	14.4	38.5	31.8	-	49.2	18.9	39.5	173.9	-	63.1	71.2	14.7	54.9	45.1	60.5	35.7
20	AH-1205	12.5	-	-	-	-	3.2	-	21.7	-	-	10.1	-	15.5	1.7	-	-
21	AH-1206	41.2	21	-	-	9.4	51.7	20.9	111.7	8.5	23.8	15.5	35.8	18.7	31	27.9	19
22	AH-1207	10.2	-	-	1.4	-	-	-	59.7	-	-	19.4	19.4	6.8	-	5.2	-
23	AH-1208	-	-	-	-	-	-	-	4.2	0.6	-	-	-	-	0.8	-	-
24	JH 31602	36.9	5.7	13.6	-	-	-	10.9	125	33.5	26.1	50.6	20.7	28	52	45.4	27.4
25	JH 31603	21.5	5.7	-	7.4	-	1.1	1.1	58.5	-	13	27.4	3.5	34.8	38.1	23	14.3
26	PRAKASH(Filler)	33.9	-	-	-	-	-	2	89.8	-	-	19.8	-	41.8	29.4	18.1	10.5
27	JH 3459 (Filler)	0.2	-	-	-	-	-	-	4.6	-	-	-	-	5	20.6	-	-
28	HKH 333	6.3	26.2	-	13.7	-	-	5.9	37.2	-	39.1	30.4	-	23.4	59.7	30.8	16.3
29	HKH 331	9.3	1.5	-	-	-	-	-	36.4	-	17.1	19.4	-	34.5	25.6	18.3	5.3
30	HKH 332	10.8	3.2	-	0.7	-	8.5	1.9	107.8	-	8.3	27.2	13.2	19.5	-	13.2	6.7
	CHECKS																
31	JH-3459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Prakash	45.1	0.9	9.1	2.9	-	-	9	108.8	1.8	12.7	21.7	-	38	41.3	29.4	15

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TABLE No. 3 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash																		
	ZN 1							ZN 2					ZN 3						
	ALMO	BAJA	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	
1 GAWMH-2	-	39.3	-	-	7.3	-	-	-	-	-	-	-	-	-	-	-	-	-	21.2
2 GYH-9842	-	21	-	-	-	-	-	-	-	3.4	-	-	-	-	12.2	-	-	-	6.3
3 KMH-7021	-	48.4	26.3	-	1.6	-	5.1	-	-	7.4	-	-	-	-	-	-	-	-	41.6
4 FH 3605	1.2	66.1	27.1	-	17.6	31.6	13.2	-	10.2	-	8.5	-	-	-	38.9	32.6	9.9	38	
5 FH 3609	11.4	91.8	-	8.2	38.5	-	-	5.3	-	-	-	-	-	1.8	27	9.8	5.8	46	
6 FH 3626	-	71.2	104.3	-	15.9	-	-	8.4	1.6	-	-	-	-	1.5	16.1	7.5	1.4	40	
7 EH-2223	3.8	77.8	12.8	-	21.9	-	9.4	0.3	-	26.5	1.2	-	-	2.9	14.2	4.1	-	30	
8 EH-2212	-	55.5	22.2	-	11.9	-	-	-	-	-	-	-	-	1.2	20.1	-	-	33.8	
9 REH 2011-1	-	64.1	68.5	-	7.9	-	6.3	8.8	0.8	-	1.1	-	2.3	-	14.5	-	-	34.2	
10 Filler-13	-	37	29.7	-	-	-	-	-	-	8.8	-	-	-	5.1	-	-	-	1.2	
11 CMH-10-537	-	21.4	28.8	-	-	13.8	13	-	-	-	-	-	-	-	-	-	-	48.8	
12 CMH-10-484	-	-	40.1	-	-	-	20.6	2.8	25.6	6.4	12.2	-	6.2	-	-	15.4	-	50.2	
13 REH 2011-2	-	63.4	46.9	-	12.9	-	-	1	-	17.2	-	-	3.2	-	44.1	6	6.7	32	
14 CMH-10-527	-	45.8	39.7	-	-	5.6	9	19.9	-	-	2.7	-	-	10.5	20	16.3	8.5	70.4	
15 CMH-10-531	-	67.4	122.4	-	7.8	20	-	6.5	0.3	-	3.3	-	16.9	-	14	12.4	6.4	51.6	
16 Filler-12	-	0.3	46.2	-	-	-	-	-	-	-	-	-	-	6.2	4.5	-	-	18.8	
17 BAUMH-2011-07	-	39.1	35.7	-	-	-	6.2	-	-	-	-	-	0.7	5.4	19.2	-	-	-	
18 BAUMH-2011-05	-	0.5	18.2	-	-	-	10.1	2.9	-	-	-	-	-	10.8	-	-	-	-	
19 BIO 6008	11.7	111.6	117.8	-	29.1	14.6	-	-	11.3	-	-	1.3	18.3	-	27.2	0.1	8.3	111.3	
20 AH-1205	-	23.6	57.4	-	-	-	0.5	1.9	-	-	-	-	-	4	3.3	-	-	-	
21 AH-1206	-	55.4	-	-	2.8	-	12	3.9	-	-	1.3	-	-	-	15.5	0.9	-	34.4	
22 AH-1207	-	4.3	31.4	-	-	-	20.4	-	-	-	-	-	-	2.7	-	-	-	6.9	
23 AH-1208	-	-	5.5	-	-	-	9.4	-	-	-	-	-	-	3.1	-	-	-	-	
24 JH 31602	-	52.6	-	-	10.9	35.5	32.9	-	8	4.6	14.8	2.1	13.7	-	13.4	63.2	19.3	26.2	
25 JH 31603	-	34.2	22.5	10	8.3	15.4	-	5.5	-	-	2.7	-	3.2	6	7.9	19.9	3.9	12.3	
26 PRAKASH(Filler)	-	8.2	-	-	-	11	-	20.9	1.9	-	4	-	21.7	2.3	2.3	6.3	2.7	9.6	
27 JH 3459 (Filler)	-	-	-	-	-	-	1.9	20.6	-	14.8	-	-	-	-	3	-	-	-	
28 HKH 333	1.1	63.4	91.8	-	20.3	-	-	-	-	36.7	0.1	-	-	-	12	16.8	-	31.7	
29 HKH 331	-	34.5	115.8	-	-	-	2.8	1.5	-	3	-	-	5.1	-	29.9	9.7	3.3	12.7	
30 HKH 332	-	56.2	44.2	-	5.2	-	19.9	-	-	11.1	-	-	-	-	0.2	17.7	-	10.1	
CHECKS																			
31 JH-3459	-	-	121.5	-	-	-	9.6	-	-	34.8	-	-	-	0.1	-	-	-	-	
32 Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 21%) : BARA 32.1 %: BHIL 23.2 %

B128

TABLE No. 3 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash															
		ZN 4											ZN 5		OV'L		
		COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN
1	GAWMH-2	-	-	-	1.4	4.6	-	-	-	-	-	-	-	-	-	-	-
2	GYH-9842	-	3.6	-	-	2.8	-	-	-	-	-	-	-	-	-	-	-
3	KMH-7021	-	26.9	-	2.9	35.8	35.8	13.1	-	-	32.3	17.9	18.6	-	-	1.6	-
4	FH 3605	6.2	47.2	-	7.9	26.8	64.4	20.3	-	-	25.6	29.7	-	-	12.7	8.3	13.4
5	FH 3609	-	15.1	-	3.6	18.1	-	0.6	-	14	11.3	-	15.4	0.2	-	-	5
6	FH 3626	5.5	21.1	-	2.8	14.9	5	7.3	3.8	35.2	19.6	-	-	12	-	6.7	5.8
7	EH-2223	-	4.4	-	-	12.2	-	-	-	14.1	11.1	-	59	-	7.6	-	-
8	EH-2212	-	17.6	-	25.6	3.4	44.8	5.6	-	-	16.9	-	7	-	-	-	-
9	REH 2011-1	-	12.2	-	7.1	18.2	2.5	2.6	-	-	-	-	68	-	10.2	-	-
10	Filler-13	-	-	-	-	-	-	-	-	24.4	-	-	-	-	-	-	-
11	CMH-10-537	1.7	12.5	-	0.9	-	-	2.7	-	-	12.3	3.5	63.7	-	13	-	-
12	CMH-10-484	-	-	-	-	-	-	-	-	-	15.4	-	49.4	-	-	-	-
13	REH 2011-2	9	41.6	-	-	24	18.5	13.2	-	-	26.5	20.4	26.3	-	-	3.5	7.6
14	CMH-10-527	24.4	23.2	-	8.9	4.1	14.5	16.9	-	-	38.6	-	36.4	-	9.5	-	4.8
15	CMH-10-531	-	25.1	-	-	29.2	-	9.2	7.6	1.2	15.8	-	40.5	20.1	15.9	9.8	7.5
16	Filler-12	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-
17	BAUMH-2011-07	-	-	-	1.9	1.7	-	-	-	26	0.6	0.3	56.7	-	-	-	-
18	BAUMH-2011-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	BIO 6008	-	37.3	20.9	-	57.9	27.5	28	31.2	-	44.7	40.7	29.6	12.2	2.7	24	18
20	AH-1205	-	-	-	-	-	10.7	-	-	-	-	-	-	-	-	-	-
21	AH-1206	-	20	-	-	15.8	62.8	10.9	1.4	6.6	9.9	-	53.4	-	-	-	3.5
22	AH-1207	-	-	-	-	-	-	-	-	-	-	-	34.9	-	-	-	-
23	AH-1208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	JH 31602	-	4.8	4.1	-	0.5	1	1.7	7.8	31.1	11.9	23.7	36.4	-	7.6	12.4	10.8
25	JH 31603	-	4.8	-	4.4	-	8.5	-	-	-	0.2	4.6	17	-	-	-	-
26	PRAKASH(Filler)	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-	-	-
27	JH 3459 (Filler)	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-
28	HKH 333	-	25.1	-	10.4	-	-	-	-	-	23.4	7.2	4.6	-	13	1.1	1.2
29	HKH 331	-	0.7	-	-	-	-	-	-	-	3.9	-	2.4	-	-	-	-
30	HKH 332	-	2.3	-	-	-	16.4	-	-	-	-	4.5	27.9	-	-	-	-
	CHECKS																
31	JH-3459	-	-	-	-	5.8	7.3	-	-	-	-	-	13	-	-	-	-
32	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 21%) : BARA 32.1 %: BHIL 23.2 %

## B129

Table No. 3 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																
		ZN 1								ZN 2				ZN 3				
		ALMO	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	GAWMH-2	63.0	77.8	80.0	72.9	73.4	55.6	68.8	61.7	71.4	56.7	62.8	66.7	61.8	71.5	57.1	83.3	68.1
2	GYH-9842	62.0	81.1	76.0	72.9	73.0	63.3	75.7	63.3	75.1	48.3	65.2	65.3	67.4	47.9	49.1	83.3	62.6
3	KMH-7021	62.0	76.7	98.0	66.0	75.7	65.0	74.3	61.1	73.3	55.0	65.7	67.4	63.2	61.8	50.9	82.6	65.2
4	FH 3605	65.7	76.7	124.0	66.0	83.1	64.4	74.3	61.7	70.8	54.2	65.1	57.6	64.6	55.6	59.8	82.6	64.0
5	FH 3609	64.8	81.1	86.0	79.9	77.9	66.1	75.7	62.8	75.7	55.8	67.2	69.4	68.1	69.4	65.2	80.6	70.5
6	FH 3626	59.3	81.1	100.0	72.9	78.3	66.7	76.4	60.6	73.9	51.7	65.8	70.8	65.3	78.5	59.8	83.3	71.5
7	EH-2223	61.1	76.7	98.0	72.9	77.2	65.0	72.9	60.0	71.4	47.5	63.4	56.9	63.2	54.9	54.5	83.3	62.6
8	EH-2212	65.7	81.1	110.0	66.0	80.7	65.6	73.6	61.7	64.7	50.0	63.1	54.9	66.7	63.2	58.0	81.3	64.8
9	REH 2011-1	63.0	71.1	104.0	66.0	76.0	67.2	75.7	62.2	73.9	53.3	66.5	68.1	64.6	55.6	58.9	74.3	64.3
10	Filler-13	61.1	84.4	76.0	66.0	71.9	65.6	73.6	61.1	73.3	50.0	64.7	64.6	64.6	68.8	54.5	81.9	66.9
11	CMH-10-537	64.8	60.0	104.0	72.9	75.4	50.6	77.1	60.6	67.2	45.8	60.2	47.9	61.8	61.1	52.7	77.8	60.3
12	CMH-10-484	48.1	37.8	92.0	66.0	61.0	28.9	80.6	61.1	58.6	46.7	55.2	60.4	63.2	45.8	55.4	75.7	60.1
13	REH 2011-2	66.7	77.8	102.0	79.9	81.6	62.8	68.8	61.7	74.5	56.7	64.9	61.8	66.7	61.1	59.8	81.3	66.1
14	CMH-10-527	60.2	60.0	112.0	66.0	74.5	53.9	77.8	60.0	55.6	47.5	58.9	63.2	63.9	52.8	53.6	78.5	62.4
15	CMH-10-531	63.0	78.9	120.0	66.0	82.0	63.9	72.2	60.6	67.2	55.8	63.9	66.7	64.6	61.8	61.6	83.3	67.6
16	Filler-12	63.0	67.8	100.0	72.9	75.9	59.4	77.8	61.1	70.8	45.0	62.8	60.4	63.2	66.7	59.8	75.0	65.0
17	BAUMH-2011-07	64.8	75.6	68.0	72.9	70.3	61.7	74.3	61.1	56.2	34.2	57.5	58.3	68.1	59.0	54.5	80.6	64.1
18	BAUMH-2011-05	63.0	84.4	80.0	62.5	72.5	47.8	74.3	62.2	60.4	24.2	53.8	30.6	62.5	48.6	48.2	78.5	53.7
19	BIO 6008	64.8	77.8	106.0	62.5	77.8	68.3	77.8	60.6	76.3	50.8	66.8	70.8	64.6	64.6	57.1	81.9	67.8
20	AH-1205	65.7	81.1	90.0	64.2	75.3	66.7	71.5	61.7	70.2	48.3	63.7	56.9	63.9	66.7	52.7	83.3	64.7
21	AH-1206	63.9	76.7	94.0	64.2	74.7	59.4	71.5	60.0	58.0	47.5	59.3	68.1	63.2	36.8	51.8	77.1	59.4
22	AH-1207	64.8	88.9	124.0	72.9	87.7	65.6	68.8	62.8	65.9	51.7	62.9	65.3	66.7	61.1	55.4	75.7	64.8
23	AH-1208	66.7	71.1	94.0	62.5	73.6	60.6	69.4	62.8	64.7	54.2	62.3	62.5	64.6	57.6	53.6	80.6	63.8
24	JH 31602	62.0	76.7	102.0	79.9	80.1	62.2	72.9	61.1	71.4	46.7	62.9	68.8	66.0	58.3	53.6	83.3	66.0
25	JH 31603	62.0	76.7	74.0	79.9	73.1	63.3	75.0	61.7	72.0	48.3	64.1	69.4	62.5	67.4	60.7	83.3	68.7
26	PRAKASH(Filler)	63.9	67.8	68.0	66.0	66.4	63.3	74.3	63.3	67.8	43.3	62.4	68.1	62.5	68.1	54.5	83.3	67.3
27	JH 3459 (Filler)	43.3	63.3	80.0	66.0	63.2	53.9	75.0	61.7	59.2	45.8	59.1	49.3	61.1	52.1	47.3	77.1	57.4
28	HKH 333	63.0	71.1	108.0	79.9	80.5	62.2	71.5	61.1	62.9	56.7	62.9	66.0	61.1	61.8	59.8	79.9	65.7
29	HKH 331	64.8	74.4	102.0	66.0	76.8	61.1	75.0	61.7	69.6	48.3	63.1	48.6	63.9	63.9	51.8	83.3	62.3
30	HKH 332	63.9	77.8	100.0	72.9	78.6	66.1	74.3	59.4	74.5	50.8	65.0	67.4	61.8	66.0	64.3	81.9	68.3
CHECKS																		
31	JH-3459	56.5	76.7	72.0	72.9	69.5	58.3	72.9	60.6	63.5	53.3	61.7	62.5	64.6	53.5	55.4	81.9	63.6
32	Prakash	63.9	72.2	82.0	81.6	74.9	64.4	74.3	61.1	72.6	56.7	65.8	72.9	67.4	63.2	55.4	80.6	67.9
	Loc. Mean	62.2	74.4	94.6	70.4	75.4	60.9	74.0	61.4	68.2	49.4	62.8	62.1	64.3	60.2	55.8	80.6	64.6
	C.D. (5%)	10.55	11.52	27.22	7.89	13.37	8.97	6.38	2.29	7.30	9.56	6.21	9.30	5.89	18.67	13.53	6.90	6.51
	C.V. (%)	10.39	9.48	14.11	5.50	12.63	9.03	5.28	2.29	6.56	9.48	7.91	9.18	5.61	19.01	11.89	5.24	8.05
	F (Prob)	0.04	0.00	0.00	0.00	0.14	0.00	0.08	0.12	0.00	0.00	0.00	0.00	0.60	0.05	0.66	0.15	0.00

Locations Rejected due to High C.V.(i.e.&gt; 20%): AMBIKAPUR 21.2%

## B130

Table No. 3 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)														OV'L		
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4					ZN 5				
								Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean	
1	GAWMH-2	56.7	66.7	62.2	52.8	60.6	58.9	54.2	58.9	41.7	60.4	65.6	47.2	56.3	63.0	59.0	58.6	63.4
2	GYH-9842	50.6	66.0	59.4	60.6	61.7	63.1	58.3	59.9	45.0	66.7	66.1	51.4	62.5	57.8	61.8	61.0	63.6
3	KMH-7021	55.0	65.3	62.8	56.7	66.1	61.3	60.4	61.1	50.6	60.4	63.9	61.8	56.3	59.3	61.1	60.5	64.7
4	FH 3605	53.3	66.0	60.6	49.4	61.1	58.9	60.4	58.5	41.7	61.8	63.9	66.7	54.2	63.7	62.5	62.1	65.2
5	FH 3609	63.3	66.0	60.0	63.3	66.1	61.9	57.6	62.6	49.4	60.4	60.6	46.5	63.5	71.9	56.9	60.0	66.6
6	FH 3626	58.9	66.0	55.0	50.6	60.6	56.5	59.0	58.1	43.9	63.2	62.8	35.4	68.8	62.2	61.8	59.0	65.2
7	EH-2223	56.1	66.0	61.1	50.6	60.6	59.5	57.6	58.8	34.4	60.4	64.4	45.1	53.1	54.8	56.3	55.7	62.4
8	EH-2212	50.0	66.0	55.6	45.6	66.1	57.7	58.3	57.0	32.8	60.4	61.1	58.3	53.1	57.8	63.2	59.0	63.5
9	REH 2011-1	43.9	65.3	63.3	41.7	58.3	61.3	56.3	55.7	43.9	60.4	62.8	59.0	65.6	51.9	62.5	60.4	63.3
10	Filler-13	51.7	63.9	53.9	60.0	65.6	58.3	59.0	58.9	32.8	62.5	62.8	57.6	70.8	55.6	56.9	61.0	63.9
11	CMH-10-537	53.3	66.0	50.6	33.3	63.3	57.7	47.9	53.2	21.7	55.6	54.4	50.7	60.4	52.6	53.5	54.5	59.4
12	CMH-10-484	32.2	65.3	52.8	37.8	60.6	57.1	48.6	50.6	-	52.8	31.7	52.8	58.3	51.9	29.9	46.2	53.8
13	REH 2011-2	54.4	64.6	62.8	55.0	65.6	58.9	52.1	59.1	38.3	61.8	65.6	51.4	63.5	57.8	59.0	59.8	65.0
14	CMH-10-527	39.4	66.0	57.8	37.2	63.3	63.7	54.9	54.6	24.4	63.2	52.2	36.8	55.2	63.7	41.7	52.1	59.3
15	CMH-10-531	54.4	66.0	59.4	57.8	63.3	65.5	58.3	60.7	36.7	64.6	65.6	61.1	63.5	57.0	60.4	62.0	66.0
16	Filler-12	46.7	64.6	49.4	53.9	64.4	54.2	54.2	55.3	40.0	62.5	61.1	50.0	63.5	59.3	55.6	58.7	62.3
17	BAUMH-2011-07	51.1	65.3	50.6	56.7	62.2	65.5	51.4	57.5	30.6	64.6	61.7	48.6	67.7	57.8	59.0	59.9	61.2
18	BAUMH-2011-05	39.4	64.6	47.2	36.1	62.2	55.4	45.1	50.0	13.9	63.2	50.0	32.6	62.5	56.3	34.7	49.9	54.7
19	BIO 6008	56.7	65.3	65.0	54.4	62.8	59.5	60.4	60.6	41.1	63.9	62.2	50.7	54.2	62.2	59.7	58.8	65.2
20	AH-1205	55.6	65.3	47.2	59.4	62.2	62.5	54.2	58.1	43.3	63.2	65.6	34.7	66.7	51.1	62.5	57.3	62.7
21	AH-1206	48.9	66.0	49.4	53.3	61.7	56.5	45.8	54.5	40.6	60.4	57.2	64.6	62.5	54.1	57.6	59.4	60.4
22	AH-1207	48.3	65.3	57.8	49.4	63.9	60.1	54.9	57.1	39.4	63.9	63.9	76.4	63.5	57.8	61.8	64.5	65.8
23	AH-1208	51.1	64.6	57.8	35.6	63.3	60.7	50.0	54.7	33.3	62.5	60.6	50.0	64.6	60.7	61.8	60.0	61.8
24	JH 31602	51.7	66.0	61.7	57.2	65.6	54.2	53.5	58.5	52.8	60.4	63.9	46.5	62.5	60.7	59.7	59.0	64.0
25	JH 31603	51.7	65.3	56.7	48.9	60.6	52.4	50.7	55.2	44.4	68.8	65.0	53.5	52.1	54.8	63.2	59.6	63.0
26	PRAKASH(Filler)	47.8	64.6	58.9	53.3	57.2	57.7	51.4	55.8	52.8	59.7	63.3	43.8	61.5	58.5	59.7	57.8	61.2
27	JH 3459 (Filler)	44.4	66.7	57.8	33.3	58.9	57.1	56.3	53.5	26.1	61.1	44.4	51.4	57.3	60.0	50.0	54.0	56.8
28	HKH 333	48.9	65.3	45.0	37.8	57.8	53.6	51.4	51.4	36.1	63.2	62.8	59.0	53.1	55.6	61.1	59.1	62.2
29	HKH 331	45.6	65.3	62.2	61.7	63.9	61.9	54.9	59.3	40.6	58.3	63.3	54.9	57.3	55.6	56.9	57.7	62.8
30	HKH 332	55.0	65.3	55.0	62.2	65.6	58.9	53.5	59.4	48.9	60.4	66.1	56.9	58.3	55.6	60.4	59.6	65.0
	CHECKS																	
31	JH-3459	44.4	66.0	46.1	50.0	62.8	57.7	42.4	52.8	22.2	59.7	46.7	52.1	58.3	56.3	60.4	55.6	59.5
32	Prakash	50.0	66.0	59.4	53.3	57.8	58.3	51.4	56.6	44.4	62.5	60.6	43.8	53.1	54.1	59.0	55.5	62.9
	Loc. Mean	50.3	65.5	56.4	50.3	62.4	59.0	53.9	56.8	38.3	61.7	60.1	51.6	60.1	57.8	57.2	58.1	62.4
	C.D. (5%)	12.55	1.94	6.71	3.79	8.34	7.60	5.44	4.80	13.50	8.30	7.94	9.29	13.58	7.88	5.90	6.90	3.18
	C.V. (%)	15.28	1.82	7.29	4.62	8.19	7.90	6.18	8.01	21.23	8.25	8.10	11.03	11.08	8.35	6.32	10.41	9.55
	F (Prob)	0.01	0.64	0.00	0.00	0.77	0.10	0.00	0.00	0.00	0.49	0.00	0.00	0.30	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V. (i.e. &gt; 20%) : AMBIKAPUR 21.2%



## B131

Table No. 3 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																
						ZN 1				ZN 2				ZN 3				
		ALMO	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	GAWMH-2	51.0	51.7	57.0	44.5	51.0	48.7	44.7	49.0	45.0	50.5	47.6	53.0	43.7	50.7	45.5	48.7	48.3
2	GYH-9842	50.3	52.0	56.5	44.5	50.8	48.7	47.3	47.0	44.0	49.0	47.2	54.7	42.0	50.0	49.0	45.7	48.3
3	KMH-7021	53.0	51.0	56.5	45.0	51.4	50.7	45.3	46.7	45.0	48.5	47.2	54.3	44.7	50.3	49.0	48.3	49.3
4	FH 3605	53.7	51.0	60.5	48.5	53.4	55.3	44.7	49.7	49.0	51.5	50.0	57.7	44.0	52.3	48.5	50.0	50.5
5	FH 3609	52.0	52.3	59.0	45.0	52.1	49.0	47.7	47.3	31.7	52.5	45.6	56.3	42.0	52.3	49.5	50.3	50.1
6	FH 3626	53.7	50.0	58.0	46.5	52.0	51.3	45.7	47.0	46.7	52.0	48.5	54.7	44.3	53.3	48.5	51.0	50.4
7	EH-2223	52.0	51.3	56.5	44.5	51.1	48.7	45.0	48.7	46.3	50.5	47.8	55.7	44.0	53.0	49.0	50.7	50.5
8	EH-2212	52.0	49.7	59.0	44.5	51.3	50.3	46.3	46.7	46.0	51.0	48.1	53.0	44.7	52.7	47.5	46.3	48.8
9	REH 2011-1	54.3	53.3	65.0	48.0	55.2	53.0	46.3	50.3	50.7	52.5	50.6	59.0	49.0	55.7	51.5	54.7	54.0
10	Filler-13	51.3	51.7	50.0	45.0	49.5	49.0	47.3	47.3	43.7	47.5	47.0	51.3	42.7	49.3	45.5	46.0	47.0
11	CMH-10-537	56.7	53.3	65.5	48.0	55.9	52.7	45.0	54.0	48.0	52.0	50.3	59.7	49.0	56.0	51.5	57.0	54.6
12	CMH-10-484	58.3	53.3	65.5	48.0	56.3	57.3	46.7	54.0	48.7	56.5	52.6	60.7	49.0	58.0	53.0	57.0	55.5
13	REH 2011-2	59.7	53.0	67.0	48.5	57.0	54.3	45.3	52.0	51.7	51.0	50.9	61.3	48.0	57.0	50.0	54.0	54.1
14	CMH-10-527	57.7	53.3	65.5	48.0	56.1	57.7	48.0	53.0	52.0	50.0	52.1	60.7	54.7	58.0	53.0	56.3	56.5
15	CMH-10-531	56.0	52.7	64.5	48.0	55.3	53.3	46.3	53.0	49.7	47.0	49.9	59.7	53.0	54.0	50.5	54.0	54.2
16	Filler-12	51.3	49.0	54.0	44.0	49.6	50.0	45.3	50.0	44.7	52.5	48.5	52.3	43.0	49.3	45.5	47.3	47.5
17	BAUMH-2011-07	56.0	52.3	62.0	48.5	54.7	52.0	47.7	54.0	46.7	54.5	51.0	57.3	45.7	54.0	50.0	53.3	52.1
18	BAUMH-2011-05	51.0	49.7	55.5	45.0	50.3	51.7	44.7	49.0	44.0	56.0	49.1	51.7	41.7	50.7	46.0	46.3	47.3
19	BIO 6008	56.3	52.7	65.0	48.0	55.5	52.3	46.3	52.7	50.7	54.5	51.3	59.3	47.7	55.7	51.0	53.3	53.4
20	AH-1205	52.7	50.7	56.0	46.5	51.5	49.7	47.7	50.7	45.0	53.0	49.2	57.7	43.7	53.0	46.0	47.7	49.6
21	AH-1206	53.7	53.0	60.0	48.5	53.8	53.3	44.7	51.7	49.0	54.0	50.5	59.0	46.3	54.0	48.0	51.3	51.7
22	AH-1207	52.3	52.0	56.5	45.0	51.5	51.0	47.7	49.3	45.3	53.5	49.4	52.7	44.0	51.0	46.0	47.7	48.3
23	AH-1208	53.3	52.3	61.5	48.0	53.8	36.0	45.7	53.0	48.7	52.0	47.1	55.7	44.3	54.3	49.0	48.3	50.3
24	JH 31602	52.7	50.7	62.0	45.5	52.7	51.0	45.0	48.3	46.7	49.0	48.0	54.3	44.0	51.0	48.5	48.0	49.2
25	JH 31603	51.3	48.7	61.5	45.0	51.6	48.7	47.7	46.0	45.0	52.5	48.0	54.7	42.0	50.3	47.0	47.0	48.2
26	PRAKASH(Filler)	50.7	50.0	57.0	45.0	50.7	49.7	44.7	46.3	45.3	53.0	47.8	54.3	41.7	49.3	46.0	46.7	47.6
27	JH 3459 (Filler)	51.7	53.0	60.5	46.0	52.8	51.7	46.3	53.0	46.0	52.5	49.9	58.0	45.0	54.0	48.0	49.7	50.9
28	HKH 333	54.3	52.3	64.5	48.0	54.8	51.7	47.7	53.7	47.0	54.5	50.9	59.7	53.0	55.7	52.0	52.3	54.5
29	HKH 331	55.3	53.0	64.5	49.0	55.5	54.0	47.7	53.3	49.7	53.0	51.5	58.7	46.3	54.3	52.0	50.7	52.4
30	HKH 332	54.7	53.0	58.0	47.0	53.2	51.7	47.7	51.0	49.0	50.5	50.0	58.3	47.0	53.3	49.0	50.0	51.5
CHECKS																		
31	JH-3459	52.0	53.0	58.0	45.5	52.1	36.3	44.7	52.7	45.7	53.5	46.6	57.0	46.0	53.0	47.0	50.3	50.7
32	Prakash	50.3	49.7	56.0	44.5	50.1	51.7	46.3	47.0	45.7	52.5	48.6	54.3	42.3	50.7	45.5	46.7	47.9
	Loc. Mean	53.5	51.7	60.0	46.4	52.9	50.7	46.2	50.2	46.6	52.0	49.1	56.5	45.6	53.0	48.7	50.2	50.8
	C.D. (5%)	1.36	2.10	3.60	1.81	2.43	11.41	0.93	1.05	7.07	3.12	3.51	1.25	2.36	1.42	2.56	1.88	1.62
	C.V. (%)	1.55	2.49	2.94	1.91	3.27	13.78	1.24	1.28	9.30	2.95	5.70	1.36	3.17	1.64	2.58	2.30	2.55
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00











Table No. 3 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																						
		ALMO				BAJA				BARA				ZN 1			ZN 2					ZN 3		
		Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM								
1	GAWMH-2	83.9	84.7	79.0	82.0	82.4	83.2	74.5	65.1	85.8	83.6	78.4	77.7	77.0	81.0	83.0	81.5	80.0	83.8	81.0				
2	GYH-9842	83.2	77.1	79.3	83.5	80.8	82.9	75.5	63.7	83.0	89.5	78.9	75.6	78.3	82.0	82.7	79.5	79.6	85.3	79.8				
3	KMH-7021	85.9	86.0	82.1	81.2	83.8	85.1	72.5	69.6	87.1	87.3	80.3	80.9	77.5	81.5	83.5	84.5	81.6	86.6	82.7				
4	FH 3605	81.7	85.7	72.1	80.6	80.0	85.5	74.5	65.5	86.2	86.8	79.7	76.3	76.4	81.5	84.6	82.3	80.2	83.6	81.1				
5	FH 3609	84.3	85.6	76.0	81.9	82.0	82.6	73.5	67.7	86.0	87.5	79.4	72.7	77.0	82.5	86.2	75.0	78.7	84.1	82.1				
6	FH 3626	83.1	81.5	78.9	81.5	81.2	84.6	71.0	67.2	86.4	85.7	79.0	76.4	77.5	81.0	83.5	77.0	79.1	81.8	80.6				
7	EH-2223	84.3	87.5	81.8	83.9	84.4	84.5	72.0	65.1	86.0	84.7	78.5	79.5	80.0	83.0	85.4	82.5	82.1	87.4	81.3				
8	EH-2212	85.0	75.6	75.7	83.8	80.0	86.1	75.0	66.1	87.7	80.0	79.0	78.0	79.0	80.5	84.7	82.0	80.8	84.7	82.5				
9	REH 2011-1	82.2	83.9	82.2	82.3	82.6	83.2	74.5	65.1	88.4	84.6	79.1	76.0	77.0	81.0	85.8	82.5	80.4	83.5	76.6				
10	Filler-13	82.3	83.6	82.9	83.9	83.2	83.4	75.5	66.1	85.6	85.6	79.2	77.4	77.0	81.5	83.6	79.0	79.7	84.7	79.5				
11	CMH-10-537	84.7	86.4	80.8	82.9	83.7	86.8	77.5	67.0	85.5	83.3	80.0	80.1	76.8	81.0	83.0	82.0	80.6	86.0	82.4				
12	CMH-10-484	82.4	84.4	74.5	76.3	79.4	83.0	76.0	69.5	83.9	86.0	79.7	74.6	78.5	81.5	85.0	83.5	80.6	82.3	82.0				
13	REH 2011-2	80.4	80.5	85.1	79.2	81.3	83.4	75.0	69.9	87.0	86.1	80.3	78.3	77.5	81.0	84.8	77.5	79.8	85.0	79.7				
14	CMH-10-527	81.0	83.6	77.9	79.8	80.6	82.6	74.0	65.5	84.3	80.0	77.3	78.7	79.4	82.0	82.7	77.8	80.1	82.0	80.1				
15	CMH-10-531	82.4	85.1	84.7	82.9	83.8	85.5	73.0	66.6	87.0	85.7	79.6	75.7	77.9	80.5	84.6	82.5	80.2	82.7	81.8				
16	Filler-12	83.3	84.5	82.7	83.2	83.4	81.3	73.5	64.0	86.5	83.4	77.7	77.3	79.2	81.0	83.4	81.0	80.4	82.8	78.7				
17	BAUMH-2011-07	84.8	84.0	80.7	80.0	82.4	87.9	77.5	66.0	83.6	84.0	79.8	72.1	76.9	81.0	83.0	84.0	79.4	84.6	82.9				
18	BAUMH-2011-05	84.6	82.7	78.2	81.5	81.7	82.9	75.5	65.0	85.8	83.3	78.5	64.1	77.0	82.5	82.7	79.0	77.1	82.9	79.8				
19	BIO 6008	83.8	85.4	82.5	77.1	82.2	83.8	72.5	67.4	87.4	84.5	79.1	79.3	78.8	82.0	86.0	83.5	81.9	85.4	83.0				
20	AH-1205	85.9	83.4	83.9	80.5	83.4	83.2	74.5	66.4	86.8	76.2	77.4	77.6	80.0	82.0	84.1	79.5	80.6	84.8	82.1				
21	AH-1206	84.7	89.8	78.8	82.6	83.9	85.6	77.0	63.5	87.8	84.2	79.6	80.0	77.3	81.5	86.4	85.0	82.0	84.8	82.1				
22	AH-1207	85.1	84.0	82.2	83.3	83.7	84.5	77.0	64.2	86.6	87.1	79.9	75.3	78.3	81.5	84.5	83.5	80.6	84.2	83.4				
23	AH-1208	86.8	87.4	77.3	80.5	83.0	82.5	78.5	64.0	86.9	84.4	79.2	75.4	78.0	81.0	83.0	79.0	79.3	85.8	84.9				
24	JH 31602	86.0	82.1	79.4	80.4	82.0	84.6	80.5	66.8	85.6	85.7	80.6	77.5	77.0	82.5	82.8	84.0	80.8	85.8	81.6				
25	JH 31603	87.1	85.1	83.1	84.7	85.0	86.6	77.0	68.6	87.5	83.7	80.7	75.3	80.0	81.0	84.1	82.0	80.5	85.9	82.3				
26	PRAKASH(Filler)	87.5	87.2	83.0	85.3	85.7	88.2	77.0	67.0	87.8	83.3	80.7	81.2	78.0	82.5	85.2	79.5	81.3	86.4	82.9				
27	JH 3459 (Filler)	84.6	82.1	82.9	79.1	82.1	84.0	80.5	64.5	85.4	84.7	79.8	78.6	77.7	82.0	84.3	84.5	81.4	84.4	83.2				
28	HKH 333	80.0	83.0	79.0	77.8	79.9	81.8	78.5	65.8	87.2	85.2	79.7	73.6	77.3	81.0	83.9	78.5	78.9	81.8	81.4				
29	HKH 331	80.6	83.6	79.8	75.9	80.0	83.2	76.5	64.1	85.3	80.0	77.8	75.4	77.7	77.5	87.2	80.0	79.5	82.4	77.1				
30	HKH 332	85.4	89.8	80.3	84.2	84.9	85.9	79.5	66.6	87.4	84.6	80.8	76.8	76.9	82.0	83.4	79.5	79.7	83.8	82.2				
CHECKS																								
31	JH-3459	84.0	85.3	82.7	79.3	82.8	85.3	79.5	68.7	86.4	87.3	81.4	79.5	79.7	83.5	83.8	80.0	81.3	83.4	79.1				
32	Prakash	88.0	85.2	76.7	81.0	82.7	86.7	77.0	65.7	87.1	84.8	80.3	81.0	78.6	83.0	86.8	84.5	82.8	86.0	81.8				
	Loc. Mean	84.0	84.2	80.2	81.3	82.4	84.4	75.8	66.2	86.3	84.5	79.4	76.8	78.0	81.5	84.3	81.1	80.3	84.3	81.3				
	C.D. (5%)	1.43	0.00	1.53	2.72	3.40	1.87	1.31	0.17	1.74	2.49	2.47	2.31	-	1.68	2.84	3.51	2.40	1.67	1.08				
	C.V. (%)	1.04	0.00	0.93	1.64	2.94	1.36	1.06	0.15	1.24	1.44	2.48	1.84	-	1.26	1.65	2.65	2.39	1.22	0.81				
	F (Prob)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.07	0.00	0.01	0.00	0.00				

## B138

Table No. 3 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %													
		ZN 4										ZN 5			
		HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean
1	GAWMH-2	80.0	82.7	82.7	80.3	79.9	81.5	82.0	67.5	84.0	76.8	82.2	82.5	81.5	79.5
2	GYH-9842	81.3	80.1	82.1	81.6	80.1	81.5	82.9	66.8	83.9	79.8	82.5	80.9	79.9	79.5
3	KMH-7021	79.1	85.3	85.2	84.4	82.9	83.7	79.7	68.6	83.8	83.9	87.4	80.6	79.5	80.5
4	FH 3605	79.3	79.8	81.1	81.7	79.6	80.9	78.7	69.3	81.5	77.6	81.0	75.9	82.3	78.0
5	FH 3609	78.4	84.7	80.7	78.8	80.8	81.3	82.9	71.2	90.2	79.5	83.2	79.2	80.5	80.9
6	FH 3626	79.5	80.6	81.1	83.3	77.3	80.6	81.0	70.9	82.4	77.0	83.0	81.4	80.0	79.4
7	EH-2223	79.2	84.9	83.4	83.0	78.8	82.5	79.2	70.8	88.7	81.3	82.8	77.9	82.1	80.4
8	EH-2212	81.0	76.5	83.7	82.7	81.3	81.8	80.1	66.8	80.5	77.2	83.5	77.8	81.6	78.2
9	REH 2011-1	77.5	79.7	83.1	81.2	80.0	80.2	79.3	65.2	75.9	77.3	84.2	78.4	80.8	77.3
10	Filler-13	72.5	83.1	83.1	82.5	78.1	80.5	80.4	70.9	87.7	79.7	80.4	78.9	82.7	80.1
11	CMH-10-537	80.8	81.1	82.6	79.4	83.5	82.2	79.5	65.8	88.4	78.5	85.8	81.4	81.3	80.1
12	CMH-10-484	78.4	79.9	82.8	79.0	77.0	80.2	-	63.2	76.7	77.5	80.7	84.0	80.3	77.1
13	REH 2011-2	82.1	82.7	80.0	81.9	74.7	80.9	78.7	69.3	81.0	78.1	83.1	77.8	82.3	78.6
14	CMH-10-527	80.6	78.1	82.1	78.3	75.6	79.5	78.4	59.6	86.9	77.5	81.2	83.7	80.9	78.3
15	CMH-10-531	79.3	81.0	81.6	79.3	78.0	80.5	79.7	69.9	81.3	80.4	84.6	80.1	81.3	79.6
16	Filler-12	80.9	85.1	84.0	80.8	81.6	82.0	79.6	68.4	86.1	79.0	83.8	81.4	81.4	80.0
17	BAUMH-2011-07	81.1	78.3	81.9	82.7	79.9	81.6	76.1	70.4	86.5	81.7	86.6	80.9	82.3	80.6
18	BAUMH-2011-05	79.6	79.9	81.8	83.3	79.8	81.0	77.3	66.5	82.1	79.2	68.4	85.1	79.6	76.9
19	BIO 6008	82.2	84.5	79.7	81.0	79.0	82.1	82.1	69.3	88.5	80.9	84.4	83.1	81.8	81.4
20	AH-1205	78.5	83.1	82.5	83.1	78.9	81.8	79.4	62.9	86.7	82.4	85.7	76.5	81.6	79.3
21	AH-1206	79.2	85.7	81.3	83.9	84.2	83.0	80.9	67.9	88.0	79.2	85.8	82.4	80.5	80.7
22	AH-1207	81.4	82.3	84.2	80.9	80.9	82.5	83.1	63.0	87.5	80.0	82.4	81.1	79.4	79.5
23	AH-1208	81.5	78.6	85.8	80.8	79.6	82.4	79.9	65.7	89.3	83.4	80.0	81.6	81.3	80.2
24	JH 31602	79.0	85.4	82.1	81.5	80.9	82.3	81.0	69.9	87.8	73.9	85.8	78.9	80.6	79.7
25	JH 31603	80.4	84.3	85.0	82.0	78.8	82.6	79.2	66.0	85.7	74.4	84.4	84.5	82.5	79.5
26	PRAKASH(Filler)	80.2	82.7	82.4	84.1	77.6	82.3	82.4	64.5	84.7	81.9	87.6	83.5	80.6	80.7
27	JH 3459 (Filler)	80.6	83.8	80.6	79.9	80.9	81.9	80.9	69.3	82.3	79.4	85.3	82.1	82.2	80.2
28	HKH 333	79.6	79.1	82.1	79.1	79.2	80.3	79.8	67.4	86.6	75.3	76.9	80.3	82.0	78.3
29	HKH 331	78.8	78.0	79.0	80.0	74.7	78.5	78.7	65.9	89.3	79.0	81.1	80.1	79.4	79.1
30	HKH 332	82.1	85.3	83.7	81.9	77.8	82.4	81.2	64.5	88.7	79.4	83.9	83.5	79.0	80.0
	CHECKS														
31	JH-3459	76.7	78.6	81.4	80.5	80.5	80.0	79.5	69.3	85.5	79.4	84.3	80.2	79.3	79.6
32	Prakash	80.8	86.7	84.0	83.3	79.8	83.2	81.8	67.6	88.7	82.7	86.0	80.9	81.1	81.2
	Loc. Mean	79.7	81.9	82.4	81.4	79.4	81.5	80.2	67.3	85.2	79.1	83.1	80.8	81.0	79.5
	C.D. (5%)	2.32	0.52	2.21	1.47	1.67	1.82	2.93	2.04	1.47	3.29	8.70	2.84	0.35	2.71
	C.V. (%)	1.78	0.39	1.64	1.11	1.29	2.12	2.20	1.86	1.06	2.55	5.14	2.15	0.26	3.23
	F (Prob)	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	0.07



## B139

Table No. 3 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																
		ZN 1				ZN 2				ZN 3								
		ALMO	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	GAWMH-2	241.7	265.0	130.5	237.5	218.7	198.7	163.0	193.3	243.3	197.0	199.1	135.0	151.2	173.3	175.6	170.5	161.1
2	GYH-9842	226.7	255.0	108.4	206.5	199.1	183.3	171.0	188.3	215.0	199.0	191.3	129.3	153.3	132.8	170.3	151.3	147.4
3	KMH-7021	210.0	213.3	110.7	181.0	178.8	162.0	171.7	158.3	203.3	200.0	179.1	124.3	148.2	132.5	157.6	142.8	141.1
4	FH 3605	203.3	240.0	104.8	173.0	180.3	158.3	175.7	176.7	201.7	183.0	179.1	129.3	135.7	134.3	184.3	142.8	145.3
5	FH 3609	220.0	255.0	118.7	199.5	198.3	160.0	170.0	188.3	208.3	193.0	183.9	126.7	166.1	140.5	152.5	143.0	145.8
6	FH 3626	211.7	241.7	122.3	197.0	193.2	164.7	168.0	178.3	221.7	194.0	185.3	129.0	135.7	146.5	169.2	143.8	144.8
7	EH-2223	241.7	268.3	141.5	229.5	220.3	194.0	174.7	230.0	220.0	196.0	202.9	144.0	137.7	160.0	178.4	160.5	156.1
8	EH-2212	230.0	256.7	138.8	222.5	212.0	183.3	166.7	186.7	233.3	189.5	191.9	122.0	157.2	166.7	181.0	175.5	160.5
9	REH 2011-1	266.7	261.7	154.0	220.0	225.6	208.0	182.3	215.0	246.7	184.0	207.2	148.0	151.7	163.2	159.0	164.5	157.3
10	Filler-13	225.0	233.3	137.4	210.5	201.6	179.7	192.0	193.3	210.0	210.0	197.0	131.0	145.7	144.5	163.8	151.8	147.3
11	CMH-10-537	265.0	260.0	160.4	232.5	229.5	206.7	178.0	196.7	246.7	190.5	203.7	143.7	153.6	171.8	198.9	189.3	171.5
12	CMH-10-484	261.7	283.3	170.3	199.0	228.6	224.3	183.7	223.3	250.0	196.0	215.5	138.7	164.2	197.2	188.5	196.0	176.9
13	REH 2011-2	238.3	260.0	154.2	218.5	217.8	185.0	178.7	200.0	240.0	214.0	203.5	140.0	170.1	160.3	208.3	178.8	171.5
14	CMH-10-527	268.3	285.0	166.4	201.5	230.3	208.0	158.7	233.3	241.7	211.5	210.6	160.0	157.1	183.3	193.1	204.3	179.6
15	CMH-10-531	258.3	261.7	174.5	220.0	228.6	203.7	170.0	243.3	258.3	215.0	218.1	140.0	159.3	169.0	199.1	168.0	167.1
16	Filler-12	216.7	245.0	129.2	202.5	198.3	167.7	178.0	188.3	226.7	229.0	197.9	130.7	153.1	163.7	156.1	144.0	149.5
17	BAUMH-2011-07	163.3	240.0	124.2	189.5	179.3	162.7	185.3	196.7	233.3	211.0	197.8	107.7	133.5	139.7	161.1	133.8	135.1
18	BAUMH-2011-05	198.3	216.7	102.3	171.5	172.2	155.3	187.0	136.7	223.3	199.8	180.4	129.7	132.9	137.0	153.6	153.5	141.3
19	BIO 6008	258.3	270.0	158.7	200.0	221.8	208.7	198.3	206.7	255.0	206.5	215.0	143.0	167.5	170.2	206.2	161.8	169.7
20	AH-1205	236.7	256.7	130.2	182.5	201.5	184.0	200.0	168.3	215.0	222.5	198.0	151.7	142.6	152.0	173.9	183.0	160.6
21	AH-1206	206.7	263.3	131.7	201.5	200.8	190.7	165.3	170.0	228.3	236.0	198.1	135.7	142.1	140.8	181.8	151.8	150.4
22	AH-1207	210.0	231.7	113.7	189.0	186.1	171.7	172.0	183.3	220.0	214.0	192.2	121.7	161.0	125.8	161.3	143.5	142.6
23	AH-1208	193.3	243.3	114.5	164.0	178.8	166.3	163.3	181.7	200.0	203.0	182.9	115.7	131.3	146.2	140.1	145.0	135.6
24	JH 31602	223.3	248.3	127.0	215.0	203.4	182.7	170.0	196.7	226.7	195.0	194.2	140.7	152.6	156.2	191.0	167.3	161.5
25	JH 31603	221.7	240.0	120.2	198.0	195.0	170.3	182.0	218.3	220.0	180.0	194.1	124.3	163.3	145.5	179.5	133.8	149.3
26	PRAKASH(Filler)	223.3	253.3	111.2	206.5	198.6	190.7	182.0	190.0	233.3	162.5	191.7	132.7	150.7	158.2	189.4	162.3	158.6
27	JH 3459 (Filler)	210.0	241.7	120.0	220.0	197.9	172.3	178.7	176.7	205.0	142.5	175.0	119.7	135.2	131.5	146.4	128.3	132.2
28	HKH 333	245.0	261.7	125.7	221.0	213.3	185.0	191.0	195.0	201.7	200.5	194.6	135.3	136.9	164.0	167.2	162.0	153.1
29	HKH 331	245.0	251.7	148.7	185.0	207.6	182.7	170.0	181.7	231.7	204.0	194.0	126.0	143.1	153.0	166.0	147.0	147.0
30	HKH 332	213.3	245.0	123.1	191.5	193.2	174.7	198.0	193.3	241.7	202.0	201.9	120.3	144.1	153.2	183.6	149.8	150.2
CHECKS																		
31	JH-3459	196.7	226.7	119.5	170.0	178.2	166.7	176.0	168.3	198.3	217.0	185.3	113.0	133.9	132.0	150.2	127.8	131.4
32	Prakash	228.3	263.3	114.8	212.5	204.7	185.7	183.7	173.3	231.7	201.0	195.1	137.7	151.5	151.3	179.7	174.5	158.9
	Loc. Mean	226.8	251.2	131.5	202.1	202.9	182.4	177.6	191.6	226.0	200.0	195.5	132.1	148.8	153.0	174.0	157.9	153.1
	C.D. (5%)	24.37	25.27	26.79	10.61	17.47	14.59	4.00	7.14	31.78	22.31	19.19	27.62	6.17	19.10	39.81	16.57	12.71
	C.V. (%)	6.58	6.16	9.99	2.57	6.13	4.90	1.38	2.28	8.62	5.47	7.84	12.81	2.54	7.65	11.22	6.43	6.63
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.09	0.00	0.00

## B140

Table No. 3 (Continued)

		PLANT HEIGHT(cm)																
S.No.	PEDIGREE	ZN 4												ZN 5		OV'L		
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	GAWMH-2	169.5	198.8	211.0	230.0	186.7	213.3	139.3	192.7	221.4	188.6	223.3	165.0	140.0	165.9	175.0	182.7	189.4
2	GYH-9842	140.5	184.8	207.7	208.3	170.0	211.7	128.4	178.8	188.7	183.8	205.0	166.7	137.5	153.1	181.7	173.8	177.1
3	KMH-7021	153.0	180.1	200.7	198.3	146.7	206.3	140.3	175.0	194.4	163.8	178.3	161.7	140.8	141.1	166.7	163.8	167.4
4	FH 3605	138.0	193.0	193.0	215.0	150.0	211.0	119.5	174.2	184.1	185.4	168.3	154.3	120.8	141.9	163.3	159.7	167.2
5	FH 3609	152.0	154.7	192.3	180.0	156.7	210.7	132.8	168.4	190.9	190.3	180.0	151.7	135.0	141.9	173.3	166.2	170.9
6	FH 3626	149.5	181.9	193.0	225.0	178.3	211.0	131.4	181.4	189.7	192.1	173.3	174.0	135.8	162.3	161.7	169.9	174.4
7	EH-2223	161.5	184.9	202.3	211.7	156.7	214.0	139.3	181.5	213.8	205.7	203.3	175.0	147.5	157.1	188.3	184.4	187.1
8	EH-2212	161.5	191.5	220.0	238.3	145.0	218.7	142.3	188.2	233.7	187.2	195.0	174.3	143.3	162.5	166.7	180.4	185.4
9	REH 2011-1	179.5	211.6	228.0	233.3	178.3	221.3	150.3	200.3	228.7	173.7	215.0	208.3	170.0	187.7	191.7	196.4	196.5
10	Filler-13	152.5	186.6	191.0	231.7	151.7	211.7	132.3	179.6	187.7	207.2	168.3	168.3	144.2	159.4	193.3	175.5	179.1
11	CMH-10-537	174.5	211.7	218.3	238.3	200.0	220.3	144.9	201.2	230.0	168.8	215.0	191.7	165.0	187.1	201.7	194.2	198.6
12	CMH-10-484	187.5	193.7	240.3	220.0	183.3	221.7	156.5	200.4	-	223.9	225.0	211.7	171.7	195.9	218.3	207.7	204.7
13	REH 2011-2	168.5	195.8	218.3	208.3	190.0	219.3	136.7	191.0	218.9	172.4	193.3	205.0	159.2	174.6	183.3	186.7	192.5
14	CMH-10-527	198.5	204.7	240.7	233.3	190.0	232.3	159.3	208.4	252.5	194.0	226.7	200.7	160.8	199.1	216.7	207.2	206.5
15	CMH-10-531	178.5	190.6	230.7	245.0	161.7	229.0	137.7	196.2	225.1	210.3	205.0	180.0	174.2	192.7	191.7	197.0	199.7
16	Filler-12	146.0	195.7	193.0	228.3	156.7	212.7	128.5	180.1	194.8	152.2	180.0	165.7	149.2	163.1	155.0	165.7	176.8
17	BAUMH-2011-07	125.0	165.6	171.3	216.7	143.3	209.7	141.5	167.6	157.5	158.9	188.3	163.3	141.7	150.3	161.7	160.3	167.0
18	BAUMH-2011-05	129.5	155.1	169.0	165.0	123.3	197.7	122.7	151.8	165.6	175.3	151.7	136.0	119.2	129.0	149.0	146.5	156.6
19	BIO 6008	186.5	190.7	234.0	255.0	166.7	236.0	152.6	203.1	228.1	194.6	216.7	196.7	155.8	182.1	206.7	197.2	200.5
20	AH-1205	162.0	189.5	200.3	218.3	166.7	208.3	135.9	183.0	179.1	162.4	206.7	165.0	141.7	168.3	175.0	171.2	181.4
21	AH-1206	158.5	186.2	197.0	220.0	168.3	213.0	151.6	184.9	206.2	135.4	181.7	181.7	138.3	164.4	181.7	169.9	179.6
22	AH-1207	146.5	176.9	178.7	181.7	138.3	206.0	124.1	164.6	173.5	203.9	170.0	166.7	138.3	151.9	171.7	168.0	169.5
23	AH-1208	146.5	148.5	185.7	211.7	175.0	210.3	126.9	172.1	172.9	205.5	186.7	160.0	122.5	152.6	161.7	166.0	166.9
24	JH 31602	162.5	184.3	199.0	213.3	150.0	213.3	136.0	179.8	196.4	194.0	191.7	176.7	152.5	158.1	168.3	176.8	181.7
25	JH 31603	148.0	181.9	185.7	185.0	146.7	211.0	130.0	169.8	167.4	172.0	178.3	168.3	139.2	159.7	178.3	166.2	173.2
26	PRAKASH(Filler)	152.0	194.7	189.7	196.7	163.3	214.3	136.5	178.2	196.1	185.4	206.7	175.0	139.2	156.8	171.7	175.8	179.4
27	JH 3459 (Filler)	128.5	164.6	183.3	195.0	136.7	219.0	131.5	165.5	164.5	185.5	181.7	158.3	137.5	141.6	166.7	162.3	165.1
28	HKH 333	170.0	187.5	217.0	233.3	170.0	217.3	145.5	191.5	229.1	220.5	206.7	193.3	163.3	167.0	210.0	198.6	190.1
29	HKH 331	147.0	181.5	212.3	235.0	171.7	215.7	149.4	187.5	204.4	202.2	196.7	173.3	146.7	165.5	176.7	180.8	182.6
30	HKH 332	150.0	194.1	204.0	221.7	153.3	214.0	133.4	181.5	212.2	168.9	183.3	181.0	141.7	162.7	188.3	176.9	180.1
CHECKS																		
31	JH-3459	129.0	191.7	180.0	195.0	138.3	210.3	143.8	169.7	161.9	195.3	176.7	156.7	127.5	156.1	168.3	163.2	165.2
32	Prakash	141.0	194.3	190.3	211.7	168.3	214.3	128.6	178.4	195.7	190.5	193.3	171.7	145.8	158.7	163.3	174.2	180.6
	Loc. Mean	156.0	185.9	202.4	215.6	161.9	214.9	137.8	182.1	198.9	185.9	192.9	174.3	145.2	162.8	179.0	177.0	181.0
	C.D. (5%)	10.10	5.36	17.46	15.90	28.55	14.26	17.83	11.04	31.08	14.42	8.69	17.58	25.87	11.76	15.65	12.87	6.43
	C.V. (%)	3.97	1.77	5.28	4.52	10.80	4.07	7.93	5.75	9.42	4.75	2.76	6.18	8.74	4.42	5.36	6.90	6.78
	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	0.01	0.00	0.00	0.00	0.00

# B141

Table No. 3 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																
		ZN 1								ZN 2				ZN 3				
		ALMO	BAJA	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	RANC	VARA	Mean	ARBH
1	GAWMH-2	130.0	171.7	54.5	132.0	122.0	111.3	66.0	118.3	148.3	97.5	108.3	60.7	81.9	91.5	95.5	89.6	78.0
2	GYH-9842	128.3	148.3	44.8	98.5	105.0	101.7	70.3	110.0	118.3	84.5	97.0	47.7	71.4	85.0	75.0	77.1	63.5
3	KMH-7021	83.3	105.0	33.1	73.5	73.7	74.3	66.7	85.0	93.3	86.0	81.1	46.7	64.0	73.1	33.3	56.8	57.5
4	FH 3605	98.3	126.7	41.0	84.5	87.6	76.3	65.0	91.7	108.3	66.0	81.5	48.3	54.3	87.4	67.0	69.6	54.5
5	FH 3609	106.7	131.7	41.5	95.5	93.8	77.0	74.0	106.7	103.3	71.5	86.5	55.3	69.9	72.2	60.8	67.6	63.0
6	FH 3626	103.3	128.3	46.4	101.0	94.8	79.3	77.0	103.3	115.0	79.5	90.8	49.3	59.0	83.4	68.8	70.4	59.5
7	EH-2223	128.3	138.3	59.6	110.0	109.1	103.7	74.0	125.0	111.7	79.5	98.8	60.3	60.3	92.9	80.0	77.7	65.0
8	EH-2212	108.3	125.0	59.2	96.0	97.1	84.3	76.3	88.3	111.7	74.0	86.9	47.0	59.1	78.7	82.3	73.4	68.0
9	REH 2011-1	141.7	150.3	72.0	114.0	119.5	113.7	66.0	111.7	128.3	66.5	97.2	67.3	74.6	73.7	84.5	77.6	84.5
10	Filler-13	111.7	130.0	58.1	95.5	98.8	88.3	67.3	108.3	105.0	87.5	91.3	60.3	64.9	85.0	70.8	73.5	65.5
11	CMH-10-537	145.0	148.3	71.7	121.5	121.6	109.7	65.0	110.0	145.0	78.5	101.6	60.3	69.8	98.0	97.5	88.4	96.0
12	CMH-10-484	150.0	178.3	84.0	102.0	128.6	118.7	76.0	125.0	138.3	79.5	107.5	56.0	80.6	92.5	99.0	90.7	96.5
13	REH 2011-2	126.7	133.3	65.0	108.5	108.4	92.0	63.7	113.3	125.0	95.5	97.9	67.0	77.9	101.6	90.0	89.8	81.0
14	CMH-10-527	141.7	173.3	76.0	101.5	123.1	111.3	68.0	121.7	136.7	78.5	103.2	77.3	70.4	96.8	99.8	89.0	97.0
15	CMH-10-531	133.3	151.7	79.6	100.5	116.3	109.7	71.7	118.3	143.3	82.0	105.0	65.3	71.2	93.3	76.5	80.3	80.0
16	Filler-12	108.3	128.3	56.2	101.5	98.6	81.3	72.3	101.7	115.0	95.0	93.1	47.7	64.9	69.8	65.8	66.8	60.5
17	BAUMH-2011-07	106.7	140.0	45.5	104.5	99.2	81.3	64.0	115.0	103.3	93.0	91.3	42.0	58.7	70.4	62.0	63.7	55.5
18	BAUMH-2011-05	90.0	118.3	37.5	86.5	83.1	78.0	63.0	85.0	125.0	88.1	87.8	38.0	59.1	70.5	64.3	64.6	52.5
19	BIO 6008	111.7	130.0	57.7	76.5	94.0	96.7	62.7	100.0	116.7	83.0	91.8	54.0	62.3	86.5	64.8	71.2	79.5
20	AH-1205	138.3	151.0	62.8	104.0	114.0	103.0	71.7	93.3	108.3	94.0	94.1	76.0	59.5	89.7	104.3	84.5	73.5
21	AH-1206	105.0	153.3	62.6	100.0	105.2	105.3	62.0	105.0	116.7	97.5	97.3	57.0	62.6	88.1	83.0	77.9	73.5
22	AH-1207	120.0	133.3	53.4	100.0	101.7	88.3	66.7	111.7	120.0	91.0	95.5	47.3	69.3	89.6	71.8	76.9	66.0
23	AH-1208	103.3	121.3	45.3	77.5	86.9	86.7	68.7	95.0	103.3	82.5	87.2	48.0	55.7	66.4	73.3	65.1	60.5
24	JH 31602	118.3	133.3	56.9	96.0	101.1	96.3	66.0	101.7	118.3	75.0	91.5	56.3	71.5	96.2	88.3	85.3	70.0
25	JH 31603	108.3	133.3	57.9	102.5	100.5	91.7	71.7	128.3	125.0	76.0	98.5	41.0	77.3	88.5	73.5	79.8	71.0
26	PRAKASH(Filler)	116.7	130.0	42.3	108.0	99.2	104.7	77.0	115.0	126.7	71.0	98.9	50.7	69.6	100.3	84.5	84.8	77.5
27	JH 3459 (Filler)	113.3	135.0	54.3	105.0	101.9	90.0	71.3	93.3	106.7	65.0	85.3	53.0	59.1	69.2	54.8	61.0	53.5
28	HKH 333	111.7	130.3	49.1	97.5	97.2	81.3	68.0	101.7	113.3	78.0	88.5	45.0	57.0	67.2	67.8	64.0	68.5
29	HKH 331	126.7	151.3	61.5	95.0	108.6	96.3	68.7	105.0	125.0	82.0	95.4	52.0	69.2	77.1	81.3	75.9	66.5
30	HKH 332	110.0	141.7	66.8	97.5	104.0	89.7	80.0	100.0	120.0	82.5	94.4	52.0	70.3	87.4	76.5	78.1	64.5
CHECKS																		
31	JH-3459	103.3	131.3	52.7	91.0	94.6	91.3	77.3	96.7	116.7	97.0	95.8	40.3	57.7	73.2	56.5	62.5	56.5
32	Prakash	121.7	158.3	61.2	113.5	113.7	98.7	65.3	98.3	130.0	79.0	94.3	58.0	72.7	98.3	91.0	87.3	59.0
Loc. Mean		117.2	139.4	56.6	99.7	103.2	94.1	69.5	105.7	119.4	82.4	94.2	54.0	66.4	84.2	76.4	75.7	69.3
C.D. (5%)		13.13	17.48	16.62	6.54	11.53	11.15	2.51	5.96	20.90	14.25	11.66	22.87	4.35	21.30	14.22	13.11	9.34
C.V. (%)		6.86	7.68	14.41	3.22	7.95	7.25	2.21	3.45	10.72	8.48	9.88	25.96	4.02	12.40	11.41	10.62	8.26
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : BAHRAICH 26.0%

# B142

Table No. 3 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)												OV'L	
		COIM	HYDE	KOLH	MAND	VAGA	ZN 4					ZN 5			
						Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
1	GAWMH-2	103.4	96.7	95.0	105.3	74.5	92.1	74.3	90.5	106.7	62.3	72.5	100.0	84.4	98.2
2	GYH-9842	95.3	70.3	76.7	108.0	68.2	80.3	61.5	80.6	98.3	79.0	62.5	96.7	79.8	87.4
3	KMH-7021	86.0	68.7	58.3	98.0	67.5	72.7	47.7	72.0	63.3	57.0	61.7	56.7	59.7	69.4
4	FH 3605	91.1	72.3	65.0	102.7	64.4	75.0	60.5	88.9	68.3	73.0	66.7	71.7	71.5	76.9
5	FH 3609	80.2	73.0	71.7	105.0	70.5	77.2	57.1	92.3	88.3	51.0	68.3	76.7	72.3	79.5
6	FH 3626	90.6	71.0	76.7	102.3	67.2	77.9	56.7	92.3	68.3	70.7	72.5	68.3	71.5	80.9
7	EH-2223	91.3	78.3	60.0	106.7	79.5	80.1	54.9	95.5	90.0	69.3	74.2	85.0	78.2	88.0
8	EH-2212	97.1	69.0	65.0	107.3	58.8	77.5	72.9	68.7	85.0	64.7	69.2	73.3	72.3	80.9
9	REH 2011-1	112.7	103.0	71.7	114.3	73.1	93.2	90.7	92.1	95.0	74.3	86.7	86.7	87.6	95.1
10	Filler-13	94.9	70.3	61.7	106.0	68.7	77.8	63.8	99.0	78.3	72.3	70.8	75.0	76.5	83.3
11	CMH-10-537	112.6	102.3	90.0	112.7	84.5	99.7	81.5	83.7	108.3	82.7	85.0	91.7	88.8	99.6
12	CMH-10-484	99.3	86.3	86.7	113.0	81.8	93.9	-	117.0	111.7	102.0	90.0	118.3	107.8	105.5
13	REH 2011-2	101.9	86.0	76.7	110.3	70.3	87.7	77.8	80.5	90.0	85.7	86.7	78.3	83.2	92.4
14	CMH-10-527	107.3	103.3	91.7	122.7	82.7	100.8	104.7	94.1	88.3	77.3	76.7	95.0	89.3	100.7
15	CMH-10-531	100.9	99.0	88.3	120.0	76.7	94.2	79.3	115.6	90.0	86.3	84.2	91.7	91.2	97.6
16	Filler-12	99.6	70.0	68.3	104.3	61.7	77.4	60.7	78.9	85.0	63.7	74.2	81.7	74.0	82.0
17	BAUMH-2011-07	85.2	65.7	60.0	102.7	68.3	72.9	40.5	90.6	86.7	62.7	65.8	68.3	69.1	79.0
18	BAUMH-2011-05	83.7	56.0	46.7	102.3	53.6	65.8	40.7	80.3	61.7	62.7	50.0	73.3	61.4	72.0
19	BIO 6008	97.0	88.3	61.7	115.7	74.5	86.1	60.7	90.4	83.3	74.3	73.3	76.7	76.5	84.3
20	AH-1205	104.0	82.3	80.0	100.3	71.9	85.3	61.5	87.1	86.7	73.3	72.5	91.7	78.8	90.2
21	AH-1206	98.0	79.0	73.3	141.3	81.3	91.1	69.2	88.8	95.0	82.3	71.7	91.7	83.1	91.1
22	AH-1207	90.3	70.7	60.0	104.3	71.4	77.1	54.1	102.1	88.3	73.0	71.7	86.7	79.3	85.6
23	AH-1208	63.8	75.7	71.7	101.3	66.3	73.2	55.0	105.6	85.0	70.7	66.7	91.7	79.1	78.9
24	JH 31602	91.5	84.3	66.7	112.7	68.9	82.4	67.3	102.3	93.3	75.7	77.5	75.0	81.8	87.6
25	JH 31603	102.0	78.7	68.3	108.0	72.6	83.4	65.1	85.6	83.3	69.7	72.5	108.3	80.7	88.3
26	PRAKASH(Filler)	100.3	80.7	78.3	107.7	75.4	86.6	63.8	85.4	93.3	86.3	77.5	80.0	81.1	89.7
27	JH 3459 (Filler)	90.1	76.0	63.3	110.7	66.0	76.6	68.7	83.9	80.0	68.0	70.0	78.3	74.8	80.2
28	HKH 333	82.8	78.3	70.0	106.7	67.4	79.0	62.5	99.4	85.0	79.0	74.2	108.3	84.7	83.5
29	HKH 331	99.8	86.7	70.0	109.0	72.8	84.1	68.0	95.6	93.3	74.3	76.7	85.0	82.1	89.0
30	HKH 332	102.3	79.7	61.7	107.3	69.7	80.9	82.2	75.5	78.3	77.0	66.7	96.7	79.4	86.8
CHECKS															
31	JH-3459	90.3	75.0	60.0	103.0	72.5	76.2	54.6	98.7	83.3	70.3	64.2	83.3	75.8	81.5
32	Prakash	101.9	79.7	78.3	107.3	74.9	83.5	70.5	96.0	93.3	70.3	76.7	85.0	82.0	90.9
	Loc. Mean	95.2	79.9	71.0	108.7	71.2	82.6	65.4	90.9	87.0	73.2	72.8	85.2	79.3	86.8
	C.D. (5%)	3.39	9.79	18.34	23.07	16.19	7.40	20.00	11.48	8.67	12.82	17.25	14.06	9.55	4.73
	C.V. (%)	2.18	7.51	15.82	13.00	13.94	7.86	18.42	7.74	6.10	10.74	11.62	10.11	10.56	9.63
	F (Prob)	0.00	0.00	0.00	0.50	0.13	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : BAHRAICH 26.0%

TABLE No. 4

Performance of extra early maturing experimental hybrids at Almora, Barapani, Kangra, Delhi, Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnaga Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Bhiloda, Jhabua, Udaipur in IET trial no. 64 (IET-EX) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																		
		ZN 1								ZN 2								ZN 3																		
		ALMO	R	BARA	R	KANG	R	MEAN	R	DELH	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	
1	FH 3583	9881	2	4038	5	1664	9	5772	5	4482	4	5532	12	5536	7	5939	2	7354	6	5769	2	5541	5	5985	1	7140	4	6063	7	5035	4	5953	3	4851	17	
2	FH 3594	11055	1	3298	8	1151	18	6103	2	2888	17	4940	18	4883	14	6224	1	6873	7	5162	15	8195	1	5832	2	6817	11	7264	1	4744	6	6570	1	5427	9	
3	FQH 93	6783	18	2267	12	1413	14	4098	18	5683	1	5741	11	4703	15	5921	3	6753	9	5760	3	4638	11	5105	3	6974	8	5835	8	3406	14	5191	9	5746	6	
4	DH-238	9873	3	1336	13	2782	3	6328	1	3043	15	5220	16	6431	2	4656	13	6685	11	5207	14	4216	15	4720	6	6435	17	6452	4	2989	15	4962	14	4908	15	
5	DH-241	7790	11	1228	14	1545	11	4667	13	3589	11	5877	8	7185	1	4102	17	7678	4	5686	4	4317	14	4521	7	7351	1	5464	12	1850	17	4701	15	5182	11	
6	DH-242	8205	10	3480	7	1729	7	4967	12	3197	14	6453	3	4982	13	4381	16	7646	5	5332	10	4091	16	4870	4	7211	2	5397	13	3568	12	5027	13	5004	13	
7	DH-244	7782	12	2708	9	1179	17	4480	14	3938	9	5037	17	5741	5	4849	10	6471	13	5207	13	4404	13	4468	8	6713	13	6086	6	1320	18	4598	16	5370	10	
8	DH-248	8375	9	2317	11	2017	6	5196	10	3538	12	5861	9	4439	17	5657	5	7912	1	5482	7	6156	3	4264	11	6849	10	6271	5	4859	5	5680	4	6188	2	
9	DH-262	8922	7	1034	16	2743	4	5833	4	3993	7	6296	5	5454	9	5737	4	7718	3	5840	1	4710	10	4339	10	6642	14	5592	10	4008	10	5058	12	4565	18	
10	DH-263	8915	8	2518	10	1595	10	5255	9	4179	5	6305	4	5586	6	5387	7	6405	14	5572	5	5033	8	3954	14	6604	15	6816	2	5240	2	5529	5	5166	12	
11	REH 2011-7	7594	14	4318	2	1188	16	4391	15	2512	18	5329	14	5053	12	5209	9	-	4526	18	-	3585	16	6986	7	5540	11	5196	3	5327	6	6067	3			
12	REH 2011-8	7012	16	4109	4	1206	15	4109	17	2920	16	5903	7	5155	11	4633	14	-	4653	17	-	4120	12	6403	18	6751	3	7460	1	6184	2	6000	4			
13	AH 1201	8933	6	1097	15	2241	5	5587	6	3908	10	5523	13	5918	4	4747	11	6474	12	5314	12	4848	9	4363	9	7029	6	5228	14	4377	8	5169	10	4974	14	
14	AH 1202	7662	13	791	17	4353	1	6008	3	4020	6	5909	6	5493	8	4504	15	6707	10	5327	11	5463	7	4869	5	7104	5	4722	16	3476	13	5127	11	5620	8	
15	AH 1203	7107	15	616	18	3113	2	5110	11	3366	13	6611	2	5305	10	3624	18	4624	16	4706	16	5530	6	3581	17	7183	3	4124	18	2430	16	4570	18	4861	16	
16	AH 1204	6834	17	4202	3	1670	8	4252	16	3969	8	6639	1	5931	3	5323	8	5534	15	5479	8	4577	12	3080	18	6600	16	4309	17	4391	7	4591	17	5880	5	
CHECKS																																				
17	Vivek QPM 9	9092	5	3733	6	1477	12	5285	8	4719	3	5263	15	3888	18	5478	6	7805	2	5431	9	6026	4	3931	15	6749	12	5679	9	3803	11	5238	8	6537	1	
18	Vivek Hybrid 9	9118	4	4962	1	1463	13	5291	7	5674	2	5796	10	4660	16	4721	12	6855	8	5541	6	6201	2	4094	13	6883	9	4924	15	4120	9	5244	7	5719	7	
Location Mean		8385		2670		1918		5152		3868		5791		5352		5061		6843		5383		5247		4427		6871		5695		4015		5251		5448		
Mean Stand		23		27		20		21		32		35		37		36		33		35		33		31		28		59		39		38		30		
C.D. (5%)		1377		1473		398		887		900		692		345		1281		967		837		1316		381		628		1165		1116		921		1800		
C.V. (%)		9.88		26.03		9.79		-		14.01		7.2		3.89		15.24		8.46		-		15.02		5.18		5.5		12.31		16.74		-		19.89		
F (Prob)		0		0.003		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0.129		
Plot Size		3.6		2.5		2.88		-		6		4.8		4.8		5.46		6		-		4.8		4.8		4.8		9.6		4.8		-		6		
AGRONOMY DATA																																				
Sowing Date		4-07		27-06		16-07		-		6-07		-		4-07		1-07		9-07		-		16-07		20-06		2-07		4-07		7-07		-		24-07		
Harvest Date		25-10		12-10		26-10		-		25-10		-		28-09		-		12-10		-		17-10		28-09		8-10		6-10		26-09		-		21-11		
Irrigation Nos		-		-		-		-		2		-		4		3		1		-		-		-		2		-		-		-		6		
Fertilizer Applied N		80		80		120		-		120		120		150		90		120		-		120		120		120		120		100		-		150		
Fertilizer Applied P		60		60		60		-		60		60		60		30		60		-		60		60		60		60		40		-		75		
Fertilizer Applied K		40		40		40		-		40		50		60		-		40		-		60		60		40		40		40		-		37.5		

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): BARA 26.0 %

## B144

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																
		ZN 4															ZN 5					OV'L												
		COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R	
1	FH 3583	8133	1	7767	2	6052	16	3548	10	8275	3	5678	3	6329	4	3295	1	3264	9	7550	3	4656	8	2445	15	3410	16	6141	1	4395	2	5585	1	
2	FH 3594	5002	18	4957	16	8232	4	5001	3	7846	6	4086	14	5793	11	2810	4	3235	10	7093	6	3951	14	2918	9	4711	1	4417	16	4162	7	5406	4	
3	FQH 93	7429	5	7867	1	6710	12	6178	2	8162	5	6054	1	6878	2	1983	16	3932	2	7421	4	4730	7	3227	1	3966	9	5284	9	4363	4	5448	3	
4	DH-238	6662	16	4472	17	6337	15	3332	12	6506	15	4026	17	5178	17	2144	13	3289	8	5678	14	3915	16	3183	4	3304	17	4854	11	3767	15	4850	14	
5	DH-241	6198	17	5884	7	6815	11	4636	5	6901	9	3989	18	5658	12	1995	15	2592	16	5545	15	4803	5	2826	10	3682	12	4837	13	3754	16	4891	13	
6	DH-242	7130	8	6002	5	7710	5	4441	6	7756	7	4834	7	6125	5	2200	12	3478	4	6408	10	4268	11	2402	16	4346	5	4037	18	3877	11	5067	9	
7	DH-244	6981	11	4313	18	5446	17	3848	8	7412	8	4199	13	5367	16	2322	10	3353	6	4638	18	4238	12	2479	14	3620	13	5356	7	3715	17	4675	17	
8	DH-248	8080	2	7048	3	7428	6	3337	11	6667	13	4037	16	6112	6	2510	6	3222	11	6576	7	5203	4	3219	2	4229	7	5512	6	4353	5	5364	6	
9	DH-262	7355	6	5485	13	7230	8	3562	9	6891	10	4044	15	5590	13	3156	2	3296	7	5960	11	4501	9	3067	6	3538	14	5536	4	4150	8	5167	8	
10	DH-263	6718	15	5530	11	7007	9	4005	7	8230	4	5197	5	5979	7	1961	18	2890	12	7373	5	4790	6	3061	7	4685	3	5526	5	4327	6	5314	7	
11	REH 2011-7	6903	13	6227	4	8350	3	2695	15	6497	16	4408	12	5878	9	1974	17	2603	15	8333	2	2170	18	3198	3	4466	4	4142	17	3841	13	4843	15	
12	REH 2011-8	7761	4	5961	6	8594	2	2425	18	5920	18	4775	8	5920	8	2508	7	2176	17	8335	1	2997	17	2991	8	4241	6	4851	12	4014	9	5046	11	
13	AH 1201	6959	12	5629	9	6398	14	2834	13	6763	11	4661	9	5460	15	2696	5	3389	5	5700	13	3915	15	2592	11	3798	11	4965	10	3865	12	4956	12	
14	AH 1202	7122	9	5536	10	8606	1	2689	16	6511	14	4494	11	5797	10	3047	3	2658	14	4981	16	5319	2	2400	17	3883	10	4455	15	3820	14	5062	10	
15	AH 1203	7315	7	5130	15	4710	18	2649	17	6324	17	5138	6	5161	18	2408	9	2079	18	4961	17	5298	3	2296	18	3233	18	4725	14	3571	18	4528	18	
16	AH 1204	6991	10	5248	14	6831	10	2744	14	6716	12	4563	10	5568	14	2254	11	2710	13	5822	12	4120	13	3161	5	4163	8	5322	8	3936	10	4822	16	
CHECKS																																		
17	Vivek QPM 9	7979	3	5810	8	7291	7	6241	1	8666	2	5641	4	6881	1	2108	14	4706	1	6519	8	4356	10	2559	12	4691	2	5626	3	4366	3	5486	2	
18	Vivek Hybrid 9	6814	14	5507	12	6401	13	4668	4	9656	1	5942	2	6387	3	2462	8	3828	3	6436	9	6337	1	2513	13	3534	15	5991	2	4443	1	5397	5	
Location Mean		7085		5798		7008		3824		7317		4765		5892		2435		3150		6407		4420		2808		3972		5088		4040		5115		
Mean Stand		31		33		31		39		35		26		32		26		29		36		26		28		27		29		29		32		
C.D. (5%)		655		1323		1354		843		599		921		1071		623		987		710		872		679		482		882		748		896		
C.V. (%)		5.56		13.73		11.63		13.27		4.92		11.64		-		15.39		18.86		6.67		11.88		14.56		7.3		10.44		-		-		
F (Prob)		0		0		0		0		0		0		0		0		0		0		0		0.035		0		0		-		-		
Plot Size		4.8		6		6		6		5.6		4.8		-		4.8		4.8		6		4.8		4.8		4.5		4.8		-		-		
AGRONOMY DATA																																		
Sowing Date		5-07		5-07		5-07		12-07		30-07		3-07		-		11-07		13-07		27-06		13-07		19-07		6-07		4-07		-		-		
Harvest Date		20-10		30-10		25-10		28-11		13-12		18-10		-		-		13-10		31-10		12-10		-		13-10		11-10		-		-		
Irrigation Nos		10		1		-		-		8		9		-		-		-		-		-		-		-		2		-		-		
Fertilizer Applied N		150		200		150		100		150		200		-		100		150		120		120		120		100		90		-		-		
Fertilizer Applied P		75		60		50		50		75		75		-		50		80		60		50		60		60		60		-		-		
Fertilizer Applied K		75		50		40		30		40		75		-		30		40		40		40		-		-		40		-		-		

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%): BARA 26.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9																
		ZN 1				ZN 2					ZN 3							
		ALMO	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH
1	FH 3583	8.7	8.2	12.7	9.2	-	5.1	42.4	8.4	-	6.2	-	52.2	5.8	6.8	32.4	13.7	-
2	FH 3594	21.6	-	-	15.5	-	-	25.6	13.6	-	-	36	48.3	1	27.9	24.7	25.4	-
3	FQH 93	-	-	-	-	20.4	9.1	21	8.1	-	6.1	-	29.8	3.3	2.7	-	-	-
4	DH-238	8.6	-	88.4	19.7	-	-	65.4	-	-	-	-	20.1	-	13.6	-	-	-
5	DH-241	-	-	4.6	-	-	11.7	84.8	-	-	4.7	-	15	8.9	-	-	-	-
6	DH-242	-	-	17.1	-	-	22.6	28.1	-	-	-	-	23.9	6.9	-	-	-	-
7	DH-244	-	-	-	-	-	-	47.7	-	-	-	-	13.7	-	7.2	-	-	-
8	DH-248	-	-	36.6	-	-	11.4	14.2	3.3	1.4	0.9	2.2	8.5	1.5	10.4	27.8	8.4	-
9	DH-262	-	-	85.8	10.4	-	19.6	40.3	4.7	-	7.5	-	10.4	-	-	5.4	-	-
10	DH-263	-	-	8	-	-	19.8	43.7	-	-	2.6	-	0.6	-	20	37.8	5.6	-
11	REH 2011-7	-	15.7	-	-	-	1.3	30	-	-	-	-	-	3.5	-	36.6	1.7	-
12	REH 2011-8	-	10.1	-	-	-	12.2	32.6	-	-	-	-	4.8	-	18.9	96.2	18.1	-
13	AH 1201	-	-	51.8	5.7	-	4.9	52.2	-	-	-	-	11	4.2	-	15.1	-	-
14	AH 1202	-	-	194.7	13.7	-	12.3	41.3	-	-	-	-	23.9	5.3	-	-	-	-
15	AH 1203	-	-	110.8	-	-	25.6	36.4	-	-	-	-	-	6.4	-	-	-	-
16	AH 1204	-	12.6	13.1	-	-	26.1	52.5	-	-	0.9	-	-	-	-	15.5	-	-
	CHECKS																	
17	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Vivek Hybrid 9	0.3	32.9	-	0.1	20.2	10.1	19.8	-	-	2	2.9	4.1	2	-	8.3	0.1	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 26.0 %

TABLE No. 4 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9															
		ZN 4							ZN 5							OV'L	
		COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN
1	FH 3583	1.9	33.7	-	-	-	0.7	-	56.4	-	15.8	6.9	-	-	9.2	0.6	1.8
2	FH 3594	-	-	12.9	-	-	-	-	33.3	-	8.8	-	14	0.4	-	-	-
3	FQH 93	-	35.4	-	-	-	7.3	-	-	-	13.8	8.6	26.1	-	-	-	-
4	DH-238	-	-	-	-	-	-	-	1.7	-	-	-	24.4	-	-	-	-
5	DH-241	-	1.3	-	-	-	-	-	-	-	-	10.3	10.4	-	-	-	-
6	DH-242	-	3.3	5.7	-	-	-	-	4.4	-	-	-	-	-	-	-	-
7	DH-244	-	-	-	-	-	-	-	10.2	-	-	-	-	-	-	-	-
8	DH-248	1.3	21.3	1.9	-	-	-	-	19.1	-	0.9	19.4	25.8	-	-	-	-
9	DH-262	-	-	-	-	-	-	-	49.7	-	-	3.3	19.8	-	-	-	-
10	DH-263	-	-	-	-	-	-	-	-	-	13.1	10	19.6	-	-	-	-
11	REH 2011-7	-	7.2	14.5	-	-	-	-	-	-	27.8	-	24.9	-	-	-	-
12	REH 2011-8	-	2.6	17.9	-	-	-	-	19	-	27.9	-	16.9	-	-	-	-
13	AH 1201	-	-	-	-	-	-	-	27.9	-	-	-	1.3	-	-	-	-
14	AH 1202	-	-	18	-	-	-	-	44.6	-	-	22.1	-	-	-	-	-
15	AH 1203	-	-	-	-	-	-	-	14.2	-	-	21.6	-	-	-	-	-
16	AH 1204	-	-	-	-	-	-	-	6.9	-	-	-	23.5	-	-	-	-
	CHECKS																
17	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Vivek Hybrid 9	-	-	-	-	11.4	5.3	-	16.8	-	-	45.5	-	-	6.5	1.8	-



TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9																
		ZN 1				ZN 2				ZN 3								
		ALMO	BARA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH
1	FH 3583	8.4	-	13.7	9.1	-	-	18.8	25.8	7.3	4.1	-	46.2	3.7	23.1	22.2	13.5	-
2	FH 3594	21.2	-	-	15.4	-	-	4.8	31.8	0.3	-	32.1	42.4	-	47.5	15.1	25.3	-
3	FQH 93	-	-	-	-	0.2	-	0.9	25.4	-	3.9	-	24.7	1.3	18.5	-	-	0.5
4	DH-238	8.3	-	90.1	19.6	-	-	38	-	-	-	-	15.3	-	31	-	-	-
5	DH-241	-	-	5.6	-	-	1.4	54.2	-	12	2.6	-	10.4	6.8	11	-	-	-
6	DH-242	-	-	18.2	-	-	11.3	6.9	-	11.5	-	-	18.9	4.8	9.6	-	-	-
7	DH-244	-	-	-	-	-	-	23.2	2.7	-	-	-	9.1	-	23.6	-	-	-
8	DH-248	-	-	37.9	-	-	1.1	-	19.8	15.4	-	-	4.1	-	27.4	18	8.3	8.2
9	DH-262	-	-	87.5	10.2	-	8.6	17	21.5	12.6	5.4	-	6	-	13.6	-	-	-
10	DH-263	-	-	9	-	-	8.8	19.9	14.1	-	0.6	-	-	-	38.4	27.2	5.4	-
11	REH 2011-7	-	-	-	-	-	-	8.4	10.3	-	-	-	-	1.5	12.5	26.1	1.6	6.1
12	REH 2011-8	-	-	-	-	-	1.8	10.6	-	-	-	-	0.6	-	37.1	81.1	17.9	4.9
13	AH 1201	-	-	53.2	5.6	-	-	27	0.5	-	-	-	6.6	2.1	6.2	6.2	-	-
14	AH 1202	-	-	197.5	13.5	-	2	17.9	-	-	-	-	18.9	3.2	-	-	-	-
15	AH 1203	-	-	112.7	-	-	14.1	13.8	-	-	-	-	-	4.4	-	-	-	-
16	AH 1204	-	-	14.1	-	-	14.5	27.3	12.7	-	-	-	-	-	-	6.6	-	2.8
	CHECKS																	
17	Vivek QPM 9	-	-	0.9	-	-	-	-	16	13.9	-	-	-	-	15.3	-	-	14.3
18	Vivek Hybrid 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 26.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9															
		ZN 4										ZN 5		OV'L			
		COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN
1	FH 3583	19.4	41	-	-	-	-	-	33.8	-	17.3	-	-	-	2.5	-	3.5
2	FH 3594	-	-	28.6	7.1	-	-	-	14.1	-	10.2	-	16.1	33.3	-	-	0.2
3	FQH 93	9	42.9	4.8	32.3	-	1.9	7.7	-	2.7	15.3	-	28.4	12.2	-	-	0.9
4	DH-238	-	-	-	-	-	-	-	-	-	-	-	26.6	-	-	-	-
5	DH-241	-	6.9	6.5	-	-	-	-	-	-	-	-	12.4	4.2	-	-	-
6	DH-242	4.6	9	20.4	-	-	-	-	-	-	-	-	-	23	-	-	-
7	DH-244	2.4	-	-	-	-	-	-	-	-	-	-	-	2.4	-	-	-
8	DH-248	18.6	28	16	-	-	-	-	1.9	-	2.2	-	28.1	19.7	-	-	-
9	DH-262	7.9	-	12.9	-	-	-	-	28.2	-	-	-	22	0.1	-	-	-
10	DH-263	-	0.4	9.5	-	-	-	-	-	-	14.6	-	21.8	32.6	-	-	-
11	REH 2011-7	1.3	13.1	30.4	-	-	-	-	-	-	29.5	-	27.2	26.4	-	-	-
12	REH 2011-8	13.9	8.2	34.3	-	-	-	-	1.9	-	29.5	-	19	20	-	-	-
13	AH 1201	2.1	2.2	-	-	-	-	-	9.5	-	-	-	3.1	7.5	-	-	-
14	AH 1202	4.5	0.5	34.4	-	-	-	-	23.8	-	-	-	-	9.9	-	-	-
15	AH 1203	7.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	AH 1204	2.6	-	6.7	-	-	-	-	-	-	-	-	25.8	17.8	-	-	-
	CHECKS																
17	Vivek QPM 9	17.1	5.5	13.9	33.7	-	-	7.7	-	22.9	1.3	-	1.8	32.7	-	-	1.7
18	Vivek Hybrid 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : BARA 26.0 %

Table No. 4 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																
		ZN 1				ZN 2						ZN 3						
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH
1	FH 3583	65.7	110.0	64.2	80.0	60.0	70.1	77.1	73.3	51.7	66.4	69.4	67.4	53.5	65.6	83.3	67.8	58.3
2	FH 3594	65.7	106.0	67.7	79.8	55.6	70.1	74.3	62.9	55.6	63.7	72.9	66.7	56.3	64.9	83.3	68.8	56.1
3	FQH 93	61.1	122.0	69.4	84.2	61.7	72.2	78.5	75.7	55.0	68.6	68.8	67.4	63.9	63.2	79.9	68.6	55.6
4	DH-238	66.7	116.0	64.2	82.3	57.8	72.9	78.5	72.0	46.7	65.6	67.4	60.4	69.4	63.2	83.3	68.7	56.7
5	DH-241	62.0	124.0	64.2	83.4	55.6	72.9	79.2	66.5	54.4	65.7	68.8	63.2	54.9	66.3	83.3	67.3	46.7
6	DH-242	60.2	108.0	64.2	77.5	52.2	72.9	77.8	69.6	56.7	65.8	65.3	65.3	59.7	63.5	81.3	67.0	49.4
7	DH-244	63.9	112.0	64.2	80.0	57.2	76.4	79.2	73.3	55.0	68.2	63.9	64.6	68.1	63.9	82.6	68.6	57.2
8	DH-248	62.0	110.0	74.7	82.2	56.1	69.4	79.2	75.1	56.7	67.3	70.1	65.3	59.0	61.8	83.3	67.9	53.3
9	DH-262	63.9	122.0	78.1	88.0	53.9	69.4	80.6	72.6	55.6	66.4	65.3	60.4	59.0	62.8	83.3	66.2	54.4
10	DH-263	65.7	106.0	71.2	81.0	51.1	71.5	78.5	75.1	51.7	65.6	63.9	63.2	59.7	65.3	80.6	66.5	50.0
11	REH 2011-7	57.4	70.0	64.2	63.9	27.8	75.7	76.4	29.9	-	52.4	-	63.5	32.6	46.9	82.6	56.4	29.4
12	REH 2011-8	58.3	84.0	64.2	68.9	32.2	76.4	74.3	33.0	-	54.0	-	62.5	35.4	33.0	78.5	52.3	38.9
13	AH 1201	64.8	116.0	64.2	81.7	57.2	72.9	76.4	74.5	56.7	67.5	70.1	60.4	69.4	64.9	82.6	69.5	53.3
14	AH 1202	63.0	110.0	78.1	83.7	58.3	72.9	77.1	71.4	55.0	67.0	64.6	66.7	61.1	62.5	81.3	67.2	50.6
15	AH 1203	66.7	120.0	64.2	83.6	59.4	72.9	77.8	69.0	56.7	67.2	70.8	65.3	62.5	66.3	77.8	68.5	43.3
16	AH 1204	60.2	100.0	71.2	77.1	49.4	76.4	74.3	61.1	55.0	63.2	65.3	62.5	75.7	62.8	82.6	69.8	42.2
CHECKS																		
17	Vivek QPM 9	62.0	100.0	71.2	77.7	52.2	71.5	76.4	76.3	53.9	66.1	68.8	64.6	55.6	60.1	79.9	65.8	52.8
18	Vivek Hybrid 9	63.9	102.0	72.9	79.6	54.4	75.7	77.1	69.6	53.9	66.1	70.8	66.7	63.9	60.8	81.9	68.8	57.8
	Loc. Mean	63.0	107.7	68.5	79.7	52.9	72.9	77.4	66.7	54.4	64.8	67.9	64.2	58.9	61.0	81.8	66.4	50.3
	C.D. (5%)	6.98	16.43	6.04	13.00	7.99	3.28	2.72	8.57	4.77	8.45	8.07	3.97	12.27	6.94	4.26	6.72	7.93
	C.V. (%)	6.68	7.24	4.18	9.83	9.10	2.71	2.12	7.75	4.96	10.33	6.72	3.73	12.56	6.86	3.14	8.01	9.49
	F (Prob)	0.25	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.01	0.01	0.35	0.00	0.00	0.00	0.18	0.00	0.00

## B150

Table No. 4 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)														Mean	OV'L
		COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4					ZN 5				
							Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean	
1	FH 3583	66.7	60.6	62.2	65.0	60.1	54.2	61.0	70.1	56.9	63.9	50.0	62.5	63.0	62.5	61.3	65.5
2	FH 3594	64.6	53.9	61.7	66.7	63.1	55.6	60.2	70.1	59.7	61.1	54.9	53.5	60.0	61.1	60.1	64.6
3	FQH 93	66.0	56.1	53.9	66.1	64.3	56.9	59.8	52.1	58.3	60.0	70.1	61.1	53.3	61.1	59.4	65.7
4	DH-238	66.0	53.9	53.9	66.1	58.3	55.6	58.6	50.7	59.7	64.4	54.9	59.0	61.5	61.8	58.9	64.5
5	DH-241	66.0	51.7	52.8	65.0	63.1	59.0	57.7	38.2	62.5	63.3	54.9	58.3	57.8	63.2	56.9	63.6
6	DH-242	65.3	56.7	47.2	66.7	63.7	55.6	57.8	47.2	61.8	60.6	64.6	52.8	57.0	59.0	57.6	63.1
7	DH-244	64.6	53.9	56.7	66.7	58.3	56.3	59.1	63.2	63.2	63.9	61.1	49.3	57.8	62.5	60.1	65.1
8	DH-248	66.0	59.4	56.7	65.6	61.9	62.5	60.8	58.3	62.5	66.1	67.4	64.6	59.3	60.4	62.7	66.2
9	DH-262	66.0	50.0	50.0	66.7	58.3	56.3	57.4	70.1	54.9	61.1	51.4	63.9	57.8	61.8	60.1	64.8
10	DH-263	65.3	53.3	56.1	66.7	64.9	57.6	59.1	53.5	65.3	62.2	66.7	54.2	61.5	60.4	60.5	64.5
11	REH 2011-7	66.0	53.9	16.1	65.0	61.9	22.2	44.9	26.4	54.2	27.2	12.5	60.4	57.8	40.3	39.8	48.8
12	REH 2011-8	66.0	54.4	17.8	60.0	58.3	34.0	47.1	25.0	55.6	38.9	16.7	61.8	58.5	55.6	44.6	50.9
13	AH 1201	66.0	52.2	58.9	66.7	63.7	51.4	58.9	59.7	59.7	65.0	52.8	56.3	62.2	62.5	59.7	65.2
14	AH 1202	65.3	54.4	45.0	65.6	61.9	56.9	57.1	63.9	57.6	64.4	60.4	55.6	59.3	61.8	60.4	64.6
15	AH 1203	64.6	53.9	65.0	66.7	60.7	54.9	58.4	57.6	59.7	64.4	61.8	57.6	61.5	61.8	60.6	65.3
16	AH 1204	63.9	52.8	46.7	63.9	60.1	56.3	55.1	56.9	54.9	63.9	59.0	56.9	58.5	61.8	58.9	62.8
CHECKS																	
17	Vivek QPM 9	65.3	56.7	55.6	66.7	63.7	64.6	60.7	61.8	61.1	65.6	68.8	59.0	62.2	61.8	62.9	65.1
18	Vivek Hybrid 9	64.6	57.8	62.8	66.1	68.5	59.0	62.4	56.9	62.5	63.3	59.7	65.3	57.8	62.5	61.2	65.9
	Loc. Mean	65.4	54.8	51.0	65.6	61.9	53.8	57.6	54.6	59.5	60.0	54.9	58.4	59.3	60.1	58.1	63.1
	C.D. (5%)	1.87	5.68	3.94	2.77	5.17	6.83	6.39	14.89	8.21	4.41	7.98	14.91	8.33	3.97	7.98	3.38
	C.V. (%)	1.72	6.25	4.65	2.54	5.03	7.64	10.47	16.45	8.32	4.44	8.76	15.38	8.48	3.98	12.96	10.00
	F (Prob)	0.26	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.25	0.00	0.00	0.77	0.79	0.00	0.00	0.00

## B151

Table No. 4 (Continued)

DAYS TO 50% POLLEN SHED																			
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3							
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM
1	FH 3583	52.3	65.0	51.0	56.1	52.7	43.0	54.3	47.0	51.3	49.7	50.3	47.3	52.3	46.0	45.3	48.3	57.0	45.0
2	FH 3594	51.0	61.0	49.5	53.8	51.7	44.0	54.3	46.0	51.0	49.4	50.7	46.0	53.0	45.3	46.0	48.2	56.0	46.3
3	FQH 93	49.3	60.5	48.0	52.6	50.3	41.3	49.3	45.0	47.3	46.7	47.3	46.0	49.3	41.7	42.7	45.4	55.7	44.0
4	DH-238	50.3	57.0	47.0	51.4	49.3	43.7	50.3	43.0	48.7	47.0	47.0	45.0	46.3	41.3	43.3	44.6	56.0	42.0
5	DH-241	50.7	57.0	45.0	50.9	49.7	44.0	50.0	43.3	47.3	46.9	47.3	45.3	46.7	42.7	41.0	44.6	56.0	42.7
6	DH-242	51.7	57.5	47.0	52.1	49.3	43.3	51.0	45.0	48.3	47.4	34.7	46.3	50.0	43.3	41.3	43.1	55.7	44.0
7	DH-244	50.0	58.5	45.0	51.2	48.7	44.7	48.3	42.7	47.3	46.3	46.3	45.0	47.3	40.3	42.0	44.2	56.0	43.0
8	DH-248	51.0	59.0	45.0	51.7	49.0	42.7	53.0	44.3	49.0	47.6	48.3	45.3	49.3	42.0	41.7	45.3	56.0	43.0
9	DH-262	50.3	60.5	46.0	52.3	50.0	44.7	49.0	42.7	48.0	46.9	47.7	45.7	48.3	43.3	46.3	46.3	56.0	44.7
10	DH-263	51.7	58.5	45.0	51.7	51.0	45.7	51.7	44.3	49.7	48.5	49.3	46.0	35.3	43.7	42.7	43.4	56.0	45.0
11	REH 2011-7	55.0	54.5	51.5	53.7	57.3	43.3	54.0	47.7	-	50.6	-	47.7	54.7	48.0	48.0	49.6	58.7	45.0
12	REH 2011-8	56.7	58.0	52.0	55.6	59.7	44.7	53.7	48.0	-	51.5	-	51.3	56.0	45.7	45.3	49.6	59.3	48.0
13	AH 1201	52.3	61.0	47.0	53.4	52.7	43.0	55.0	46.3	50.3	49.5	50.3	47.3	51.7	45.3	47.7	48.5	55.3	45.7
14	AH 1202	53.7	62.0	48.5	54.7	52.3	44.0	52.0	46.3	50.0	48.9	50.0	48.7	51.7	45.7	45.3	48.3	58.3	45.0
15	AH 1203	51.7	59.5	49.0	53.4	52.3	41.3	53.0	45.3	49.7	48.3	49.7	46.7	51.7	44.3	43.7	47.2	57.7	44.7
16	AH 1204	53.0	59.5	48.0	53.5	52.7	43.7	53.0	44.7	49.3	48.7	51.0	46.7	50.3	44.3	43.3	47.1	56.0	45.0
CHECKS																			
17	Vivek QPM 9	48.7	59.5	46.0	51.4	47.7	44.7	49.3	43.7	47.7	46.6	47.7	45.7	47.0	40.0	40.7	44.2	56.0	42.3
18	Vivek Hybrid 9	49.3	60.0	46.5	51.9	49.3	42.7	52.0	43.0	48.0	47.0	47.0	45.0	47.0	42.0	40.3	44.3	56.0	43.0
Loc. Mean		51.6	59.4	47.6	52.9	51.4	43.6	51.9	44.9	48.9	48.2	47.8	46.5	49.3	43.6	43.7	46.2	56.5	44.4
C.D. (5%)		1.29	9.43	2.89	3.23	2.98	1.15	0.86	1.39	2.45	1.83	11.35	0.98	11.57	1.87	2.29	3.04	1.86	0.57
C.V. (%)		1.50	7.53	2.88	3.68	3.50	1.59	1.00	1.86	2.83	3.01	13.43	1.27	14.14	2.59	3.16	5.21	1.99	0.77
F (Prob)		0.00	0.90	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.43	0.00	0.29	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

DAYS TO 50% POLLEN SHED																
S.No.	PEDIGREE	ZN 4												ZN 5	OV'L	
		HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	FH 3583	48.3	44.7	58.3	49.0	46.7	49.9	49.0	38.3	51.7	44.7	52.7	48.0	51.7	48.0	49.7
2	FH 3594	48.7	44.0	55.3	48.3	45.7	49.2	47.3	37.3	50.0	46.7	50.3	47.3	53.0	47.4	49.1
3	FQH 93	48.0	42.7	53.7	46.7	43.7	47.8	48.3	38.0	50.0	44.3	50.0	46.7	49.0	46.6	47.4
4	DH-238	47.0	43.3	53.0	45.0	43.7	47.1	43.3	38.0	49.7	41.7	48.0	45.7	48.7	45.0	46.6
5	DH-241	46.3	43.7	53.0	44.3	43.7	47.1	47.7	38.3	48.3	41.0	43.7	46.0	49.3	44.9	46.4
6	DH-242	49.0	43.3	55.0	47.0	43.0	48.1	48.0	38.0	50.0	43.3	49.0	46.7	50.3	46.5	47.1
7	DH-244	47.0	43.3	53.7	44.7	44.0	47.4	44.7	37.3	49.7	39.0	51.3	45.3	49.3	45.2	46.5
8	DH-248	48.7	43.7	53.0	45.7	44.0	47.7	44.7	37.7	50.0	40.3	45.7	47.0	49.7	45.0	47.0
9	DH-262	48.0	43.0	53.7	46.3	44.7	48.0	47.0	37.7	50.0	43.3	46.7	47.7	49.7	46.0	47.4
10	DH-263	48.7	43.3	54.7	46.0	43.7	48.2	46.7	37.0	50.3	42.0	46.3	47.7	50.7	45.8	47.1
11	REH 2011-7	48.3	45.0	57.3	49.7	50.0	50.6	50.3	39.3	55.0	47.7	46.7	49.7	53.3	48.9	50.3
12	REH 2011-8	49.7	44.3	57.7	49.7	49.7	51.2	49.7	40.0	55.3	46.0	49.7	50.3	53.0	49.1	50.9
13	AH 1201	47.3	45.0	56.0	49.0	45.0	49.0	47.3	39.3	52.0	43.7	47.0	46.3	52.3	46.9	48.9
14	AH 1202	48.7	45.3	55.7	49.0	44.7	49.5	47.7	39.3	52.7	45.3	46.3	48.7	52.3	47.5	49.2
15	AH 1203	48.3	44.3	55.7	45.7	44.3	48.7	47.0	40.0	50.3	44.7	49.3	48.7	50.7	47.2	48.5
16	AH 1204	47.7	44.0	54.7	45.7	44.7	48.2	46.3	38.7	50.3	44.3	52.0	48.0	50.7	47.2	48.4
CHECKS																
17	Vivek QPM 9	48.0	42.3	52.3	45.7	43.3	47.1	43.7	37.3	49.0	41.0	45.3	44.7	48.3	44.2	46.2
18	Vivek Hybrid 9	47.7	42.0	54.0	45.0	43.3	47.3	45.3	36.7	49.3	41.3	45.3	45.0	50.0	44.7	46.5
	Loc. Mean	48.1	43.7	54.8	46.8	44.9	48.5	46.9	38.2	50.8	43.4	48.1	47.2	50.7	46.5	48.0
	C.D. (5%)	1.66	1.07	1.69	1.83	1.73	0.99	1.30	1.11	0.70	1.23	6.34	1.77	1.01	1.43	0.84
	C.V. (%)	2.09	1.48	1.85	2.36	2.32	1.92	1.67	1.75	0.83	1.71	7.95	2.26	1.20	2.90	3.27
	F (Prob)	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00

Table No 4 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																
		ZN 1					ZN 2					ZN 3						
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH
1	FH 3583	52.7	65.0	54.0	57.2	55.7	47.3	56.3	48.0	53.7	52.2	52.3	50.0	53.7	49.3	50.0	51.1	58.0
2	FH 3594	51.7	62.0	52.5	55.4	54.3	46.7	57.0	47.0	53.7	51.7	52.7	48.3	53.3	48.3	50.7	50.7	57.7
3	FQH 93	49.7	61.5	52.0	54.4	52.0	47.3	51.3	45.7	50.3	49.3	49.3	47.7	49.7	45.3	45.0	47.4	56.7
4	DH-238	50.7	58.0	49.0	52.6	51.0	47.3	52.7	44.0	51.0	49.2	48.7	47.0	48.0	45.7	46.7	47.2	55.7
5	DH-241	51.3	58.0	47.5	52.3	52.0	48.3	52.3	44.3	50.3	49.5	49.3	47.3	48.3	46.3	45.3	47.3	56.0
6	DH-242	52.7	73.5	49.5	58.6	51.0	46.3	53.0	46.0	51.3	49.5	51.3	48.7	50.3	47.3	45.7	48.7	57.0
7	DH-244	50.3	59.5	48.0	52.6	50.7	48.7	50.7	43.7	50.3	48.8	47.7	47.0	48.0	44.0	45.0	46.3	56.0
8	DH-248	51.7	60.0	48.0	53.2	51.0	45.3	55.0	45.3	51.7	49.7	50.0	47.3	50.0	46.0	45.0	47.7	56.0
9	DH-262	51.7	61.5	48.0	53.7	51.7	48.7	51.3	43.7	51.0	49.3	49.7	61.0	49.7	47.0	52.0	51.9	56.0
10	DH-263	53.0	59.5	47.0	53.2	53.0	48.7	53.7	45.3	53.0	50.7	51.3	47.7	52.3	47.3	46.0	48.9	56.0
11	REH 2011-7	57.3	55.5	54.0	55.6	60.3	46.3	56.3	48.7	-	52.9	-	52.0	56.7	51.3	52.7	53.2	58.7
12	REH 2011-8	57.7	59.0	55.0	57.2	59.7	48.3	56.0	49.0	-	53.3	-	53.0	57.0	49.3	51.3	52.7	59.7
13	AH 1201	53.7	62.0	49.0	54.9	55.3	47.3	57.3	47.3	53.3	52.1	51.7	49.3	52.3	49.3	53.0	51.1	56.7
14	AH 1202	55.3	63.0	52.5	56.9	55.7	46.7	54.7	47.3	52.7	51.4	51.7	53.0	53.3	49.7	51.7	51.9	58.7
15	AH 1203	52.3	60.5	52.5	55.1	54.7	47.3	55.7	46.3	52.7	51.3	51.7	51.3	52.0	48.0	47.0	50.0	57.0
16	AH 1204	53.7	60.5	50.5	54.9	55.3	47.3	55.0	45.7	52.0	51.1	53.0	48.7	50.7	48.0	48.3	49.7	57.0
CHECKS																		
17	Vivek QPM 9	50.3	60.5	49.0	53.3	49.7	48.7	51.7	44.0	50.7	48.9	49.7	47.3	47.3	43.7	44.7	46.5	56.0
18	Vivek Hybrid 9	50.0	61.0	49.5	53.5	50.7	45.3	54.0	43.7	51.0	48.9	48.7	47.7	49.0	45.7	44.3	47.1	56.0
	Loc. Mean	52.5	61.1	50.4	54.7	53.5	47.3	54.1	45.8	51.8	50.6	50.5	49.7	51.2	47.3	48.0	49.4	56.9
	C.D. (5%)	1.56	13.83	3.21	4.61	2.20	1.09	1.12	1.48	2.19	1.86	1.22	9.35	2.24	1.98	2.90	2.22	2.05
	C.V. (%)	1.79	10.72	3.01	5.07	2.47	1.39	1.25	1.94	2.39	2.92	1.37	11.34	2.64	2.52	3.64	3.55	2.17
	F (Prob)	0.00	0.81	0.00	0.23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.01

Table No 4 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING													Mean	OV'L Mean	
		COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4				ZN 5					
							Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI			
1	FH 3583	47.0	51.7	45.7	60.3	51.7	49.3	52.0	51.7	41.3	52.3	46.3	55.3	50.0	53.7	50.1	51.9
2	FH 3594	49.3	52.0	45.3	57.3	51.3	48.7	51.7	50.3	40.3	51.7	48.7	54.0	49.7	54.3	49.9	51.4
3	FQH 93	46.0	50.3	43.7	55.0	48.7	46.0	49.5	51.0	41.0	50.0	46.0	53.0	49.3	50.7	48.7	49.4
4	DH-238	44.0	50.0	44.7	54.7	48.0	46.7	49.1	46.0	41.0	50.3	44.3	51.3	49.3	50.3	47.5	48.7
5	DH-241	44.7	49.0	45.0	54.7	48.3	47.3	49.3	50.3	41.3	50.0	42.3	48.7	49.3	51.3	47.6	48.9
6	DH-242	47.0	52.0	44.3	56.7	50.0	47.0	50.6	50.3	41.0	50.3	45.0	52.3	49.7	52.0	48.7	50.4
7	DH-244	45.0	49.3	45.0	55.3	47.0	47.0	49.2	47.3	40.3	49.7	41.0	55.0	49.3	51.3	47.7	48.6
8	DH-248	45.0	51.7	45.0	54.7	48.7	48.0	49.9	48.0	40.7	50.7	43.0	49.7	49.7	51.7	47.6	49.2
9	DH-262	46.7	51.3	44.3	55.7	48.7	48.0	50.1	50.0	40.7	51.3	45.3	50.0	50.3	51.0	48.4	50.2
10	DH-263	48.0	52.0	44.7	56.3	48.3	47.3	50.4	49.7	40.0	51.7	44.3	48.7	50.3	52.0	48.1	49.9
11	REH 2011-7	47.0	51.3	46.3	59.3	53.0	53.0	52.7	52.7	42.3	56.0	50.3	50.0	52.0	55.3	51.2	52.7
12	REH 2011-8	50.3	52.7	45.7	59.7	52.3	52.7	53.3	52.7	43.0	55.7	49.0	52.7	52.3	55.0	51.5	53.1
13	AH 1201	47.7	50.3	46.0	58.0	51.3	47.7	51.1	50.3	42.3	53.3	44.7	49.7	48.7	54.7	49.1	51.2
14	AH 1202	47.0	52.0	46.0	58.0	52.0	49.0	51.8	50.7	42.3	54.3	47.3	49.7	50.7	54.3	49.9	51.8
15	AH 1203	46.7	51.0	45.7	57.3	49.3	48.3	50.8	50.0	43.0	52.3	47.0	52.3	51.0	52.7	49.8	51.0
16	AH 1204	47.0	50.7	46.0	55.7	49.0	48.7	50.6	49.7	41.7	52.3	46.7	55.3	50.0	52.7	49.8	50.8
CHECKS																	
17	Vivek QPM 9	44.7	51.0	43.3	53.3	47.0	47.0	48.9	46.0	40.3	50.0	42.7	49.3	48.0	50.3	46.7	48.4
18	Vivek Hybrid 9	45.0	50.7	43.3	54.7	47.0	46.3	49.0	48.3	39.7	51.3	43.3	49.0	48.3	51.7	47.4	48.7
	Loc. Mean	46.6	51.1	45.0	56.5	49.5	48.2	50.5	49.7	41.2	51.9	45.4	51.4	49.9	52.5	48.9	50.4
	C.D. (5%)	0.73	2.02	0.97	1.85	2.12	2.36	0.99	1.38	1.11	0.93	1.39	5.65	1.57	1.24	1.45	0.84
	C.V. (%)	0.94	2.39	1.30	1.97	2.58	2.94	1.85	1.68	1.63	1.08	1.85	6.62	1.89	1.42	2.79	3.13
	F (Prob)	0.00	0.04	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	0.00





Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK												ZN 5 Mean	OVL Mean
		HYDE	KARI	KOLH	MAND	VAGA	ZN 4 Mean					UDAI			
1	FH 3583	85.7	73.7	101.0	88.0	97.7	87.7	87.0	68.3	84.7	76.0	73.0	85.7	79.1	85.3
2	FH 3594	85.3	73.3	97.3	85.3	97.3	86.8	87.0	69.0	86.3	79.0	72.3	85.3	79.8	84.5
3	FQH 93	86.0	71.7	99.0	85.3	95.0	86.2	83.0	66.7	88.0	74.0	72.7	82.7	77.8	83.0
4	DH-238	87.7	72.7	98.7	87.3	96.0	86.6	81.7	68.7	84.3	74.3	72.3	83.7	77.5	83.0
5	DH-241	84.0	73.0	98.0	83.3	95.7	85.3	86.7	67.3	83.7	74.0	72.3	83.7	77.9	82.6
6	DH-242	85.3	72.3	99.7	82.7	96.0	86.0	88.7	67.7	85.7	74.7	73.0	81.7	78.6	83.5
7	DH-244	85.7	73.0	100.0	86.7	96.7	86.7	82.7	68.3	83.0	73.0	72.7	82.7	77.1	82.8
8	DH-248	87.7	73.0	100.7	88.7	97.3	87.6	84.0	68.7	87.3	74.7	73.7	83.7	78.7	84.1
9	DH-262	86.3	72.3	98.0	88.0	97.7	87.1	87.3	67.3	87.7	75.0	77.7	82.7	79.6	84.4
10	DH-263	87.0	72.7	99.0	88.0	96.7	87.6	84.7	66.7	88.3	72.7	80.7	84.0	79.5	84.5
11	REH 2011-7	85.3	74.3	100.7	88.7	100.7	88.3	85.7	67.7	91.0	79.7	61.7	85.7	78.6	85.6
12	REH 2011-8	85.7	73.7	102.0	89.3	99.7	88.7	89.0	68.0	91.0	79.3	84.3	83.7	82.6	87.2
13	AH 1201	83.3	74.0	96.3	85.3	98.0	86.4	87.3	68.7	88.0	74.7	81.0	85.7	80.9	84.8
14	AH 1202	84.3	74.0	97.0	87.0	98.3	86.8	90.0	68.0	89.3	75.0	84.3	86.3	82.2	85.5
15	AH 1203	85.3	73.7	98.3	86.0	97.0	86.4	85.3	67.0	87.3	75.0	82.0	84.3	80.2	84.3
16	AH 1204	85.7	74.0	96.0	88.7	97.0	86.9	85.3	69.0	84.0	75.7	72.7	83.3	78.3	83.3
	CHECKS														
17	Vivek QPM 9	83.3	71.3	99.3	88.0	96.3	86.1	84.0	67.3	88.7	74.3	76.7	80.3	78.6	83.2
18	Vivek Hybrid 9	84.3	71.3	97.3	88.3	95.3	85.8	88.7	68.0	88.7	74.3	72.3	84.0	79.3	83.8
	Loc. Mean	85.4	73.0	98.8	86.9	97.1	86.8	86.0	67.9	87.1	75.3	75.3	83.8	79.2	84.2
	C.D. (5%)	1.47	0.97	3.52	2.54	2.46	1.53	1.39	1.31	1.52	1.50	17.98	1.58	3.10	1.24
	C.V. (%)	1.03	0.80	2.15	1.76	1.52	1.54	0.98	1.17	1.05	1.20	14.39	1.14	3.40	2.59
	F (Prob)	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.68	0.00	0.04	0.00

Table No. 4(Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST																	
		ZN 1				ZN 2						ZN 3							
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM
1	FH 3583	26.4	24.5	27.2	26.0	25.9	12.5	28.6	22.1	27.4	23.3	23.6	16.9	21.3	21.9	37.2	24.2	19.7	17.5
2	FH 3594	25.8	28.5	26.9	27.0	24.4	15.5	30.3	21.7	26.7	23.7	22.1	17.0	21.9	20.8	35.6	23.5	21.2	22.1
3	FQH 93	22.8	24.0	27.3	24.7	19.4	16.5	28.4	21.0	24.3	21.9	20.1	16.3	21.6	21.4	28.9	21.7	18.1	17.0
4	DH-238	25.8	24.5	25.7	25.3	18.1	17.5	29.8	20.6	26.4	22.5	20.1	16.5	21.2	21.8	32.6	22.4	18.9	20.0
5	DH-241	25.5	25.5	26.4	25.8	21.7	13.5	27.1	22.6	26.2	22.2	18.9	18.5	19.7	20.7	31.9	21.9	18.7	17.5
6	DH-242	25.0	25.0	27.2	25.7	18.7	12.5	28.5	20.7	23.2	20.7	20.0	17.5	21.0	21.6	35.4	23.1	17.6	20.9
7	DH-244	25.7	23.0	28.3	25.6	24.0	13.5	27.3	20.2	22.5	21.5	18.9	16.4	24.8	21.8	34.2	23.2	19.9	18.1
8	DH-248	25.0	25.0	27.0	25.7	18.6	14.5	27.5	22.5	24.6	21.5	21.1	17.6	22.3	21.9	29.4	22.4	18.8	19.1
9	DH-262	26.2	24.5	25.9	25.5	23.3	16.5	26.6	21.9	23.1	22.3	19.9	17.7	23.9	21.4	34.1	23.4	20.7	19.8
10	DH-263	25.7	24.0	26.6	25.4	20.0	17.5	27.4	22.6	27.2	22.9	21.2	17.6	21.0	21.8	33.7	23.1	21.6	22.1
11	REH 2011-7	29.3	23.5	26.5	26.4	25.9	18.5	28.7	24.5	-	24.4	-	16.1	24.2	21.5	35.7	24.4	23.9	21.2
12	REH 2011-8	30.0	22.5	26.3	26.3	27.5	14.5	26.6	24.8	-	23.3	-	18.4	24.2	21.6	37.7	25.5	21.8	22.0
13	AH 1201	26.0	23.0	25.9	24.9	24.4	14.5	27.1	21.2	25.6	22.5	21.1	16.8	21.8	22.3	34.0	23.2	18.5	20.3
14	AH 1202	28.6	22.5	27.2	26.1	21.0	15.5	28.3	21.4	27.1	22.6	20.2	17.3	20.8	21.4	34.1	22.8	18.6	21.1
15	AH 1203	25.1	24.0	26.4	25.2	26.8	13.0	26.9	22.1	24.4	22.6	20.5	16.5	21.5	21.5	28.8	21.7	17.8	19.0
16	AH 1204	26.4	25.5	27.0	26.3	26.1	14.5	27.8	19.0	24.2	22.3	21.7	16.3	23.3	21.8	35.0	23.6	15.9	20.2
CHECKS																			
17	Vivek QPM 9	24.2	23.0	26.0	24.4	21.4	15.5	27.4	18.0	25.9	21.6	20.2	17.5	22.0	21.6	29.8	22.2	18.2	18.9
18	Vivek Hybrid 9	24.7	25.5	26.3	25.5	17.4	17.0	28.8	17.4	23.9	20.9	22.5	18.2	22.7	21.5	33.7	23.7	21.3	18.2
	Loc. Mean	26.0	24.3	26.7	25.7	22.5	15.2	27.9	21.3	25.1	22.4	20.7	17.2	22.2	21.5	33.4	23.1	19.5	19.7
	C.D. (5%)	1.77	3.36	1.54	2.44	4.06	0.85	0.25	0.95	2.81	2.59	0.65	-	2.55	0.95	2.55	1.84	1.83	0.87
	C.V. (%)	4.11	6.54	2.73	5.73	10.90	3.39	0.53	2.68	6.31	9.16	1.77	-	6.92	2.65	4.60	6.31	5.65	2.66
	F (Prob)	0.00	0.16	0.18	0.88	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.01	0.25	0.00	0.01	0.00	0.00

Table No. 4(Continued)

MOISTURE % AT HARVEST															
S.No.	PEDIGREE	ZN 4										ZN 5		OV'L	
		HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	FH 3583	15.2	7.2	10.6	14.6	17.4	14.6	16.1	12.5	20.0	15.0	22.7	19.6	17.7	20.1
2	FH 3594	15.8	6.8	10.6	16.2	17.9	15.8	15.9	16.1	21.6	15.0	22.5	19.3	18.4	20.7
3	FQH 93	17.6	10.2	9.7	14.6	17.6	15.0	15.7	14.6	18.3	15.0	22.6	19.7	17.7	19.3
4	DH-238	20.1	8.2	9.7	12.4	19.9	15.6	15.8	13.0	22.4	15.0	22.6	19.3	18.0	19.9
5	DH-241	17.2	7.9	10.2	12.3	16.2	14.3	16.0	12.9	17.8	15.0	22.9	21.2	17.6	19.4
6	DH-242	15.8	10.0	10.6	13.9	18.1	15.3	15.4	13.4	20.7	15.0	22.9	19.1	17.7	19.6
7	DH-244	20.0	7.8	10.7	12.3	19.6	15.5	16.1	13.1	18.7	15.0	22.2	21.6	17.8	19.8
8	DH-248	15.3	7.3	10.1	14.6	20.1	15.0	15.5	13.7	17.4	15.0	22.6	16.5	16.8	19.3
9	DH-262	14.9	6.3	10.2	14.2	16.4	14.6	16.1	13.3	19.0	15.0	21.9	18.0	17.2	19.6
10	DH-263	13.8	9.0	10.8	14.9	17.6	15.7	15.6	14.2	21.9	15.0	22.1	20.1	18.1	20.2
11	REH 2011-7	17.1	10.1	10.9	14.4	20.7	16.9	15.8	16.1	17.4	15.0	23.0	21.9	18.2	20.9
12	REH 2011-8	15.6	8.0	10.5	14.3	22.3	16.3	16.2	14.1	19.5	15.0	21.6	20.0	17.7	20.6
13	AH 1201	16.7	10.3	9.8	14.4	17.7	15.4	15.3	14.9	18.2	15.0	22.1	20.1	17.6	19.9
14	AH 1202	16.9	7.1	9.8	14.4	18.7	15.2	15.8	14.1	18.6	15.0	22.1	19.9	17.6	19.9
15	AH 1203	16.0	10.2	9.5	14.4	19.9	15.2	15.6	12.8	20.9	15.0	21.5	18.3	17.3	19.5
16	AH 1204	15.8	10.3	10.5	14.0	20.3	15.3	15.8	14.7	17.5	15.0	21.9	18.3	17.2	19.9
CHECKS															
17	Vivek QPM 9	16.8	6.1	10.7	14.5	16.1	14.4	15.2	12.7	17.3	15.0	22.6	19.2	17.0	19.0
18	Vivek Hybrid 9	17.1	7.0	10.2	13.8	18.8	15.2	16.1	12.9	19.2	15.0	22.4	17.9	17.2	19.6
Loc. Mean		16.5	8.3	10.2	14.1	18.6	15.3	15.8	13.8	19.2	15.0	22.4	19.4	17.6	19.8
C.D. (5%)		1.34	0.28	0.65	0.47	1.09	1.53	0.28	1.17	2.87	-	1.23	0.72	1.14	0.81
C.V. (%)		4.91	2.03	3.81	2.01	3.55	9.42	1.05	5.10	8.99	-	3.31	2.22	5.66	7.47
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.01	-	0.44	0.00	0.37	0.00

Table No. 4(Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																	
		ZN 1					ZN 2					ZN 3							
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM
1	FH 3583	83.0	69.2	79.1	77.1	80.4	74.5	65.5	82.5	79.9	76.6	73.8	79.3	82.5	81.9	77.0	78.9	81.1	79.0
2	FH 3594	86.9	75.5	79.0	80.5	81.3	71.5	62.4	85.1	85.4	77.1	80.3	78.9	79.5	84.6	76.0	79.9	84.1	82.0
3	FQH 93	85.2	71.2	85.8	80.7	85.2	74.0	63.9	86.1	85.4	78.9	80.2	80.9	81.0	84.6	78.0	80.9	84.6	82.5
4	DH-238	86.3	69.2	79.6	78.3	84.0	76.0	63.8	86.3	87.7	79.5	79.8	80.9	76.0	85.7	77.5	80.0	84.0	83.0
5	DH-241	87.5	70.6	83.8	80.6	84.1	77.0	64.4	84.6	86.0	79.2	78.9	80.6	77.0	82.1	74.0	78.5	85.7	82.3
6	DH-242	86.2	68.9	83.1	79.4	83.4	76.5	65.0	85.1	87.1	79.4	78.2	78.8	82.0	84.1	77.0	80.0	84.5	81.3
7	DH-244	87.2	73.9	79.0	80.0	86.0	72.5	63.4	84.6	87.3	78.8	78.0	78.3	82.0	86.1	71.0	79.1	84.8	82.9
8	DH-248	85.6	70.3	81.3	79.1	81.9	74.5	68.6	86.3	88.2	79.9	77.4	78.5	82.0	84.3	75.0	79.4	84.3	80.5
9	DH-262	85.1	70.8	79.7	78.5	85.1	76.5	65.8	86.8	88.1	80.4	76.4	79.0	81.0	86.7	75.5	79.7	87.1	79.7
10	DH-263	84.5	68.1	75.3	76.0	84.2	77.0	64.6	85.3	84.5	79.1	79.6	79.1	78.5	85.9	79.0	80.4	84.9	81.4
11	REH 2011-7	85.4	74.3	81.7	80.4	82.5	73.5	66.1	83.1	-	76.3	-	77.1	83.0	84.2	81.0	81.3	86.2	83.9
12	REH 2011-8	85.3	77.6	82.0	81.6	83.6	71.5	64.7	84.1	-	76.0	-	79.1	82.0	83.0	76.5	80.1	83.4	80.7
13	AH 1201	87.0	69.0	78.3	78.1	83.4	77.5	66.5	82.9	86.5	79.4	78.8	78.6	82.0	83.1	77.0	79.9	83.6	81.1
14	AH 1202	87.3	70.0	83.8	80.4	85.0	78.5	68.5	84.6	89.5	81.2	76.0	79.2	82.5	84.0	78.0	79.9	88.3	82.6
15	AH 1203	86.5	72.1	82.6	80.4	85.5	79.5	64.7	81.9	89.2	80.2	77.2	78.7	82.5	84.1	72.0	78.9	83.8	81.9
16	AH 1204	87.4	68.8	82.3	79.5	83.0	77.0	65.0	85.7	81.4	78.4	78.3	78.9	82.5	84.7	72.5	79.4	83.4	84.5
CHECKS																			
17	Vivek QPM 9	86.7	72.1	84.0	80.9	83.6	77.5	61.7	84.9	84.5	78.4	76.0	79.3	81.0	85.5	76.0	79.6	84.5	82.6
18	Vivek Hybrid 9	87.4	69.0	80.7	79.0	84.4	80.5	60.4	84.1	85.4	78.9	75.8	78.6	83.5	83.1	78.0	79.8	84.5	83.0
	Loc. Mean	86.1	71.1	81.2	79.5	83.7	75.9	64.7	84.7	86.0	78.8	77.8	79.1	81.1	84.3	76.2	79.8	84.6	81.9
	C.D. (5%)	1.31	1.89	3.49	3.47	2.17	1.11	0.29	2.32	3.52	2.88	2.44	0.00	2.69	1.82	7.35	2.44	1.52	1.10
	C.V. (%)	0.92	1.26	2.04	2.63	1.56	0.88	0.27	1.65	2.31	2.90	1.77	0.00	2.00	1.30	5.82	2.42	1.08	0.81
	F (Prob)	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.50	0.83	0.00	0.00

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Table No. 4(Continued)

S.No.	PEDIGREE	GRAIN SHELLING %												ZN 5	OV'L	
		HYDE	KARI	KOLH	MAND	VAGA	ZN 4					UDAI	Mean			Mean
1	FH 3583	80.1	80.9	84.4	82.1	78.0	80.8	78.7	71.0	92.2	74.3	79.9	78.3	83.9	79.7	79.0
2	FH 3594	80.3	84.9	83.7	79.5	80.8	82.2	78.7	68.0	84.1	79.9	82.5	81.4	80.8	79.3	79.9
3	FQH 93	81.3	85.7	85.3	81.5	80.9	83.1	75.5	67.6	83.7	81.1	85.1	78.5	82.3	79.1	80.6
4	DH-238	80.5	86.7	84.5	80.9	79.9	82.8	79.0	68.9	85.2	80.1	85.6	80.2	83.5	80.3	80.5
5	DH-241	82.6	84.7	86.9	81.2	79.8	83.3	74.0	70.7	88.3	81.3	84.1	83.9	83.7	80.8	80.7
6	DH-242	81.6	86.0	84.0	79.2	80.4	82.4	76.8	69.0	85.3	82.1	83.8	83.8	82.4	80.5	80.6
7	DH-244	79.1	81.5	88.1	81.5	80.3	82.6	80.4	72.0	81.1	83.1	85.5	80.4	83.2	80.8	80.5
8	DH-248	80.5	84.1	85.0	81.9	75.2	81.6	78.7	66.8	84.0	81.6	84.0	80.1	83.6	79.8	80.1
9	DH-262	79.6	83.9	86.0	80.1	82.7	82.7	81.5	67.8	83.8	82.7	85.8	80.9	84.1	80.9	80.8
10	DH-263	77.6	84.6	85.2	82.9	79.3	82.3	75.5	71.2	90.2	80.4	83.9	82.8	84.1	81.2	80.3
11	REH 2011-7	80.9	81.1	84.7	80.9	76.9	82.1	78.5	72.8	81.1	78.0	84.2	82.9	82.6	80.0	80.3
12	REH 2011-8	80.1	83.3	83.3	78.9	79.2	81.2	75.3	65.8	84.3	82.6	83.5	79.4	83.6	79.2	79.7
13	AH 1201	80.7	80.4	85.1	80.4	79.5	81.5	77.1	68.9	86.8	82.9	85.9	83.1	83.1	81.1	80.3
14	AH 1202	79.6	85.3	86.2	82.3	82.2	83.8	77.9	70.9	82.7	83.3	84.2	83.8	83.8	81.0	81.5
15	AH 1203	81.7	85.7	82.3	78.9	79.9	82.0	75.2	70.6	85.9	77.1	82.5	81.2	84.0	79.5	80.3
16	AH 1204	78.6	84.6	80.7	82.2	76.1	81.4	76.8	71.9	86.5	78.0	84.2	83.2	84.5	80.7	80.1
CHECKS																
17	Vivek QPM 9	81.1	81.3	85.9	81.1	80.9	82.5	78.0	71.0	87.9	79.0	84.5	84.3	83.4	81.2	80.7
18	Vivek Hybrid 9	80.2	82.6	85.5	81.4	79.1	82.3	76.6	70.8	85.9	79.8	84.7	79.8	83.8	80.2	80.3
	Loc. Mean	80.3	83.7	84.8	80.9	79.5	82.3	77.5	69.8	85.5	80.4	84.1	81.5	83.3	80.3	80.3
	C.D. (5%)	1.79	0.25	1.08	0.99	1.60	1.61	3.52	1.19	1.59	2.74	2.91	3.72	0.50	2.17	1.03
	C.V. (%)	1.34	0.18	0.76	0.74	1.22	1.84	2.74	1.03	1.12	2.05	2.09	2.75	0.36	2.55	2.39
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.04	0.02	0.00	0.64	0.01

## B161

Table No. 4 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																
		ZN 1				ZN 2				ZN 3								
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH
1	FH 3583	248.3	146.5	137.0	177.3	168.3	186.3	158.3	211.7	206.7	186.3	167.3	157.7	145.2	195.2	167.5	166.6	156.5
2	FH 3594	231.7	118.3	124.5	158.2	140.3	198.3	120.0	181.7	189.0	165.9	138.3	149.3	141.2	176.3	155.5	152.1	130.5
3	FQH 93	216.7	123.1	141.0	160.3	149.3	199.0	150.0	191.7	185.3	175.1	131.7	139.9	126.8	189.9	138.0	145.3	141.0
4	DH-238	240.0	126.7	151.5	172.7	151.0	187.0	155.0	200.0	178.0	174.2	137.7	147.2	132.8	188.4	120.0	145.2	146.0
5	DH-241	226.7	118.0	128.5	157.7	152.7	182.0	171.7	181.7	198.0	177.2	144.0	141.5	148.5	197.6	150.0	156.3	143.5
6	DH-242	221.7	118.5	98.5	146.2	145.7	177.7	141.7	181.7	195.0	168.3	157.7	135.1	133.0	184.5	133.8	148.8	149.0
7	DH-244	226.7	127.8	148.0	167.5	146.3	172.0	131.7	195.0	175.3	164.1	165.0	134.8	144.0	190.1	153.5	157.5	142.0
8	DH-248	230.0	127.7	144.0	167.2	151.7	167.3	135.0	210.0	188.7	170.5	161.7	142.6	140.0	188.9	154.5	157.5	141.5
9	DH-262	238.3	110.8	149.0	166.0	157.3	175.3	158.3	198.3	204.0	178.7	160.7	150.3	144.2	189.3	141.3	157.2	130.0
10	DH-263	226.7	121.1	140.5	162.8	149.3	167.3	131.7	210.0	190.0	169.7	148.0	157.4	148.7	199.5	138.8	158.5	142.5
11	REH 2011-7	231.7	121.7	149.0	167.5	161.0	165.7	121.7	205.0	-	163.3	-	145.2	135.7	176.1	143.8	150.2	146.5
12	REH 2011-8	218.3	127.6	141.5	162.5	164.0	168.7	163.3	205.0	-	175.3	-	166.3	140.2	203.1	156.0	166.4	140.5
13	AH 1201	238.3	117.3	154.5	170.0	153.3	182.0	135.0	228.3	208.3	181.4	139.3	160.7	144.7	207.1	134.3	157.2	142.5
14	AH 1202	228.3	106.1	145.5	160.0	156.7	188.0	161.7	218.3	211.3	187.2	154.0	135.2	138.7	185.0	151.0	152.8	154.5
15	AH 1203	225.0	116.4	138.5	160.0	145.3	172.3	141.7	195.0	190.3	168.9	135.0	130.3	126.0	173.0	137.5	140.4	142.5
16	AH 1204	225.0	124.5	136.0	161.8	156.0	188.3	153.3	208.3	195.3	180.3	149.0	134.3	150.7	177.9	141.0	150.6	137.5
	CHECKS																	
17	Vivek QPM 9	223.3	147.5	141.0	170.6	159.3	187.3	146.7	190.0	213.7	179.4	160.0	163.7	144.0	195.0	151.3	162.8	150.5
18	Vivek Hybrid 9	221.7	150.0	138.5	170.1	164.3	192.3	140.0	181.7	202.3	176.1	165.0	159.2	145.5	187.9	147.5	161.0	147.0
	Loc. Mean	228.8	125.0	139.3	164.4	154.0	180.9	145.4	199.6	195.7	174.5	150.9	147.3	140.5	189.2	145.3	154.8	143.6
	C.D. (5%)	11.04	26.56	10.73	17.53	12.07	4.27	6.36	17.67	29.16	14.29	25.08	5.06	17.84	15.66	10.70	10.35	7.80
	C.V. (%)	2.91	10.07	3.65	6.43	4.72	1.42	2.64	5.33	8.43	6.49	9.40	2.07	7.65	4.99	4.44	5.30	3.27
	F (Prob)	0.00	0.11	0.00	0.23	0.00	0.00	0.00	0.00	0.19	0.03	0.04	0.00	0.23	0.00	0.00	0.00	0.00

## B162

Table No. 4 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)												Mean	OV'L		
		COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4				ZN 5					
1	FH 3583	178.5	193.3	190.0	151.7	188.7	137.1	170.8	184.3	187.1	183.3	182.3	142.3	163.9	186.7	175.7	174.9
2	FH 3594	152.6	168.7	208.3	133.3	190.3	126.9	158.7	171.3	170.4	166.7	170.0	139.0	144.8	163.3	160.8	159.3
3	FQH 93	155.9	179.7	176.7	153.3	179.7	130.3	159.5	150.9	158.7	170.0	160.7	144.7	142.6	163.3	155.8	158.9
4	DH-238	182.7	164.3	218.3	146.7	201.3	130.7	170.0	161.9	160.4	175.0	173.7	140.3	146.7	176.7	162.1	164.4
5	DH-241	177.3	163.7	200.0	151.7	183.0	136.9	165.2	161.1	163.7	170.0	162.7	146.3	152.3	175.0	161.6	164.0
6	DH-242	175.9	180.7	166.7	148.3	201.7	130.1	164.6	150.3	154.7	188.3	162.3	141.3	153.4	175.0	160.8	159.3
7	DH-244	164.2	167.7	180.0	160.0	191.7	154.2	165.7	172.7	170.3	165.0	173.3	137.3	147.1	166.7	161.8	163.1
8	DH-248	150.0	175.0	195.0	148.3	191.7	129.7	161.6	161.3	158.8	186.7	170.3	146.7	153.3	185.0	166.0	164.3
9	DH-262	185.9	186.0	176.7	170.0	200.7	126.4	167.9	160.1	153.7	200.0	171.0	144.0	155.8	175.0	165.6	167.1
10	DH-263	170.5	179.3	200.0	160.0	198.7	132.1	169.0	167.3	168.7	203.3	171.7	146.3	151.0	190.0	171.2	167.1
11	REH 2011-7	168.9	194.0	211.7	155.0	180.0	126.5	168.9	175.5	155.5	196.7	183.0	141.7	157.3	181.7	170.2	165.2
12	REH 2011-8	149.9	201.7	210.0	153.3	199.7	143.7	171.3	171.1	177.0	198.3	195.7	146.3	140.1	185.0	173.4	170.7
13	AH 1201	180.7	159.3	200.0	153.3	210.3	130.7	168.1	181.1	163.7	208.3	182.3	143.3	152.9	175.0	172.4	169.9
14	AH 1202	176.4	182.0	181.7	153.3	200.7	130.1	168.4	156.5	165.1	188.3	178.7	140.3	159.6	171.7	165.7	167.4
15	AH 1203	155.5	164.3	198.3	140.0	177.7	122.1	157.2	161.1	133.7	181.7	165.0	136.7	153.4	181.7	159.0	157.0
16	AH 1204	161.5	163.3	175.0	160.0	198.7	136.1	161.7	166.5	175.5	175.0	174.3	145.7	151.4	168.3	165.3	164.0
	CHECKS																
17	Vivek QPM 9	166.3	183.0	180.0	163.3	206.7	129.9	168.5	169.3	178.7	195.0	162.3	149.0	155.3	183.3	170.4	170.2
18	Vivek Hybrid 9	170.3	174.7	186.7	166.7	185.7	129.3	165.8	165.4	178.8	175.0	163.3	129.7	154.0	171.7	162.5	166.4
	Loc. Mean	167.9	176.7	191.9	153.8	193.7	132.4	165.7	166.0	165.3	184.8	172.4	142.3	151.9	176.4	165.6	165.2
	C.D. (5%)	3.84	15.52	15.58	31.63	14.21	17.35	11.01	20.77	23.09	10.47	12.96	12.56	14.65	8.30	8.78	5.25
	C.V. (%)	1.38	5.29	4.89	12.40	4.42	7.90	6.27	7.54	8.42	3.42	4.53	5.32	5.81	2.83	5.00	5.95
	F (Prob)	0.00	0.00	0.00	0.82	0.00	0.17	0.27	0.11	0.02	0.00	0.00	0.36	0.22	0.00	0.00	0.00



Table No. 4 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																
					ZN 1					ZN 2					ZN 3			
		ALMO	BARA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH
1	FH 3583	126.7	61.7	48.5	79.0	74.3	64.0	70.0	100.0	68.7	75.4	71.3	57.7	65.2	94.9	75.5	72.9	67.5
2	FH 3594	120.0	45.5	47.0	70.8	59.3	69.7	56.7	88.3	74.7	69.7	61.7	60.6	61.0	81.7	77.3	68.5	52.0
3	FQH 93	101.7	38.0	55.5	65.1	59.0	68.7	86.7	78.3	62.0	70.9	50.0	55.9	48.7	77.6	44.3	55.3	53.0
4	DH-238	130.0	51.2	62.5	81.2	73.7	70.3	65.0	100.0	61.0	74.0	62.7	65.4	56.0	95.3	55.3	66.9	56.0
5	DH-241	108.3	49.2	52.0	69.8	73.0	67.0	98.3	95.0	71.0	80.9	55.0	63.7	60.3	93.7	72.8	69.1	63.5
6	DH-242	110.0	44.2	39.0	64.4	66.7	61.7	66.7	96.7	80.0	74.3	70.0	59.1	68.2	92.3	59.8	69.9	61.0
7	DH-244	115.0	51.1	58.5	74.9	67.0	75.0	60.0	95.0	70.0	73.4	62.3	56.2	60.5	88.7	67.0	67.0	61.0
8	DH-248	123.3	58.6	62.0	81.3	70.3	78.0	61.7	113.3	77.0	80.1	70.0	71.7	65.3	90.0	78.8	75.2	61.0
9	DH-262	123.3	45.0	66.5	78.3	83.7	78.0	98.3	115.0	84.3	91.9	74.0	71.6	67.0	100.4	72.3	77.1	61.0
10	DH-263	121.7	48.5	56.0	75.4	75.3	69.0	60.0	126.7	79.0	82.0	62.0	71.7	65.3	97.8	64.8	72.3	58.5
11	REH 2011-7	130.0	42.6	60.0	77.5	81.7	64.7	70.0	121.7	-	84.5	-	70.7	64.0	92.6	66.3	73.4	66.0
12	REH 2011-8	110.0	55.1	56.0	73.7	80.3	65.3	81.7	108.3	-	83.9	-	72.3	67.2	108.0	71.8	79.8	66.0
13	AH 1201	130.0	51.5	64.0	81.8	80.0	76.7	68.3	113.3	79.7	83.6	68.3	76.3	63.2	79.1	63.5	70.1	65.0
14	AH 1202	111.7	46.5	59.5	72.6	80.0	78.7	88.3	106.7	83.3	87.4	69.0	62.2	63.5	94.1	69.3	71.6	71.5
15	AH 1203	120.0	47.5	56.5	74.7	68.7	80.7	80.0	100.0	72.7	80.4	59.0	53.4	58.5	90.4	57.3	63.7	62.5
16	AH 1204	123.3	54.3	46.5	74.7	77.7	77.0	63.3	111.7	82.3	82.4	62.3	59.5	75.2	92.9	73.3	72.6	60.5
CHECKS																		
17	Vivek QPM 9	111.7	50.7	57.0	73.1	65.7	73.7	71.7	86.7	78.3	75.2	70.0	70.9	59.0	86.2	61.3	69.5	60.0
18	Vivek Hybrid 9	110.0	55.2	56.5	73.9	65.3	66.7	60.0	80.0	76.0	69.6	65.3	68.7	62.5	77.5	59.0	66.6	61.5
	Loc. Mean	118.1	49.8	55.8	74.6	72.3	71.4	72.6	102.0	75.0	78.9	64.6	64.9	62.8	90.7	66.1	70.1	61.5
	C.D. (5%)	10.79	14.59	7.73	10.62	11.88	4.21	5.34	17.83	16.46	11.01	17.03	5.05	17.15	24.43	9.24	7.22	5.47
	C.V. (%)	5.50	13.88	6.58	8.58	9.90	3.55	4.43	10.53	12.41	11.06	14.91	4.69	16.46	16.22	8.43	8.17	5.36
	F (Prob)	0.00	0.23	0.00	0.07	0.00	0.00	0.00	0.00	0.10	0.00	0.24	0.00	0.60	0.59	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.&gt; 20%) : KOLHAPUR 20.2%

## B164

Table No. 4 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)											Mean	OV'L	
		COIM	HYDE	KOLH	MAND	VAGA	ZN 4			ZN 5					
						Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
1	FH 3583	93.7	69.0	63.3	81.7	72.5	76.9	46.7	87.1	78.3	76.3	62.7	76.7	71.3	74.6
2	FH 3594	72.2	62.7	56.7	92.0	64.7	68.7	37.0	63.9	65.0	72.3	69.7	85.0	65.5	68.3
3	FQH 93	51.3	60.0	53.3	72.7	54.9	58.4	29.4	65.7	63.3	60.7	62.3	66.7	58.0	61.1
4	DH-238	95.0	71.3	63.3	90.0	75.9	77.7	37.4	66.9	75.0	72.3	65.7	85.0	67.1	72.5
5	DH-241	70.9	56.7	58.3	85.0	66.4	68.5	33.7	82.7	73.3	68.0	71.3	88.3	69.6	71.6
6	DH-242	89.4	65.3	70.0	95.3	66.5	75.5	35.4	78.9	78.3	65.7	63.3	76.7	66.4	70.4
7	DH-244	72.9	58.7	58.3	81.7	73.8	69.6	39.8	76.9	63.3	67.7	62.0	71.7	63.6	69.0
8	DH-248	71.5	72.7	61.7	91.3	70.7	73.4	48.9	70.5	88.3	73.0	70.3	85.0	72.7	76.0
9	DH-262	94.1	74.7	75.0	101.3	71.0	80.4	47.5	68.9	100.0	67.3	68.0	90.0	73.6	80.1
10	DH-263	89.9	67.3	73.3	92.3	69.6	75.5	45.0	80.3	93.3	68.3	69.3	98.3	75.8	76.2
11	REH 2011-7	95.0	77.7	65.0	81.3	72.7	78.5	56.7	77.7	90.0	73.0	68.3	86.7	75.4	77.7
12	REH 2011-8	99.6	85.7	73.3	101.0	74.2	85.3	44.3	83.9	101.7	89.0	72.7	71.7	77.2	80.3
13	AH 1201	93.0	66.0	76.7	106.0	71.6	80.3	50.0	73.8	86.7	80.0	63.7	80.0	72.4	77.1
14	AH 1202	92.6	77.3	68.3	96.7	77.6	83.1	35.1	70.4	85.0	69.3	63.3	78.3	66.9	76.2
15	AH 1203	81.4	69.0	63.3	86.7	67.0	73.3	39.3	68.8	85.0	67.7	62.7	93.3	69.5	72.0
16	AH 1204	90.5	64.0	73.3	96.3	71.5	76.6	45.0	77.0	86.7	76.7	76.3	76.7	73.1	75.9
CHECKS															
17	Vivek QPM 9	76.6	70.7	66.7	92.7	67.1	73.4	44.4	83.7	78.3	61.7	67.7	75.0	68.5	71.7
18	Vivek Hybrid 9	74.5	59.3	70.0	75.7	66.9	67.6	37.1	82.2	76.7	63.7	63.7	71.7	65.8	68.2
	Loc. Mean	83.6	68.2	66.1	90.0	69.7	74.6	41.8	75.5	81.6	70.7	66.8	80.9	69.6	73.3
	C.D. (5%)	3.36	10.76	22.13	11.70	9.48	7.60	11.97	23.44	10.41	12.23	8.97	7.37	7.64	3.91
	C.V. (%)	2.42	9.51	20.17	7.83	8.19	8.07	17.25	18.70	7.69	10.42	8.08	5.49	9.56	9.41
	F (Prob)	0.00	0.00	0.69	0.00	0.01	0.00	0.01	0.72	0.00	0.01	0.07	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.&gt; 20%) : KOLHAPUR 20.2%

## B165

TABLE No. 5

Performance of late maturing experimental hybrids at Bajaura, Kangra, Delhi, Karnal, Pantnagar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Bhiloda, Udaipur in AET-1 trial no. 65(AET1-L) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
		ZN 1						ZN 2						ZN 3															
		BAJA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	MEAN	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R
1	X35A187	10718	14	3810	26	7264	24	6869	11	6326	26	13055	1	7027	12	8802	6	9930	4	7214	27	7671	18	8272	20	10430	13	10048	21
2	X35A180	12860	2	6600	10	9730	3	6628	15	7506	5	11340	12	7098	9	8648	8	8898	13	9962	2	9292	7	9384	5	11905	1	12430	2
3	S6668	9551	24	6370	12	7960	14	7693	2	6807	16	11265	14	7495	6	8522	10	7905	18	8266	14	9116	9	8429	14	9110	21	11597	6
4	PRO-385	12770	4	5183	17	8976	6	6724	13	6754	18	12143	7	8654	1	9184	3	8715	16	8326	13	7893	16	8311	18	11282	4	11107	9
5	PRO-384	9747	21	7534	6	8640	9	7440	6	6481	22	10241	21	7645	3	8123	18	10536	2	7153	28	9746	4	9145	6	9509	19	11540	7
6	PFMH-97I57(AMAR)	12796	3	8258	2	10527	1	5434	21	6883	14	11633	10	7032	11	8516	11	7213	24	8257	15	8952	10	8140	21	11532	3	10739	15
7	P4546	10194	17	5683	15	7939	16	5256	23	6371	25	10932	17	5420	27	7574	25	9009	12	8137	19	8551	12	8566	9	10564	9	12384	3
8	Filler	9071	27	6408	11	7740	18	5287	22	5887	31	9818	23	5582	25	7096	28	7103	25	7544	25	6534	31	7060	32	7810	28	8451	25
9	Orbit	13050	1	3705	27	8378	10	6208	18	6372	24	12173	6	7563	4	8703	7	11317	1	8927	8	8282	14	9509	3	11636	2	10556	17
10	NMH-1247	12115	5	2197	31	7156	26	4911	28	7191	8	11269	13	6993	14	8485	12	7255	23	8041	21	6884	29	7393	30	9606	18	8847	24
11	MCH 46	9972	18	8010	3	8991	5	5043	27	8324	2	12519	4	5049	29	8630	9	6946	27	9342	4	9302	6	8530	11	10031	16	11925	5
12	MCH 45	11127	11	8452	1	9790	2	5151	24	6092	29	9675	25	7072	10	7613	24	9343	7	8452	11	7079	27	8291	19	10297	14	9293	23
13	Laxmi 333(L333)	11245	10	4090	23	7667	21	8049	1	6434	23	11159	15	6039	23	7877	21	6705	31	9593	3	7362	24	7887	24	10184	15	10569	16
14	HTMH 5402	11588	7	5933	14	8760	7	6078	20	6793	17	9337	28	6779	19	7636	23	9215	8	7360	26	7317	25	7964	22	8907	22	11045	12
15	HTMH 5106	10398	15	6948	9	8673	8	5056	26	6914	13	11941	9	6013	24	8289	13	9201	9	8390	12	7649	20	8414	15	10861	6	10427	19
16	GK 3103	11487	8	7568	5	9528	4	7283	7	6923	11	12963	2	8548	2	9478	1	9072	10	7918	22	8566	11	8519	12	10561	10	11319	8
17	GK 3102	11016	12	1966	32	6491	29	7164	8	8561	1	11122	16	4839	30	8174	15	6723	30	8179	18	7458	21	7453	28	8852	24	11074	11
18	DMH 7705	9566	22	3931	24	6748	28	7660	3	7426	7	12718	3	6925	16	9023	5	9992	3	8137	20	7402	22	8510	13	10775	7	10120	20
19	DAS-MH-102	10315	16	4927	18	7621	22	2019	32	8290	3	12062	8	6978	15	9110	4	9068	11	8207	17	7883	17	8386	16	10535	11	10463	18
20	CMH10-500	9249	26	7151	8	8200	11	6217	17	7458	6	-	-	4726	31	6092	31	6677	32	-	-	10434	3	8555	10	7363	30	8088	28
21	CMH09-464	9553	23	5579	16	7566	23	7030	9	6521	21	10755	19	7546	5	8274	14	9782	5	9198	6	9216	8	9399	4	10523	12	10798	14
22	CMH08-381(G)	8729	28	3845	25	6287	30	6890	10	561	32	-	-	4141	32	2351	32	7842	19	-	-	11928	1	9885	2	-	-	12452	1
23	CMH08-381	8572	29	7296	7	7934	17	7443	5	6074	30	-	-	6230	21	6152	30	8811	15	9313	5	11653	2	9926	1	8125	26	12224	4
24	Bisco 2324 Plus	12089	6	3351	29	7720	19	6842	12	6272	27	9457	26	6780	18	7503	26	7674	20	8644	9	7362	23	7893	23	8873	23	10850	13
25	B-54	9440	25	4658	19	7049	27	6663	14	6629	19	10865	18	6997	13	8164	16	6900	28	7844	23	8110	15	7618	25	8188	25	7406	31
26	B-161	9798	20	4656	20	7227	25	6242	16	7015	10	9374	27	6702	20	7697	22	7082	26	8537	10	7019	28	7546	27	9199	20	6755	32
27	CP 333	8382	31	7729	4	8055	12	4687	29	7035	9	10520	20	6889	17	8148	17	9563	6	7806	24	7658	19	8342	17	11176	5	7804	30

## B166

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
	ZN 1												ZN 2						ZN 3									
	BAJA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	MEAN	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R
28 Filler CHECKS	8081	32	3455	28	5768	31	4321	31	6522	20	7994	29	5270	28	6595	29	8462	17	7014	30	7236	26	7571	26	7481	29	7920	29
29 PMH 1	10915	13	4483	22	7699	20	6115	19	6256	28	11614	11	6053	22	7974	20	8831	14	8934	7	8533	13	8766	8	10577	8	9462	22
30 PMH 3	11261	9	4618	21	7939	15	7577	4	7788	4	12476	5	7313	7	9192	2	6779	29	10064	1	9590	5	8811	7	9910	17	11075	10
31 SeedTech 2324	8550	30	2658	30	5604	32	4344	30	6918	12	9780	24	5421	26	7373	27	7443	22	7099	29	6675	30	7072	31	6987	31	8287	27
32 Bio 9681	9833	19	6228	13	8031	13	5105	25	6869	15	10077	22	7135	8	8027	19	7531	21	8226	16	6453	32	7403	29	7892	27	8427	26
Location Mean	10439		5415		7927		6107		6695		11044		6561		8100		8360		8336		8275		8324		9699		10171	
Mean Stand	38		50		44		73		72		74		65		70		54		61		78		64		67		63	
C.D. (5%)	1414		1417		1415		2145		973		1404		922		1100		2365		1398		1507		1757		2104		676	
C.V. (%)	8.3		12.81		-		21.51		8.9		7.77		8.61		-		17.33		8.19		8.92		-		13.27		4.07	
F (Prob)	0		0				0		0		0		0				0		0.001		0				0		0	
Plot Size	6		7.2		-		12		12		10.4		12		-		6		9.6		9.6		-		12		9.6	
AGRONOMY DATA																												
Sowing Date	23-06		11-07		-		6-07		4-07		21-06		5-07		-		5-07		24-07		7-07		-		24-08		5-07	
Harvest Date	1-11		17-10		-		25-10		10-10		4-10		18-10		-		16-10		-		9-10		-		25-12		30-10	
Irrigation Nos	3		-		-		2		6		4		1		-		2		-		-		-		6		10	
Fertilizer Applied N	120		120		-		120		150		50		120		-		120		120		120		-		150		150	
Fertilizer Applied P	60		60		-		60		60		24		60		-		60		60		60		-		75		75	
Fertilizer Applied K	40		40		-		40		60		12		40		-		40		40		40		-		37.5		75	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DELH 21.5 %

## B167

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																										
		ZN 4											ZN 5				OV'L											
		HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN
1	X35A187	6902	27	8123	28	5043	12	10599	4	5946	10	8156	22	6985	9	3349	14	10787	3	7894	9	4322	30	5870	11	6535	11	7717
2	X35A180	8224	12	9193	25	4784	18	8867	21	6076	7	8783	7	7400	6	3087	19	11236	1	7346	14	6584	3	6117	7	6962	3	8419
3	S6668	10337	1	12060	8	4443	27	11288	2	6002	9	9263	2	6855	11	3681	6	8118	24	7162	16	5386	20	6873	1	6346	13	8080
4	PRO-385	9815	5	12778	4	4618	25	11348	1	6508	3	9637	1	7050	7	3183	18	9161	18	9495	5	6030	8	5460	22	6730	6	8489
5	PRO-384	7188	22	9162	26	5550	5	9628	11	5704	17	8326	18	6825	12	3868	2	9805	14	2241	30	4913	24	5055	27	5451	26	7622
6	PFMH-97157(AMAR)	7091	25	9689	21	5848	1	9413	14	6054	8	8624	11	8277	2	2558	28	11085	2	9776	3	5889	10	5854	12	7240	1	8325
7	P4546	8035	14	10475	13	4979	14	9432	13	5744	15	8802	6	8317	1	3270	17	9811	13	7806	11	5692	17	6250	6	6858	5	7955
8	Filler	6865	28	7883	29	3217	32	8279	28	3989	31	6642	32	5499	24	2589	26	7843	29	6021	20	4907	25	5165	25	5337	28	6498
9	Orbit	9892	3	10173	19	5201	10	7263	31	5739	16	8637	9	6507	16	2886	21	10067	10	2064	31	4388	28	5436	23	5225	31	7771
10	NMH-1247	7913	15	10227	16	5378	7	10031	8	3854	32	7980	24	5586	22	3309	15	10079	9	7789	12	8126	1	5155	26	6674	9	7517
11	MCH 46	7595	18	14026	1	4737	19	9736	10	6204	6	9179	3	7954	3	3725	5	10520	5	7835	10	6013	9	5225	24	6878	4	8333
12	MCH 45	6635	29	12104	7	5093	11	8782	23	6218	5	8346	16	6728	14	3864	3	10597	4	1090	32	5854	12	5482	21	5602	22	7587
13	Laxmi 333(L333)	8607	10	10641	11	5014	13	10322	6	5916	12	8750	8	6471	18	3026	20	9481	16	2443	29	5750	14	6266	5	5573	23	7491
14	HTMH 5402	7165	24	10221	17	4915	15	10228	7	5926	11	8344	17	6591	15	3541	9	9998	11	9768	4	4438	27	5834	14	6695	7	7757
15	HTMH 5106	9034	7	13052	3	5767	2	9229	15	3995	30	8909	4	7414	5	3350	13	8301	21	10376	2	4942	23	5724	15	6684	8	8092
16	GK 3103	8065	13	9354	24	5731	3	10498	5	4908	20	8634	10	6311	19	3603	7	9011	19	5517	23	5545	18	4216	32	5701	21	7985
17	GK 3102	7185	23	10302	14	4361	28	8372	27	6498	4	8092	23	5491	25	3555	8	7891	28	8670	6	4364	29	4415	29	5731	19	7185
18	DMH 7705	9461	6	12345	6	4795	17	7649	30	4384	28	8504	13	6787	13	2693	24	8928	20	8358	8	3711	32	6383	4	6143	14	7737
19	DAS-MH-102	7540	20	7012	31	5430	6	10696	3	5798	14	8210	19	7542	4	3515	10	10310	6	6865	17	6554	4	4413	30	6533	12	7829
20	CMH10-500	9960	2	11166	10	3701	30	8679	24	4586	25	7649	25	5637	21	2550	29	8243	22	6258	19	4993	22	4283	31	5327	29	6905
21	CMH09-464	8401	11	10614	12	5312	8	8858	22	4462	26	8424	14	6484	17	2707	23	9614	15	5805	21	5746	15	6408	3	6127	15	7804
22	CMH08-381(G)	7011	26	-	-	4681	23	5893	32	4730	24	6953	30	5127	29	2501	30	10121	8	4267	27	5862	11	5526	20	5567	24	6189
23	CMH08-381	8955	8	13992	2	4730	21	8211	29	5656	18	8842	5	5370	28	3739	4	9447	17	4815	25	5098	21	5838	13	5718	20	7707
24	Bisco 2324 Plus	8822	9	11199	9	4904	16	9108	17	6607	2	8623	12	5896	20	2743	22	8046	25	8417	7	4697	26	5952	9	5958	16	7512
25	B-54	7775	16	12513	5	3420	31	8957	19	4807	22	7581	26	4979	31	2436	31	7986	26	4919	24	5537	19	5707	16	5261	30	6956
26	B-161	6536	30	9982	20	4692	22	9803	9	4850	21	7402	27	4767	32	3382	12	7803	30	6518	18	6274	5	6481	2	5871	18	7011
27	CP 333	9887	4	9485	22	5204	9	9579	12	4248	29	8198	20	7019	8	4140	1	10140	7	7521	13	7959	2	6055	8	7139	2	7895

## B168

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																										
	ZN 4										ZN 5				OV'L												
	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	UDAI	R	MEAN	R	MEAN
28 Filler CHECKS	6316	31	7510	30	4035	29	9182	16	5822	13	6895	31	5484	26	2559	27	7557	31	5564	22	3865	31	4883	28	4985	32	6296
29 PMH 1	7582	19	10282	15	5655	4	8883	20	4765	23	8172	21	6887	10	2627	25	9911	12	4060	28	5827	13	5952	10	5877	17	7528
30 PMH 3	7426	21	9425	23	4630	24	9051	18	6952	1	8353	15	5453	27	3307	16	7896	27	10879	1	6128	7	5606	18	6545	10	7982
31 SeedTech 2324	7768	17	8312	27	4733	20	8636	25	4444	27	7024	29	4999	30	2255	32	6178	32	7189	15	6216	6	5663	17	5417	27	6486
32 Bio 9681	6221	32	10182	18	4593	26	8542	26	4944	19	7257	28	5501	23	3504	11	8186	23	4504	26	5704	16	5565	19	5494	25	6958
Location Mean	8007		10435		4850		9220		5386		8253		6381		3159		9192		6539		5541		5597		6068		7586
Mean Stand	68		56		77		70		55		65		75		59		73		51		56		62		63		63
C.D. (5%)	1754		1945		783		912		861		1291		1103		477		453		1372		2264		399		1011		1262
C.V. (%)	13.42		11.41		9.89		6.06		9.79		-		10.59		9.25		3.02		12.85		20		4.37		-		-
F (Prob)	0		0		0		0		0				0		0		0		0		0.395		0				
Plot Size	12		12		12		11.2		9.6		-		12		9.6		12		9.6		9.6		9.6		-		-
AGRONOMY DATA																											
Sowing Date	1-07		27-06		30-07		30-07		26-06		-		5-07		12-07		27-06		13-07		19-07		2-07		-		-
Harvest Date	2-11		16-10		30-11		13-12		5-11		-		-		18-10		5-11		15-10		-		11-10		-		-
Irrigation Nos	1		-		-		8		12		-		-		-		-		-		-		2		-		-
Fertilizer Applied N	200		200		120		150		200		-		120		150		120		120		120		90		-		-
Fertilizer Applied P	60		60		60		75		75		-		60		80		60		50		60		60		-		-
Fertilizer Applied K	50		50		40		40		75		-		40		40		40		-		-		-		-		-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DELH 21.5 %

## B169

TABLE No. 5 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1																											
	ZN 1				ZN 2				ZN 3				ZN 4					ZN 5				OV'L						
	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
1 X35A187	-	-	-	12.3	1.1	12.4	16.1	10.4	12.5	-	-	-	-	6.2	-	-	-	19.3	24.8	-	1.4	27.5	8.8	94.4	-	-	11.2	2.5
2 X35A180	17.8	47.2	26.4	8.4	20	-	17.3	8.5	0.8	11.5	8.9	7	12.6	31.4	8.5	-	-	-	27.5	7.5	7.4	17.5	13.4	80.9	13	2.8	18.5	11.8
3 S6668	-	42.1	3.4	25.8	8.8	-	23.8	6.9	-	-	6.8	-	-	22.6	36.3	17.3	-	27.1	26	13.3	-	40.1	-	76.4	-	15.5	8	7.3
4 PRO-385	17	15.6	16.6	10	8	4.6	43	15.2	-	-	-	-	6.7	17.4	29.4	24.3	-	27.8	36.6	17.9	2.4	21.1	-	133.9	3.5	-	14.5	12.8
5 PRO-384	-	68	12.2	21.7	3.6	-	26.3	1.9	19.3	-	14.2	4.3	-	22	-	-	-	8.4	19.7	1.9	-	47.2	-	-	-	-	-	1.3
6 PFMH-97157(AMAR)	17.2	84.2	36.7	-	10	0.2	16.2	6.8	-	-	4.9	-	9	13.5	-	-	3.4	6	27.1	5.5	20.2	-	11.8	140.8	1.1	-	23.2	10.6
7 P4546	-	26.8	3.1	-	1.8	-	-	-	2	-	0.2	-	-	30.9	6	1.9	-	6.2	20.6	7.7	20.8	24.5	-	92.3	-	5	16.7	5.7
8 Filler	-	42.9	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48.3	-	-	-	-
9 Orbit	19.6	-	8.8	1.5	1.9	4.8	25	9.1	28.2	-	-	8.5	10	11.6	30.5	-	-	-	20.4	5.7	-	9.8	1.6	-	-	-	-	3.2
10 NMH-1247	11	-	-	-	14.9	-	15.5	6.4	-	-	-	-	-	-	4.4	-	-	12.9	-	-	-	25.9	1.7	91.9	39.5	-	13.6	-
11 MCH 46	-	78.7	16.8	-	33.1	7.8	-	8.2	-	4.6	9	-	-	26	0.2	36.4	-	9.6	30.2	12.3	15.5	41.8	6.1	93	3.2	-	17	10.7
12 MCH 45	1.9	88.5	27.2	-	-	-	16.8	-	5.8	-	-	-	-	-	-	17.7	-	-	30.5	2.1	-	47.1	6.9	-	0.5	-	-	0.8
13 Laxmi 333(L333)	3	-	-	31.6	2.8	-	-	-	-	7.4	-	-	-	11.7	13.5	3.5	-	16.2	24.2	7.1	-	15.2	-	-	-	5.3	-	-
14 HTMH 5402	6.2	32.3	13.8	-	8.6	-	12	-	4.4	-	-	-	-	16.7	-	-	-	15.1	24.4	2.1	-	34.8	0.9	140.6	-	-	13.9	3
15 HTMH 5106	-	55	12.6	-	10.5	2.8	-	4	4.2	-	-	-	2.7	10.2	19.2	26.9	2	3.9	-	9	7.7	27.5	-	155.6	-	-	13.7	7.5
16 GK 3103	5.2	68.8	23.7	19.1	10.7	11.6	41.2	18.9	2.7	-	0.4	-	-	19.6	6.4	-	1.3	18.2	3	5.6	-	37.1	-	35.9	-	-	-	6.1
17 GK 3102	0.9	-	-	17.2	36.8	-	-	2.5	-	-	-	-	-	17	-	0.2	-	-	36.4	-	-	35.3	-	113.5	-	-	-	-
18 DMH 7705	-	-	-	25.3	18.7	9.5	14.4	13.2	13.2	-	-	-	1.9	7	24.8	20.1	-	-	-	4.1	-	2.5	-	105.9	-	7.3	4.5	2.8
19 DAS-MH-102	-	9.9	-	-	32.5	3.9	15.3	14.2	2.7	-	-	-	-	10.6	-	-	-	20.4	21.7	0.5	9.5	33.8	4	69.1	12.5	-	11.2	4
20 CMH10-500	-	59.5	6.5	1.7	19.2	-	-	-	-	-	22.3	-	-	-	31.4	8.6	-	-	-	-	-	-	-	54.1	-	-	-	-
21 CMH09-464	-	24.4	-	15	4.2	-	24.7	3.8	10.8	2.9	8	7.2	-	14.1	10.8	3.2	-	-	-	3.1	-	3	-	43	-	7.7	4.3	3.7
22 CMH08-381(G)	-	-	-	12.7	-	-	-	-	-	-	39.8	12.8	-	31.6	-	-	-	-	-	-	-	-	2.1	5.1	0.6	-	-	-
23 CMH08-381	-	62.7	3	21.7	-	-	2.9	-	-	4.2	36.6	13.2	-	29.2	18.1	36.1	-	-	18.7	8.2	-	42.3	-	18.6	-	-	-	2.4
24 Bisco 2324 Plus	10.8	-	0.3	11.9	0.3	-	12	-	-	-	-	-	-	14.7	16.4	8.9	-	2.5	38.7	5.5	-	4.4	-	107.3	-	0	1.4	-
25 B-54	-	3.9	-	9	6	-	15.6	2.4	-	-	-	-	-	-	2.5	21.7	-	0.8	0.9	-	-	-	-	21.2	-	-	-	-
26 B-161	-	3.8	-	2.1	12.1	-	10.7	-	-	-	-	-	-	-	-	-	-	10.4	1.8	-	-	28.7	-	60.5	7.7	8.9	-	-
27 CP 333	-	72.4	4.6	-	12.4	-	13.8	2.2	8.3	-	-	-	5.7	-	30.4	-	-	7.8	-	0.3	1.9	57.6	2.3	85.3	36.6	1.7	21.5	4.9
28 Filler	-	-	-	-	4.2	-	-	-	-	-	-	-	-	-	-	-	-	3.4	22.2	-	-	-	-	37	-	-	-	-
CHECKS																												
29 PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 PMH 3	3.2	3	3.1	23.9	24.5	7.4	20.8	15.3	-	12.6	12.4	0.5	-	17	-	-	-	1.9	45.9	2.2	-	25.9	-	168	5.2	-	11.4	6
31 SeedTech 2324	-	-	-	-	10.6	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-	-	-	77.1	6.7	-	-	-
32 Bio 9681	-	38.9	4.3	-	9.8	-	17.9	0.7	-	-	-	-	-	-	-	-	-	-	3.8	-	-	33.4	-	10.9	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 21%) : DELH 21.5 %

## B170

TABLE No. 5 (Cont.)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3																											
	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L					
	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
1 X35A187	-	-	-	-	-	4.6	-	-	46.5	-	-	-	5.2	-	-	-	8.9	17.1	-	-	28.1	1.3	36.6	-	-	4.7	-	-
2 X35A180	14.2	42.9	22.6	-	-	-	-	-	31.3	-	-	6.5	20.1	12.2	10.7	-	3.3	-	-	5.1	35.7	-	42.3	-	7.4	9.1	6.4	5.5
3 S6668	-	37.9	0.3	1.5	-	-	2.5	-	16.6	-	-	-	-	4.7	39.2	28	-	24.7	-	10.9	25.7	11.3	2.8	-	-	22.6	-	1.2
4 PRO-385	13.4	12.2	13.1	-	-	-	18.3	-	28.6	-	-	-	13.8	0.3	32.2	35.6	-	25.4	-	15.4	29.3	-	16	-	-	-	2.8	6.4
5 PRO-384	-	63.2	8.8	-	-	-	4.5	-	55.4	-	1.6	3.8	-	4.2	-	-	19.9	6.4	-	-	25.2	17	24.2	-	-	-	-	-
6 PFMH-97157(AMAR)	13.6	78.9	32.6	-	-	-	-	-	6.4	-	-	-	16.4	-	-	2.8	26.3	4	-	3.2	51.8	-	40.4	-	-	4.4	10.6	4.3
7 P4546	-	23.1	-	-	-	-	-	-	32.9	-	-	-	6.6	11.8	8.2	11.1	7.5	4.2	-	5.4	52.5	-	24.3	-	-	11.5	4.8	-
8 Filler	-	38.8	-	-	-	-	-	-	4.8	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	-
9 Orbit	15.9	-	5.5	-	-	-	3.4	-	66.9	-	-	7.9	17.4	-	33.2	7.9	12.3	-	-	3.4	19.3	-	27.5	-	-	-	-	-
10 NMH-1247	7.6	-	-	-	-	-	-	-	7	-	-	-	-	-	6.6	8.5	16.1	10.8	-	-	2.5	0	27.7	-	32.6	-	2	-
11 MCH 46	-	73.5	13.2	-	6.9	0.3	-	-	2.5	-	-	-	1.2	7.7	2.3	48.8	2.3	7.6	-	9.9	45.9	12.6	33.2	-	-	-	5.1	4.4
12 MCH 45	-	83.1	23.3	-	-	-	-	-	37.8	-	-	-	3.9	-	-	28.4	10	-	-	-	23.4	16.8	34.2	-	-	-	-	-
13 Laxmi 333(L333)	-	-	-	6.2	-	-	-	-	-	-	-	-	2.8	-	15.9	12.9	8.3	14	-	4.8	18.7	-	20.1	-	-	11.8	-	-
14 HTMH 5402	2.9	28.5	10.3	-	-	-	-	-	35.9	-	-	-	-	-	-	8.4	6.1	13	-	-	20.9	7.1	26.6	-	-	4.1	2.3	-
15 HTMH 5106	-	50.5	9.2	-	-	-	-	-	35.7	-	-	-	9.6	-	21.7	38.5	24.5	2	-	6.7	36	1.3	5.1	-	-	2.1	2.1	1.4
16 GK 3103	2	63.9	20	-	-	3.9	16.9	3.1	33.8	-	-	-	6.6	2.2	8.6	-	23.8	16	-	3.4	15.7	8.9	14.1	-	-	-	-	0
17 GK 3102	-	-	-	-	9.9	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-	-	0.7	7.5	-	-	-	-	-	-
18 DMH 7705	-	-	-	1.1	-	1.9	-	-	47.4	-	-	-	8.7	-	27.4	31	3.6	-	-	1.8	24.5	-	13.1	-	-	13.9	-	-
19 DAS-MH-102	-	6.7	-	-	6.5	-	-	-	33.8	-	-	-	6.3	-	1.5	-	17.3	18.2	-	-	38.3	6.3	30.6	-	7	-	-	-
20 CMH10-500	-	54.9	3.3	-	-	-	-	-	-	-	8.8	-	-	-	34.1	18.5	-	-	-	-	3.4	-	4.4	-	-	-	-	-
21 CMH09-464	-	20.8	-	-	-	-	3.2	-	44.3	-	-	6.7	6.2	-	13.1	12.6	14.7	-	-	0.9	18.9	-	21.8	-	-	14.3	-	-
22 CMH08-381(G)	-	-	-	-	-	-	-	-	15.7	-	24.4	12.2	-	12.4	-	-	1.1	-	-	-	-	-	28.2	-	-	-	-	-
23 CMH08-381	-	58	-	-	-	-	-	-	30	-	21.5	12.6	-	10.4	20.6	48.5	2.2	-	-	5.9	-	13.1	19.7	-	-	4.1	-	-
24 Bisco 2324 Plus	7.4	-	-	-	-	-	-	-	13.2	-	-	-	-	-	18.8	18.8	5.9	0.6	-	3.2	8.1	-	1.9	-	-	6.2	-	-
25 B-54	-	0.9	-	-	-	-	-	-	1.8	-	-	-	-	-	4.7	32.8	-	-	-	-	-	-	1.1	-	-	1.8	-	-
26 B-161	-	0.8	-	-	-	-	-	-	4.5	-	-	-	-	-	-	5.9	1.3	8.3	-	-	-	2.3	-	-	2.4	15.6	-	-
27 CP 333	-	67.4	1.5	-	-	-	-	-	41.1	-	-	-	12.8	-	33.1	0.6	12.4	5.8	-	-	28.7	25.2	28.4	-	29.9	8	9.1	-
28 Filler	-	-	-	-	-	-	-	-	24.8	-	-	-	-	-	-	-	-	1.5	-	-	0.6	-	-	-	-	-	-	-
CHECKS																												
29 PMH 1	-	-	-	-	-	-	-	-	30.3	-	-	-	6.7	-	2.1	9.1	22.1	-	-	-	26.3	-	25.5	-	-	6.2	-	-
30 PMH 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 SeedTech 2324	-	-	-	-	-	-	-	-	9.8	-	-	-	-	-	4.6	-	2.2	-	-	-	-	-	-	-	1.4	1	-	-
32 Bio 9681	-	34.9	1.2	-	-	-	-	-	11.1	-	-	-	-	-	-	8	-	-	-	-	0.9	6	3.7	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 21%) : DELH 21.5 %



## B171

TABLE No. 5 (Cont.)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SeedTech 2324																												
	ZN 1				ZN 2				ZN 3					ZN 4							ZN 5		OV'L						
	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN	
1 X35A187	25.4	43.3	29.6	58.1	-	33.5	29.6	19.4	33.4	1.6	14.9	17	49.3	21.3	-	-	6.5	22.7	33.8	16.1	39.7	48.5	74.6	9.8	-	3.6	20.6	19	
2 X35A180	50.4	148.3	73.6	52.6	8.5	15.9	31	17.3	19.6	40.3	39.2	32.7	70.4	50	5.9	10.6	1.1	2.7	36.7	25	48	36.9	81.9	2.2	5.9	8	28.5	29.8	
3 S6668	11.7	139.7	42	77.1	-	15.2	38.3	15.6	6.2	16.4	36.6	19.2	30.4	39.9	33.1	45.1	-	30.7	35	31.9	37.1	63.3	31.4	-	-	21.4	17.2	24.6	
4 PRO-385	49.4	95	60.2	54.8	-	24.2	59.7	24.6	17.1	17.3	18.3	17.5	61.5	34	26.3	53.7	-	31.4	46.4	37.2	41	41.2	48.3	32.1	-	-	24.2	30.9	
5 PRO-384	14	183.5	54.2	71.3	-	4.7	41	10.2	41.6	0.8	46	29.3	36.1	39.3	-	10.2	17.3	11.5	28.3	18.5	36.5	71.6	58.7	-	-	-	0.6	17.5	
6 PFMH-97157(AMAR)	49.7	210.7	87.9	25.1	-	19	29.7	15.5	-	16.3	34.1	15.1	65.1	29.6	-	16.6	23.6	9	36.2	22.8	65.6	13.4	79.4	36	-	3.4	33.7	28.4	
7 P4546	19.2	113.8	41.7	21	-	11.8	-	2.7	21	14.6	28.1	21.1	51.2	49.4	3.4	26	5.2	9.2	29.2	25.3	66.4	45	58.8	8.6	-	10.4	26.6	22.6	
8 Filler	6.1	141.1	38.1	21.7	-	0.4	3	-	-	6.3	-	-	11.8	2	-	-	-	-	-	-	10	14.8	26.9	-	-	-	-	0.2	
9 Orbit	52.6	39.4	49.5	42.9	-	24.5	39.5	18	52.1	25.8	24.1	34.5	66.5	27.4	27.3	22.4	9.9	-	29.1	23	30.2	28	62.9	-	-	-	-	19.8	
10 NMH-1247	41.7	-	27.7	13	3.9	15.2	29	15.1	-	13.3	3.1	4.5	37.5	6.8	1.9	23	13.6	16.2	-	13.6	11.8	46.7	63.1	8.4	30.7	-	23.2	15.9	
11 MCH 46	16.6	201.4	60.4	16.1	20.3	28	-	17.1	-	31.6	39.4	20.6	43.6	43.9	-	68.7	0.1	12.7	39.6	30.7	59.1	65.2	70.3	9	-	-	27	28.5	
12 MCH 45	30.1	218	74.7	18.6	-	-	30.5	3.3	25.5	19.1	6.1	17.2	47.4	12.1	-	45.6	7.6	1.7	39.9	18.8	34.6	71.4	71.5	-	-	-	3.4	17	
13 Laxmi 333(L333)	31.5	53.9	36.8	85.3	-	14.1	11.4	6.8	-	35.1	10.3	11.5	45.8	27.5	10.8	28	5.9	19.5	33.1	24.6	29.5	34.2	53.5	-	-	10.6	2.9	15.5	
14 HTMH 5402	35.5	123.2	56.3	39.9	-	-	25.1	3.6	23.8	3.7	9.6	12.6	27.5	33.3	-	23	3.8	18.4	33.3	18.8	31.9	57.1	61.8	35.9	-	3	23.6	19.6	
15 HTMH 5106	21.6	161.4	54.8	16.4	-	22.1	10.9	12.4	23.6	18.2	14.6	19	55.4	25.8	16.3	57	21.8	6.9	-	26.8	48.3	48.6	34.4	44.3	-	1.1	23.4	24.8	
16 GK 3103	34.4	184.8	70	67.6	0.1	32.5	57.7	28.5	21.9	11.5	28.3	20.4	51.1	36.6	3.8	12.5	21.1	21.6	10.4	22.9	26.3	59.8	45.9	-	-	-	5.2	23.1	
17 GK 3102	28.8	-	15.8	64.9	23.7	13.7	-	10.9	-	15.2	11.7	5.4	26.7	33.6	-	23.9	-	-	46.2	15.2	9.9	57.7	27.7	20.6	-	-	5.8	10.8	
18 DMH 7705	11.9	47.9	20.4	76.3	7.3	30	27.7	22.4	34.3	14.6	10.9	20.3	54.2	22.1	21.8	48.5	1.3	-	-	21.1	35.8	19.4	44.5	16.3	-	12.7	13.4	19.3	
19 DAS-MH-102	20.6	85.4	36	-	19.8	23.3	28.7	23.6	21.8	15.6	18.1	18.6	50.8	26.3	-	-	14.7	23.9	30.5	16.9	50.9	55.9	66.9	-	5.4	-	20.6	20.7	
20 CMH10-500	8.2	169.1	46.3	43.1	7.8	-	-	-	-	-	56.3	21	5.4	-	28.2	34.3	-	0.5	3.2	8.9	12.8	13.1	33.4	-	-	-	-	6.5	
21 CMH09-464	11.7	109.9	35	61.8	-	10	39.2	12.2	31.4	29.6	38.1	32.9	50.6	30.3	8.1	27.7	12.2	2.6	0.4	19.9	29.7	20.1	55.6	-	-	13.2	13.1	20.3	
22 CMH08-381(G)	2.1	44.7	12.2	58.6	-	-	-	-	5.4	-	78.7	39.8	-	50.3	-	-	-	-	6.4	-	2.6	10.9	63.8	-	-	-	2.8	-	
23 CMH08-381	0.2	174.5	41.6	71.3	-	-	14.9	-	18.4	31.2	74.6	40.3	16.3	47.5	15.3	68.3	-	-	27.3	25.9	7.4	65.8	52.9	-	-	3.1	5.6	18.8	
24 Bisco 2324 Plus	41.4	26.1	37.8	57.5	-	-	25.1	1.8	3.1	21.8	10.3	11.6	27	30.9	13.6	34.7	3.6	5.5	48.7	22.8	18	21.6	30.2	17.1	-	5.1	10	15.8	
25 B-54	10.4	75.2	25.8	53.4	-	11.1	29.1	10.7	-	10.5	21.5	7.7	17.2	-	0.1	50.5	-	3.7	8.2	7.9	-	8.1	29.3	-	-	0.8	-	7.2	
26 B-161	14.6	75.2	29	43.7	1.4	-	23.6	4.4	-	20.3	5.1	6.7	31.7	-	-	20.1	-	13.5	9.1	5.4	-	50	26.3	-	0.9	14.4	8.4	8.1	
27 CP 333	-	190.8	43.7	7.9	1.7	7.6	27.1	10.5	28.5	10	14.7	18	59.9	-	27.3	14.1	10	10.9	-	16.7	40.4	83.6	64.1	4.6	28	6.9	31.8	21.7	
28 Filler	-	30	2.9	-	-	-	-	-	-	13.7	-	8.4	7	7.1	-	-	-	-	6.3	31	-	9.7	13.5	22.3	-	-	-	-	
CHECKS																													
29 PMH 1	27.7	68.7	37.4	40.7	-	18.8	11.7	8.2	18.6	25.9	27.8	24	51.4	14.2	-	23.7	19.5	2.9	7.2	16.3	37.8	16.5	60.4	-	-	5.1	8.5	16.1	
30 PMH 3	31.7	73.7	41.7	74.4	12.6	27.6	34.9	24.7	-	41.8	43.7	24.6	41.8	33.6	-	13.4	-	4.8	56.4	18.9	9.1	46.7	27.8	51.3	-	-	20.8	23.1	
31 SeedTech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 Bio 9681	15	134.3	43.3	17.5	-	3	31.6	8.9	1.2	15.9	-	4.7	12.9	1.7	-	22.5	-	-	11.2	3.3	10	55.4	32.5	-	-	-	1.4	7.3	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 21%): DELH 21.5 %

## B172

TABLE No. 5 (Cont..)

SI No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9681																											
	ZN 1				ZN 2				ZN 3				ZN 4								ZN 5		OV'L					
	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	UDAI	MEAN	MEAN
1 X35A187	9	-	-	34.5	-	29.5	-	9.7	31.9	-	18.9	11.7	32.2	19.2	11	-	9.8	24.1	20.3	12.4	27	-	31.8	75.3	-	5.5	18.9	10.9
2 X35A180	30.8	6	21.2	29.8	9.3	12.5	-	7.7	18.2	21.1	44	26.8	50.9	47.5	32.2	-	4.2	3.8	22.9	21	34.5	-	37.3	63.1	15.4	9.9	26.7	21
3 S6668	-	2.3	-	50.7	-	11.8	5	6.2	5	0.5	41.3	13.9	15.4	37.6	66.2	18.4	-	32.2	21.4	27.6	24.6	5.1	-	59	-	23.5	15.5	16.1
4 PRO-385	29.9	-	11.8	31.7	-	20.5	21.3	14.4	15.7	1.2	22.3	12.3	43	31.8	57.8	25.5	0.6	32.9	31.6	32.8	28.2	-	11.9	110.8	5.7	-	22.5	22
5 PRO-384	-	21	7.6	45.7	-	1.6	7.1	1.2	39.9	-	51	23.5	20.5	36.9	15.6	-	20.8	12.7	15.4	14.7	24.1	10.4	19.8	-	-	-	-	9.6
6 PFMH-97157(AMAR)	30.1	32.6	31.1	6.4	0.2	15.4	-	6.1	-	0.4	38.7	10	46.1	27.4	14	-	27.3	10.2	22.5	18.8	50.5	-	35.4	117.1	3.2	5.2	31.8	19.7
7 P4546	3.7	-	-	3	-	8.5	-	-	19.6	-	32.5	15.7	33.9	47	29.2	2.9	8.4	10.4	16.2	21.3	51.2	-	19.8	73.3	-	12.3	24.8	14.3
8 Filler	-	2.9	-	3.6	-	-	-	-	-	-	1.3	-	-	0.3	10.4	-	-	-	-	-	-	-	-	33.7	-	-	-	-
9 Orbit	32.7	-	4.3	21.6	-	20.8	6	8.4	50.3	8.5	28.3	28.4	47.5	25.3	59	-	13.2	-	16.1	19	18.3	-	23	-	-	-	-	11.7
10 NMH-1247	23.2	-	-	-	4.7	11.8	-	5.7	-	-	6.7	-	21.7	5	27.2	0.4	17.1	17.4	-	10	1.6	-	23.1	72.9	42.5	-	21.5	8
11 MCH 46	1.4	28.6	12	-	21.2	24.2	-	7.5	-	13.6	44.1	15.2	27.1	41.5	22.1	37.7	3.1	14	25.5	26.5	44.6	6.3	28.5	74	5.4	-	25.2	19.8
12 MCH 45	13.2	35.7	21.9	0.9	-	-	-	-	24.1	2.7	9.7	12	30.5	10.3	6.7	18.9	10.9	2.8	25.8	15	22.3	10.3	29.4	-	2.6	-	2	9
13 Laxmi 333(L333)	14.4	-	-	57.7	-	10.7	-	-	-	16.6	14.1	6.5	29.1	25.4	38.4	4.5	9.2	20.8	19.7	20.6	17.6	-	15.8	-	0.8	12.6	1.4	7.7
14 HTMH 5402	17.8	-	9.1	19.1	-	-	-	-	22.4	-	13.4	7.6	12.9	31.1	15.2	0.4	7	19.7	19.9	15	19.8	1.1	22.1	116.9	-	4.8	21.9	11.5
15 HTMH 5106	5.7	11.6	8	-	0.7	18.5	-	3.3	22.2	2	18.5	13.6	37.6	23.7	45.2	28.2	25.6	8.1	-	22.8	34.8	-	1.4	130.4	-	2.9	21.7	16.3
16 GK 3103	16.8	21.5	18.6	42.7	0.8	28.6	19.8	18.1	20.5	-	32.7	15.1	33.8	34.3	29.7	-	24.8	22.9	-	19	14.7	2.8	10.1	22.5	-	-	3.8	14.8
17 GK 3102	12	-	-	40.3	24.6	10.4	-	1.8	-	-	15.6	0.7	12.2	31.4	15.5	1.2	-	-	31.4	11.5	-	1.5	-	92.5	-	-	4.3	3.3
18 DMH 7705	-	-	-	50	8.1	26.2	-	12.4	32.7	-	14.7	15	36.5	20.1	52.1	21.2	4.4	-	-	17.2	23.4	-	9.1	85.6	-	14.7	11.8	11.2
19 DAS-MH-102	4.9	-	-	-	20.7	19.7	-	13.5	20.4	-	22.2	13.3	33.5	24.2	21.2	-	18.2	25.2	17.3	13.1	37.1	0.3	25.9	52.4	14.9	-	18.9	12.5
20 CMH10-500	-	14.8	2.1	21.8	8.6	-	-	-	-	-	61.7	15.6	-	-	60.1	9.7	-	1.6	-	5.4	2.5	-	0.7	39	-	-	-	-
21 CMH09-464	-	-	-	37.7	-	6.7	5.8	3.1	29.9	11.8	42.8	27	33.3	28.1	35.1	4.2	15.7	3.7	-	16.1	17.9	-	17.4	28.9	0.7	15.1	11.5	12.2
22 CMH08-381(G)	-	-	-	35	-	-	-	-	4.1	-	84.8	33.5	-	47.8	12.7	-	1.9	-	-	-	-	-	23.6	-	2.8	-	1.3	-
23 CMH08-381	-	17.2	-	45.8	-	-	-	-	17	13.2	80.6	34.1	3	45.1	44	37.4	3	-	14.4	21.8	-	6.7	15.4	6.9	-	4.9	4.1	10.8
24 Bisco 2324 Plus	22.9	-	-	34	-	-	-	-	1.9	5.1	14.1	6.6	12.4	28.8	41.8	10	6.8	6.6	33.6	18.8	7.2	-	-	86.9	-	6.9	8.5	8
25 B-54	-	-	-	30.5	-	7.8	-	1.7	-	-	25.7	2.9	3.8	-	25	22.9	-	4.9	-	4.5	-	-	-	9.2	-	2.6	-	-
26 B-161	-	-	-	22.3	2.1	-	-	-	-	3.8	8.8	1.9	16.6	-	5.1	-	2.2	14.8	-	2	-	-	-	44.7	10	16.5	6.9	0.8
27 CP 333	-	24.1	0.3	-	2.4	4.4	-	1.5	27	-	18.7	12.7	41.6	-	58.9	-	13.3	12.1	-	13	27.6	18.2	23.9	67	39.5	8.8	29.9	13.5
28 Filler	-	-	-	-	-	-	-	-	12.4	-	12.1	2.3	-	-	1.5	-	-	7.5	17.8	-	-	-	-	23.5	-	-	-	-
CHECKS																												
29 PMH 1	11	-	-	19.8	-	15.3	-	-	17.3	8.6	32.2	18.4	34	12.3	21.9	1	23.1	4	-	12.6	25.2	-	21.1	-	2.2	6.9	7	8.2
30 PMH 3	14.5	-	-	48.4	13.4	23.8	2.5	14.5	-	22.3	48.6	19	25.6	31.4	19.4	-	0.8	6	40.6	15.1	-	-	-	141.5	7.4	0.7	19.1	14.7
31 SeedTech 2324	-	-	-	-	0.7	-	-	-	-	-	3.4	-	-	-	24.9	-	3.1	1.1	-	-	-	-	-	59.6	9	1.8	-	-
32 Bio 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : DELH 21.5 %

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Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																											
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L					
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
1	X35A187	63.0	52.0	57.5	50.7	53.0	55.3	53.0	53.0	54.0	52.0	49.0	51.7	53.3	48.0	54.0	46.3	64.0	57.7	51.0	53.5	53.3	44.3	55.0	50.0	53.5	54.3	51.8	53.0
2	X35A180	65.0	54.0	59.5	59.7	55.0	59.3	57.0	57.8	56.7	56.0	50.5	54.4	61.0	58.3	56.7	49.3	65.0	59.7	55.0	57.9	56.3	44.0	57.0	53.3	56.0	53.7	53.4	56.3
3	S6668	67.0	53.5	60.3	59.0	56.7	60.0	55.0	57.7	57.0	59.5	53.5	56.7	59.0	57.3	60.3	50.0	65.7	60.7	54.7	58.2	56.3	46.7	57.3	53.0	56.0	55.0	54.1	57.0
4	PRO-385	63.7	50.0	56.8	55.7	52.3	57.3	55.3	55.2	53.0	54.0	51.0	52.7	54.3	57.3	52.0	47.3	65.0	58.7	54.3	55.6	52.3	46.0	56.3	51.7	58.0	54.0	53.1	54.5
5	PRO-384	61.7	50.0	55.8	54.3	55.0	56.3	53.3	54.8	52.7	56.0	50.0	52.9	55.3	52.0	55.7	46.3	64.0	57.7	54.3	55.0	50.3	47.0	55.0	53.3	56.5	54.3	52.8	54.1
6	PFMH-97157(AMAR)	62.0	50.0	56.0	55.3	53.0	56.3	54.7	54.8	53.7	55.5	50.5	53.2	55.7	52.0	55.3	46.3	66.0	58.7	52.3	55.2	51.7	46.0	55.0	50.3	55.5	55.0	52.3	54.1
7	P4546	66.7	54.0	60.3	59.3	54.3	60.0	57.0	57.7	56.7	58.5	52.0	55.7	57.0	57.3	54.3	48.7	65.0	60.0	54.3	56.7	52.7	44.7	55.7	54.3	56.5	55.7	53.3	56.1
8	Filler	64.7	53.5	59.1	60.0	54.0	57.3	55.0	56.6	56.7	53.5	54.5	54.9	61.7	53.3	54.7	49.7	67.0	58.0	51.3	56.5	52.7	47.0	57.3	50.7	55.5	56.3	53.3	55.7
9	Orbit	61.3	50.0	55.7	53.3	55.7	55.0	55.7	54.9	53.3	53.0	50.0	52.1	57.3	53.3	53.3	47.3	66.0	58.7	51.3	55.3	55.3	46.0	55.0	56.3	57.5	55.3	54.3	54.6
10	NMH-1247	61.0	51.5	56.3	55.0	54.3	54.7	53.7	54.4	52.3	49.5	50.0	50.6	55.3	51.3	49.0	47.3	64.0	58.7	51.3	53.9	50.3	45.0	55.0	50.3	51.5	53.0	50.9	52.9
11	MCH 46	67.3	54.5	60.9	60.0	54.0	61.7	56.7	58.1	59.3	57.0	54.0	56.8	58.3	57.7	52.0	49.7	69.0	62.0	55.3	57.7	55.3	45.0	59.0	53.3	58.5	56.3	54.6	57.1
12	MCH 45	63.7	51.0	57.3	56.7	53.0	56.7	55.0	55.3	55.7	55.5	52.0	54.4	55.0	52.7	52.0	48.3	65.0	58.7	52.3	54.9	51.3	47.7	55.7	52.7	56.0	55.7	53.2	54.6
13	Laxmi 333(L333)	61.0	51.0	56.0	57.0	53.0	54.0	54.0	54.5	53.3	52.5	48.5	51.4	56.3	50.0	53.7	46.7	64.0	56.7	52.7	54.3	55.3	44.7	53.3	52.7	54.5	53.7	52.4	53.6
14	HTMH 5402	62.7	52.0	57.3	54.7	53.7	55.7	52.0	54.0	53.7	56.5	50.5	53.6	59.7	50.7	54.7	46.3	64.0	58.0	52.3	55.1	52.3	45.7	55.3	50.7	55.5	53.0	52.1	54.1
15	HTMH 5106	64.7	53.0	58.8	56.0	54.0	57.0	56.0	55.8	57.3	58.5	53.0	56.3	63.7	53.7	50.3	48.7	66.0	59.0	53.7	56.4	54.3	44.3	57.3	50.7	56.5	55.0	53.0	55.6
16	GK 3103	61.0	50.0	55.5	54.3	53.0	54.7	53.3	53.8	54.3	55.0	50.0	53.1	56.3	51.3	52.0	47.7	65.0	58.3	51.7	54.6	52.3	45.0	55.0	55.0	56.0	53.3	52.8	53.8
17	GK 3102	63.3	52.0	57.7	56.3	55.0	55.7	56.0	55.8	55.0	55.5	52.5	54.3	57.7	58.0	53.7	48.3	65.0	58.3	54.0	56.4	52.3	44.0	56.3	50.0	55.5	55.0	52.2	55.0
18	DMH 7705	59.7	54.0	56.8	59.3	54.3	57.3	56.3	56.8	58.0	57.5	54.5	56.7	60.7	54.3	51.3	49.3	67.0	58.7	54.7	56.6	53.3	47.0	57.3	50.7	58.0	55.0	53.6	55.8
19	DAS-MH-102	61.0	51.0	56.0	54.7	52.7	54.3	52.3	53.5	51.7	57.0	49.5	52.7	58.7	54.7	50.7	47.3	65.0	59.0	51.7	55.3	53.3	44.7	55.3	51.7	53.0	53.3	51.9	53.8
20	CMH10-500	65.7	56.0	60.8	60.3	56.0	-	58.3	58.2	57.3	-	53.5	55.4	59.0	54.3	53.7	50.3	67.0	62.0	55.0	57.3	55.3	46.3	59.0	52.0	57.0	56.7	54.4	56.7
21	CMH09-464	63.3	52.5	57.9	56.0	54.0	57.3	56.0	55.8	55.7	56.0	49.5	53.7	55.7	50.7	51.0	48.3	64.0	58.0	52.3	54.3	55.3	46.0	55.3	50.7	56.0	53.7	52.8	54.4
22	CMH08-381(G)	65.0	55.5	60.3	57.3	55.3	-	57.0	56.6	57.0	-	52.0	54.5	-	57.7	51.3	-	64.3	60.7	54.0	57.6	55.3	45.7	59.3	51.3	58.5	55.0	54.2	56.2
23	CMH08-381	65.3	54.5	59.9	57.0	56.7	-	56.7	56.8	55.7	57.0	53.0	55.2	58.0	57.7	52.7	51.0	66.0	59.7	54.3	57.0	55.3	48.3	58.3	54.7	54.0	54.3	54.2	56.2
24	Bisco 2324 Plus	61.0	52.0	56.5	56.7	53.0	55.7	54.0	54.8	52.3	55.0	49.0	52.1	53.7	51.3	53.0	48.0	65.0	57.3	50.7	54.1	54.3	43.7	55.3	52.0	53.5	54.0	52.1	53.7
25	B-54	62.7	47.5	55.1	55.0	51.0	55.0	53.7	53.7	53.3	52.0	49.5	51.6	54.3	48.0	51.3	45.0	64.0	56.7	50.3	52.8	49.3	44.7	55.0	48.3	51.5	54.7	50.6	52.4
26	B-161	62.0	50.5	56.3	53.0	52.3	55.0	53.7	53.5	51.3	52.0	48.5	50.6	51.7	48.7	52.3	45.7	65.0	56.0	50.3	52.8	50.3	46.0	55.0	47.3	53.5	53.3	50.9	52.4
27	CP 333	64.0	52.0	58.0	57.3	55.0	55.3	56.3	56.0	55.3	58.0	52.5	55.3	58.3	52.0	52.7	49.0	65.0	59.3	54.7	55.9	52.3	46.3	55.0	50.3	55.0	56.0	52.5	55.1
28	Filler	64.7	52.5	58.6	58.3	55.0	58.3	56.7	57.1	55.0	56.5	51.0	54.2	56.3	52.0	54.0	48.3	65.0	58.0	53.7	55.3	54.3	46.0	57.0	53.3	58.0	55.0	53.9	55.4
CHECKS																													
29	PMH 1	62.0	52.5	57.3	56.3	57.7	56.3	55.7	56.5	55.7	55.0	52.5	54.4	58.3	51.3	53.0	48.0	64.0	57.7	50.7	54.7	53.3	46.0	55.0	52.3	55.0	54.0	52.6	54.7
30	PMH 3	65.0	53.0	59.0	59.0	54.3	57.7	56.3	56.8	55.3	55.0	52.5	54.3	57.7	52.7	51.3	48.7	64.0	59.0	52.0	55.0	54.3	47.7	57.0	52.0	57.0	55.3	53.9	55.3
31	SeedTech 2324	64.3	53.0	58.7	59.0	57.0	57.7	55.0	57.2	56.0	54.5	51.5	54.0	59.0	55.0	52.3	49.0	66.0	58.3	52.3	56.0	53.3	45.3	57.3	49.3	56.5	55.3	52.9	55.3
32	Bio 9681	61.0	52.0	56.5	53.7	51.0	52.7	52.7	52.5	51.7	52.5	46.0	50.1	53.7	48.7	53.3	44.0	64.0	55.3	50.3	52.8	48.0	46.7	52.7	49.7	51.5	54.0	50.4	52.0
	Loc. Mean	63.3	52.2	57.8	56.6	54.2	56.5	55.1	55.6	54.9	55.2	51.1	53.7	57.2	53.2	53.1	47.9	65.2	58.6	52.8	55.5	53.2	45.7	56.1	51.7	55.5	54.6	52.8	54.7
	C.D. (5%)	3.99	2.99	2.49	3.01	0.85	2.20	2.43	1.72	2.24	4.16	2.38	2.04	6.01	0.95	1.65	1.93	0.37	1.21	1.69	1.79	0.74	1.34	0.70	4.27	3.32	1.26	1.56	0.86
	C.V. (%)	3.86	2.81	2.11	3.26	0.96	2.26	2.70	2.20	2.50	3.57	2.29	2.32	6.34	1.10	1.91	2.42	0.35	1.27	1.96	3.05	0.86	1.80	0.76	5.06	2.93	1.41	2.59	2.64
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	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

## B174

Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																											
		ZN 1								ZN 2				ZN 3				ZN 4								ZN 5		OV'L	
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
1	X35A187	65.3	55.0	60.2	56.3	55.7	57.3	55.7	56.3	55.0	55.5	52.5	54.3	56.7	50.7	55.3	48.0	65.0	59.0	53.7	55.5	56.3	47.3	55.7	71.3	56.0	56.3	57.2	56.3
2	X35A180	67.7	57.0	62.3	62.0	57.0	60.7	59.7	59.8	58.7	59.5	53.5	57.2	62.0	60.3	59.0	50.0	66.0	62.3	58.7	59.8	59.3	47.3	58.7	73.7	60.0	55.7	59.1	59.5
3	S6668	70.0	56.0	63.0	61.7	59.0	62.0	57.7	60.1	58.7	62.5	58.0	59.7	60.7	60.7	63.0	50.7	66.7	63.0	57.7	60.3	59.7	50.3	57.3	64.7	60.0	57.3	58.2	59.9
4	PRO-385	66.0	53.5	59.8	60.0	54.7	59.3	56.7	57.7	55.7	58.0	55.5	56.4	56.3	60.0	54.3	49.0	66.0	62.0	58.3	58.0	55.3	49.0	58.7	64.0	60.5	56.3	57.3	57.7
5	PRO-384	63.7	53.5	58.6	56.3	57.7	58.3	55.3	56.9	54.0	60.0	53.0	55.7	56.7	54.0	57.7	47.7	65.0	60.7	57.3	57.0	53.0	49.7	57.0	66.3	59.0	56.7	56.9	56.9
6	PFMH-97157(AMAR)	65.0	54.5	59.8	60.7	55.3	58.0	57.0	57.8	55.7	55.0	55.0	55.2	56.7	54.0	58.3	48.3	67.0	61.3	56.3	57.4	54.7	49.3	57.0	71.7	58.5	57.0	58.0	57.6
7	P4546	68.7	59.0	63.8	62.7	56.3	62.0	58.7	59.9	58.7	62.0	56.5	59.1	58.3	60.3	56.3	49.7	66.0	62.0	56.0	58.4	56.0	48.0	55.7	74.3	58.5	57.7	58.4	59.2
8	Filler	66.7	56.5	61.6	62.0	56.3	59.3	57.0	58.7	58.3	58.5	58.5	58.4	61.3	55.7	57.0	50.0	68.0	60.7	54.7	58.2	55.7	50.0	57.7	71.3	58.0	58.3	58.5	58.7
9	Orbit	63.7	54.0	58.8	57.0	57.7	57.0	57.0	57.2	55.7	56.5	54.5	55.6	62.0	55.7	55.7	50.0	67.0	60.7	55.3	58.0	58.3	49.3	57.0	68.7	60.5	57.3	58.5	57.8
10	NMH-1247	63.3	54.5	58.9	57.7	57.3	56.0	56.3	56.8	54.0	53.5	53.0	53.5	55.3	53.3	51.0	49.7	65.0	60.0	54.0	55.5	53.0	48.3	55.3	70.0	55.0	55.3	56.2	56.0
11	MCH 46	69.3	57.0	63.2	64.7	56.7	63.3	59.0	60.9	61.0	60.5	58.0	59.8	60.0	61.0	54.7	52.3	71.0	63.7	58.3	60.1	58.3	48.0	59.3	73.0	60.5	58.3	59.6	60.4
12	MCH 45	66.3	54.0	60.2	59.3	55.0	58.7	57.0	57.5	56.7	58.5	56.0	57.1	57.7	55.0	54.0	49.7	66.0	61.3	57.0	57.2	54.3	51.0	57.3	63.3	58.0	57.7	56.9	57.4
13	Laxmi 333(L333)	63.0	54.5	58.8	55.7	55.7	55.3	56.3	55.8	54.3	56.5	52.5	54.4	58.0	52.0	56.3	48.0	65.0	58.7	55.3	56.2	58.3	48.0	55.3	74.0	57.0	55.7	58.1	56.6
14	HTMH 5402	65.3	55.0	60.2	56.7	55.7	57.3	55.3	56.3	54.7	59.5	54.0	56.1	61.0	52.7	58.0	48.0	65.0	60.3	56.0	57.3	56.7	49.0	55.7	63.0	58.0	55.0	56.2	56.9
15	HTMH 5106	67.0	56.0	61.5	59.0	56.3	58.3	58.7	58.1	59.3	61.5	56.5	59.1	62.7	56.0	52.7	49.7	67.0	62.0	56.0	58.0	57.3	47.7	58.7	62.0	59.0	57.0	56.9	58.2
16	GK 3103	64.0	54.0	59.0	57.7	55.3	56.0	55.7	56.2	56.0	59.0	54.5	56.5	58.3	53.3	54.0	49.0	66.0	60.7	55.7	56.7	55.3	48.3	55.3	66.0	58.5	55.3	56.5	56.7
17	GK 3102	65.7	56.0	60.8	59.3	57.0	57.7	58.0	58.0	56.3	59.0	56.5	57.3	58.7	60.7	55.7	49.3	66.0	62.0	56.3	58.4	55.3	47.3	57.0	71.0	58.0	57.0	57.6	58.2
18	DMH 7705	68.3	57.0	62.7	63.7	57.0	59.0	58.7	59.6	59.7	61.0	58.5	59.7	60.0	57.3	53.3	49.7	68.0	62.0	56.7	58.1	56.3	50.0	59.0	71.0	60.5	57.0	59.0	59.3
19	DAS-MH-102	63.7	54.0	58.8	57.0	55.0	55.3	55.0	55.6	53.0	60.5	54.0	55.8	59.3	57.0	52.7	48.0	66.0	62.0	54.3	57.0	57.0	47.7	57.0	62.7	56.0	55.3	55.9	56.5
20	CMH10-500	67.7	59.0	63.3	61.0	58.3	-	60.7	60.0	59.0	-	58.5	58.8	59.0	56.3	55.3	51.0	68.0	65.0	58.0	59.0	58.3	49.7	59.0	64.0	62.0	58.7	58.6	59.4
21	CMH09-464	66.0	55.5	60.8	59.3	56.7	59.3	58.3	58.4	57.3	59.0	54.0	56.8	57.3	53.0	53.7	49.0	65.0	60.3	55.0	56.2	58.3	49.0	57.0	71.3	58.0	55.7	58.2	57.6
22	CMH08-381(G)	67.0	57.5	62.3	61.3	57.7	-	59.3	59.4	58.0	-	56.0	57.0	-	59.7	53.3	-	65.3	62.3	57.0	59.5	58.7	49.0	60.0	71.7	60.5	57.0	59.5	59.5
23	CMH08-381	68.0	57.0	62.5	61.3	59.0	-	59.0	59.8	57.0	60.5	57.0	58.2	58.3	59.7	54.7	51.3	67.0	62.0	58.3	58.8	58.3	51.3	58.7	66.0	57.0	56.3	57.9	58.9
24	Bisco 2324 Plus	63.7	54.0	58.8	59.3	55.0	57.7	56.3	57.1	54.3	58.5	53.0	55.3	55.0	53.3	55.0	49.0	66.0	59.0	54.7	56.0	57.7	47.0	55.7	72.0	57.5	56.0	57.6	56.8
25	B-54	65.3	53.0	59.2	57.3	53.3	57.0	56.0	55.9	55.3	55.5	54.5	55.1	56.0	50.3	55.0	47.7	65.0	59.7	53.3	55.3	52.0	48.3	57.0	70.0	55.0	56.7	56.5	56.1
26	B-161	64.3	54.5	59.4	56.3	55.0	57.0	55.7	56.0	53.3	56.5	53.5	54.4	54.0	51.0	54.0	47.7	66.0	58.7	52.7	54.9	53.0	49.3	55.0	69.0	56.0	56.3	56.4	55.9
27	CP 333	66.7	54.0	60.3	59.0	57.3	57.0	58.3	57.9	56.3	61.5	55.5	57.8	58.3	54.0	54.3	49.0	66.0	61.3	59.3	57.5	55.7	49.7	56.0	62.7	57.0	58.0	56.5	57.6
28	Filler	66.7	54.5	60.6	63.7	57.3	60.3	58.3	59.9	56.7	59.5	54.5	56.9	57.3	55.0	56.0	48.7	66.0	59.3	56.0	56.9	57.0	49.0	58.3	65.0	-	57.0	57.3	57.9
CHECKS																													
29	PMH 1	64.3	55.0	59.7	62.0	60.0	58.3	58.3	59.7	57.7	58.5	56.5	57.6	57.0	53.3	56.7	49.0	65.0	59.3	55.3	56.5	56.3	49.3	55.0	64.7	58.5	56.0	56.6	57.6
30	PMH 3	67.0	56.0	61.5	62.7	56.3	59.7	58.3	59.3	57.3	58.0	57.0	57.4	58.3	55.0	53.7	49.3	65.0	62.0	55.7	57.0	57.3	50.7	59.0	72.3	59.0	57.3	59.3	58.5
31	SeedTech 2324	66.3	55.5	60.9	64.3	59.3	59.7	57.3	60.2	57.7	58.5	55.0	57.1	60.0	57.3	54.3	50.0	67.0	60.3	55.7	57.8	56.3	48.3	58.7	68.7	59.0	57.3	58.1	58.5
32	Bio 9681	63.0	55.0	59.0	54.7	53.3	53.7	55.0	54.2	53.3	56.5	50.5	53.4	54.3	50.7	55.7	46.7	65.0	57.3	52.3	54.6	50.7	49.7	52.3	72.0	54.5	57.0	56.0	55.1
	Loc. Mean	65.9	55.4	60.6	59.7	56.5	58.3	57.4	58.0	56.5	58.7	55.2	56.8	58.3	55.6	55.3	49.2	66.2	61.0	56.0	57.4	56.3	48.9	57.1	68.5	58.2	56.7	57.6	57.8
	C.D. (5%)	2.07	2.61	1.98	3.26	1.00	2.39	1.97	1.79	2.23	4.61	2.34	2.13	5.44	1.04	1.92	1.52	0.37	1.38	1.94	1.82	1.17	1.31	0.72	12.32	3.21	1.25	2.38	1.00
	C.V. (%)	1.93	2.31	1.60	3.34	1.08	2.38	2.11	2.20	2.41	3.72	2.08	2.30	5.63	1.14	2.12	1.87	0.35	1.39	2.13	3.01	1.28	1.64	0.77	11.02	2.65	1.34	3.61	2.92
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.03	0.00

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Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																									
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L							
		BAJA	KANG	Mean	DELH	KARN	LUDH	Mean	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
1	X35A187	107.3	96.5	101.9	103.7	82.7	93.7	93.3	83.0	97.0	82.5	87.5	94.0	104.0	78.3	96.0	98.3	106.3	96.2	90.0	76.3	94.3	79.7	87.5	86.3	85.7	91.9
2	X35A180	109.7	97.5	103.6	107.0	85.0	96.0	96.0	85.7	97.0	83.5	88.7	105.0	107.3	77.7	97.3	97.7	108.7	98.9	92.3	79.7	94.7	82.3	90.5	87.3	87.8	94.1
3	S6668	115.7	96.5	106.1	116.0	85.0	95.3	98.8	85.3	102.5	91.5	93.1	104.3	108.7	86.3	98.3	100.0	109.7	101.2	95.3	79.3	96.0	80.3	88.5	88.7	88.0	96.2
4	PRO-385	105.7	95.0	100.3	103.7	83.7	93.7	93.7	83.7	98.0	87.0	89.6	104.3	105.7	78.0	96.3	98.3	110.3	98.8	89.7	79.3	93.7	81.7	93.5	86.7	87.4	93.4
5	PRO-384	102.3	95.0	98.7	106.3	83.7	90.3	93.4	81.7	97.0	85.5	88.1	97.3	108.0	78.3	97.3	98.7	110.0	98.3	86.7	81.8	91.7	83.0	89.0	86.7	86.5	92.5
6	PFMH-97157(AMAR)	114.3	96.0	105.2	101.7	84.3	95.3	93.8	85.7	97.0	91.5	91.4	96.3	108.3	75.7	95.0	97.3	110.7	97.2	96.0	81.0	97.3	81.3	89.5	87.3	88.8	94.1
7	P4546	114.3	99.0	106.7	117.0	84.7	96.7	99.4	85.3	99.5	89.0	91.3	104.3	105.7	80.7	97.7	100.7	109.7	99.8	93.3	79.0	97.0	82.7	87.5	88.0	87.9	95.6
8	Filler	111.7	97.0	104.3	113.7	84.3	94.7	97.6	83.3	99.0	89.5	90.6	99.3	105.3	82.7	96.7	98.0	107.7	98.3	91.7	81.3	94.3	79.0	88.5	88.3	87.2	94.3
9	Orbit	110.3	95.0	102.7	102.0	84.0	94.0	93.3	85.7	96.5	90.0	90.7	97.3	105.7	77.3	95.0	102.0	109.7	97.8	95.0	81.0	96.0	84.7	91.0	87.0	89.1	94.0
10	NMH-1247	106.0	95.5	100.8	98.0	84.3	89.3	90.6	81.0	92.5	82.5	85.3	96.3	99.7	77.7	95.0	97.0	110.3	96.0	87.3	77.7	93.0	79.7	87.5	86.7	85.3	90.9
11	MCH 46	115.7	98.0	106.8	108.7	83.7	97.0	96.4	85.7	100.0	90.0	91.9	104.7	104.7	88.7	97.7	101.7	109.3	101.1	96.0	74.0	98.7	79.7	94.5	89.7	88.8	95.9
12	MCH 45	113.7	95.5	104.6	100.0	82.0	91.0	91.0	86.0	96.5	84.0	88.8	99.7	104.0	80.0	98.3	100.3	110.3	98.8	91.7	81.7	96.0	81.0	89.5	85.7	87.6	93.3
13	Laxmi 333(L333)	106.0	95.5	100.8	102.0	82.3	90.7	91.7	82.3	92.5	80.5	85.1	95.0	107.3	79.3	96.3	98.7	106.7	97.2	91.3	80.3	91.7	81.0	89.0	87.0	86.7	91.8
14	HTMH 5402	110.0	96.0	103.0	109.7	83.0	96.0	96.2	83.0	93.5	87.5	88.0	96.0	108.3	81.3	96.3	101.0	109.3	98.7	91.3	82.0	96.3	82.0	90.5	86.3	88.1	94.0
15	HTMH 5106	105.7	96.5	101.1	108.0	81.7	90.3	93.3	86.3	101.0	83.0	90.1	98.0	102.7	79.3	97.0	99.0	108.0	97.3	87.3	78.3	97.3	79.7	89.0	87.3	86.5	92.8
16	GK 3103	109.7	95.5	102.6	106.7	84.3	92.3	94.4	84.7	97.0	89.0	90.2	96.0	104.0	76.7	97.3	98.3	108.0	96.7	92.7	80.0	96.0	82.0	93.0	88.0	88.6	93.6
17	GK 3102	111.0	95.5	103.3	111.0	83.7	93.0	95.9	82.3	100.5	89.5	90.8	105.0	105.7	77.7	95.0	97.7	110.0	98.5	82.3	78.3	91.3	79.7	87.0	88.7	84.6	93.2
18	DMH 7705	106.7	98.0	102.3	117.0	84.3	88.3	96.6	86.3	99.0	92.5	92.6	100.0	103.3	82.3	96.0	102.3	109.3	98.9	91.3	80.0	94.7	79.3	91.5	87.7	87.4	94.5
19	DAS-MH-102	112.7	95.0	103.8	104.3	85.0	94.7	94.7	82.3	99.5	90.0	90.6	100.0	102.7	75.0	96.7	101.0	108.7	97.3	95.3	76.0	97.7	80.0	87.5	86.3	87.1	93.5
20	CMH10-500	112.7	99.0	105.8	114.0	85.0	-	99.5	71.7	-	93.0	82.3	99.7	105.3	75.7	97.0	100.0	109.0	97.8	91.7	80.3	96.7	80.7	91.0	89.0	88.2	94.0
21	CMH09-464	106.3	96.0	101.2	106.7	81.7	90.7	93.0	84.0	98.0	84.0	88.7	96.0	103.7	75.3	96.0	96.7	107.7	95.9	90.0	79.0	89.3	80.7	93.0	87.0	86.5	92.1
22	CMH08-381(G)	111.7	98.5	105.1	113.3	85.3	-	99.3	84.7	-	91.0	87.8	104.7	103.3	-	97.3	97.7	109.7	102.5	90.3	80.7	94.7	80.0	90.5	88.3	87.4	95.4
23	CMH08-381	111.7	98.0	104.8	113.0	84.0	-	98.5	83.7	98.0	93.5	91.7	104.3	105.3	76.3	95.7	99.3	108.3	98.2	91.3	81.0	94.0	81.0	89.0	88.0	87.4	94.5
24	Bisco 2324 Plus	106.0	95.0	100.5	113.0	81.7	91.3	95.3	81.0	97.0	83.0	87.0	96.0	104.7	79.0	95.3	97.0	108.7	96.8	86.7	78.3	92.3	80.0	89.0	88.3	85.8	92.2
25	B-54	110.0	95.0	102.5	113.3	81.0	95.7	96.7	81.7	97.0	88.0	88.9	94.3	104.3	78.0	96.3	99.0	107.3	96.6	88.7	79.0	94.3	78.3	88.0	86.7	85.8	92.8
26	B-161	107.7	96.0	101.8	115.3	84.0	94.7	98.0	82.0	96.5	85.0	87.8	95.0	104.0	81.0	95.3	97.0	107.0	96.6	90.3	78.3	93.7	79.7	91.0	87.7	86.8	93.1
27	CP 333	110.0	95.0	102.5	104.3	83.7	93.7	93.9	85.3	99.0	87.0	90.4	96.3	104.3	83.3	97.7	99.3	110.3	98.6	89.3	80.7	92.7	79.7	88.0	88.3	86.4	93.4
28	Filler	111.0	95.5	103.3	116.7	83.7	94.7	98.3	83.3	98.5	92.0	91.3	97.3	108.7	78.3	96.0	99.3	109.7	98.2	86.7	80.7	94.3	81.0	-	89.0	86.3	94.5
CHECKS																											
29	PMH 1	101.0	96.0	98.5	107.0	81.0	90.0	92.7	83.3	96.5	85.5	88.4	96.0	108.7	75.3	96.3	96.7	109.7	97.1	86.0	78.7	88.7	81.0	90.0	87.7	85.3	91.8
30	PMH 3	106.7	97.0	101.8	116.3	83.7	91.3	97.1	83.0	94.5	89.5	89.0	98.7	104.7	77.7	94.7	97.0	109.0	96.9	82.3	81.7	94.0	80.3	90.0	87.7	86.0	93.0
31	SeedTech 2324	114.0	96.5	105.3	112.3	84.3	93.0	96.6	83.3	98.5	88.0	89.9	100.0	104.3	82.3	96.3	97.0	109.3	98.2	91.0	80.0	94.3	78.3	90.5	88.3	87.1	94.1
32	Bio 9681	101.0	95.5	98.3	110.7	79.0	86.0	91.9	78.0	95.5	80.0	84.5	94.3	105.7	78.0	95.3	96.0	107.0	96.1	86.0	80.7	88.7	80.7	87.0	87.7	85.1	90.6
Loc. Mean		109.3	96.3	102.8	109.1	83.4	92.9	95.3	83.3	97.5	87.4	89.1	98.9	105.3	79.1	96.4	98.8	108.9	98.0	90.2	79.6	94.2	80.6	89.7	87.6	87.0	93.5
C.D. (5%)		3.20	2.02	5.36	9.91	1.21	2.55	5.49	7.20	4.01	4.62	5.08	0.90	1.98	2.60	1.93	2.50	2.58	3.06	3.36	1.75	0.87	3.09	6.05	1.99	2.34	1.56
C.V. (%)		1.80	1.03	2.55	5.57	0.89	1.60	3.53	5.30	1.95	2.59	3.49	0.56	1.15	1.98	1.22	1.55	1.45	2.74	2.28	1.35	0.56	2.35	3.25	1.39	2.36	2.69
F (Prob)		0.00	0.00	0.12	0.00	0.00	0.00	0.03	0.23	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.07	0.61	0.03	0.00	0.00

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Table No. 5 (Continued)

S.No. PEDIGREE		STAND AT HARVEST ('000/ha)																										OV'L		
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5								
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean	
1	X35A187	60.6	73.6	67.1	66.4	61.9	70.2	55.6	63.5	94.4	63.0	83.3	80.3	60.6	66.3	52.5	50.6	65.3	61.3	58.7	59.3	69.4	61.8	58.1	60.1	62.0	62.5	62.3	64.5	
2	X35A180	62.2	72.9	67.6	62.8	61.7	75.0	56.7	64.0	117.2	66.7	83.3	89.1	56.1	66.0	57.2	56.1	65.8	59.2	60.1	60.1	68.6	62.2	65.0	62.2	57.3	65.6	63.5	66.4	
3	S6668	67.8	75.7	71.7	67.5	61.4	73.7	55.6	64.5	88.9	63.5	82.8	78.4	58.6	66.3	60.8	55.8	65.3	62.5	59.4	61.3	67.5	62.2	63.1	57.3	60.4	66.0	62.7	65.5	
4	PRO-385	66.7	71.5	69.1	66.7	62.5	74.4	51.9	63.9	91.1	63.5	83.3	79.3	58.9	66.0	59.7	42.5	61.9	60.7	58.3	58.3	71.1	61.5	63.6	45.8	55.2	64.9	60.4	63.7	
5	PRO-384	62.2	74.3	68.3	65.0	62.2	69.9	53.6	62.7	105.0	56.8	82.8	81.5	54.2	65.6	50.0	47.8	66.4	60.1	55.9	57.1	66.1	62.8	61.4	37.5	60.9	64.2	58.8	62.9	
6	PFMH-97157(AMAR)	71.7	79.2	75.4	62.2	62.8	70.5	56.7	63.0	90.6	64.1	81.8	78.8	60.3	65.6	53.9	45.0	66.7	62.5	57.6	58.8	66.9	61.1	65.0	56.9	51.6	65.6	61.2	64.5	
7	P4546	61.7	73.6	67.6	67.2	61.4	71.2	53.9	63.4	98.9	66.7	76.0	80.5	60.0	66.3	61.9	45.0	66.7	62.5	56.9	59.9	63.1	62.8	63.6	61.1	59.4	63.9	62.3	64.7	
8	Filler	54.4	29.9	42.2	50.0	61.1	66.7	50.0	56.9	76.7	57.3	83.3	72.4	50.8	65.6	55.6	47.8	63.6	64.0	55.2	57.5	61.9	59.0	53.9	43.1	51.6	64.6	55.7	57.5	
9	Orbit	69.4	71.5	70.5	61.4	60.8	68.9	56.7	61.9	93.9	66.1	83.3	81.1	53.3	66.0	55.6	43.6	65.8	65.5	55.9	58.0	58.6	59.0	64.2	37.2	57.8	64.9	57.0	62.7	
10	NMH-1247	62.8	71.5	67.2	65.0	61.7	66.7	54.7	62.0	86.1	64.1	83.3	77.8	57.2	66.3	54.2	50.6	65.8	67.9	57.3	59.9	60.6	60.8	64.4	64.6	50.5	64.2	60.9	63.6	
11	MCH 46	65.0	76.4	70.7	60.0	62.2	72.1	56.7	62.8	88.9	64.6	78.6	77.4	60.3	66.3	60.6	43.6	65.6	68.2	58.3	60.4	70.0	61.5	66.4	67.7	57.3	64.9	64.6	65.2	
12	MCH 45	68.3	71.5	69.9	66.4	61.4	76.9	54.7	64.9	97.8	67.7	78.1	81.2	62.5	65.6	61.7	53.3	65.8	62.2	59.4	61.5	66.4	64.2	65.3	54.2	65.6	64.6	63.4	66.1	
13	Laxmi 333(L333)	66.1	78.5	72.3	59.7	61.7	73.4	56.1	62.7	90.6	65.6	83.3	79.8	56.1	65.6	59.4	46.9	66.7	62.8	57.3	59.3	69.7	60.1	64.4	44.1	57.8	64.2	60.1	64.1	
14	HTMH 5402	61.1	79.2	70.1	66.1	62.8	70.2	55.0	63.5	90.6	60.9	83.3	78.3	57.2	66.3	54.7	56.4	65.8	58.9	60.8	60.0	66.4	59.7	60.0	67.4	65.1	65.3	64.0	65.1	
15	HTMH 5106	75.0	79.2	77.1	64.4	61.9	75.0	55.8	64.3	83.3	66.7	80.2	76.7	64.7	66.3	61.9	45.0	63.9	64.9	58.7	60.8	69.7	62.5	63.9	71.9	67.2	64.9	66.7	66.7	
16	GK 3103	61.1	79.2	70.1	60.3	61.1	70.5	56.7	62.1	96.1	67.2	80.2	81.2	61.9	66.0	56.7	47.5	66.7	63.4	57.3	59.9	58.6	61.5	63.3	47.9	62.5	63.5	59.6	64.1	
17	GK 3102	65.0	73.6	69.3	63.3	60.3	73.4	52.5	62.4	91.1	65.6	75.0	77.2	58.9	66.7	62.2	48.3	63.3	64.0	60.4	60.5	58.9	63.2	64.2	54.5	63.5	64.2	61.4	64.2	
18	DMH 7705	68.9	73.6	71.3	63.9	61.1	66.3	56.7	62.0	85.6	57.8	81.8	75.0	55.3	65.6	55.6	46.1	61.1	56.0	57.3	56.7	63.6	61.5	54.4	55.6	69.8	65.3	61.7	62.9	
19	DAS-MH-102	51.1	76.4	63.8	63.1	60.6	68.3	56.7	62.1	100.6	66.7	79.2	82.1	58.1	66.3	53.6	43.9	64.2	64.0	55.2	57.9	64.4	59.7	63.1	68.1	55.7	63.2	62.4	63.7	
20	CMH10-500	64.4	22.9	43.7	58.3	61.9	-	53.1	57.8	78.9	-	82.8	80.9	33.6	66.3	56.9	26.7	65.0	62.8	55.9	52.5	51.9	59.0	54.7	43.4	64.6	64.6	56.4	56.4	
21	CMH09-464	62.8	73.6	68.2	61.7	60.6	70.2	53.6	61.5	81.7	62.5	82.8	75.7	51.1	66.0	56.1	40.3	64.7	58.6	56.3	56.2	60.8	62.2	61.1	53.5	71.4	66.0	62.5	62.6	
22	CMH08-381(G)	53.3	71.5	62.4	20.3	8.3	-	30.0	19.5	37.8	-	83.3	60.6	-	66.7	54.4	-	52.5	62.5	47.9	56.8	38.9	59.4	31.9	13.2	59.4	64.2	44.5	47.5	
23	CMH08-381	41.1	22.2	31.7	46.4	62.2	-	51.9	53.5	85.6	59.9	83.3	76.3	32.2	66.3	46.4	18.1	60.8	69.0	52.8	49.4	42.2	61.5	51.1	26.4	52.6	64.9	49.8	52.2	
24	Bisco 2324 Plus	61.7	75.0	68.3	64.4	61.9	74.4	56.1	64.2	84.4	67.7	78.6	76.9	57.8	66.7	55.6	50.3	64.2	64.6	58.0	59.6	65.0	61.5	63.9	65.3	62.0	64.6	63.7	64.7	
25	B-54	63.3	71.5	67.4	60.8	61.9	66.7	53.9	60.8	91.1	62.0	77.1	76.7	52.2	65.6	54.4	37.5	63.1	59.8	55.6	55.5	60.0	61.1	62.8	55.9	49.5	64.9	59.0	61.4	
26	B-161	62.8	71.5	67.2	66.4	61.7	71.8	56.1	64.0	93.9	55.2	78.1	75.7	60.8	66.7	55.3	49.2	63.9	64.3	61.8	60.3	60.3	60.4	62.5	67.4	57.3	65.3	62.2	64.2	
27	CP 333	64.4	73.6	69.0	64.2	62.2	72.4	54.2	63.2	105.0	70.8	83.3	86.4	57.2	66.3	60.0	60.6	65.0	62.2	57.6	61.3	70.3	60.8	64.4	68.8	53.1	65.3	63.8	66.4	
28	Filler	56.1	70.8	63.5	68.6	61.9	70.5	55.8	64.2	92.8	66.7	78.1	79.2	49.7	66.3	54.4	45.0	65.0	65.5	54.2	57.2	55.8	59.4	62.5	40.6	49.0	64.9	55.4	61.5	
CHECKS																														
29	PMH 1	61.7	72.2	66.9	59.4	60.8	75.3	54.4	62.5	90.6	68.8	83.3	80.9	58.1	65.6	61.4	53.6	65.6	60.1	61.5	60.8	68.3	61.5	60.0	43.4	68.2	64.6	61.0	64.5	
30	PMH 3	65.0	79.9	72.4	59.7	61.4	74.7	56.7	63.1	102.2	63.5	83.3	83.0	59.4	65.6	61.9	53.1	64.7	55.7	55.9	59.5	63.6	64.6	64.2	43.8	54.2	63.5	59.0	64.4	
31	SeedTech 2324	61.1	71.5	66.3	62.2	61.7	67.6	53.6	61.3	80.0	60.9	82.3	74.4	56.1	66.3	59.4	52.2	65.6	60.4	55.6	59.4	56.9	62.5	66.7	55.2	56.3	64.9	60.4	62.7	
32	Bio 9681	67.2	79.2	73.2	63.6	61.1	67.9	56.4	62.3	90.0	62.0	78.1	76.7	56.9	66.0	51.7	46.1	66.7	59.8	56.6	57.7	60.6	62.8	64.7	65.6	54.2	64.6	62.1	63.7	
	Loc. Mean	62.7	69.9	66.3	61.2	59.9	71.2	54.1	61.0	90.0	63.8	81.2	78.5	55.8	66.1	56.7	46.7	64.5	62.4	57.2	58.5	62.4	61.4	61.2	53.1	58.8	64.7	60.3	62.8	
	C.D. (5%)	5.97	3.57	18.63	9.21	1.76	5.69	6.06	5.23	21.82	7.95	6.95	12.93	8.34	0.76	7.13	1.93	6.12	4.38	5.14	4.53	8.92	2.67	4.80	6.38	15.01	2.99	7.31	3.65	
	C.V. (%)	5.83	2.50	13.78	9.23	1.80	4.65	6.86	6.11	14.85	5.90	4.20	10.09	9.00	0.70	7.70	2.48	5.81	4.30	5.51	7.34	8.76	2.66	4.81	7.36	12.51	2.83	10.64	9.81	
	F (Prob)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.33	0.42	0.00	0.02	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.97	0.00	0.00	

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Table No. 5 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																										OV'L	
		ZN 1						ZN 2				ZN 3				ZN 4						ZN 5							
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI		Mean
1	X35A187	83.9	82.1	83.0	85.6	63.7	87.3	82.9	79.9	80.9	84.1	77.0	80.7	80.6	83.8	79.1	84.0	84.1	79.4	83.0	82.0	80.3	68.9	82.5	78.4	84.2	84.5	79.8	80.9
2	X35A180	78.0	75.4	76.7	83.7	62.0	81.0	82.1	77.2	77.5	81.9	75.8	78.4	77.4	78.7	80.4	82.9	81.1	81.0	83.5	80.7	81.6	69.2	76.3	69.4	80.3	82.6	76.6	78.3
3	S6668	78.0	76.1	77.0	86.7	67.6	85.5	84.2	81.0	73.9	79.9	80.5	78.1	76.7	78.9	80.6	82.8	80.4	85.2	82.8	81.0	80.8	68.3	76.7	78.6	82.4	82.8	78.3	79.5
4	PRO-385	87.3	79.4	83.3	87.0	64.6	87.8	87.0	81.6	78.8	83.8	79.0	80.5	81.7	78.4	80.4	85.4	83.5	82.3	82.8	82.1	81.3	69.8	80.0	80.1	80.4	83.0	79.1	81.1
5	PRO-384	80.5	80.7	80.6	87.6	61.0	87.5	85.6	80.4	80.0	82.5	79.5	80.7	79.4	79.6	78.6	82.4	83.4	74.5	80.0	79.7	79.3	71.9	86.0	82.5	83.5	81.9	80.9	80.4
6	PFMH-97157(AMAR)	85.1	76.4	80.7	87.6	65.9	88.6	86.7	82.2	76.0	81.5	81.5	79.6	77.5	79.8	81.1	86.1	85.4	82.5	80.6	81.8	81.7	67.6	82.9	79.1	86.5	82.6	80.1	81.0
7	P4546	85.4	83.0	84.2	88.0	63.0	89.4	84.5	81.2	81.7	85.5	81.5	82.9	81.4	80.9	77.0	85.0	83.7	81.3	81.7	81.5	81.0	69.9	82.8	85.1	87.7	83.1	81.6	81.9
8	Filler	84.3	80.5	82.4	85.2	65.3	87.3	84.8	80.6	77.5	82.0	77.5	79.0	81.1	78.6	80.0	87.6	84.3	84.2	81.8	82.5	79.4	69.6	83.0	66.5	84.6	83.0	77.7	80.4
9	Orbit	82.4	77.3	79.9	86.6	64.3	88.2	85.3	81.1	73.9	84.1	79.5	79.2	77.9	78.9	79.1	86.7	83.7	81.3	78.9	80.9	79.0	66.9	79.0	73.9	82.3	83.3	77.4	79.7
10	NMH-1247	85.4	82.0	83.7	86.0	70.2	87.5	87.9	82.9	77.7	86.9	77.0	80.5	83.9	79.9	79.9	85.1	85.7	80.4	79.1	82.0	80.4	68.9	85.4	71.1	85.9	83.3	79.2	81.3
11	MCH 46	80.9	81.3	81.1	85.6	68.7	88.1	84.0	81.6	83.2	85.9	84.5	84.5	80.7	81.5	80.6	82.8	84.6	81.2	80.7	81.7	81.0	68.7	84.9	79.8	82.6	83.1	80.0	81.6
12	MCH 45	84.2	82.5	83.3	87.6	67.0	89.3	88.3	83.1	82.1	86.0	78.5	82.2	83.1	82.5	79.6	85.7	85.2	80.1	79.3	82.2	78.9	71.8	86.7	84.9	86.5	84.4	82.2	82.5
13	Laxmi 333(L333)	82.9	79.6	81.2	88.1	64.9	88.4	82.9	81.0	78.1	84.7	82.0	81.6	79.1	78.1	79.1	80.8	84.4	82.9	80.7	80.7	79.4	68.7	84.4	86.1	83.2	84.1	81.0	81.0
14	HTMH 5402	84.9	82.3	83.6	89.0	65.0	89.2	86.0	82.3	79.2	82.0	80.0	80.4	81.1	81.9	80.8	84.7	84.4	79.4	81.2	81.9	80.6	67.6	83.2	89.1	86.9	83.5	81.8	81.9
15	HTMH 5106	84.5	84.6	84.5	89.9	69.0	89.5	87.7	84.0	82.9	84.2	82.5	83.2	81.7	82.5	80.7	87.8	88.1	81.4	82.1	83.4	81.5	69.4	80.6	84.9	88.7	83.1	81.4	83.0
16	GK 3103	84.6	82.5	83.5	87.9	66.6	89.2	87.4	82.8	81.2	72.0	78.0	77.1	77.5	84.3	80.8	77.1	85.3	79.4	82.1	80.9	80.8	71.4	73.0	81.3	86.4	81.3	79.0	80.4
17	GK 3102	86.7	80.9	83.8	86.9	67.1	87.1	86.9	82.0	75.7	86.2	76.0	79.3	81.9	78.2	81.0	82.6	83.9	83.4	82.1	81.9	80.5	67.1	80.9	78.5	84.5	82.9	79.0	80.9
18	DMH 7705	76.2	73.1	74.6	86.6	64.1	87.7	87.3	81.4	80.9	84.6	77.0	80.8	76.6	75.3	79.6	83.3	85.3	76.3	81.5	79.7	80.2	68.8	82.6	77.5	82.7	83.9	79.3	79.6
19	DAS-MH-102	80.7	81.4	81.0	82.4	68.4	88.3	85.7	81.2	84.7	84.5	78.0	82.4	79.9	80.1	78.9	84.1	82.4	79.0	82.2	80.9	80.1	69.9	85.4	80.9	85.1	81.8	80.5	81.1
20	CMH10-500	82.6	78.4	80.5	82.4	65.7	-	82.6	76.9	75.2	-	79.3	77.2	79.6	78.1	80.0	77.9	80.4	81.1	81.9	79.9	80.7	69.5	76.8	79.8	79.1	81.1	77.8	78.6
21	CMH09-464	83.2	80.7	81.9	82.9	63.9	84.3	83.5	78.6	75.8	84.0	77.0	78.9	79.6	79.6	77.9	81.1	84.1	80.6	78.3	80.2	81.1	69.1	82.7	56.1	83.7	81.8	75.7	78.7
22	CMH08-381(G)	82.1	78.8	80.4	84.1	67.5	-	75.8	75.8	80.6	-	80.8	80.7	-	79.9	79.6	-	82.6	81.5	79.6	80.6	80.1	69.1	82.5	80.4	81.0	82.6	79.3	79.4
23	CMH08-381	79.7	78.6	79.1	83.8	64.3	-	85.2	77.7	79.1	83.4	79.5	80.7	80.9	79.4	75.6	83.8	81.4	81.7	82.5	80.7	80.1	69.3	77.2	80.3	84.1	82.8	79.0	79.6
24	Bisco 2324 Plus	85.4	80.6	83.0	86.4	61.2	86.5	85.7	79.9	82.9	86.3	77.0	82.1	80.4	79.7	81.1	85.0	86.0	81.2	82.1	82.2	81.6	68.9	82.8	83.5	83.5	83.1	80.6	81.4
25	B-54	83.3	81.2	82.2	86.0	64.2	86.8	88.8	81.4	79.2	82.6	79.0	80.3	80.7	78.9	79.7	84.5	84.8	79.0	82.5	81.4	80.7	69.3	80.1	78.3	83.6	82.1	79.0	80.7
26	B-161	80.3	81.8	81.1	83.4	64.4	86.6	90.3	81.2	77.7	82.2	77.0	79.0	81.0	78.9	79.4	84.5	85.8	81.4	80.4	81.6	80.6	69.5	80.7	83.3	82.8	84.1	80.2	80.7
27	CP 333	82.1	81.9	82.0	86.4	65.8	88.6	89.8	82.6	82.3	83.6	78.3	81.4	81.1	80.1	82.4	84.3	81.5	80.9	82.1	81.8	80.5	70.3	81.2	81.6	86.3	82.8	80.4	81.5
28	Filler	82.6	81.0	81.8	84.1	63.2	86.0	84.4	79.4	76.4	84.1	79.5	80.0	79.0	81.3	78.6	82.8	84.6	80.9	82.3	81.3	79.9	69.4	80.6	74.1	83.9	83.2	78.5	80.1
CHECKS																													
29	PMH 1	94.6	80.3	87.4	83.5	63.1	85.0	86.1	79.4	82.3	83.5	77.8	81.2	80.3	80.2	79.9	85.1	84.7	81.8	80.2	81.7	80.9	67.4	84.0	80.1	83.4	82.8	79.8	81.2
30	PMH 3	86.7	80.8	83.7	86.0	64.2	83.9	85.8	80.0	78.5	86.4	79.3	81.4	80.9	83.0	80.7	85.4	84.1	81.1	80.3	82.2	80.5	69.9	83.1	85.3	85.4	83.0	81.2	81.5
31	SeedTech 2324	83.1	80.3	81.7	84.7	67.0	86.8	84.5	80.7	78.3	84.5	79.0	80.6	80.1	79.3	79.2	84.6	88.8	82.2	81.3	82.2	81.1	69.6	80.2	79.1	84.7	82.7	79.6	80.9
32	Bio 9681	80.5	80.9	80.7	84.0	62.8	87.1	87.3	80.3	84.0	80.3	81.0	81.8	81.3	78.9	79.5	84.2	83.2	81.3	80.8	81.3	81.0	70.8	85.6	79.7	85.1	83.1	80.9	81.0
	Loc. Mean	83.2	80.2	81.7	85.8	65.2	87.2	85.5	80.7	79.3	83.4	79.0	80.5	80.1	80.0	79.7	83.9	84.1	80.9	81.2	81.4	80.5	69.2	81.7	79.0	84.1	82.9	79.6	80.7
	C.D. (5%)	0.00	2.48	4.56	2.06	0.50	0.94	3.08	3.14	3.58	8.69	5.47	4.16	2.19	0.62	1.94	0.73	0.42	1.62	1.15	1.83	2.08	1.36	1.43	6.92	4.09	0.87	3.41	1.41
	C.V. (%)	0.00	1.52	2.74	1.47	0.47	0.63	2.20	2.77	2.77	4.93	3.40	3.17	1.65	0.48	1.49	0.53	0.31	1.23	0.87	2.14	1.58	1.21	1.07	5.36	2.38	0.65	3.76	2.95
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.37	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.45	0.00	0.00	0.00	0.01	0.00	0.05	0.00

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Table No. 5 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST																							OV'L				
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5							
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH		BHIL	UDAI	Mean	Mean
1	X35A187	21.7	29.4	25.5	25.2	26.3	26.6	24.3	25.6	30.9	23.5	34.3	29.6	26.0	26.2	19.3	8.4	11.3	16.6	13.8	17.4	17.1	18.7	18.1	15.0	22.1	18.2	21.6	
2	X35A180	21.0	29.4	25.2	28.2	24.8	27.5	24.8	26.3	31.4	24.5	38.3	31.4	25.0	28.2	20.9	9.5	11.3	16.8	11.6	17.6	16.8	19.2	17.7	15.0	23.0	18.3	22.1	
3	S6668	22.0	32.3	27.1	30.3	27.4	25.7	23.3	26.7	31.3	23.7	37.3	30.7	27.8	23.1	19.5	7.2	10.8	18.6	14.8	17.4	16.8	19.4	19.3	15.0	21.0	18.3	22.2	
4	PRO-385	21.7	30.5	26.1	29.0	26.9	28.3	25.9	27.5	30.8	23.4	38.4	30.8	27.4	22.9	20.2	6.4	11.4	17.6	15.3	17.3	16.5	19.5	18.8	15.0	23.1	18.6	22.3	
5	PRO-384	20.9	28.1	24.5	28.5	25.4	26.2	25.3	26.3	29.8	22.9	37.0	29.9	27.0	25.1	22.1	9.1	11.1	17.5	14.6	18.0	17.0	17.7	16.0	15.0	23.0	17.7	21.8	
6	PFMH-97157(AMAR)	23.6	29.0	26.3	25.4	28.3	24.5	26.3	26.1	30.8	24.5	38.1	31.1	23.8	24.6	18.4	8.0	11.1	17.1	14.1	16.7	16.6	19.5	18.0	15.0	23.6	18.5	21.9	
7	P4546	21.6	32.4	27.0	30.9	27.4	27.7	27.5	28.4	30.6	23.8	37.3	30.5	26.5	23.0	20.0	9.5	11.5	16.7	14.3	17.4	16.3	19.1	17.8	15.0	22.1	18.0	22.4	
8	Filler	24.2	29.0	26.6	28.0	25.5	27.1	21.6	25.5	31.3	23.9	38.5	31.2	24.6	25.8	16.2	8.3	11.4	16.2	13.6	16.6	16.8	18.9	17.9	15.0	22.8	18.3	21.7	
9	Orbit	23.0	29.7	26.3	28.1	27.4	25.0	27.2	26.9	30.2	24.9	37.2	30.7	25.3	25.6	19.7	8.9	11.9	16.6	13.8	17.4	17.4	18.1	19.7	15.0	19.0	17.8	22.0	
10	NMH-1247	20.8	29.2	25.0	19.3	28.4	22.3	21.8	22.9	27.5	24.1	36.4	29.3	22.8	22.9	17.9	6.4	10.5	17.3	13.9	15.9	17.4	17.7	16.3	15.0	22.0	17.7	20.4	
11	MCH 46	22.6	28.9	25.7	29.4	26.6	25.5	21.8	25.8	30.5	23.5	38.2	30.7	28.2	26.2	18.6	6.5	11.4	16.6	13.1	17.2	17.3	19.2	17.5	15.0	21.9	18.2	21.8	
12	MCH 45	20.8	29.3	25.0	28.2	26.9	27.0	23.4	26.4	31.3	23.4	36.6	30.4	26.7	25.5	22.1	7.2	12.7	18.0	14.6	18.1	16.4	19.9	15.8	15.0	21.8	17.8	22.0	
13	Laxmi 333(L333)	20.4	29.5	24.9	26.5	28.2	23.4	23.7	25.4	30.3	24.0	36.0	30.1	25.8	23.7	19.1	10.7	11.4	16.1	14.2	17.3	16.6	18.1	18.2	15.0	20.1	17.6	21.5	
14	HTMH 5402	21.8	29.1	25.4	27.0	28.2	27.4	26.0	27.1	30.3	23.7	37.8	30.6	27.4	24.9	18.2	8.4	12.0	17.7	15.2	17.7	17.4	19.8	18.7	15.0	23.0	18.8	22.3	
15	HTMH 5106	21.7	29.6	25.6	28.8	27.9	24.6	21.4	25.7	29.5	24.1	35.6	29.7	26.5	24.1	18.7	8.1	10.2	16.5	15.0	17.0	16.8	18.2	18.4	15.0	21.6	18.0	21.5	
16	GK 3103	24.4	28.4	26.4	33.6	27.3	25.8	26.2	28.2	31.6	24.2	38.0	31.3	25.0	27.0	21.1	5.8	10.5	15.9	14.9	17.2	17.0	18.3	17.7	15.0	22.7	18.1	22.4	
17	GK 3102	20.9	30.1	25.5	25.8	24.1	23.6	24.2	24.4	30.6	23.7	37.7	30.6	21.9	27.2	22.0	9.0	10.8	16.0	14.7	17.4	17.3	16.8	18.5	15.0	23.0	18.1	21.5	
18	DMH 7705	21.8	31.3	26.6	30.4	26.7	21.8	23.5	25.6	31.2	23.0	36.3	30.1	23.4	24.6	17.2	11.3	12.1	16.1	13.7	16.9	16.9	19.1	18.2	15.0	22.5	18.3	21.7	
19	DAS-MH-102	21.9	29.8	25.8	25.9	26.0	25.5	23.4	25.2	31.9	24.0	37.3	31.0	26.8	25.6	17.6	6.2	12.4	17.2	14.5	17.1	16.3	20.2	18.7	15.0	22.0	18.4	21.8	
20	CMH10-500	21.3	32.0	26.7	33.8	26.5	-	26.6	29.0	29.1	-	35.8	32.4	27.5	25.8	17.0	7.9	12.0	17.0	15.4	17.5	17.3	19.6	17.7	15.0	23.1	18.5	22.1	
21	CMH09-464	21.6	30.6	26.1	30.6	24.3	25.2	25.8	26.5	30.3	24.0	34.1	29.5	25.5	22.7	18.5	6.7	11.2	15.4	14.7	16.4	16.4	18.1	18.7	15.0	21.1	17.9	21.4	
22	CMH08-381(G)	23.0	28.6	25.8	30.8	25.9	-	26.4	27.7	31.0	-	37.0	34.0	-	24.0	20.1	-	12.9	17.8	13.8	17.7	17.0	21.2	18.9	15.0	22.2	18.9	22.7	
23	CMH08-381	21.1	34.1	27.6	28.5	29.0	-	25.4	27.6	30.1	22.7	37.2	30.0	25.7	24.1	18.6	8.3	13.0	16.6	14.5	17.2	17.1	19.4	16.5	15.0	22.6	18.1	21.9	
24	Bisco 2324 Plus	21.3	29.4	25.4	28.7	27.7	26.9	23.1	26.6	31.0	24.2	37.7	30.9	24.8	24.0	18.3	6.0	11.2	16.0	14.1	16.3	16.9	17.3	18.2	15.0	22.5	18.0	21.6	
25	B-54	21.7	32.9	27.3	29.9	25.3	23.9	24.6	25.9	29.2	23.4	37.1	29.9	25.8	22.4	19.3	7.7	11.3	16.3	14.3	16.7	16.1	17.9	19.0	15.0	22.0	18.0	21.6	
26	B-161	20.9	29.6	25.2	24.2	25.0	24.5	25.0	24.7	27.5	23.2	34.2	28.3	23.6	23.9	16.7	5.2	10.1	16.5	13.2	15.6	16.7	16.2	18.4	15.0	18.8	17.0	20.4	
27	CP 333	20.9	28.1	24.5	26.9	26.0	24.1	23.5	25.1	30.7	24.3	36.6	30.5	26.0	25.4	17.9	9.7	11.3	16.8	15.7	17.5	17.2	19.0	16.8	15.0	21.5	17.9	21.6	
28	Filler	21.2	30.7	26.0	30.1	27.9	24.7	25.7	27.1	30.3	23.9	36.7	30.3	26.0	25.4	17.7	10.0	12.0	16.9	15.3	17.6	16.9	19.0	19.2	15.0	22.9	18.6	22.2	
CHECKS																													
29	PMH 1	21.7	29.4	25.5	28.7	26.6	24.9	26.1	26.5	31.8	24.1	35.8	30.6	24.8	23.0	18.2	10.7	10.6	16.6	14.3	16.9	16.9	17.8	18.6	15.0	21.5	17.9	21.7	
30	PMH 3	22.1	29.0	25.5	27.8	25.9	27.0	24.4	26.2	30.3	24.3	36.7	30.4	25.0	24.7	22.9	8.3	11.2	16.6	14.8	17.6	16.6	20.1	17.1	15.0	22.8	18.3	22.0	
31	SeedTech 2324	21.4	29.0	25.2	30.2	28.2	24.2	24.2	26.7	29.1	22.4	37.1	29.5	27.6	26.4	18.4	8.4	12.8	16.2	15.3	17.9	17.1	18.7	17.7	15.0	22.1	18.1	21.9	
32	Bio 9681	21.7	29.3	25.5	28.2	28.7	21.7	22.2	25.2	22.3	23.3	33.6	26.4	22.9	22.1	17.2	6.7	10.2	16.0	15.2	15.7	16.4	15.4	17.8	15.0	20.9	17.1	20.3	
	Loc. Mean	21.7	29.9	25.8	28.3	26.8	25.2	24.5	26.3	30.1	23.7	36.7	30.4	25.6	24.7	19.0	8.1	11.4	16.7	14.4	17.1	16.8	18.7	18.0	15.0	22.0	18.1	21.8	
	C.D. (5%)	1.00	1.90	2.74	4.18	0.27	1.84	2.55	2.51	1.77	2.26	2.51	2.84	1.18	0.67	1.94	0.45	1.03	0.52	0.67	1.61	0.59	0.95	2.16	-	0.89	1.06	0.86	
	C.V. (%)	2.82	3.12	5.21	9.05	0.61	4.24	6.39	6.80	3.61	4.51	3.36	5.72	2.79	1.66	6.24	3.34	5.54	1.89	2.86	8.89	2.13	3.12	7.36	-	2.47	4.70	6.50	
	F (Prob)	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.01	0.00	0.93	0.02	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.07	-	0.00	0.24	0.00	



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Table No. 5 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																											
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5	OV'L						
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
1	X35A187	220.0	206.5	213.3	190.3	213.3	220.9	230.0	213.6	190.0	183.9	172.5	182.1	211.0	191.6	212.3	241.7	168.3	237.3	154.3	202.4	233.2	179.0	213.3	188.0	189.0	205.0	201.3	202.3
2	X35A180	288.3	246.0	267.2	204.3	223.3	260.0	222.3	227.5	192.2	194.5	182.5	189.7	217.5	210.9	197.7	250.0	173.3	247.3	158.1	207.8	236.8	190.6	240.0	176.3	187.0	223.3	209.0	214.7
3	S6668	238.3	230.5	234.4	182.0	225.0	223.3	221.0	212.8	163.3	182.2	167.5	171.0	189.0	208.3	227.0	240.0	140.0	224.7	133.0	194.6	225.3	198.7	208.3	184.0	176.5	208.3	200.2	199.8
4	PRO-385	213.3	230.5	221.9	195.3	216.7	234.4	233.7	220.0	189.2	175.3	182.5	182.3	201.0	198.2	225.7	240.0	160.0	229.7	139.6	199.2	242.1	197.2	210.0	164.7	168.0	221.7	200.6	203.1
5	PRO-384	206.7	236.0	221.3	187.3	218.3	213.9	214.7	208.6	174.3	175.4	180.0	176.6	190.0	207.1	201.3	230.0	150.0	229.7	129.1	191.0	230.4	205.6	208.3	138.3	164.0	198.3	190.8	194.9
6	PFMH-97157(AMAR)	211.7	219.0	215.3	172.3	185.0	192.8	208.0	189.5	154.3	170.7	157.5	160.8	197.5	192.5	207.7	235.0	163.3	214.7	141.6	193.2	246.9	204.0	205.0	182.7	176.0	186.7	200.2	192.0
7	P4546	228.3	231.0	229.7	188.3	221.7	233.9	198.0	210.5	173.2	185.9	167.5	175.5	210.0	193.7	216.0	243.3	160.0	222.0	141.7	198.1	246.9	205.4	206.7	200.0	193.0	210.0	210.3	203.5
8	Filler	210.0	174.0	192.0	163.7	175.0	196.7	192.3	181.9	140.2	178.6	157.5	158.8	179.0	188.0	188.3	226.7	133.3	189.0	130.7	176.4	201.7	204.1	186.7	168.3	162.5	183.3	184.4	178.6
9	Orbit	223.3	201.0	212.2	181.7	191.7	213.9	201.0	197.1	182.7	159.9	152.5	165.0	198.5	200.7	205.7	221.7	156.7	221.0	138.0	191.7	224.7	175.3	208.3	143.3	159.0	195.0	184.3	188.9
10	NMH-1247	226.7	195.0	210.8	176.0	191.7	210.0	215.3	198.3	162.7	166.2	147.5	158.8	199.5	177.1	200.7	223.3	150.0	216.0	122.9	184.2	218.3	205.3	198.3	196.7	171.5	208.3	199.7	190.0
11	MCH 46	236.7	229.0	232.8	191.0	218.3	221.7	203.3	208.6	180.5	200.6	165.0	182.0	215.0	212.5	223.0	241.7	160.0	227.3	156.5	205.1	243.7	200.6	223.3	205.3	190.5	198.3	210.3	206.5
12	MCH 45	231.7	233.5	232.6	193.3	213.3	213.3	193.3	203.3	182.8	164.9	155.0	167.6	190.0	202.2	202.0	225.0	146.7	217.7	142.7	189.5	224.7	202.1	208.3	152.3	174.5	190.0	192.0	193.6
13	Laxmi 333(L333)	205.0	196.5	200.8	175.3	176.7	193.9	206.3	188.1	161.0	172.4	160.0	164.5	192.0	201.6	210.0	215.0	158.3	209.7	131.3	188.3	226.7	187.1	196.7	157.3	172.5	191.7	188.7	186.2
14	HTMH 5402	235.0	232.0	233.5	168.0	206.7	215.0	202.7	198.1	163.3	170.1	157.5	163.6	193.0	201.9	190.3	215.0	143.3	210.3	140.6	184.9	220.1	208.9	218.3	167.3	167.0	196.7	196.4	192.0
15	HTMH 5106	240.0	218.5	229.3	180.7	190.0	218.3	213.7	200.7	168.3	172.9	182.5	174.6	183.5	208.9	214.3	238.3	151.7	216.0	138.6	193.1	257.6	197.2	206.7	202.0	173.0	226.7	210.5	200.0
16	GK 3103	231.7	237.5	234.6	196.0	201.7	227.0	212.7	209.3	170.7	165.4	157.5	164.5	203.5	197.2	208.7	246.7	166.7	229.3	141.3	199.0	239.6	205.7	218.3	147.7	167.5	215.0	199.0	199.4
17	GK 3102	211.7	183.5	197.6	188.0	185.0	197.8	194.7	191.4	162.7	178.7	152.5	164.6	204.0	198.2	195.0	221.7	133.3	216.0	142.7	187.3	210.8	203.9	191.7	175.0	165.5	183.3	188.4	186.2
18	DMH 7705	220.0	197.5	208.8	182.7	215.0	211.7	214.0	205.8	156.5	173.2	155.0	161.6	190.5	172.4	206.7	238.3	153.3	214.0	136.5	187.4	243.5	207.4	200.0	186.7	174.0	198.3	201.6	193.1
19	DAS-MH-102	208.3	225.5	216.9	184.0	208.3	209.1	207.7	202.3	171.8	172.2	172.5	172.2	207.5	201.4	212.7	246.7	161.7	228.0	143.9	200.3	229.4	203.8	206.7	165.0	170.5	216.7	198.7	197.9
20	CMH10-500	216.7	176.5	196.6	190.7	235.0	-	194.0	206.6	169.3	-	165.0	167.2	201.5	188.5	207.7	230.0	156.7	216.3	147.5	192.6	225.4	204.0	205.0	185.0	178.5	201.7	199.9	194.7
21	CMH09-464	238.3	227.5	232.9	211.7	245.0	253.9	239.0	237.4	197.2	183.9	180.0	187.0	218.5	215.0	225.7	265.0	175.0	227.3	150.3	211.0	253.5	200.4	235.0	194.3	176.5	231.7	215.2	215.7
22	CMH08-381(G)	245.0	235.5	240.3	208.7	221.7	-	231.3	220.6	177.3	-	180.0	178.7	-	216.1	227.3	-	168.3	233.3	177.3	204.5	259.9	200.7	243.3	205.0	208.0	226.7	223.9	214.8
23	CMH08-381	228.3	220.0	224.2	215.3	200.0	-	214.0	209.8	200.3	183.7	187.5	190.5	217.5	219.1	227.3	236.7	171.7	226.7	159.6	208.4	253.4	210.6	240.0	172.7	197.5	230.0	217.4	210.1
24	Bisco 2324 Plus	203.3	173.0	188.2	162.3	180.0	177.8	178.3	174.6	147.5	167.0	145.0	153.2	183.0	174.3	185.0	206.7	145.0	200.0	126.1	174.3	210.9	195.5	175.0	164.3	162.0	196.7	184.1	175.4
25	B-54	215.0	199.0	207.0	177.3	201.7	195.0	213.7	196.9	153.8	160.4	152.5	155.6	176.0	166.7	189.7	220.0	150.0	198.3	121.7	174.6	212.7	205.8	205.0	170.0	166.5	181.7	190.3	183.3
26	B-161	216.7	202.5	209.6	173.7	183.3	198.9	210.3	191.6	149.0	165.5	137.5	150.7	189.0	197.7	184.3	218.3	151.7	209.7	134.5	183.6	222.4	207.3	198.3	164.3	164.5	191.7	191.4	185.1
27	CP 333	233.3	218.5	225.9	169.3	213.3	195.9	188.0	191.6	166.8	171.3	160.0	166.0	182.0	190.5	209.7	220.0	128.3	217.0	104.4	178.8	217.0	207.3	200.0	161.7	165.5	190.0	190.2	186.8
28	Filler	193.3	198.5	195.9	172.3	223.3	197.2	196.8	197.4	163.2	165.0	137.5	155.2	170.5	158.5	188.7	223.3	145.0	199.3	126.9	173.2	191.9	180.5	201.7	149.3	150.5	200.0	179.0	178.8
CHECKS																													
29	PMH 1	211.7	227.5	219.6	216.0	266.7	265.0	196.0	235.9	204.2	186.8	197.5	196.2	226.0	201.8	224.3	230.0	158.3	236.3	138.3	202.1	250.3	193.9	208.3	174.0	190.0	223.3	206.6	210.3
30	PMH 3	261.7	235.5	248.6	206.0	246.7	252.2	222.7	231.9	199.3	187.9	185.0	190.7	197.5	218.1	221.0	250.0	171.7	221.7	153.7	204.8	231.9	200.6	220.0	191.7	202.0	220.0	211.0	213.5
31	SeedTech 2324	220.0	195.5	207.8	175.3	183.3	192.4	204.3	188.9	154.0	167.5	152.5	158.0	171.0	194.0	182.3	211.7	140.0	198.7	130.6	175.5	203.4	182.2	196.7	194.0	156.5	200.0	188.8	182.1
32	Bio 9681	225.0	217.0	221.0	187.0	188.3	202.8	221.0	199.8	184.3	179.5	170.0	177.9	191.5	198.7	188.0	221.7	163.3	214.3	149.3	189.6	228.1	199.0	201.7	160.0	168.5	200.0	192.9	193.6
	Loc. Mean	224.8	214.0	219.4	186.4	208.3	215.1	209.2	204.7	172.1	175.4	164.8	170.7	196.6	197.0	206.4	231.4	154.8	218.7	140.1	192.1	230.1	199.1	208.9	174.6	174.6	204.7	198.7	195.8
	C.D. (5%)	30.45	13.17	25.47	15.56	9.63	16.55	28.02	16.83	17.01	21.36	-	13.98	15.29	4.94	22.35	15.91	24.55	13.35	19.03	9.52	30.23	11.25	9.42	40.52	21.35	19.06	12.94	6.58
	C.V. (%)	8.30	3.02	5.69	5.11	2.83	4.48	8.21	5.86	6.06	5.76	-	5.02	4.68	1.54	6.63	4.14	9.72	3.74	8.32	4.70	8.05	3.46	2.76	14.22	5.99	5.70	5.71	5.68
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.04	-	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00

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Table No. 5 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																									OV'L	
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5						
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI		Mean
1	X35A187	120.0	104.5	112.3	96.7	120.0	115.6	89.0	105.3	94.5	78.2	77.5	83.4	110.0	92.2	76.7	70.0	120.3	75.7	95.0	84.9	74.0	98.3	80.7	95.0	103.3	89.4	95.4
2	X35A180	140.0	123.0	131.5	103.3	113.3	127.6	91.3	108.9	95.2	78.7	82.5	85.4	109.5	107.6	87.0	66.7	124.3	78.6	101.4	90.5	105.7	110.0	80.7	90.0	106.7	97.3	102.3
3	S6668	118.3	117.5	117.9	87.7	118.3	108.9	84.7	99.9	70.3	81.5	80.0	77.3	100.0	112.8	86.3	58.3	109.3	65.3	94.8	77.6	92.2	100.0	77.7	80.5	98.3	87.7	93.4
4	PRO-385	98.3	102.5	100.4	91.7	110.0	108.1	88.3	99.5	89.3	73.0	82.5	81.6	111.0	95.4	81.7	70.0	101.7	75.7	93.1	89.7	93.7	86.7	60.3	80.0	105.0	85.9	91.2
5	PRO-384	90.0	118.0	104.0	89.7	120.0	98.9	82.7	97.8	84.3	73.2	77.5	78.3	100.5	99.5	67.7	60.0	100.3	70.3	87.7	76.7	104.1	93.3	51.3	85.0	98.3	84.8	89.1
6	PFMH-97I57(AMAR)	95.0	103.0	99.0	76.7	80.0	77.2	72.7	76.6	61.5	76.5	67.5	68.5	99.5	90.3	66.0	65.0	100.7	66.2	84.5	73.5	99.1	78.3	62.7	76.0	78.3	78.0	80.0
7	P4546	103.3	104.5	103.9	86.3	108.3	105.0	71.7	92.8	75.5	72.3	62.5	70.1	103.0	100.5	75.3	60.0	105.7	70.0	90.9	78.9	107.3	91.7	78.3	95.0	95.0	91.0	89.5
8	Filler	115.0	86.0	100.5	97.3	101.7	109.7	84.3	98.3	71.5	76.6	75.0	74.4	102.0	104.5	80.7	66.7	102.0	75.7	93.0	81.3	102.3	105.0	75.3	90.5	106.7	93.5	92.2
9	Orbit	106.7	93.5	100.1	79.3	96.7	88.3	65.0	82.3	80.2	71.6	62.5	71.4	95.0	98.0	92.3	60.0	95.0	68.3	89.7	62.5	90.4	76.7	55.0	71.5	90.0	74.3	81.9
10	NMH-1247	118.3	92.5	105.4	91.0	106.7	102.8	85.3	96.4	81.2	73.3	57.5	70.7	107.5	94.5	70.0	60.0	103.7	68.7	88.9	81.5	104.0	88.3	93.3	95.5	96.7	93.2	90.6
11	MCH 46	118.3	106.5	112.4	89.7	106.7	87.6	80.0	91.0	83.3	84.5	82.5	83.4	109.5	108.5	81.3	68.3	106.3	73.3	95.8	82.5	83.8	101.7	78.3	92.0	88.3	87.8	92.2
12	MCH 45	111.7	126.0	118.8	94.7	108.3	107.8	88.7	99.9	90.5	70.3	70.0	76.9	103.0	108.8	78.7	70.0	103.3	73.3	93.4	81.4	105.6	100.0	61.3	96.5	103.3	91.4	94.2
13	Laxmi 333(L333)	103.3	97.5	100.4	86.3	90.0	99.4	78.0	88.4	80.2	79.7	80.0	80.0	101.0	98.4	76.7	78.3	102.7	67.5	89.2	84.5	100.7	91.7	62.3	90.0	96.7	87.6	88.3
14	HTMH 5402	113.3	114.5	113.9	78.3	118.3	105.8	82.3	96.2	79.3	71.4	77.5	76.1	100.5	101.1	71.0	65.0	102.3	70.1	89.0	76.9	92.5	93.3	73.3	86.0	95.0	86.2	90.2
15	HTMH 5106	123.3	109.0	116.2	88.7	106.7	109.7	83.0	97.0	77.3	72.9	80.0	76.7	102.0	105.5	90.0	63.3	107.3	70.3	95.0	90.0	92.4	96.7	91.0	89.0	101.7	93.5	94.3
16	GK 3103	108.3	115.5	111.9	99.3	110.0	106.8	79.3	98.9	83.2	79.8	72.5	78.5	112.0	102.9	77.0	71.7	106.0	72.7	94.1	79.4	105.7	96.7	51.0	82.5	108.3	87.3	92.4
17	GK 3102	108.3	87.5	97.9	94.0	105.0	95.3	79.3	93.4	76.8	81.9	67.5	75.4	108.5	101.9	74.7	53.3	99.3	73.3	91.5	73.8	105.6	88.3	64.3	85.5	101.7	86.5	88.6
18	DMH 7705	115.0	97.5	106.3	88.0	118.3	96.1	75.0	94.4	66.5	70.4	65.0	67.3	100.5	96.4	86.3	60.0	96.3	63.9	88.7	80.0	110.6	81.7	83.0	89.0	105.0	91.5	89.2
19	DAS-MH-102	110.0	125.0	117.5	106.3	106.7	117.8	89.3	105.0	95.0	76.5	90.0	87.2	114.0	110.6	88.7	56.3	111.7	82.9	101.6	85.4	93.8	101.7	66.0	91.0	100.0	89.7	98.1
20	CMH10-500	106.7	99.5	103.1	97.3	125.0	-	83.3	101.9	81.8	-	80.0	80.9	108.5	100.1	95.3	66.7	100.3	82.1	97.3	84.2	108.8	100.0	81.3	88.5	101.7	94.1	95.8
21	CMH09-464	120.0	112.0	116.0	102.0	131.7	128.3	101.0	115.8	102.7	75.6	87.5	88.6	121.0	106.6	101.0	76.7	111.3	84.1	104.8	94.9	100.5	105.0	78.0	92.0	111.7	97.0	103.3
22	CMH08-381(G)	133.3	110.0	121.7	110.7	120.0	-	93.3	108.0	77.2	-	90.0	83.6	-	115.6	102.3	81.7	114.7	92.5	106.3	98.0	100.6	106.7	86.7	106.5	115.0	102.2	104.3
23	CMH08-381	120.0	109.0	114.5	106.3	110.0	-	90.3	102.2	107.7	82.0	90.0	93.2	110.0	123.9	99.0	70.0	109.0	79.6	104.3	93.1	115.7	113.3	75.0	98.5	108.3	100.7	102.1
24	Bisco 2324 Plus	120.0	89.0	104.5	84.3	98.3	89.4	75.7	86.9	79.0	69.9	72.5	73.8	105.5	92.7	68.7	63.3	95.7	65.6	85.6	81.1	105.7	80.0	63.7	85.0	96.7	85.4	85.9
25	B-54	103.3	95.5	99.4	81.3	96.7	90.8	82.0	87.7	75.5	67.9	57.5	67.0	89.0	93.2	65.7	60.0	95.0	62.0	81.0	67.4	115.6	88.3	68.0	82.0	86.7	84.7	83.2
26	B-161	111.7	100.5	106.1	79.7	98.3	97.7	84.7	90.1	73.7	69.4	52.5	65.2	94.0	101.9	64.3	66.7	99.3	68.1	85.5	79.3	102.0	91.7	58.7	81.5	98.3	85.3	85.4
27	CP 333	101.7	109.0	105.3	83.7	106.7	97.8	78.0	91.5	85.8	72.1	67.5	75.1	100.0	98.3	84.7	55.0	99.7	62.5	89.0	75.5	102.3	101.7	64.0	83.0	95.0	86.9	88.4
28	Filler	108.3	105.5	106.9	99.0	136.7	112.7	84.5	108.2	87.0	70.8	72.5	76.8	99.0	100.5	76.0	70.0	99.3	79.0	90.8	80.6	75.3	105.0	62.3	76.5	91.7	81.9	91.1
CHECKS																												
29	PMH 1	126.7	116.5	121.6	112.7	130.0	145.9	79.3	117.0	111.7	80.7	102.5	98.3	128.5	112.1	98.7	76.7	119.0	77.3	107.1	107.1	103.9	110.0	74.3	96.0	113.3	100.8	107.3
30	PMH 3	146.7	128.0	137.3	110.7	135.0	130.0	90.7	116.6	99.2	88.8	87.5	91.8	116.0	112.8	98.3	71.7	113.0	85.7	105.2	90.7	108.0	108.3	87.0	105.5	113.3	102.2	107.8
31	SeedTech 2324	115.0	99.0	107.0	100.7	100.0	110.4	94.0	101.3	83.3	75.7	77.5	78.8	102.0	102.2	70.7	65.0	97.7	76.1	89.7	76.7	85.8	91.7	89.0	84.5	96.7	87.4	91.4
32	Bio 9681	116.7	100.5	108.6	82.7	96.7	90.6	79.7	87.4	80.3	68.6	57.5	68.8	94.5	87.4	67.3	66.7	93.7	70.8	82.7	67.3	90.5	86.7	65.0	82.0	90.0	80.2	83.4
	Loc. Mean	114.0	106.2	110.1	93.0	110.3	105.6	83.3	98.0	83.8	75.5	75.2	78.3	105.1	102.4	81.3	66.0	104.6	73.4	93.3	82.1	99.3	95.9	71.8	88.2	99.9	89.5	92.6
	C.D. (5%)	18.69	9.47	19.57	11.61	7.58	13.84	12.20	10.21	11.59	14.21	-	11.34	9.35	3.65	12.59	21.75	10.46	11.42	7.03	12.95	7.12	9.11	23.23	16.59	12.85	8.53	4.58
	C.V. (%)	10.05	4.37	8.72	7.65	4.21	7.63	8.97	7.42	8.48	8.92	-	8.88	5.36	2.19	9.50	20.19	6.13	9.54	6.02	9.66	4.39	5.82	19.81	9.22	7.88	8.36	7.97
	F (Prob)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.31	-	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	

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TABLE No. 6

Performance of medium maturing experimental hybrids at Bajaura, Kangra, Delhi, Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Bhiloda, Jhabua, Udaipur in AET-1 trial no. 66 (AET1-M) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																			
		ZN 1						ZN 2						ZN 3																							
		BAJA	R	KANG	R	MEAN	R	DELH	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R		
1	EHL 161708 (Hyb)	15922	1	4234	1	10078	1	6327	6	6491	2	6569	11	7445	9	5734	8	6513	9	4374	9	2954	5	3992	7	7462	11	4843	13	4908	10	5759	12	8519	12		
2	X35A189	14618	4	1483	11	8050	4	5982	8	6028	8	7700	3	11153	1	6079	5	7388	3	5900	3	3521	2	3583	10	11277	1	7917	5	7154	1	6821	8	12347	1		
3	B 53	13980	6	1539	9	7759	6	5377	9	6629	1	7080	5	8556	6	6377	3	6804	7	4533	7	2801	10	4891	2	8895	2	6565	9	5699	7	7546	5	10439	6		
4	X35A194	15109	2	2376	5	8742	3	8577	1	5723	11	6969	7	10137	2	6764	2	7634	1	6507	1	3522	1	3487	11	8285	5	8851	2	6791	2	10677	1	11237	3		
5	MCH 47	14876	3	3585	2	9230	2	7040	4	5455	13	6384	12	9507	4	5838	6	6845	6	4267	10	3186	3	3485	12	8127	7	7662	6	5811	6	8175	3	10550	5		
6	PRO-383	14193	5	1273	12	7733	7	7250	3	6191	5	8376	1	8133	7	7250	1	7440	2	5262	5	2383	13	5344	1	7554	10	6750	8	5487	9	10309	2	11585	2		
7	JH 31522	12234	9	2111	6	7172	10	6680	5	5839	9	6860	9	8815	5	5792	7	6797	8	6229	2	3042	4	4360	3	8322	4	8946	1	6634	3	7109	6	8212	13		
8	JH 31470	11977	10	2650	3	7313	9	6182	7	6405	4	7039	6	9765	3	5245	9	6927	5	5221	6	2946	6	4186	5	8573	3	8840	3	6395	4	7854	4	8591	10		
9	SeedTech 2324(Filler)	10026	11	1204	13	5615	12	5021	10	5802	10	6700	10	5392	13	3742	12	5332	13	3622	12	2791	11	3704	8	7568	9	5391	11	4843	11	5624	13	9477	7		
10	BIO-9681(Filler)	9150	13	1826	8	5488	13	4846	11	5676	12	7424	4	6209	11	4482	11	5727	11	3564	13	2808	9	3356	13	6921	12	5773	10	4766	12	5887	11	8595	9		
11	Bio 9637(Filler)	9889	12	2045	7	5967	11	4088	13	6070	7	6083	13	5679	12	5015	10	5387	12	4056	11	2603	12	4264	4	6675	13	5361	12	4674	13	6906	7	8532	11		
CHECKS																																					
12	PMH 4	13100	8	2472	4	7786	5	7547	2	6418	3	6939	8	7788	8	6235	4	6985	4	5671	4	2819	8	4169	6	8143	6	8082	4	6179	5	6618	9	10972	4		
13	BIO 9637	13418	7	1505	10	7461	8	4549	12	6077	6	8051	2	7116	10	3710	13	5901	10	4474	8	2890	7	3647	9	7598	8	7433	7	5599	8	6502	10	8618	8		
Location Mean		12961		2177		7569		6113		6062		7090		8130		5559		6591		4899		2943		4036		8108		7109		5765		7368		9821			
Mean Stand		42		48		45		72		75		74		76		59		71		59		65		56		66		78		67		66		63			
C.D. (5%)		997		590		793		1024		625		539		996		1187		874		952		90		1728		1175		980		799		1522		584			
C.V. (%)		4.55		12.3		-		9.92		6.1		4.5		7.25		12.64		-		11.51		1.81		25.35		8.58		8.16		-		12.23		3.52			
F (Prob)		0		0				0		0.072		0		0		0		0		0		0		0.184		0		0				0		0			
Plot Size		6		7.2		-		12		9.6		12		10.92		12		-		9.6		14.4		12		9.6		9.6		-		12		9.6			
AGRONOMY DATA																																					
Sowing Date		22-06		11-07		-		6-07		-		4-07		10-07		9-07		-		14-07		21-06		6-07		13-07		15-07		-		24-07		5-07			
Harvest Date		18-10		13-10		-		25-10		-		5-10		-		25-10		-		18-10		3-10		16-10		19-10		23-10		-		22-11		30-10			
Irrigation Nos		3		-		-		2		-		6		3		1		-		-		-		2		-		-		-		6		10			
Fertilizer Applied N		120		120		-		120		120		150		120		120		-		120		120		120		120		120		-		150		150			
Fertilizer Applied P		60		60		-		60		60		60		60		60		-		60		60		60		60		60		-		75		75			
Fertilizer Applied K		40		40		-		40		50		60		-		40		-		60		60		40		40		40		-		37.5		75			

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 25.4 %

## B182

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																														
		ZN 4														ZN 5							OV'L									
		HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	BHIL	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R	
1	EHL 161708 (Hyb)	7954	13	9303	7	5243	6	7169	8	7938	2	7412	9	4447	11	4576	5	7933	13	6769	10	4091	10	6047	3	6655	7	5788	8	6590	9	
2	X35A189	9784	5	11179	2	5836	2	8784	1	6661	6	8773	3	5059	8	4047	6	12084	1	7954	3	5716	4	5465	5	6106	12	6633	3	7580	2	
3	B 53	9388	6	8316	10	3956	10	8038	5	7250	4	7847	6	5512	6	2639	11	8207	11	7204	7	4022	11	5734	4	6981	2	5757	9	6703	8	
4	X35A194	11095	3	9630	5	5329	5	8645	3	8167	1	9254	2	6669	1	5574	2	12016	2	9045	2	5753	3	6562	1	6877	4	7499	1	8004	1	
5	MCH 47	10063	4	8277	11	6319	1	7673	6	5254	11	8044	5	5747	4	4725	4	9812	5	9170	1	5904	2	5305	8	6354	8	6717	2	7170	5	
6	PRO-383	12034	2	10364	4	4999	8	8770	2	7862	3	9418	1	6066	2	3351	8	10912	3	7307	6	6618	1	4802	9	6824	5	6554	4	7457	3	
7	JH 31522	8960	8	8560	9	5369	4	6226	12	5089	12	7075	10	5880	3	5918	1	9759	6	6911	9	4618	7	5423	7	6329	9	6406	6	6769	7	
8	JH 31470	12313	1	12362	1	5378	3	-	-	5784	8	8713	4	4887	9	5043	3	9967	4	7577	4	4794	6	6070	2	7093	1	6490	5	7190	4	
9	SeedTech 2324(Filler)	8429	11	7286	13	3845	11	7160	9	5544	9	6766	12	3291	12	2220	13	8168	12	4836	13	3293	12	3535	13	6166	10	4501	13	5445	13	
10	BIO-9681(Filler)	8462	10	8909	8	3346	13	6253	11	4352	13	6544	13	3039	13	3303	9	8239	10	5271	12	4437	9	3800	12	6116	11	4886	11	5548	12	
11	Bio 9637(Filler)	8397	12	8173	12	3461	12	6618	10	6951	5	7005	11	4864	10	2794	10	8578	8	5943	11	1797	13	4149	11	4114	13	4605	12	5554	11	
	CHECKS																															
12	PMH 4	8566	9	9501	6	4971	9	7512	7	5423	10	7652	8	5182	7	3956	7	9279	7	7495	5	4466	8	5453	6	6887	3	6103	7	6860	6	
13	BIO 9637	9112	7	10967	3	5134	7	8210	4	6006	7	7793	7	5581	5	2274	12	8567	9	7129	8	4835	5	4248	10	6759	6	5628	10	6430	10	
	Location Mean	9581		9448		4860		7588		6329		7857		5094		3878		9502		7124		4642		5123		6405		5967		6717		
	Mean Stand	68		54		76		68		54		64		58		59		74		43		54		55		62		58		63		
	C.D. (5%)	1417		1760		1108		494		836		1103		1165		843		1094		788		987		508		453		834		908		
	C.V. (%)	8.75		11.03		13.49		3.83		7.82		-		13.54		12.87		6.82		6.55		12.59		5.87		4.19		-		-		
	F (Prob)	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		
	Plot Size	12		12		12		11.2		9.6		-		12		9.6		12		9.6		9.6		9		9.6		-		-		
	AGRONOMY DATA																															
	Sowing Date	1-07		27-06		12-07		25-07		9-07		-		12-07		13-07		27-06		13-07		19-07		5-07		3-07		-		-		
	Harvest Date	14-11		15-10		28-11		9-12		10-11		-		-		16-10		6-11		12-10		-		12-10		13-10		-		-		
	Irrigation Nos	1		-		-		8		11		-		-		-		-		-		-		-		2		-		-		
	Fertilizer Applied N	200		200		120		150		200		-		120		150		120		120		120		120		120		90		-		
	Fertilizer Applied P	60		60		60		75		75		-		60		80		60		50		60		60		60		-		-		
	Fertilizer Applied K	50		50		40		40		75		-		40		40		40		40		-		60		-		-		-		

B183

TABLE No. 6 (Cont..)

SI No	GRAIN YIELD % SUPERIORITY OVER THE PMH 4																
	ZN 1							ZN 2					ZN 3				
	BAJA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM
1 EHL 161708 (Hyb)	21.5	71.3	29.4	-	1.1	-	-	-	-	-	4.8	-	-	-	-	-	
2 X35A189	11.6	-	3.4	-	-	11	43.2	-	5.8	4	24.9	-	38.5	-	15.8	3.1	12.5
3 B 53	6.7	-	-	-	3.3	2	9.9	2.3	-	-	-	17.3	9.2	-	-	14	-
4 X35A194	15.3	-	12.3	13.6	-	0.4	30.2	8.5	9.3	14.7	25	-	1.7	9.5	9.9	61.3	2.4
5 MCH 47	13.6	45	18.6	-	-	-	22.1	-	-	-	13	-	-	-	-	23.5	-
6 PRO-383	8.3	-	-	-	-	20.7	4.4	16.3	6.5	-	-	28.2	-	-	-	55.8	5.6
7 JH 31522	-	-	-	-	-	-	13.2	-	-	9.8	7.9	4.6	2.2	10.7	7.4	7.4	-
8 JH 31470	-	7.2	-	-	-	1.4	25.4	-	-	-	4.5	0.4	5.3	9.4	3.5	18.7	-
9 SeedTech 2324(Filler)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 BIO-9681(Filler)	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
11 Bio 9637(Filler)	-	-	-	-	-	-	-	-	-	-	-	2.3	-	-	-	4.3	-
CHECKS																	
12 PMH 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 BIO 9637	2.4	-	-	-	-	16	-	-	-	-	2.5	-	-	-	-	-	-

SI No	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637																
	ZN 1							ZN 2					ZN 3				
	BAJA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM
1 EHL 161708 (Hyb)	18.7	181.4	35.1	39.1	6.8	-	4.6	54.6	10.4	-	2.2	9.5	-	-	-	-	-
2 X35A189	8.9	-	7.9	31.5	-	-	56.7	63.8	25.2	31.9	21.8	-	48.4	6.5	27.8	4.9	43.3
3 B 53	4.2	2.2	4	18.2	9.1	-	20.2	71.9	15.3	1.3	-	34.1	17.1	-	1.8	16.1	21.1
4 X35A194	12.6	57.9	17.2	88.5	-	-	42.5	82.3	29.4	45.4	21.9	-	9	19.1	21.3	64.2	30.4
5 MCH 47	10.9	138.2	23.7	54.8	-	-	33.6	57.4	16	-	10.2	-	7	3.1	3.8	25.7	22.4
6 PRO-383	5.8	-	3.6	59.4	1.9	4	14.3	95.4	26.1	17.6	-	46.5	-	-	-	58.6	34.4
7 JH 31522	-	40.3	-	46.8	-	-	23.9	56.1	15.2	39.2	5.2	19.6	9.5	20.4	18.5	9.3	-
8 JH 31470	-	76.1	-	35.9	5.4	-	37.2	41.4	17.4	16.7	1.9	14.8	12.8	18.9	14.2	20.8	-
9 SeedTech 2324(Filler)	-	-	-	10.4	-	-	-	0.9	-	-	-	1.6	-	-	-	-	10
10 BIO-9681(Filler)	-	21.3	-	6.5	-	-	-	20.8	-	-	-	-	-	-	-	-	-
11 Bio 9637(Filler)	-	35.9	-	-	-	-	-	35.2	-	-	-	16.9	-	-	-	6.2	-
CHECKS																	
12 PMH 4	-	64.3	4.3	65.9	5.6	-	9.5	68.1	18.4	26.8	-	14.3	7.2	8.7	10.4	1.8	27.3
13 BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 25.4 %



Table No. 6 (Continued)

S. No.	STAND AT HARVEST ('000/ha)																															
	ZN 1							ZN 2					ZN 3						ZN 4						ZN 5		OV'L					
PEDIGREE	BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1 EHL 161708 (Hyb)	72.2	72.9	72.6	62.2	78.1	61.1	71.7	50.0	64.6	58.3	45.1	39.7	68.4	80.6	58.4	55.3	65.6	54.7	44.2	64.2	60.4	55.2	57.1	49.2	60.4	63.1	48.3	44.4	58.5	65.6	55.6	59.6
2 X35A189	68.3	65.3	66.8	51.7	78.1	62.2	73.3	51.7	63.4	65.6	44.7	52.2	67.0	82.6	62.4	62.8	66.7	57.8	44.4	66.7	61.9	56.9	59.6	51.4	66.0	62.2	42.7	67.0	62.2	64.2	59.4	61.4
3 B 53	71.7	63.2	67.4	63.6	77.4	61.4	72.0	55.3	65.9	67.4	44.4	51.7	74.3	80.2	63.6	54.7	65.6	57.8	52.8	64.7	61.6	55.2	58.9	55.8	64.9	63.9	42.4	59.4	64.1	64.2	59.2	61.9
4 X35A194	73.3	74.3	73.8	61.7	79.5	60.8	73.6	48.6	64.8	66.7	45.1	44.7	72.9	83.3	62.6	58.6	66.3	55.8	54.7	61.1	59.8	61.1	59.6	48.1	63.5	60.0	50.0	52.4	65.2	66.3	57.9	61.8
5 MCH 47	71.1	76.4	73.8	65.3	76.7	61.7	74.5	48.3	65.3	57.6	46.1	41.4	74.0	81.6	60.1	58.3	66.3	60.8	51.1	66.1	61.3	53.5	59.6	50.6	58.7	64.7	38.2	57.3	60.0	66.0	56.5	61.1
6 PRO-383	75.6	63.2	69.4	67.2	77.1	60.6	73.9	51.1	66.0	61.1	45.4	51.9	73.3	79.2	62.2	59.4	66.7	61.4	40.0	66.7	60.7	60.4	59.3	50.0	60.8	63.1	55.2	62.5	63.7	66.3	60.2	62.2
7 JH 31522	62.8	65.3	64.0	56.1	78.1	61.9	68.1	50.0	62.9	68.4	45.4	48.1	68.4	82.6	62.6	53.9	65.3	56.9	44.7	59.7	67.6	57.3	57.9	47.2	62.5	60.3	39.2	61.5	59.3	64.2	56.3	59.8
8 JH 31470	70.0	63.2	66.6	47.5	77.4	61.7	61.1	48.6	59.3	66.3	44.7	47.8	62.8	83.3	61.0	50.6	65.6	55.8	36.9	59.7	-	54.5	53.9	51.7	63.5	58.3	47.9	44.8	62.6	64.6	56.2	58.0
9 SeedTech 2324(Filler)	68.3	63.2	65.8	57.5	78.8	61.4	65.6	42.8	61.2	55.6	45.4	43.6	62.2	82.3	57.8	47.2	65.6	55.0	43.9	65.0	60.1	55.9	56.1	39.2	59.7	55.8	47.9	50.7	61.5	64.6	54.2	57.6
10 BIO-9681(Filler)	62.8	65.3	64.0	56.1	77.4	61.7	63.5	43.9	60.5	51.7	46.1	43.9	62.5	83.3	57.5	49.4	66.3	53.9	33.9	64.7	57.7	55.2	54.5	38.1	60.8	57.5	37.5	50.7	59.6	66.0	52.9	56.5
11 Bio 9637(Filler)	67.2	63.2	65.2	61.9	78.8	61.9	60.1	48.9	62.3	57.6	44.4	41.1	66.7	79.2	57.8	54.2	65.6	54.7	43.9	53.1	58.6	58.0	55.4	45.6	57.3	62.2	43.4	59.7	61.1	60.4	55.7	58.0
CHECKS																																
12 PMH 4	68.9	68.1	68.5	64.2	77.1	60.8	69.9	47.8	64.0	61.5	45.8	49.7	68.4	80.9	61.3	53.9	66.0	57.5	45.6	64.2	61.3	55.9	57.8	56.9	59.0	62.2	41.7	56.9	62.6	64.2	57.7	60.4
13 BIO 9637	70.6	63.2	66.9	61.4	78.5	61.9	72.0	50.0	64.8	63.9	45.8	51.4	70.1	81.6	62.6	53.1	66.3	54.4	47.5	66.7	60.4	55.2	57.7	41.1	66.0	64.7	51.4	57.6	59.3	64.2	57.8	60.7
Loc. Mean	69.4	66.7	68.1	59.7	77.9	61.5	69.2	49.0	63.5	61.7	45.3	46.7	68.5	81.6	60.8	54.7	66.0	56.7	44.9	63.3	61.0	56.5	57.5	48.1	61.8	61.4	45.1	55.8	61.5	64.7	56.9	59.9
C.D. (5%)	5.18	3.20	7.95	11.35	2.68	1.46	6.73	4.96	4.31	5.08	2.03	9.90	9.44	5.26	4.27	7.74	0.70	5.81	2.21	5.60	6.05	3.77	3.39	11.71	6.56	5.22	6.46	11.53	5.49	2.75	4.39	1.90
C.V. (%)	4.43	2.20	5.36	11.28	2.04	1.41	5.77	6.01	5.34	4.89	2.66	12.58	8.17	3.82	5.52	8.40	0.63	6.08	2.92	5.25	6.38	3.97	5.53	14.46	6.30	5.05	8.51	12.27	5.30	2.52	7.25	5.81
F (Prob)	0.00	0.00	0.17	0.06	0.64	0.45	0.00	0.00	0.05	0.00	0.74	0.11	0.11	0.74	0.03	0.02	0.00	0.23	0.00	0.00	0.00	0.01	0.00	0.06	0.16	0.03	0.00	0.01	0.31	0.02	0.06	0.00







B188

Table No. 6 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																															
		ZN 1								ZN 2							ZN 3							ZN 4							ZN 5		OV'L
		BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean		
1	EHL 161708 (Hyb)	99.0	92.5	95.8	108.7	98.7	82.3	87.0	94.2	88.7	87.7	84.0	90.3	92.3	88.6	49.7	93.0	99.7	76.7	101.0	92.3	104.0	88.0	93.7	72.7	91.7	79.7	84.0	90.0	85.3	89.1		
2	X35A189	101.3	92.0	96.7	97.7	94.3	83.3	87.3	90.7	87.7	88.0	83.0	90.7	89.0	87.7	55.0	101.3	97.7	77.0	102.0	93.0	104.7	90.1	95.7	74.3	91.7	79.7	87.7	90.0	86.5	89.3		
3	B 53	103.0	94.0	98.5	106.7	96.7	81.0	88.0	93.1	85.7	87.3	82.7	91.0	94.0	88.1	54.7	92.0	85.7	75.7	103.3	93.0	104.3	87.0	92.7	79.0	91.0	80.7	89.7	90.7	87.3	89.3		
4	X35A194	108.3	95.0	101.7	112.3	98.0	84.0	92.0	96.6	89.7	92.3	84.3	94.3	98.7	91.9	48.3	98.0	99.7	77.7	101.7	96.7	107.3	89.9	94.3	78.7	97.7	84.0	93.0	91.7	89.9	92.4		
5	MCH 47	100.7	93.5	97.1	106.7	99.0	82.0	88.7	94.1	88.7	88.3	83.0	91.7	92.7	88.9	48.0	92.0	98.3	75.3	101.0	96.0	104.3	87.9	90.7	73.7	92.0	80.0	92.0	89.0	86.2	89.5		
6	PRO-383	109.3	94.5	101.9	110.7	98.7	85.7	96.7	97.9	89.0	90.7	85.0	93.0	95.7	90.7	53.0	102.0	97.7	74.3	103.7	97.3	104.7	90.4	95.0	77.7	97.0	82.3	88.0	91.7	88.6	92.2		
7	JH 31522	100.0	94.5	97.3	103.7	99.0	83.0	88.0	93.4	86.3	90.3	82.7	90.3	89.3	87.8	49.7	94.7	98.7	76.7	101.3	93.7	107.3	88.9	93.7	73.3	90.0	82.0	91.0	91.0	86.8	89.6		
8	JH 31470	101.7	94.5	98.1	108.7	100.0	82.3	87.0	94.5	84.3	89.0	81.7	91.3	91.3	87.5	46.0	96.0	98.7	76.3	101.7	-	106.0	87.4	92.7	75.0	91.0	79.0	88.7	89.0	85.9	89.2		
9	SeedTech 2324(Filler)	107.0	93.0	100.0	108.7	98.7	81.7	87.3	94.1	85.7	87.0	81.0	93.3	87.3	86.9	47.3	94.0	97.0	75.7	101.3	94.3	105.3	87.9	92.7	77.0	93.0	80.0	89.7	90.7	87.2	89.5		
10	BIO-9681(Filler)	100.7	94.5	97.6	109.0	95.7	79.7	87.0	92.8	88.3	89.0	81.3	91.7	88.7	87.8	43.7	92.0	97.0	76.0	103.0	94.0	105.7	87.3	91.3	73.0	91.0	78.7	91.0	90.0	85.8	88.8		
11	Bio 9637(Filler)	106.3	94.0	100.2	101.0	91.7	81.0	99.0	93.2	88.3	88.3	86.0	93.0	98.3	90.8	48.7	93.0	98.7	76.3	103.7	94.3	104.0	88.4	94.7	74.0	96.3	81.3	98.0	90.3	89.1	90.8		
CHECKS																																	
12	PMH 4	98.0	91.0	94.5	108.7	95.7	79.7	87.7	92.9	85.7	87.0	81.7	89.7	88.7	86.5	48.3	92.0	97.3	75.7	100.3	93.7	105.0	87.5	90.7	74.7	90.7	79.7	87.7	89.7	85.5	88.3		
13	BIO 9637	102.3	91.0	96.7	108.3	100.3	82.3	87.0	94.5	85.0	90.0	83.0	92.3	91.3	88.3	50.3	92.3	98.0	76.3	101.3	94.0	103.0	87.9	92.3	76.0	89.7	80.0	89.0	90.0	86.2	89.4		
	Loc. Mean	102.9	93.4	98.1	107.0	97.4	82.2	89.4	94.0	87.2	88.8	83.0	91.7	92.1	88.6	49.4	94.8	97.2	76.1	101.9	87.1	105.1	88.3	93.1	75.3	92.5	80.5	89.9	90.3	86.9	89.8		
	C.D. (5%)	1.97	1.87	5.04	4.60	1.26	1.21	1.25	4.40	3.23	2.17	1.86	3.17	2.89	2.07	8.28	0.68	10.70	1.96	1.46	2.77	2.35	2.63	1.29	1.57	0.95	1.87	5.66	1.74	2.08	1.27		
	C.V. (%)	1.14	0.92	2.36	2.55	0.77	0.88	0.83	3.27	2.20	1.45	1.33	2.05	1.86	1.84	9.94	0.43	6.53	1.53	0.85	1.89	1.33	2.79	0.83	1.24	0.61	1.38	3.74	1.14	2.07	2.49		
	F (Prob)	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.24	0.03	0.00	0.00	0.15	0.00	0.00	0.28	0.00	0.51	0.18	0.00	0.00	0.03	0.16	0.00	0.00	0.00	0.00	0.01	0.07	0.00	0.00		

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Table No. 6 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST																											OV'L			
		ZN 1							ZN 2					ZN 3					ZN 4					ZN 5								
		BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	BHIL		JHAB	UDAI	Mean
1	EHL 161708 (Hyb)	21.0	31.1	26.0	28.8	13.5	23.9	29.1	20.8	23.2	24.5	20.4	30.4	24.9	30.3	26.1	19.6	21.2	16.8	8.1	9.8	17.4	13.1	15.1	16.6	14.3	22.4	15.0	25.4	19.9	18.9	20.7
2	X35A189	20.6	33.3	26.9	21.7	17.5	28.4	29.7	25.4	24.5	23.7	18.7	30.4	25.6	31.1	25.9	21.5	22.3	17.4	8.4	10.7	16.9	16.2	16.2	17.9	16.0	16.3	15.0	25.4	20.4	18.5	21.2
3	B 53	20.3	31.2	25.7	27.1	14.5	27.5	28.4	27.7	25.0	24.6	21.0	30.4	24.9	30.3	26.2	23.6	20.5	17.3	9.9	11.5	16.8	15.3	16.4	17.2	16.7	23.6	15.0	25.8	20.6	19.8	21.7
4	X35A194	21.9	32.6	27.3	29.0	17.5	28.0	33.5	29.1	27.4	24.7	20.6	31.3	25.8	34.8	27.4	24.0	23.4	17.1	8.1	10.7	16.6	14.6	16.3	16.4	16.6	15.4	15.0	26.2	22.0	18.6	22.2
5	MCH 47	21.4	33.8	27.6	22.2	16.5	23.7	29.0	23.2	22.9	25.3	18.9	28.8	27.3	28.9	25.8	21.2	21.0	17.0	8.0	9.9	16.8	11.3	15.0	17.1	14.3	19.2	15.0	25.2	20.4	18.5	20.6
6	PRO-383	25.5	35.3	30.4	30.1	12.5	25.4	31.9	27.8	25.5	25.8	20.0	31.0	26.3	30.4	26.7	23.5	25.1	17.9	9.8	10.9	17.4	14.4	17.0	16.4	17.9	19.9	15.0	24.7	22.0	19.3	22.3
7	JH 31522	22.0	33.8	27.9	28.0	14.5	24.7	27.7	24.9	23.9	24.9	20.7	28.7	26.5	29.6	26.1	22.0	20.8	17.2	8.6	11.0	17.3	13.2	15.7	16.6	16.7	18.5	15.0	25.0	20.9	18.8	21.1
8	JH 31470	20.6	31.6	26.1	28.5	15.5	29.2	25.5	25.3	24.8	24.5	20.8	28.3	25.6	29.5	25.7	22.7	19.7	16.1	9.3	10.2	-	13.4	15.2	16.3	17.0	21.8	15.0	25.0	22.2	19.6	21.4
9	SeedTech 2324(Filler)	21.2	33.2	27.2	27.3	13.5	26.4	26.2	23.4	23.3	23.1	18.0	28.4	25.7	28.0	24.6	23.9	19.7	16.8	10.7	11.6	17.2	15.6	16.5	16.2	14.2	19.9	15.0	25.0	21.4	18.6	20.8
10	BIO-9681(Filler)	20.6	31.8	26.2	22.7	15.5	24.9	25.2	20.8	21.8	23.9	19.7	28.3	26.5	26.1	24.9	21.8	19.2	17.2	8.1	10.6	14.9	14.3	15.1	17.2	14.7	16.3	15.0	25.4	21.5	18.3	20.1
11	Bio 9637(Filler)	22.8	35.9	29.3	24.9	12.5	26.4	29.1	23.1	23.2	23.3	20.9	30.2	25.0	30.0	25.9	23.1	21.7	16.5	6.2	11.0	16.9	14.4	15.7	16.9	16.0	21.3	15.0	25.4	20.8	19.2	21.1
CHECKS																																
12	PMH 4	20.0	34.5	27.2	27.2	12.5	28.5	27.9	24.9	24.2	24.2	19.7	29.2	25.3	30.8	25.8	21.9	20.7	16.7	5.4	9.7	16.9	14.6	15.1	16.7	14.7	16.9	15.0	25.3	21.2	18.3	20.8
13	BIO 9637	21.1	36.7	28.9	29.3	17.5	26.8	28.9	21.5	24.8	23.7	20.8	31.7	25.5	30.6	26.4	23.8	22.9	14.9	6.7	10.5	17.3	13.0	15.6	17.4	16.6	17.4	15.0	24.7	21.0	18.7	21.4
	Loc. Mean	21.4	33.4	27.4	26.7	14.9	26.4	28.6	24.4	24.2	24.3	20.0	29.8	25.7	30.0	26.0	22.5	21.4	16.8	8.2	10.6	15.5	14.1	15.8	16.8	15.8	19.1	15.0	25.3	21.1	18.8	21.2
	C.D. (5%)	0.78	4.01	2.57	1.05	0.47	0.13	1.99	2.35	2.70	1.28	-	1.60	1.13	1.35	1.40	2.11	1.11	1.15	0.32	1.01	0.97	0.96	1.15	0.38	1.15	2.55	-	1.27	0.75	1.45	0.82
	C.V. (%)	2.16	5.52	4.30	2.34	1.86	0.29	4.14	5.71	8.76	3.13	-	3.19	2.61	2.67	4.24	5.56	3.07	4.06	2.31	5.66	3.69	4.05	6.87	1.35	4.31	7.91	-	2.98	2.10	6.65	6.93
	F (Prob)	0.00	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.01	0.00	0.04	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	-	0.55	0.00	0.59	0.00

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Table No. 6 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																										OV'L					
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5											
		BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	EHL 161708 (Hyb)	86.9	82.2	84.5	85.5	75.0	63.2	80.5	82.5	77.3	77.6	80.9	79.2	85.7	77.5	80.2	83.9	81.8	78.1	83.5	82.2	83.0	83.0	82.2	80.5	70.9	81.3	80.1	84.2	81.3	84.1	80.3	80.5
2	X35A189	85.4	79.4	82.4	85.0	75.5	65.0	86.7	87.3	79.9	77.2	77.9	74.2	87.1	79.0	79.1	84.2	81.0	79.3	85.9	81.6	82.2	83.2	82.5	81.8	69.5	86.3	81.3	87.0	79.8	85.1	81.6	81.1
3	B 53	85.2	85.7	85.4	85.4	77.5	65.6	87.4	84.4	80.1	74.3	80.9	82.0	85.3	77.8	80.0	85.6	80.5	81.0	84.2	85.0	83.5	86.8	83.8	80.4	60.7	80.5	80.5	85.0	80.7	83.9	78.8	81.1
4	X35A194	82.3	78.4	80.4	82.3	73.5	68.7	85.0	83.2	78.5	74.7	78.9	70.8	82.7	78.5	77.1	83.2	79.4	80.3	85.1	82.1	80.9	82.5	81.9	79.2	69.7	84.9	79.1	83.0	78.8	83.9	79.8	79.7
5	MCH 47	88.6	84.6	86.6	84.4	72.5	65.6	87.9	78.7	77.8	80.7	79.2	81.8	84.9	83.5	82.0	88.5	84.8	82.2	85.1	76.6	82.9	86.3	83.8	79.8	70.7	90.2	84.1	89.0	81.1	84.1	82.7	82.2
6	PRO-383	81.3	75.6	78.4	85.2	77.0	68.1	82.8	83.9	79.4	73.6	78.9	78.7	84.8	80.5	79.3	83.6	77.6	80.5	82.5	81.9	82.3	80.0	81.2	80.2	70.7	82.4	75.8	84.2	79.3	85.3	79.7	79.9
7	JH 31522	84.4	82.1	83.2	84.9	71.5	70.0	82.6	83.2	78.4	74.8	80.2	77.5	81.8	77.8	78.4	82.3	80.3	80.8	85.2	82.4	82.6	82.0	82.2	80.3	70.0	77.8	77.8	83.3	81.7	82.5	79.0	80.0
8	JH 31470	82.9	82.0	82.4	87.2	74.5	67.5	87.4	86.4	80.6	79.7	79.8	84.4	87.4	78.5	82.0	85.1	79.0	80.5	84.5	88.4	-	81.0	83.1	78.9	72.2	84.2	83.5	86.5	81.9	85.2	81.8	81.9
9	SeedTech 2324(Filler)	79.5	78.2	78.8	84.6	72.5	69.1	82.6	87.8	79.3	69.9	79.8	74.8	80.2	74.5	75.8	83.3	79.0	79.2	81.3	83.1	81.3	81.7	81.3	78.2	60.9	82.9	75.8	81.8	84.3	84.2	78.3	78.9
10	BIO-9681(Filler)	84.5	79.0	81.7	84.3	70.5	63.0	84.6	79.3	76.3	69.2	79.7	73.3	82.7	73.3	75.6	83.8	78.1	80.5	82.3	83.0	79.9	82.6	81.4	79.5	69.9	80.3	77.4	80.9	83.2	82.7	79.1	78.7
11	Bio 9637(Filler) CHECKS	83.2	75.7	79.4	80.9	71.5	67.4	82.2	78.3	76.0	72.1	76.9	74.2	83.0	75.5	76.3	84.8	78.8	81.6	81.1	78.6	83.0	87.3	82.1	79.4	67.0	81.0	75.5	78.4	82.6	83.1	78.1	78.6
12	PMH 4	88.3	84.8	86.5	87.8	74.5	65.1	88.4	87.1	80.6	76.3	77.7	83.0	86.5	80.5	80.8	87.3	83.6	80.5	87.9	82.9	82.0	85.4	84.2	81.5	65.7	84.4	82.2	87.4	81.2	82.7	80.7	82.1
13	BIO 9637	90.2	81.1	85.6	85.0	75.5	69.5	85.3	85.9	80.2	75.3	79.8	84.5	85.0	78.5	80.6	84.5	80.8	80.2	87.7	84.4	80.2	86.4	83.4	78.5	69.4	84.0	80.9	84.9	81.2	85.0	80.6	81.7
	Loc. Mean	84.8	80.6	82.7	84.8	74.0	66.7	84.9	83.7	78.8	75.0	79.3	78.3	84.4	78.1	79.0	84.6	80.3	80.3	84.3	82.5	75.7	83.7	82.5	79.9	68.3	83.1	79.5	84.3	81.3	84.0	80.0	80.5
	C.D. (5%)	0.00	2.74	4.17	2.08	1.25	0.35	3.47	2.64	2.75	2.23	-	6.30	1.76	1.28	2.94	1.40	1.05	2.26	0.26	2.01	1.52	1.66	2.00	2.70	1.78	2.89	2.31	2.91	2.87	0.67	2.43	1.22
	C.V. (%)	0.00	1.56	2.31	1.45	1.00	0.31	2.42	1.87	2.75	1.76	-	4.78	1.24	0.97	2.93	0.98	0.78	1.67	0.19	1.45	1.20	1.18	2.28	2.00	1.54	2.07	1.72	2.05	2.10	0.47	2.85	2.79
	F (Prob)	0.00	0.00	0.01	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	0.10	0.00	0.00	0.00	0.00	0.03	0.25	0.00	0.00	0.00	0.00	0.01	0.00	0.00	

Table No. 6 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																	
		ZN 1			ZN 2						ZN 3								
		BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE
1	EHL 161708 (Hyb)	195.0	176.5	185.8	167.0	162.0	185.0	203.3	199.3	183.3	148.0	156.9	150.8	155.1	130.0	148.2	25.3	160.2	201.3
2	X35A189	245.0	167.0	206.0	176.0	168.7	208.3	231.7	226.0	202.1	155.3	171.7	165.3	194.0	172.5	171.8	26.2	190.3	214.0
3	B 53	246.7	160.0	203.3	181.0	165.7	188.3	233.3	205.3	194.7	165.7	171.2	174.8	183.7	160.0	171.1	27.3	183.3	217.7
4	X35A194	278.3	231.0	254.7	216.3	170.3	255.0	253.3	228.7	224.7	184.0	184.4	207.0	203.1	196.3	195.0	28.1	214.3	245.3
5	MCH 47	255.0	193.5	224.3	193.3	171.7	220.0	250.0	220.7	211.1	162.7	172.0	174.3	189.7	167.5	173.2	23.7	201.0	230.3
6	PRO-383	236.7	170.5	203.6	183.3	179.0	218.3	226.7	216.3	204.7	156.0	165.9	166.2	172.1	156.3	163.3	24.5	183.4	221.7
7	JH 31522	251.7	179.0	215.3	213.0	178.0	226.7	256.7	225.3	219.9	172.0	185.7	207.0	186.1	198.8	189.9	26.6	172.7	231.0
8	JH 31470	280.0	186.5	233.3	214.7	165.0	221.7	258.3	242.7	220.5	190.0	188.0	210.5	205.8	183.8	195.6	25.7	206.4	235.3
9	SeedTech 2324(Filler)	240.0	161.0	200.5	159.7	168.7	218.3	225.0	192.7	192.9	137.3	157.1	144.0	171.2	143.8	150.7	25.3	186.5	204.3
10	BIO-9681(Filler)	223.3	187.0	205.2	159.7	171.7	218.3	223.3	198.7	194.3	150.0	147.8	149.8	172.3	151.3	154.2	24.5	177.3	208.3
11	Bio 9637(Filler)	235.0	177.5	206.3	181.3	168.0	220.0	245.0	242.0	211.3	181.7	174.9	195.2	197.4	172.5	184.3	23.4	199.9	234.3
	CHECKS																		
12	PMH 4	224.3	150.0	187.2	172.7	179.0	211.7	221.7	210.3	199.1	160.0	176.2	153.3	178.5	156.3	164.9	26.7	180.2	200.7
13	BIO 9637	251.7	189.5	220.6	194.7	168.0	240.0	255.0	265.0	224.5	171.3	180.7	184.3	180.5	191.3	181.6	24.6	192.1	239.0
	Loc. Mean	243.3	179.2	211.2	185.6	170.4	217.8	237.2	221.0	206.4	164.2	171.7	175.6	183.8	167.7	172.6	25.5	188.3	221.8
	C.D. (5%)	16.90	13.48	31.94	11.58	7.29	4.93	29.76	19.83	15.22	25.53	6.59	16.45	19.32	13.97	10.63	4.25	6.64	8.92
	C.V. (%)	4.12	3.45	6.94	3.70	2.54	1.34	7.45	5.32	5.80	9.23	2.28	5.56	6.24	4.94	4.84	9.88	2.09	2.39
	F (Prob)	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00









# B195

TABLE No. 7

Performance of early experimental hybrids at Almora, Bajaura, Kangra, Delhi, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Bhiloda, Jhabua, Udaipur in AET-1 trial no. 67 (AET1-E) during kharif (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		ZN 1					ZN 2					ZN 3									
		ALMO R	BAJA R	KANG R	MEAN R	DELH R	KARN R	LUDH R	PANT R	MEAN R	BAHR R	BHUB R	DHOL R	RANC R	VARA R	MEAN R	ARBH R	COIM R			
1	JH 31485	8108	5 10488	5 6339	4 8312	5 4975	6 5659	5 8001	2 5085	3 5930	5 7740	1 2567	3 2919	2 8564	4 6987	2 6465	1 6304	6 5393	8		
2	DAS-MH-501	9435	1 13209	1 4256	8 8967	3 6323	3 4854	7 8415	1 3718	7 5828	6 6293	6 2755	2 2646	5 9376	3 7073	1 6374	3 8534	3 7175	4		
3	Bisco 2238	8847	2 12404	2 6688	2 9313	1 6692	1 6010	4 6775	7 4410	5 5972	3 7114	3 2479	4 2057	7 7307	6 4848	4 5437	6 7194	5 7313	3		
4	K 21	8113	4 11493	4 7631	1 9079	2 6359	2 6820	1 7319	5 4893	4 6348	1 5749	7 2056	7 2684	4 10174	2 4823	5 5700	5 8538	2 7937	2		
5	FH 3548	8021	6 8976	6 6145	5 7714	6 5138	5 6097	3 6986	6 5651	1 5968	4 5301	8 2464	5 1327	8 6307	8 4353	7 4606	7 7336	4 6015	7		
6	CMH10-525	7746	7 12131	3 5654	7 8510	4 4812	7 4810	8 7702	4 3709	8 5258	7 7155	2 2840	1 3395	1 11052	1 4691	6 6434	2 9014	1 8997	1		
CHECKS																					
7	Prakash	8495	3 7352	8 6609	3 7485	7 6073	4 6138	2 7972	3 5147	2 6332	2 7008	4 2454	6 2473	6 7659	5 6161	3 5821	4 5596	7 6762	6		
8	JH 3459	6520	8 8680	7 5734	6 6978	8 4340	8 5323	6 5922	8 4175	6 4940	8 6350	5 1994	8 2696	3 6956	7 3122	8 4605	8 5395	8 6987	5		
	Location Mean	8161	10591	6132	8295	5589	5714	7387	4599	5822	6589	2451	2525	8424	5257	5680	7239	7072			
	Mean Stand	46	42	45	44	70	74	73	65	71	63	65	62	65	67	65	69	64			
	C.D. (5%)	778	2126	765	1223	1247	886	1544	1011	1172	1364	269	1250	1394	1307	1083	2145	683			
	C.V. (%)	5.4	11.38	5.1	-	12.65	8.79	11.85	12.47	-	11.73	6.22	28.07	9.38	14.09	-	16.8	5.48			
	F (Prob)	0	0	0.001		0	0.001	0	0.003		0	0	0.057	0	0		0.001	0			
	Plot Size	7.2	6	5.76	-	12	12	10.92	12	-	9.6	14.4	12	9.6	9.6	-	12	9.6			
AGRONOMY DATA																					
	Sowing Date	9-07	26-06	9-07	-	6-07	4-07	1-07	5-07	-	10-07	21-06	5-07	5-07	7-07	-	24-07	14-07			
	Harvest Date	6-11	22-10	8-10	-	25-10	5-10	-	11-10	-	5-10	2-10	8-10	8-10	28-09	-	21-11	24-10			
	Irrigation Nos	-	3	-	-	2	5	3	1	-	-	-	2	-	-	-	6	9			
	Fertilizer Applied	80	120	120	-	120	150	90	120	-	120	120	120	120	100	-	150	150			
	Fertilizer Applied	60	60	60	-	60	60	30	60	-	60	60	60	60	40	-	75	75			
	Fertilizer Applied	40	40	40	-	40	60	-	40	-	60	60	40	40	40	-	37.5	75			

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.1 %: KARI 28.9 %

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SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		ZN 4										ZN 5					OV'L				
		HYDE R	KARI R	KOLH R	MAND R	VAGA R	MEAN R	AMBI R	BANS R	CHHI R	GODH R	BHIL R	JHAB R	UDAI R	MEAN R	MEAN R					
1	JH 31485	6906	5 9065	5 3613	6 7332	3 5772	4 5887	6 6476	3 2792	4 8723	6 4498	6 7125	3 4652	1 7251	1 5931	4 6306	5				
2	DAS-MH-501	6580	7 10515	1 5473	4 7748	2 6819	2 7055	3 7575	1 2881	3 9309	2 6023	4 6712	4 4003	7 5294	8 5971	3 6660	2				
3	Bisco 2238	8297	2 9104	4 4559	5 8087	1 5997	3 6908	4 6202	5 3900	1 8782	5 6818	1 5933	5 4084	4 7124	2 6121	2 6578	3				
4	K 21	7283	4 9450	3 6199	1 6897	6 7022	1 7313	1 5824	6 2495	6 9885	1 6575	2 7692	1 4019	6 7028	3 6217	1 6784	1				
5	FH 3548	7974	3 7469	7 5508	2 7154	4 3766	6 6292	5 6355	4 2648	5 8787	4 3653	7 3453	8 4225	3 6092	4 5031	7 5767	7				
6	CMH10-525	8626	1 9772	2 5503	3 7034	5 3253	8 7071	2 6693	2 1768	8 9285	3 4558	5 7586	2 4546	2 5928	6 5766	5 6462	4				
CHECKS																					
7	Prakash	6899	6 8064	6 3212	7 -	3522	7 5198	8 5699	7 3124	2 6895	7 6139	3 4420	7 4070	5 6027	5 5196	6 5801	6				
8	JH 3459	6369	8 6438	8 3176	8 6371	7 4350	5 5442	7 5035	8 2366	7 6285	8 3261	8 5754	6 3620	8 5910	7 4604	8 5166	8				
	Location Mean	7367	8734	4655	7232	5063	6438	6232	2747	8494	5191	6085	4152	6332	5605	6198					
	Mean Stand	72	58	77	68	52	67	58	55	70	65	57	56	62	60	62					
	C.D. (5%)	1292	4449	1233	650	864	1144	804	590	921	1534	1932	489	366	948	1091					
	C.V. (%)	9.94	28.87	15.02	5	9.67	-	7.31	12.17	6.14	12.08	18	6.68	3.27	-	-					
	F (Prob)	0.004	0	0.001	0.001	0	0	0	0	0	0.003	0.001	0								
	Plot Size	12	12	12	11.2	9.6	-	9.6	9.6	12	9.6	9.6	9	9.6	-	-					
AGRONOMY DATA																					
	Sowing Date	5-07	27-06	12-07	8-07	10-07	-	10-07	14-07	27-06	7-07	19-07	5-07	4-07	-	-					
	Harvest Date	6-11	25-10	28-11	12-12	29-10	-	-	12-10	6-11	10-10	-	12-10	12-10	-	-					
	Irrigation Nos	1	-	-	8	10	-	-	-	-	-	-	-	2	-	-					
	Fertilizer Applied	200	180	100	150	200	-	100	150	120	120	120	120	90	-	-					
	Fertilizer Applied	60	60	50	75	75	-	50	80	60	50	60	60	60	-	-					
	Fertilizer Applied	50	50	30	40	75	-	30	40	40	-	-	40	-	-	-					

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.1 %: KARI 28.9 %

# B197

TABLE No. 7 (Cont..)

SI No	GRAIN YIELD % SUPERIORITY OVER THE Prakash																												OV'L				
	ZN 1								ZN 2								ZN 3								ZN 4								ZN 5
PEDIGREE	ALMO	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN	
1 JH 31485	-	42.7	-	11	-	-	0.4	-	-	10.4	4.6	18	11.8	13.4	11.1	12.6	-	0.1	12.4	12.5	-	63.9	13.3	13.6	-	26.5	-	61.2	14.3	20.3	14.1	8.7	
2 DAS-MH-501	11.1	79.7	-	19.8	4.1	-	5.6	-	-	-	12.3	7	22.4	14.8	9.5	52.5	6.1	-	30.4	70.4	-	93.6	35.7	32.9	-	35	-	51.9	-	-	14.9	14.8	
3 Bisco 2238	4.1	68.7	1.2	24.4	10.2	-	-	-	-	1.5	1	-	-	-	-	28.6	8.2	20.3	12.9	42	-	70.3	32.9	8.8	24.8	27.4	11.1	34.2	0.4	18.2	17.8	13.4	
4 K 21	-	56.3	15.5	21.3	4.7	11.1	-	-	0.2	-	-	8.5	32.8	-	-	52.6	17.4	5.6	17.2	93	-	99.4	40.7	2.2	-	43.4	7.1	74	-	16.6	19.6	16.9	
5 FH 3548	-	22.1	-	3.1	-	-	-	9.8	-	-	0.4	-	-	-	-	31.1	-	15.6	-	71.5	-	7	21.1	11.5	-	27.5	-	-	3.8	1.1	-	-	
6 CMH10-525	-	65	-	13.7	-	-	-	-	-	2.1	15.7	37.3	44.3	-	10.5	61.1	33	25	21.2	71.3	-	-	36	17.4	-	34.7	-	71.6	11.7	-	11	11.4	
CHECKS																																	
7 Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8 JH 3459	-	18.1	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	3.3	-	-	-	-	23.5	4.7	-	-	-	30.2	-	-	-	-	

SI No	GRAIN YIELD % SUPERIORITY OVER THE JH 3459																												OV'L				
	ZN 1								ZN 2								ZN 3								ZN 4								ZN 5
PEDIGREE	ALMO	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN	
1 JH 31485	24.4	20.8	10.6	19.1	14.6	6.3	35.1	21.8	20	21.9	28.7	8.3	23.1	123.8	40.4	16.8	-	8.4	40.8	13.8	15.1	32.7	8.2	28.6	18	38.8	37.9	23.8	28.5	22.7	28.8	22.1	
2 DAS-MH-501	44.7	52.2	-	28.5	45.7	-	42.1	-	18	-	38.1	-	34.8	126.5	38.4	58.2	2.7	3.3	63.3	72.3	21.6	56.7	29.6	50.5	21.8	48.1	84.7	16.7	10.6	-	29.7	28.9	
3 Bisco 2238	35.7	42.9	16.6	33.5	54.2	12.9	14.4	5.6	20.9	12	24.3	-	5.1	55.3	18.1	33.3	4.7	30.3	41.4	43.5	26.9	37.8	26.9	23.2	64.8	39.7	109.1	3.1	12.8	20.5	32.9	27.3	
4 K 21	24.4	32.4	33.1	30.1	46.5	28.1	23.6	17.2	28.5	-	3.1	-	46.3	54.5	23.8	58.2	13.6	14.3	46.8	95.2	8.3	61.4	34.4	15.7	5.4	57.3	101.6	33.7	11	18.9	35	31.3	
5 FH 3548	23	3.4	7.2	10.5	18.4	14.5	18	35.4	20.8	-	23.6	-	-	39.4	0	36	-	25.2	16	73.4	12.3	-	15.6	26.2	11.9	39.8	12	-	16.7	3.1	9.3	11.6	
6 CMH10-525	18.8	39.8	-	22	10.9	-	30.1	-	6.4	12.7	42.4	25.9	58.9	50.3	39.7	67.1	28.8	35.4	51.8	73.2	10.4	-	29.9	32.9	-	47.7	39.8	31.8	25.6	0.3	25.2	25.1	
CHECKS																																	
7 Prakash	30.3	-	15.2	7.3	39.9	15.3	34.6	23.3	28.2	10.4	23	-	10.1	97.4	26.4	3.7	-	8.3	25.3	1.1	-	-	-	13.2	32	9.7	88.3	-	12.4	2	12.9	12.3	
8 JH 3459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.1 %: KARI 28.9 %

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Table No. 7 (Continued)

STAND AT HARVEST ('000/ha)																	
S.No.	PEDIGREE	ZN 1							ZN 2					ZN 3			
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH
1	JH 31485	66.2	70.0	78.1	71.4	63.3	61.9	71.1	55.6	63.0	70.1	45.8	53.9	67.7	73.6	62.2	61.9
2	DAS-MH-501	65.3	62.8	80.7	69.6	63.6	61.4	73.6	54.4	63.3	70.8	45.8	57.5	71.5	79.5	65.0	65.0
3	Bisco 2238	63.9	74.4	79.0	72.4	65.3	62.2	71.4	55.6	63.6	71.5	45.8	57.5	71.9	77.1	64.8	61.1
4	K 21	64.8	75.6	77.3	72.5	60.0	62.5	67.8	55.8	61.5	67.4	44.9	57.5	67.7	77.4	63.0	53.9
5	FH 3548	66.7	74.4	82.5	74.5	63.6	62.8	73.6	54.2	63.5	69.8	45.4	56.4	74.0	61.1	61.3	61.1
6	CMH10-525	63.9	60.0	71.2	65.0	39.7	61.7	44.3	51.4	49.3	52.8	45.4	45.8	56.9	55.6	51.3	51.9
CHECKS																	
7	Prakash	65.3	74.4	74.7	71.5	59.7	61.4	75.1	54.4	62.7	68.8	45.1	49.4	68.8	77.8	62.0	60.0
8	JH 3459	57.4	63.9	74.7	65.3	51.4	60.8	57.7	52.2	55.5	52.4	43.8	38.3	64.6	58.0	51.4	43.3
Loc. Mean		64.2	69.4	77.3	70.3	58.3	61.8	66.8	54.2	60.3	65.5	45.3	52.0	67.9	70.0	60.1	57.3
C.D. (5%)		4.52	4.18	4.91	6.28	7.95	1.19	6.35	4.96	7.76	6.20	1.95	7.71	3.66	6.58	6.07	8.10
C.V. (%)		4.02	3.43	2.69	5.10	7.79	1.10	5.43	5.23	8.76	5.41	2.46	8.46	3.08	5.37	7.79	8.07
F (Prob)		0.02	0.00	0.01	0.05	0.00	0.05	0.00	0.49	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00

S.No.	PEDIGREE	ZN 4										ZN 5		OV'L			
		COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	JH 31485	66.0	57.5	50.8	64.2	60.7	58.0	59.9	67.7	58.0	55.0	66.7	61.5	65.9	64.2	62.7	62.9
2	DAS-MH-501	66.3	62.5	46.1	65.0	61.0	54.2	60.0	74.0	58.3	60.3	77.1	69.4	64.1	63.5	66.7	64.4
3	Bisco 2238	66.0	63.1	48.3	66.4	61.0	59.4	60.7	62.5	60.1	60.8	80.7	58.0	64.1	64.9	64.4	64.3
4	K 21	65.6	58.6	50.0	64.4	60.7	55.9	58.5	59.4	57.6	61.7	73.4	57.6	58.1	64.9	61.8	62.3
5	FH 3548	66.7	63.6	61.4	66.7	60.7	53.1	61.9	60.8	61.8	63.6	59.4	63.2	62.2	62.8	62.0	63.5
6	CMH10-525	66.7	60.0	36.7	57.5	59.5	50.0	54.6	52.8	53.1	54.7	53.6	48.6	61.9	63.5	55.5	54.6
CHECKS																	
7	Prakash	66.0	56.7	54.4	65.3	-	52.4	59.1	68.4	52.8	61.9	78.1	63.2	62.6	64.9	64.6	63.3
8	JH 3459	66.7	54.7	35.8	62.2	59.5	52.1	53.5	36.8	55.6	50.8	50.0	51.7	59.6	64.6	52.7	54.6
Loc. Mean		66.2	59.6	48.0	64.0	60.4	54.4	58.5	60.3	57.2	58.6	67.4	59.2	62.3	64.2	61.3	61.2
C.D. (5%)		1.04	7.37	1.29	6.81	2.49	5.55	4.23	11.49	7.46	6.34	6.31	13.60	4.31	2.29	6.14	2.57
C.V. (%)		0.90	7.06	1.53	6.08	2.68	5.83	6.70	10.89	7.45	6.18	3.96	13.13	3.95	2.04	9.28	7.68
F (Prob)		0.29	0.16	0.00	0.18	0.00	0.04	0.00	0.00	0.20	0.01	0.00	0.10	0.03	0.41	0.00	0.00











B203

TABLE No. 8

Performance of extra early experimental hybrids at Almora, Bajaura, Kangra, Delhi, Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varansi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Vagarai, Ambikapur, Banswara, Chhindwara, Godhra, Bhiloda, Jhabua, Udaipur in Trial no. 68 (AET1-EX) during kharif (2012)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		ZN 1					ZN 2					ZN 3									
		ALMO R	BAJA R	KANG R	MEAN R	DELH R	KANP R	KARN R	LUDH R	PANT R	MEAN R	BAHR R	BHUB R	DHOL R	RANC R	VARA R	MEAN R	ARBH R			
1	FH 3556	8611	15370	7081	10354	6342	6394	4602	7112	3699	5630	6299	4199	3605	8478	3775	5646	6305			
2	FH 3554	7151	15010	6632	9598	3272	6004	5075	7811	3687	5170	6625	2131	3146	9405	4693	5327	6179			
3	FH 3558	8025	13606	6962	9531	3442	6175	4976	7690	3567	5170	6291	4173	4018	7835	3893	5579	5535			
4	FH 3555	8084	14593	5006	9228	5372	6538	3836	5652	4281	5136	5442	4416	3349	6407	3425	4903	6236			
5	K 75	8367	15290	4957	9538	5329	5358	4453	7848	3054	5208	6571	4302	4642	7176	5425	5673	5417			
6	DH-230	5784	11829	5401	7671	3651	5516	4525	5478	3590	4552	6756	3134	3323	5606	2575	4705	4862			
CHECKS																					
7	Vivek Hybrid 9	8164	12726	3488	8126	5560	5451	5081	6435	3792	5264	6507	3140	4111	6338	3475	5024	6677			
8	Vivek QPM 9	8142	12082	5906	8710	5459	5986	3677	6187	3226	4907	6662	3484	3574	6352	3268	5018	5948			
	Location Mean	7791	13813	5679	9094	4803	5928	4528	6777	3612	5130	6394	3622	3721	7200	3816	5234	5895			
	Mean Stand	45	44	45	45	68	74	75	79	65	72	66	65	65	64	67	65	70			
	C.D. (5%)	889	1946	439	1091	754	517	610	1140	789	762	1027	168	931	1044	1622	792	1477			
	C.V. (%)	6.47	7.99	3.16	-	8.9	4.95	7.63	9.54	12.38	-	9.1	2.63	14.18	8.22	24.1	-	14.2			
	F (Prob)	0	0.001	0	0	0	0.001	0.001	0	0.051	0	0.018	0	0.063	0	0.003	0	0.222			
	Plot Size	7.2	6	5.76	-	12	9.6	12	10.92	12	-	9.6	9.6	12	9.6	9.6	-	12			
AGRONOMY DATA																					
	Sowing Date	9-07	29-06	9-07	-	6-07	-	4-07	1-07	5-07	-	10-07	20-06	10-07	5-07	7-07	-	24-07			
	Harvest Date	3-11	27-10	8-10	-	18-10	31-10	29-09	-	11-10	-	4-10	29-09	22-10	9-10	27-09	-	22-11			
	Irrigation Nos	3	3	-	-	2	-	5	3	1	-	-	-	2	-	-	-	6			
	Fertilizer Applied N	80	120	120	-	120	120	150	90	120	-	120	120	120	120	100	-	150			
	Fertilizer Applied P	60	60	60	-	60	60	60	30	60	-	60	60	60	60	40	-	75			
	Fertilizer Applied K	40	40	40	-	40	50	60	-	40	-	60	60	40	40	40	-	37.5			

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VARA 24.1 %: AMBI 20.4 %

## B204

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																
	ZN 4																		ZN 5		OV'L												
	COIM R	HYDE R	KARI R	KOLH R	MAND R	VAGA R	MEAN R	AMBI R	BANS R	CHHI R	GODH R	BHIL R	JHAB R	UDAI R	MEAN R	MEAN R																	
1 FH 3556	9661	1	8114	1	8533	4	6652	4	5721	7	6859	1	7407	1	4485	2	4220	4	9016	1	4126	3	4080	1	4023	1	7048	1	5419	1	6646	1	
2 FH 3554	8336	3	6216	5	8990	2	6689	3	6544	6	6072	2	7004	2	4404	3	4283	3	8807	2	4971	1	3549	4	3181	7	6188	3	5163	2	6238	3	
3 FH 3558	9176	2	6611	4	8105	7	6387	5	6997	4	5851	3	6952	3	4705	1	4107	5	7875	5	2683	6	3437	5	3539	4	4778	8	4403	6	6074	4	
4 FH 3555	7896	4	7193	3	8658	3	6349	6	7703	1	4549	7	6941	4	3697	4	4388	2	8456	3	3178	4	3672	3	3946	2	6147	4	4964	4	6054	5	
5 K 75	7645	5	7835	2	9116	1	5549	8	7556	2	5330	5	6921	5	3100	6	3832	6	8259	4	4202	2	3696	2	3589	3	7029	2	5101	3	6256	2	
6 DH-230	6788	8	5452	8	6687	8	5849	7	4709	8	5498	4	5692	8	3579	5	3298	8	6052	8	2439	7	2881	7	3435	5	5065	7	3862	8	5104	8	
CHECKS																																	
7 Vivek Hybrid 9	7402	6	6050	7	8147	6	7130	2	6674	5	4232	8	6616	7	2420	7	3737	7	7635	6	1845	8	2780	8	3324	6	6012	5	4222	7	5698	7	
8 Vivek QPM 9	7179	7	6062	6	8507	5	7449	1	7452	3	4753	6	6764	6	1978	8	4545	1	7577	7	3168	5	3015	6	2953	8	5927	6	4531	5	5811	6	
Location Mean	8010		6692		8343		6507		6669		5393		6787		3546		4051		7960		3326		3389		3499		6024		4708		5985		
Mean Stand	63		71		71		79		66		55		68		67		58		75		58		52		57		66		61		64		
C.D. (5%)	772		1031		1907		963		560		638		1050		1277		888		961		847		1135		470		741		840		906		
C.V. (%)	5.47		8.73		12.96		8.39		4.76		6.71		-		20.42		12.43		6.84		10.4		18.99		7.62		6.97		-		-		
F (Prob)	0		0.001		0.001		0.011		0		0		0.001		0.196		0.196		0		0		0.289		0.001		0.01						
Plot Size	9.6		12		12		12		11.2		9.6		-		9.6		9.6		12		9.6		9.8		9		9.6		-		-		
AGRONOMY DATA																																	
Sowing Date	5-07		5-07		5-07		21-07		8-07		26-06		-		12-07		13-07		28-06		7-07		19-07		5-07		4-07		-		-		
Harvest Date	1-10		28-10		25-10		21-12		17-12		12-10		-		-		12-10		15-11		10-10		-		12-10		12-10		-		-		
Irrigation Nos	9		1		-		-		8		10		-		-		-		-		-		-		-		2		-		-		
Fertilizer Applied N	150		200		150		100		150		200		-		100		150		120		120		120		100		90		-		-		
Fertilizer Applied P	75		60		50		50		75		75		-		50		80		60		50		60		60		60		-		-		
Fertilizer Applied K	75		50		40		30		40		75		-		30		40		40		-		-		40		-		-		-		

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VARA 24.1 %: AMBI 20.4 %

B205

TABLE No. 8 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9																													OVL			
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5												
		ALMO	BAJA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN
1	FH 3556	5.5	20.8	103	27.4	14.1	17.3	-	10.5	-	7	-	33.7	-	33.8	8.6	12.4	-	30.5	34.1	4.7	-	-	62.1	12	85.3	12.9	18.1	123.7	46.8	21	17.2	28.3	16.6
2	FH 3554	-	17.9	90.1	18.1	-	10.1	-	21.4	-	-	1.8	-	-	48.4	35.1	6	-	12.6	2.8	10.4	-	-	43.5	5.9	82	14.6	15.3	169.5	27.6	-	2.9	22.3	9.5
3	FH 3558	-	6.9	99.6	17.3	-	13.3	-	19.5	-	-	-	32.9	-	23.6	12	11.1	-	24	9.3	-	-	4.8	38.2	5.1	94.4	9.9	3.1	45.5	23.6	6.5	-	4.3	6.6
4	FH 3555	-	14.7	43.5	13.6	-	19.9	-	-	12.9	-	-	40.6	-	1.1	-	-	-	6.7	18.9	6.3	-	15.4	7.5	4.9	52.7	17.4	10.7	72.3	32.1	18.7	2.2	17.6	6.3
5	K 75	2.5	20.1	42.1	17.4	-	-	-	22	-	-	1	37	12.9	13.2	56.1	12.9	-	3.3	29.5	11.9	-	13.2	25.9	4.6	28.1	2.5	8.2	127.8	32.9	8	16.9	20.8	9.8
6	DH-230	-	-	54.8	-	-	1.2	-	-	-	-	3.8	-	-	-	-	-	-	-	-	-	-	-	29.9	-	47.9	-	-	32.2	3.6	3.3	-	-	-
CHECKS																																		
7	Vivek Hybrid 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Vivek QPM 9	-	-	69.3	7.2	-	9.8	-	-	-	-	2.4	10.9	-	0.2	-	-	-	-	0.2	4.4	4.5	11.6	12.3	2.2	-	21.6	-	71.8	8.5	-	-	7.3	2

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9																													OVL			
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5												
		ALMO	BAJA	KANG	MEAN	DELH	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	MEAN	MEAN
1	FH 3556	5.8	27.2	19.9	18.9	16.2	6.8	25.1	14.9	14.7	14.7	-	20.5	0.9	33.5	15.5	12.5	6	34.6	33.9	0.3	-	-	44.3	9.5	126.7	-	19	30.2	35.3	36.3	18.9	19.6	14.4
2	FH 3554	-	24.2	12.3	10.2	-	0.3	38	26.3	14.3	5.4	-	-	-	48.1	43.6	6.2	3.9	16.1	2.6	5.7	-	-	27.7	3.5	122.7	-	16.2	56.9	17.7	7.7	4.4	14	7.4
3	FH 3558	-	12.6	17.9	9.4	-	3.2	35.3	24.3	10.6	5.4	-	19.8	12.4	23.4	19.1	11.2	-	27.8	9.1	-	-	23.1	2.8	137.9	-	3.9	-	14	19.9	-	-	4.5	
4	FH 3555	-	20.8	-	5.9	-	9.2	4.3	-	32.7	4.7	-	26.8	-	0.9	4.8	-	4.8	10	18.7	1.8	-	3.4	-	2.6	86.9	-	11.6	0.3	21.8	33.6	3.7	9.6	4.2
5	K 75	2.8	26.6	-	9.5	-	-	21.1	26.9	-	6.1	-	23.5	29.9	13	66	13.1	-	6.5	29.3	7.2	-	1.4	12.1	2.3	56.7	-	9	32.6	22.6	21.6	18.6	12.6	7.7
6	DH-230	-	-	-	-	-	-	23.1	-	11.3	-	1.4	-	-	-	-	-	-	-	-	-	-	-	15.7	-	81	-	-	-	-	16.3	-	-	-
CHECKS																																		
7	Vivek Hybrid 9	0.3	5.3	-	-	1.9	-	38.2	4	17.5	7.3	-	-	15	-	6.3	0.1	12.2	3.1	-	-	-	-	-	-	22.4	-	0.8	-	-	12.6	1.4	-	-
8	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): VARA 24.1 %: AMBI 20.4 %



## B207

Table No. 8 (Continued)

DAYS TO 75% DRY HUSK																
S.No.	PEDIGREE	ZN 1							ZN 2					ZN 3		
		ALMO	BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	FH 3556	93.7	95.3	85.0	91.3	97.3	86.0	77.3	85.7	86.6	82.7	79.7	80.3	83.0	79.0	80.9
2	FH 3554	90.0	91.0	84.5	88.5	100.7	87.7	77.0	82.7	87.0	80.3	78.0	78.7	83.3	80.3	80.1
3	FH 3558	93.0	94.0	82.5	89.8	100.3	88.0	76.3	81.7	86.6	79.0	77.3	79.0	83.3	80.3	79.8
4	FH 3555	96.7	94.3	83.5	91.5	98.7	85.3	79.0	86.0	87.3	82.3	83.0	82.0	82.3	79.7	81.9
5	K 75	93.0	93.7	83.5	90.1	95.3	86.3	74.7	81.0	84.3	82.0	77.7	77.7	82.0	80.3	79.9
6	DH-230	94.7	92.7	84.0	90.4	93.3	89.0	76.3	84.7	85.8	81.0	79.7	78.7	83.0	78.3	80.1
CHECKS																
7	Vivek Hybrid 9	94.7	94.0	82.5	90.4	92.7	87.0	75.7	84.7	85.0	80.7	79.0	82.3	80.7	79.3	80.4
8	Vivek QPM 9	94.3	91.3	82.5	89.4	92.3	87.3	75.0	81.7	84.1	78.3	76.3	79.7	80.0	78.0	78.5
Loc. Mean		93.8	93.3	83.5	90.2	96.3	87.1	76.4	83.5	85.8	80.8	78.8	79.8	82.2	79.4	80.2
C.D. (5%)		1.77	2.84	1.55	2.47	11.94	1.77	1.17	0.91	3.03	1.42	2.68	2.58	2.52	2.66	1.72
C.V. (%)		1.08	1.74	0.78	1.56	7.08	1.16	0.87	0.62	2.40	1.01	1.94	1.85	1.75	1.92	1.66
F (Prob)		0.00	0.06	0.04	0.26	0.64	0.01	0.00	0.00	0.25	0.00	0.00	0.02	0.09	0.41	0.03

DAYS TO 75% DRY HUSK																
S.No.	PEDIGREE	ZN 4							ZN 5					OV'L		
		COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
1	FH 3556	82.3	81.7	73.0	89.3	91.7	98.7	86.1	85.0	70.3	87.3	72.0	82.7	82.7	80.0	84.2
2	FH 3554	82.7	83.3	72.3	89.7	88.3	96.7	85.5	84.7	68.0	84.0	76.0	81.7	82.3	79.4	83.5
3	FH 3558	80.0	83.3	72.0	87.7	88.7	98.7	85.1	85.0	69.7	86.7	78.0	74.0	81.0	79.1	83.3
4	FH 3555	82.0	82.7	73.0	87.3	91.7	99.0	85.9	84.0	67.7	89.7	78.0	87.0	84.7	81.8	85.0
5	K 75	85.0	82.7	72.0	88.3	90.0	99.3	86.2	82.7	68.3	86.3	75.0	76.7	82.0	78.5	83.1
6	DH-230	81.0	82.3	72.3	90.0	90.7	97.3	85.6	83.3	69.0	86.0	80.5	83.3	83.7	81.0	84.0
CHECKS																
7	Vivek Hybrid 9	80.0	83.7	70.7	87.0	91.0	96.7	84.8	85.3	70.0	88.3	76.5	84.7	83.0	81.3	83.8
8	Vivek QPM 9	80.3	82.3	70.7	89.0	91.7	97.3	85.2	88.5	69.7	88.0	78.0	73.3	80.7	79.7	82.8
Loc. Mean		81.7	82.8	72.0	88.5	90.5	98.0	85.6	84.8	69.1	87.0	76.8	80.4	82.5	80.1	83.7
C.D. (5%)		0.56	1.88	0.90	1.80	2.71	2.81	1.37	2.07	1.02	1.87	4.26	7.07	1.49	3.01	1.03
C.V. (%)		0.39	1.30	0.71	1.16	1.71	1.64	1.37	1.40	0.84	1.23	2.35	5.02	1.03	3.21	2.16
F (Prob)		0.00	0.39	0.00	0.02	0.09	0.30	0.37	0.00	0.00	0.00	0.05	0.01	0.00	0.31	0.00

B208

Table No. 8 (Continued)

STAND AT HARVEST ('000/ha)																	
S.No.	PEDIGREE	ZN 1								ZN 2				ZN 3			
		ALMO	BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	FH 3556	65.3	74.4	80.7	73.5	52.5	76.4	62.8	72.0	50.8	62.9	59.7	67.4	55.3	68.8	58.7	62.0
2	FH 3554	63.9	70.6	79.0	71.1	46.9	78.1	62.8	75.7	56.7	64.0	72.2	67.7	53.9	69.4	72.2	67.1
3	FH 3558	63.9	80.0	78.1	74.0	51.1	76.0	61.9	70.5	52.5	62.4	67.0	67.0	55.6	69.8	76.0	67.1
4	FH 3555	63.4	73.9	78.1	71.8	60.6	79.2	61.1	74.5	56.7	66.4	67.0	68.8	51.7	62.8	78.8	65.8
5	K 75	63.9	74.4	74.7	71.0	60.6	77.1	62.8	69.0	55.8	65.0	67.7	68.1	51.4	66.7	77.1	66.2
6	DH-230	60.2	70.0	79.0	69.7	57.8	77.8	62.2	73.9	56.7	65.7	75.0	68.1	51.4	68.1	75.3	67.6
CHECKS																	
7	Vivek Hybrid 9	60.2	79.4	73.8	71.1	64.2	77.4	62.2	71.7	53.6	65.8	69.1	66.3	55.8	65.3	70.5	65.4
8	Vivek QPM 9	59.7	69.4	75.5	68.2	57.8	76.0	61.4	73.6	53.3	64.4	68.1	66.7	55.8	64.2	53.5	61.7
Loc. Mean		62.6	74.0	77.4	71.3	56.4	77.3	62.2	72.6	54.5	64.6	68.2	67.5	53.9	66.9	70.3	65.3
C.D. (5%)		4.90	6.52	4.51	5.03	16.32	3.34	1.47	2.79	4.42	3.81	5.87	3.99	8.27	5.87	11.18	6.15
C.V. (%)		4.48	5.03	2.46	4.03	16.52	2.47	1.35	2.19	4.63	4.55	4.91	3.38	8.76	5.01	9.08	7.27
F (Prob)		0.17	0.02	0.07	0.33	0.39	0.47	0.18	0.00	0.08	0.36	0.00	0.90	0.77	0.18	0.00	0.35

S.No.	PEDIGREE	ZN 4										ZN 5		OV'L				
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	FH 3556	58.9	65.6	56.1	57.2	65.3	58.6	61.5	60.5	75.3	58.7	63.6	59.4	43.2	59.3	68.1	61.1	62.8
2	FH 3554	58.9	66.3	62.8	65.8	65.6	59.2	56.6	62.2	75.7	59.4	64.2	57.8	52.0	64.8	68.4	63.2	64.7
3	FH 3558	56.4	65.6	60.3	63.1	66.1	60.4	57.6	61.4	72.6	61.8	60.8	69.8	68.4	64.8	68.1	66.6	65.4
4	FH 3555	58.3	66.0	57.2	55.8	65.8	57.7	58.7	59.9	64.2	62.8	61.4	47.9	49.3	67.0	66.3	59.9	63.5
5	K 75	58.9	64.9	62.8	53.9	63.9	60.1	56.9	60.2	68.1	58.7	61.4	58.9	50.0	59.6	68.1	60.7	63.5
6	DH-230	56.9	65.3	59.2	60.8	65.8	57.1	56.3	60.2	69.4	62.2	63.9	57.3	55.8	65.2	70.8	63.5	64.5
CHECKS																		
7	Vivek Hybrid 9	58.6	65.3	58.3	63.3	66.7	58.6	56.3	61.0	68.8	64.6	61.1	75.0	52.4	63.0	67.4	64.6	64.8
8	Vivek QPM 9	60.6	66.0	59.2	55.8	66.7	57.7	56.9	60.4	62.5	59.0	61.1	53.6	52.7	62.6	72.9	60.6	62.3
Loc. Mean		58.4	65.6	59.5	59.5	65.7	58.7	57.6	60.7	69.6	60.9	62.2	60.0	53.0	63.3	68.8	62.5	63.9
C.D. (5%)		7.86	1.09	7.14	2.10	3.61	5.06	4.39	2.33	15.63	6.85	6.03	7.36	13.33	4.10	5.91	5.02	1.99
C.V. (%)		7.68	0.95	6.86	2.02	3.14	4.92	4.36	3.55	12.83	6.42	5.54	5.19	14.37	3.70	4.91	7.45	5.80
F (Prob)		0.97	0.21	0.45	0.00	0.78	0.83	0.26	0.56	0.55	0.48	0.81	0.00	0.05	0.01	0.38	0.12	0.03



## B210

Table No. 8 (Continued)

		PLANT HEIGHT(cm)															
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					
		ALMO	BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	FH 3556	213.3	218.3	193.0	208.2	149.7	174.7	190.0	170.0	166.7	170.2	124.7	140.7	138.8	184.1	142.5	146.1
2	FH 3554	208.3	218.3	177.5	201.4	145.0	166.0	185.0	206.7	187.7	178.1	143.7	140.1	153.2	185.8	145.0	153.5
3	FH 3558	226.7	248.3	221.0	232.0	141.3	178.7	195.0	200.0	178.3	178.7	140.3	135.9	149.2	197.7	142.5	153.1
4	FH 3555	205.0	211.7	176.5	197.7	155.7	175.7	185.0	188.3	181.7	177.3	137.3	131.1	151.5	177.1	140.0	147.4
5	K 75	223.3	240.0	196.0	219.8	173.3	165.3	195.0	213.3	184.7	186.3	149.0	152.3	165.2	195.9	147.5	162.0
6	DH-230	220.0	243.3	215.0	226.1	170.3	168.3	190.0	211.7	184.3	184.9	156.0	137.9	158.8	204.3	152.5	161.9
CHECKS																	
7	Vivek Hybrid 9	213.3	223.3	191.0	209.2	181.7	164.7	200.0	190.0	189.0	185.1	149.7	151.3	155.3	196.1	167.5	164.0
8	Vivek QPM 9	211.7	225.0	211.5	216.1	174.7	178.3	185.0	195.0	182.3	183.1	155.7	155.7	154.7	205.9	147.5	163.9
	Loc. Mean	215.2	228.5	197.7	213.8	161.5	171.5	190.6	196.9	181.8	180.5	144.5	143.1	153.3	193.4	148.1	156.5
	C.D. (5%)	5.93	30.23	15.97	12.04	15.09	8.75	-	21.18	10.96	13.12	15.57	5.81	19.97	12.02	-	8.03
	C.V. (%)	1.57	7.55	3.42	3.21	5.34	2.91	-	6.14	3.44	5.61	6.15	2.32	7.44	3.55	-	3.96
	F (Prob)	0.00	0.16	0.00	0.00	0.00	0.01	-	0.01	0.02	0.23	0.01	0.00	0.30	0.00	-	0.00

		PLANT HEIGHT(cm)																
S.No.	PEDIGREE	ZN 4										ZN 5		OV'L				
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	JHAB	UDAI	Mean	Mean
1	FH 3556	131.0	171.2	178.3	176.7	145.0	178.3	133.4	159.1	171.1	170.6	166.7	121.5	136.3	132.4	148.3	149.6	161.8
2	FH 3554	135.0	196.1	197.3	198.3	168.3	201.0	142.9	177.0	170.2	173.9	183.3	140.0	155.0	144.0	180.0	163.8	172.1
3	FH 3558	130.0	175.0	192.7	210.0	178.3	199.0	150.1	176.4	170.0	172.2	181.7	128.5	143.3	135.2	163.3	156.3	173.5
4	FH 3555	133.5	152.3	178.0	188.3	141.7	187.0	146.5	161.1	167.0	162.9	166.7	124.5	139.7	127.7	146.7	147.9	162.2
5	K 75	145.5	183.1	188.0	210.0	171.7	202.7	157.6	179.8	160.3	173.9	191.7	152.0	155.0	148.3	170.0	164.4	178.2
6	DH-230	138.0	187.1	175.7	186.7	176.7	188.3	131.1	169.1	170.3	179.1	176.7	143.0	153.7	145.2	176.7	163.5	175.6
CHECKS																		
7	Vivek Hybrid 9	145.0	175.9	181.3	210.0	160.0	196.0	150.5	174.1	169.7	162.1	183.3	141.5	147.3	146.0	163.3	159.0	174.3
8	Vivek QPM 9	144.5	186.3	192.7	206.7	183.3	190.7	141.5	178.0	156.9	180.5	186.7	150.0	162.0	139.6	180.0	165.1	177.2
	Loc. Mean	137.8	178.4	185.5	198.3	165.6	192.9	144.2	171.8	166.9	171.9	179.6	137.6	149.0	139.8	166.0	158.7	171.8
	C.D. (5%)	13.32	11.88	11.50	15.91	11.93	16.19	26.51	8.81	23.92	12.31	15.03	29.78	17.53	15.10	7.76	7.16	4.50
	C.V. (%)	5.52	3.80	3.54	4.58	4.11	4.79	10.50	4.75	8.18	4.09	4.78	9.15	6.72	6.17	2.67	4.18	4.88
	F (Prob)	0.11	0.00	0.01	0.00	0.00	0.08	0.45	0.00	0.85	0.05	0.03	0.26	0.08	0.10	0.00	0.00	0.00



B211

Table No. 8 (Continued)

EAR HEIGHT(cm)																	
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					
		ALMO	BAJA	KANG	Mean	DELH	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	FH 3556	110.0	128.3	103.0	113.8	76.7	62.0	110.0	86.7	61.7	79.4	57.3	73.5	67.7	96.0	72.5	73.4
2	FH 3554	105.0	128.3	96.0	109.8	73.3	56.3	110.0	111.7	72.7	84.8	72.7	70.0	72.8	99.1	75.0	77.9
3	FH 3558	123.3	140.3	116.5	126.7	69.3	65.3	110.0	100.0	62.0	81.3	64.7	69.3	65.5	102.7	65.0	73.4
4	FH 3555	93.3	106.7	93.5	97.8	71.3	68.7	95.0	95.0	64.0	78.8	55.7	53.1	63.3	83.3	57.5	62.6
5	K 75	101.7	120.0	93.5	105.1	81.3	71.7	110.0	95.0	68.3	85.3	61.3	67.0	69.8	95.0	70.0	72.6
6	DH-230	113.3	138.3	109.5	120.4	88.0	73.3	100.0	106.7	67.7	87.1	67.3	57.8	79.3	96.8	77.5	75.8
CHECKS																	
7	Vivek Hybrid 9	95.0	105.0	92.0	97.3	76.3	64.0	100.0	86.7	57.7	76.9	52.7	60.0	59.7	87.9	55.0	63.1
8	Vivek QPM 9	100.0	115.0	90.5	101.8	77.0	63.0	95.0	101.7	68.0	80.9	65.0	69.8	64.8	91.3	60.0	70.2
	Loc. Mean	105.2	122.8	99.3	109.1	76.7	65.5	103.8	97.9	65.3	81.8	62.1	65.1	67.9	94.0	66.6	71.1
	C.D. (5%)	6.65	28.23	12.86	6.55	12.40	2.92	-	22.54	8.00	7.99	15.12	4.62	18.23	11.88	-	6.02
	C.V. (%)	3.61	13.13	5.47	3.43	9.24	2.55	-	13.14	7.00	7.54	13.90	4.06	15.34	7.21	-	6.54
	F (Prob)	0.00	0.12	0.02	0.00	0.12	0.00	-	0.27	0.03	0.16	0.17	0.00	0.45	0.07	-	0.00

EAR HEIGHT(cm)																
S.No.	PEDIGREE	ZN 4								ZN 5				OV'L		
		ARBH	COIM	HYDE	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	BHIL	UDAI	Mean	Mean
1	FH 3556	59.0	81.4	70.3	71.7	91.0	63.7	72.9	50.3	93.9	83.3	53.0	64.8	70.0	69.2	78.3
2	FH 3554	58.5	99.5	82.7	86.7	96.7	67.7	82.0	51.1	97.1	90.0	58.5	80.9	90.0	77.9	84.1
3	FH 3558	56.5	90.7	77.3	93.3	87.0	68.1	78.8	48.3	88.8	86.7	52.0	70.3	80.0	71.0	82.1
4	FH 3555	50.5	69.4	62.7	55.0	81.3	68.2	64.5	41.4	81.8	68.3	47.0	66.8	60.0	60.9	70.1
5	K 75	67.5	76.6	67.7	66.7	92.3	69.5	73.4	42.3	82.3	81.7	57.0	71.0	85.0	69.9	78.6
6	DH-230	56.0	90.8	69.3	86.7	87.3	60.1	75.0	49.7	87.0	83.3	61.5	71.4	83.3	72.7	82.5
CHECKS																
7	Vivek Hybrid 9	62.0	80.5	67.3	70.0	87.0	74.8	73.6	44.2	73.8	73.3	48.0	60.3	70.0	61.6	72.1
8	Vivek QPM 9	63.0	87.0	69.7	83.3	79.3	65.2	74.6	44.6	93.7	76.7	58.5	72.7	83.3	71.6	77.5
	Loc. Mean	59.1	84.5	70.9	76.7	87.8	67.2	74.3	46.5	87.3	80.4	54.4	69.8	77.7	69.4	78.2
	C.D. (5%)	9.16	7.61	13.44	12.58	11.95	10.05	7.75	9.24	23.93	11.36	21.26	15.70	8.83	5.22	3.38
	C.V. (%)	8.85	5.15	10.83	9.37	7.77	8.54	8.89	11.35	15.65	8.07	16.52	12.85	6.49	6.42	7.74
	F (Prob)	0.04	0.00	0.13	0.00	0.12	0.18	0.01	0.23	0.49	0.02	0.68	0.29	0.00	0.00	0.00



TABLE No. 9 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SeedTech 2324				GRAIN YIELD % SUPERIORITY OVER THE Bio 9681			
		BAJA	KANG	UDHA	ZN 1 MEAN	BAJA	KANG	UDHA	ZN 1 MEAN
1	Bisco New 704	30.7	24.1	8.5	23.4	-	-	-	-
2	Bio 9681(Filler)	20.1	-	8.7	11.6	-	-	-	-
CHECKS									
3	PMH 1	12.9	-	2.5	4.1	-	-	-	-
4	PMH 3	25.5	13	6.8	17.9	-	-	-	-
5	SeedTech 2324	-	-	-	-	-	-	-	-
6	Bio 9681	35.4	39.6	19.6	32.1	-	-	-	-

S.N	PEDIGREE	STAND AT HARVEST ('000/ha)				MOISTURE % AT HARVEST			
		BAJA	KANG	UDHA	ZN 1 Mean	BAJA	KANG	UDHA	ZN 1 Mean
1	Bisco New 704	60.9	107.6	42.2	70.3	22.8	26.5	24.9	24.7
2	Bio 9681(Filler)	62.2	112.8	42.4	72.5	22.3	31.1	26.0	26.5
CHECKS									
3	PMH 1	60.9	108.5	43.5	71.0	23.2	26.5	26.3	25.3
4	PMH 3	59.1	113.7	42.4	71.7	22.9	31.6	26.6	27.0
5	SeedTech 232	58.3	105.9	41.7	68.6	23.1	30.2	26.6	26.6
6	Bio 9681	62.0	111.1	41.9	71.7	22.9	32.8	26.0	27.2
	Loc. Mean	60.6	110.0	42.3	71.0	22.9	29.8	26.1	26.2
	C.D. (5%)	5.64	5.99	1.46	3.35	0.22	4.37	1.16	2.80
	C.V. (%)	6.17	2.12	2.29	2.59	0.65	5.71	2.95	5.87
	F (Prob)	0.64	0.10	0.22	0.23	0.00	0.05	0.06	0.35

Table No. 9 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %				DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING			
		BAJA	KANG	UDHA	ZN 1 Mean	BAJA	KANG	UDHA	ZN 1 Mean	BAJA	KANG	UDHA	ZN 1 Mean
1	Bisco New 704	81.9	79.5	80.6	80.7	59.3	56.0	55.0	56.8	61.3	58.5	59.3	59.7
2	Bio 9681(Filler)	86.1	80.2	75.7	80.7	57.3	52.0	49.5	52.9	59.3	55.0	52.8	55.7
CHECKS													
3	PMH 1	82.8	75.7	74.1	77.5	59.0	54.5	52.5	55.3	61.5	57.5	56.5	58.5
4	PMH 3	83.2	81.5	72.3	79.0	60.5	56.0	51.5	56.0	62.5	58.5	55.5	58.8
5	SeedTech 2324	81.4	78.9	72.4	77.6	59.8	56.0	51.0	55.6	62.0	59.5	54.3	58.6
6	Bio 9681	85.8	80.7	74.8	80.4	57.3	49.0	50.8	52.3	59.3	52.0	54.5	55.3
	Loc. Mean	83.5	79.4	75.0	79.3	58.8	53.9	51.7	54.8	61.0	56.8	55.5	57.8
	C.D. (5%)	-	4.18	8.12	4.19	1.73	6.87	1.21	2.61	1.86	6.30	1.22	2.85
	C.V. (%)	-	2.05	7.18	2.90	1.95	4.96	1.55	2.61	2.02	4.31	1.46	2.72
	F (Prob)	-	0.12	0.33	0.35	0.00	0.19	0.00	0.02	0.01	0.15	0.00	0.03

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK				PLANT HEIGHT(cm)				EAR HEIGHT(cm)			
		BAJA	KANG	UDHA	ZN 1 Mean	BAJA	KANG	UDHA	ZN 1 Mean	BAJA	KANG	UDHA	ZN 1 Mean
1	Bisco New 704	110.0	97.0	93.0	100.0	200.0	173.5	196.8	190.1	90.8	86.0	83.9	86.9
2	Bio 9681(Filler)	101.0	95.0	93.3	96.4	199.5	195.0	209.8	201.4	88.0	93.0	76.5	85.8
CHECKS													
3	PMH 1	100.0	97.5	92.5	96.7	193.8	161.5	243.0	199.4	97.0	74.5	106.2	92.6
4	PMH 3	108.8	97.5	93.3	99.8	225.0	199.5	251.3	225.3	111.3	95.5	112.1	106.3
5	SeedTech 2324	111.0	98.0	93.0	100.7	213.8	169.5	188.5	190.6	118.8	82.0	81.4	94.1
6	Bio 9681	102.3	95.5	93.3	97.0	202.5	179.0	231.5	204.3	98.8	82.0	85.1	88.6
	Loc. Mean	105.5	96.8	93.0	98.4	205.8	179.7	220.1	201.8	100.8	85.5	90.9	92.4
	C.D. (5%)	4.07	3.88	0.96	4.95	12.91	17.42	15.01	29.12	10.00	19.78	10.57	20.18
	C.V. (%)	2.56	1.56	0.69	2.76	4.16	3.77	4.52	7.93	6.58	9.00	7.72	12.01
	F (Prob)	0.00	0.39	0.54	0.27	0.00	0.01	0.00	0.18	0.00	0.23	0.00	0.31

## B215

TABLE No. 10

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, LUDHIANA, PANTNAGAR IN TRIAL No. 69Z2 (AET2-L-Z2) DURING KHARIF (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER					GRAIN YIELD % SUPERIORITY OVER															
		DELH		KARN		LUDH		PANT		ZN 2		THE PMH 1			ZN 2		THE PMH 3			ZN 2										
		R	R	R	R	R	R	R	R	MEAN	R	DELH	KARN	LUDH	PANT	MEAN	DELH	KARN	LUDH	PANT	MEAN									
1	CMH08-287	5810	1	4569	7	-	3465	8	4614	8	26.1	0.4	-	-	-	38.5	-	-	-	-										
2	NMH-713	4854	2	5365	4	11737	2	5440	5	6849	3	5.3	18	3.8	-	-	15.7	-	-	-	-									
3	Bio 9681(Filler)	3619	7	5028	6	9632	4	5271	6	5888	6	-	10.6	-	-	-	-	-	-	-	-									
4	Bio 9637(Filler)	4383	4	5275	5	9629	5	6022	3	6327	4	-	16	-	-	-	4.5	-	-	-	-									
CHECKS																														
5	PMH 1	4608	3	4549	8	11313	3	8559	1	7257	1	-	-	-	-	-	9.8	-	-	22	1									
6	PMH 3	4196	5	5633	2	11892	1	7015	2	7184	2	-	23.8	5.1	-	-	-	-	-	-	-									
7	SeedTech 2324	3290	8	6166	1	7851	7	3721	7	5257	7	-	35.6	-	-	-	-	9.5	-	-	-									
8	Bio 9681	3664	6	5522	3	9231	6	5622	4	6010	5	-	21.4	-	-	-	-	-	-	-	-									
Location Mean		4303		5263		10184		5639		6347																				
Mean Stand		106		109		104		93		103																				
C.D. (5%)		1335		515		486		755		773																				
C.V. (%)		17.59		5.54		2.65		7.59		-																				
F (Prob)		0.016		0		0		0																						
Plot Size		18		18		15.6		18		-																				
AGRONOMY DATA																														
Sowing Date		6-07		9-07		23-06		9-07		-																				
Harvest Date		25-10		12-10		5-10		19-10		-																				
Irrigation Nos		2		6		4		1		-																				
Fertilizer Applied N		120		150		50		120		-																				
Fertilizer Applied P		60		60		24		60		-																				
Fertilizer Applied K		40		60		12		40		-																				

## B216

TABLE No. 10 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER					GRAIN YIELD % SUPERIORITY				
		THE SeedTech 2324				ZN 2	OVER THE Bio 9681				ZN 2
		DELH	KARN	LUDH	PANT	MEAN	DELH	KARN	LUDH	PANT	MEAN
1	CMH08-287	76.6	-	-	-	-	58.6	-	-	-	-
2	NMH-713	47.6	-	49.5	46.2	30.3	32.5	-	27.2	-	14
3	Bio 9681(Filler)	10	-	22.7	41.7	12	-	-	4.3	-	-
4	Bio 9637(Filler)	33.2	-	22.6	61.9	20.4	19.6	-	4.3	7.1	5.3
CHECKS											
5	PMH 1	40.1	-	44.1	130	38	25.8	-	22.6	52.2	20.8
6	PMH 3	27.6	-	51.5	88.5	36.7	14.5	2	28.8	24.8	19.5
7	SeedTech 2324	-	-	-	-	-	-	11.7	-	-	-
8	Bio 9681	11.4	-	17.6	51.1	14.3	-	-	-	-	-

S.N	PEDIGREE	MOISTURE % AT HARVEST					GRAIN SHELLING %				
		DELH	KARN	LUDH	PANT	ZN 2 Mean	DELH	KARN	LUDH	PANT	ZN 2 Mean
1	CMH08-287	27.1	24.4	-	28.7	26.7	85.8	67.4	-	83.2	78.8
2	NMH-713	24.3	25.6	23.3	28.4	25.4	85.4	68.3	88.5	81.7	81.0
3	Bio 9681(Filler)	20.3	25.0	20.8	26.3	23.1	85.2	66.8	85.8	83.2	80.2
4	Bio 9637(Filler)	27.6	25.3	24.8	29.1	26.7	86.0	66.7	85.5	87.5	81.4
CHECKS											
5	PMH 1	26.2	23.9	23.5	28.0	25.4	80.9	64.3	83.6	84.2	78.2
6	PMH 3	34.2	28.1	24.9	27.3	28.6	83.0	69.8	86.5	87.3	81.6
7	SeedTech 232	34.4	29.2	26.9	28.9	29.8	84.8	68.4	86.8	87.3	81.8
8	Bio 9681	23.0	26.4	20.2	26.3	23.9	80.7	63.3	86.5	86.1	79.1
	<b>Loc. Mean</b>	<b>27.1</b>	<b>26.0</b>	<b>23.5</b>	<b>27.9</b>	<b>26.2</b>	<b>84.0</b>	<b>66.9</b>	<b>86.2</b>	<b>85.0</b>	<b>80.3</b>
	C.D. (5%)	3.63	0.78	1.67	1.94	3.34	1.56	0.80	1.31	2.49	3.33
	C.V. (%)	7.65	1.72	3.75	3.98	8.67	1.06	0.68	0.80	1.67	2.82
	F (Prob)	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.21







## B219

TABLE No. 11 (Cont..)

SI No	PEDIGREE	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
1	A 7501	14.2	52.1	6.7	26.1	19.1	17.9	4.7	18.9	-	9.9
2	BIO-562	12.8	38	3.2	32.4	17.7	16.4	-	15	3.2	8.7
3	CMH08-287	11.1	19.4	-	34.2	14.6	14.6	-	11	4.6	5.8
4	Bio 9681 (Filler)	4	0.9	-	7.8	-	7.3	-	-	-	-
5	M 9977	-	12.8	-	23.3	1.4	-	-	-	-	-
6	X35A176	5.1	81.3	-	5.4	9.2	8.5	24.8	2.9	-	0.8
7	SeedTech 2324 (Filler)	-	3.4	-	-	-	2.9	-	-	-	-
CHECKS											
8	PMH 1	10.1	23.4	-	26.4	9.3	13.7	-	-	-	0.9
9	PMH 3	2.5	36.4	2.1	24.6	12	5.8	-	13.8	-	3.4
10	SeedTech 2324	-	-	-	-	-	3.2	-	11.4	-	-
11	Bio 9681	-	45.3	-	28.3	8.3	-	-	-	-	-
MOISTURE % AT HARVEST											
S.N.PEDIGREE		MOISTURE % AT HARVEST					GRAIN SHELLING %				
		BHUB	DHOL	RANC	VARA	ZN 3 Mean	BHUB	DHOL	RANC	VARA	ZN 3 Mean
1	A 7501	19.0	27.2	26.3	25.5	24.5	79.3	85.7	87.0	82.7	83.7
2	BIO-562	19.6	25.3	26.7	29.6	25.3	79.4	76.9	85.9	79.0	80.3
3	CMH08-287	19.3	27.9	26.9	31.8	26.5	77.8	81.8	84.3	79.5	80.8
4	Bio 9681 (Filler)	17.3	25.1	26.6	29.1	24.5	80.6	77.7	84.1	77.0	79.8
5	M 9977	17.3	24.5	26.8	34.9	25.9	80.6	80.0	86.2	75.5	80.6
6	X35A176	20.4	25.4	25.3	33.9	26.2	79.5	84.6	86.1	79.2	82.3
7	SeedTech 2324 (Filler)	16.9	25.8	25.0	34.3	25.5	77.6	76.9	87.2	77.2	79.7
CHECKS											
8	PMH 1	19.3	28.3	27.5	31.0	26.5	78.6	83.3	85.0	76.7	80.9
9	PMH 3	19.0	24.1	26.8	30.7	25.2	79.5	83.3	83.8	79.5	81.5
10	SeedTech 2324	18.0	28.9	25.1	28.6	25.1	77.6	81.8	82.6	77.8	80.0
11	Bio 9681	17.3	25.4	26.9	28.9	24.6	77.9	85.7	81.2	83.2	82.0
	Loc. Mean	18.5	26.1	26.3	30.7	25.4	78.9	81.6	84.8	78.8	81.1
	C.D. (5%)	0.00	4.63	1.16	0.95	2.69	-	-	2.49	6.48	3.30
	C.V. (%)	0.00	10.39	2.59	1.82	7.34	-	-	1.72	4.83	2.82
	F (Prob)	0.00	0.43	0.00	0.00	0.77	0.00	0.00	0.00	0.35	0.37

B220

Table No. 11 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING				
		BHUB	DHOL	RANC	VARA	Mean	BHUB	DHOL	RANC	VARA	Mean	BHUB	DHOL	RANC	VARA	Mean
		ZN 3					ZN 3					ZN 3				
1	A 7501	66.7	44.3	33.1	65.7	52.5	55.0	56.0	50.3	53.7	53.8	58.0	57.3	54.0	57.7	56.8
2	BIO-562	66.0	41.1	37.2	64.1	52.1	53.0	55.7	50.0	54.3	53.3	55.0	57.3	54.3	57.7	56.1
3	CMH08-287	21.5	32.4	34.1	65.3	38.3	54.0	55.3	50.0	54.0	53.3	54.7	57.0	54.0	59.0	56.2
4	Bio 9681 (Filler)	66.2	43.5	36.9	63.0	52.4	53.7	52.3	44.7	52.0	50.7	54.7	53.3	50.0	55.3	53.3
5	M 9977	68.1	43.0	32.1	62.0	51.3	53.7	56.0	51.0	54.3	53.8	54.0	57.3	55.0	60.0	56.6
6	X35A176	67.8	48.9	35.9	63.2	54.0	55.7	57.3	50.3	54.7	54.5	58.7	59.7	54.3	60.7	58.3
7	SeedTech 2324 (Filler)	65.7	39.4	32.7	60.4	49.6	53.3	56.3	51.7	56.0	54.3	56.3	58.0	55.3	60.0	57.4
CHECKS																
8	PMH 1	67.1	37.2	41.7	64.8	52.7	53.0	54.7	50.3	56.7	53.7	55.0	56.0	54.0	60.7	56.4
9	PMH 3	65.3	39.4	38.7	62.7	51.5	55.7	55.7	50.3	55.7	54.3	58.7	57.3	54.7	59.3	57.5
10	SeedTech 2324	67.1	39.4	34.7	64.8	51.5	56.0	56.0	51.0	55.3	54.6	58.7	57.7	54.7	59.3	57.6
11	Bio 9681	67.8	39.4	35.9	59.5	50.7	52.3	52.3	44.3	53.3	50.6	53.3	53.3	49.3	56.7	53.2
	Loc. Mean	62.7	40.7	35.7	63.2	50.6	54.1	55.2	49.5	54.5	53.3	56.1	56.8	53.6	58.8	56.3
	C.D. (5%)	3.00	10.80	4.60	6.44	10.06	3.30	1.22	1.74	1.96	1.68	1.26	1.53	1.54	2.10	1.63
	C.V. (%)	2.81	15.56	7.55	5.98	13.77	3.58	1.29	2.06	2.11	2.18	1.32	1.58	1.68	2.10	2.00
	F (Prob)	0.00	0.27	0.01	0.60	0.20	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHECKS																
DAYS TO 75% DRY HUSK																
S.No.	PEDIGREE	DAYS TO 75% DRY HUSK					PLANT HEIGHT(cm)					EAR HEIGHT(cm)				
		BHUB	DHOL	RANC	VARA	Mean	BHUB	DHOL	RANC	VARA	Mean	BHUB	DHOL	RANC	VARA	Mean
		ZN 3					ZN 3					ZN 3				
1	A 7501	95.7	84.3	88.3	93.0	90.3	134.7	148.3	163.5	166.3	153.2	61.9	70.7	76.2	83.0	72.9
2	BIO-562	94.0	84.0	88.7	88.0	88.7	163.1	175.7	197.4	198.8	183.7	72.0	83.0	92.5	90.0	84.4
3	CMH08-287	94.0	83.0	88.3	91.5	89.2	166.1	176.7	207.8	155.0	176.4	74.6	83.3	102.3	67.5	81.9
4	Bio 9681 (Filler)	94.3	80.3	85.7	87.7	87.0	153.4	162.7	189.0	172.5	169.4	68.5	73.3	85.2	73.8	75.2
5	M 9977	93.7	84.0	90.0	91.0	89.7	153.5	174.7	185.0	177.5	172.7	64.2	89.0	84.3	76.3	78.4
6	X35A176	95.7	85.7	88.3	93.7	90.8	151.1	183.0	176.6	180.0	172.7	63.0	83.3	68.8	78.8	73.5
7	SeedTech 2324 (Filler)	95.0	85.0	91.0	92.0	90.8	148.2	148.3	166.5	161.3	156.1	64.6	77.0	95.5	87.5	81.1
CHECKS																
8	PMH 1	94.0	81.0	88.3	90.7	88.5	187.1	194.7	201.3	182.5	191.4	94.9	105.7	105.3	91.3	99.3
9	PMH 3	94.0	82.0	89.7	92.0	89.4	184.8	183.0	201.7	202.5	193.0	85.9	93.7	103.3	102.5	96.4
10	SeedTech 2324	95.0	83.0	89.3	91.0	89.6	148.3	151.3	182.7	157.5	160.0	73.9	79.3	96.7	72.5	80.6
11	Bio 9681	93.7	78.0	85.0	87.7	86.1	162.9	173.3	195.0	167.5	174.7	69.4	72.3	84.7	72.5	74.7
	Loc. Mean	94.5	82.8	88.4	90.7	89.1	159.4	170.2	187.9	174.7	173.0	72.1	82.8	90.4	81.4	81.7
	C.D. (5%)	1.73	2.08	2.60	3.91	1.75	5.45	16.19	25.49	19.40	13.24	4.32	16.36	14.59	10.44	10.11
	C.V. (%)	1.07	1.48	1.73	2.53	1.36	2.01	5.59	7.97	6.52	5.30	3.52	11.60	9.47	7.53	8.57
	F (Prob)	0.17	0.00	0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00

## B221

TABLE No. 12  
 PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, HYDERABAD,  
 KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI IN AET 2 TRIAL No. 69Z4 (AET2-L-Z4) DURING KHARIF (2012)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		ARBH R	COIM R	HYDE R	KARI R	KOLH R	MAND R	VAGA R	MEAN R	ZN 4	OV'L	MEAN R							
1	SeedTech 2324(Filler)	9705	2	9761	4	7197	6	9190	2	5376	2	8817	2	6565	4	8087	4	8087	4
2	CMH08-287	10816	1	12316	1	8207	3	-	5010	4	7101	6	6887	3	8389	2	8389	2	
	CHECKS																		
3	PMH 1	9347	3	10855	2	8511	2	8377	4	5730	1	7950	5	7675	2	8349	3	8349	3
4	PMH 3	8026	6	10823	3	8676	1	9650	1	5184	3	8464	3	8327	1	8450	1	8450	1
5	SeedTech 2324	8796	5	9347	5	7465	5	7750	5	4437	6	9221	1	5634	6	7521	6	7521	6
6	Bio 9681	9002	4	8902	6	7622	4	8923	3	4800	5	8257	4	6442	5	7707	5	7707	5
	Location Mean	9282		10334		7946		8778		5090		8302		6922		8093		8093	
	Mean Stand	99		95		110		96		116		100		81		99		99	
	C.D. (5%)	2028		494		991		1778		432		411		533		952		952	
	C.V. (%)	14.41		3.15		8.22		13.01		4.6		3.27		5.08		-		-	
	F (Prob)	0.124		0		0.017		0.002		0		0		0					
	Plot Size	18		14.4		18		18		18		16.8		14.4		-		-	
	AGRONOMY DATA																		
	Sowing Date	24-07		5-07		1-07		27-06		20-07		25-07		9-07		-		-	
	Harvest Date	22-11		30-10		18-11		16-10		3-12		12-09		20-11		-		-	
	Irrigation Nos	3		10		1		-		-		8		12		-		-	
	Fertilizer Applied N	150		150		200		150		100		150		200		-		-	
	Fertilizer Applied P	75		75		60		50		50		75		75		-		-	
	Fertilizer Applied K	37.5		75		50		40		30		40		75		-		-	



## B223

Table No. 12 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)								MOISTURE % AT HARVEST							
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean
		ZN 4								ZN 4							
1	SeedTech 2324(Filler)	56.0	65.6	59.7	49.2	66.5	61.2	56.4	59.2	25.8	23.1	19.2	6.9	10.3	17.7	14.3	16.7
2	CMH08-287	50.1	66.3	58.5	-	66.7	57.9	55.0	59.1	26.9	22.8	15.8	-	12.8	17.6	13.4	18.2
	CHECKS																
3	PMH 1	60.3	65.3	60.3	58.5	64.8	61.5	56.9	61.1	27.2	23.0	19.4	6.6	10.8	16.4	13.7	16.7
4	PMH 3	59.4	65.6	62.8	53.6	62.6	58.2	56.6	59.8	28.1	23.0	16.9	9.4	12.8	17.1	14.1	17.3
5	SeedTech 2324	54.7	66.0	60.0	46.9	62.6	59.4	56.3	58.0	25.7	22.9	16.2	8.2	10.8	17.3	12.2	16.2
6	Bio 9681	50.6	66.0	64.0	58.8	62.6	58.0	56.9	59.6	21.6	21.9	17.1	8.0	12.0	15.3	14.0	15.7
	Loc. Mean	55.2	65.8	60.9	53.4	64.3	59.4	56.4	59.5	25.9	22.8	17.4	7.8	11.6	16.9	13.6	16.8
	C.D. (5%)	5.69	0.74	5.74	2.90	5.15	3.49	2.72	3.18	0.82	0.41	1.02	0.69	1.19	0.24	0.51	2.18
	C.V. (%)	6.84	0.75	6.26	3.22	4.41	3.90	3.20	4.89	2.09	1.19	3.89	5.23	5.64	0.93	2.51	11.89
	F (Prob)	0.01	0.11	0.36	0.00	0.29	0.15	0.69	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED								GRAIN SHELLING %							
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean
		ZN 4								ZN 4							
1	SeedTech 2324(Filler)	63.0	57.8	55.3	49.5	58.7	52.8	51.3	55.5	86.5	79.6	81.1	85.2	80.7	81.8	82.3	82.4
2	CMH08-287	63.0	58.5	55.3	-	60.3	55.3	52.8	57.5	83.8	81.6	80.5	-	84.3	80.6	82.5	82.2
	CHECKS																
3	PMH 1	62.8	56.5	55.0	46.3	59.7	53.3	51.8	55.0	84.6	78.8	81.9	83.8	85.8	80.6	82.9	82.6
4	PMH 3	63.0	50.0	55.3	49.5	60.7	55.0	50.3	54.8	85.5	80.9	80.0	85.0	84.4	83.9	82.2	83.1
5	SeedTech 2324	63.0	58.5	55.0	49.5	61.7	53.3	51.8	56.1	86.3	79.1	81.1	86.1	82.2	81.8	83.9	82.9
6	Bio 9681	59.8	47.8	54.8	44.5	60.0	49.5	47.5	52.0	84.9	79.9	80.3	83.3	81.0	79.9	82.3	81.6
	Loc. Mean	62.4	54.8	55.1	47.9	60.2	53.2	50.9	55.1	85.3	80.0	80.8	84.7	83.1	81.4	82.6	82.5
	C.D. (5%)	1.68	0.76	1.30	1.76	1.91	1.08	1.57	2.41	0.41	0.54	0.91	0.31	0.59	0.87	0.88	1.38
	C.V. (%)	1.79	0.92	1.57	2.18	1.74	1.34	2.05	4.00	0.32	0.45	0.74	0.22	0.39	0.71	0.71	1.53
	F (Prob)	0.00	0.00	0.95	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.33

## B224

Table No. 12 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING							DAYS TO 75% DRY HUSK								
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	
									ZN 4								ZN 4
1	SeedTech 2324(Filler)	65.3	60.3	58.0	49.5	59.7	55.3	54.8	57.5	102.0	109.5	78.5	92.7	95.5	108.0	97.7	
2	CMH08-287	64.3	60.8	57.3	-	61.3	58.0	56.5	59.7	104.0	109.8	-	93.3	94.8	110.5	102.5	
	CHECKS																
3	PMH 1	62.5	59.0	57.3	48.3	60.7	55.8	55.0	56.9	100.0	108.5	75.3	93.0	98.0	107.8	97.1	
4	PMH 3	65.5	52.5	57.3	50.5	61.7	58.3	54.5	57.2	97.5	109.0	77.0	92.3	95.3	108.3	96.6	
5	SeedTech 2324	63.3	60.5	57.8	50.8	63.0	55.8	55.0	58.0	102.0	108.8	79.5	93.7	97.3	109.3	98.4	
6	Bio 9681	60.3	50.5	57.0	46.8	61.0	51.5	51.5	54.1	95.0	108.3	78.0	94.3	95.0	106.0	96.1	
	Loc. Mean	63.5	57.3	57.4	49.2	61.2	55.8	54.5	57.2	100.1	109.0	77.7	93.2	96.0	108.3	98.1	
	C.D. (5%)	1.27	0.95	1.61	1.35	2.07	1.41	1.60	2.51	0.36	1.94	4.28	1.47	2.26	2.11	5.01	
	C.V. (%)	1.33	1.10	1.86	1.63	1.85	1.68	1.95	4.02	0.24	1.18	3.26	0.87	1.56	1.29	4.29	
	F (Prob)	0.00	0.00	0.78	0.00	0.07	0.00	0.00	0.00	0.00	0.56	0.23	0.11	0.04	0.01	0.15	
S.No.	PEDIGREE	PLANT HEIGHT(cm)							EAR HEIGHT(cm)								
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean
									ZN 4								ZN 4
1	SeedTech 2324(Filler)	160.5	179.4	198.5	222.5	186.7	222.0	127.3	185.3	87.5	103.1	83.5	102.5	63.3	105.8	76.7	88.9
2	CMH08-287	203.5	217.8	240.5	-	168.3	242.0	158.4	205.1	104.0	121.9	105.0	-	81.7	126.5	79.3	103.1
	CHECKS																
3	PMH 1	204.5	211.1	223.3	240.0	165.0	228.0	156.2	204.0	111.5	123.2	103.5	113.3	98.3	124.5	80.4	107.8
4	PMH 3	197.0	211.0	231.3	250.0	198.3	227.0	151.5	209.4	103.5	118.3	106.5	113.8	96.7	119.0	79.8	105.3
5	SeedTech 2324	154.0	187.4	197.5	226.3	165.0	223.5	136.2	184.3	84.0	108.8	91.0	103.8	88.3	112.0	74.2	94.6
6	Bio 9681	182.0	190.2	225.0	230.0	150.0	229.5	153.6	194.3	76.0	97.9	83.5	83.8	83.3	109.8	70.5	86.4
	Loc. Mean	183.6	199.5	219.3	233.8	172.2	228.7	147.2	197.1	94.4	112.2	95.5	103.4	85.3	116.3	76.8	97.7
	C.D. (5%)	5.79	5.63	23.76	19.37	49.95	15.25	16.19	13.96	3.51	4.70	12.56	17.50	15.64	8.67	8.88	6.58
	C.V. (%)	2.09	1.87	7.19	4.91	15.94	4.43	7.30	6.49	2.47	2.78	8.73	10.03	10.08	4.95	7.67	6.17
	F (Prob)	0.00	0.00	0.01	0.03	0.38	0.14	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.19	0.00

B225

TABLE No. 13

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, JHABUA, UDAIPUR IN AET 2 TRIAL No. 69Z5 (AET2-L-Z5) DURING KHARIF (2012)

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE PMH 1							GRAIN YIELD % SUPERIORITY OVER THE PMH 3																			
	AMBI R	BANS R	CHHI R	GODH R	JHAB R	UDAI R	MEAN R	ZN 5	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	ZN 5	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	ZN 5											
No	PEDIGREE																																		
1	CMH08-287	5762	5	3289	6	11361	1	7005	4	5081	7	5463	8	6327	5	-	-	28.9	-	-	-	-	-	-	-										
2	Bio 9681(Filler)	6430	4	3811	5	8349	5	4073	8	5938	4	5900	6	5750	6	-	-	-	-	-	-	-	-	-	-										
3	X35A176	7736	2	5186	2	9274	2	8276	1	5554	5	5953	4	6996	1	15.7	31.8	5.2	14.8	-	-	-	7.2	-	10	11.9	64.9	-	-	8.7					
4	SeedTech 2324(Filler)	5675	7	2937	8	7801	7	7021	3	5048	8	5927	5	5735	7	-	-	-	-	-	-	-	-	-	-	-	39.9	-	-	-					
CHECKS																																			
5	PMH 1	6685	3	3935	4	8815	3	7209	2	6567	2	5959	3	6528	2	-	-	-	-	-	-	-	-	-	-	-	6.4	43.6	-	-	1.4				
6	PMH 3	7916	1	4716	3	8287	6	5019	7	6644	1	6029	2	6435	3	18.4	19.8	-	-	1.2	1.2	-	-	-	-	-	-	-	-	-					
7	SeedTech 2324	5056	8	3190	7	6606	8	5453	6	5356	6	5620	7	5214	8	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-	-					
8	Bio 9681	5701	6	5337	1	8394	4	6522	5	6075	3	6159	1	6365	4	-	35.6	-	-	-	3.3	-	-	-	-	-	13.2	1.3	29.9	-	2.2	-			
Location Mean		6370		4050		8611		6322		5783		5876		6169																					
Mean Stand		111		101		113		105		79		91		100																					
C.D. (5%)		1259		932		2196		1341		641		478		1141																					
C.V. (%)		11.2		13.05		14.46		12.02		6.28		4.61		-																					
F (Prob)		0		0		0.237		0		0		0.085		-																					
Plot Size		18		14.4		18		14.4		13.5		14.4		-																					
AGRONOMY DATA																																			
Sowing Date		6-07		13-07		27-06		7-07		9-07		2-07		-																					
Harvest Date		-		18-10		6-11		10-10		13-10		13-10		-																					
Irrigation Nos		-		-		-		-		-		1		-																					
Fertilizer Applied N		120		150		120		120		120		90		-																					
Fertilizer Applied P		60		80		60		50		60		60		-																					
Fertilizer Applied K		40		40		40		-		60		-		-																					

B226

TABLE No. 13 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SeedTech 2324						GRAIN YIELD % SUPERIORITY OVER THE Bio 9681							
		AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 MEAN
1	CMH08-287	14	3.1	72	28.5	-	-	21.4	1.1	-	35.3	7.4	-	-	-
2	Bio 9681(Filler)	27.2	19.4	26.4	-	10.9	5	10.3	12.8	-	-	-	-	-	-
3	X35A176	53	62.6	40.4	51.8	3.7	5.9	34.2	35.7	-	10.5	26.9	-	-	9.9
4	SeedTech 2324(Filler)	12.2	-	18.1	28.8	-	5.5	10	-	-	-	7.7	-	-	-
CHECKS															
5	PMH 1	32.2	23.4	33.4	32.2	22.6	6	25.2	17.3	-	5	10.5	8.1	-	2.6
6	PMH 3	56.5	47.8	25.5	-	24.1	7.3	23.4	38.9	-	-	-	9.4	-	1.1
7	SeedTech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Bio 9681	12.7	67.3	27.1	19.6	13.4	9.6	22.1	-	-	-	-	-	-	-

S.N	PEDIGREE	MOISTURE % AT HARVEST						GRAIN SHELLING %							
		BANS	CHHI	GODH	JHAB	UDAI	ZN 5 Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 Mean	
1	CMH08-287	17.0	17.6	21.9	25.7	21.1	20.7	81.6	67.8	88.1	82.0	78.3	83.0	80.1	
2	Bio 9681(Filler)	16.8	15.1	25.0	27.3	22.3	21.3	81.8	67.0	86.5	79.2	81.3	84.0	80.0	
3	X35A176	17.9	15.7	22.7	26.1	22.3	20.9	82.0	71.3	76.8	83.8	80.7	84.0	79.7	
4	SeedTech 2324(Filler)	16.6	17.7	20.6	25.1	22.0	20.4	80.1	69.4	84.2	85.6	78.5	83.9	80.3	
CHECKS															
5	PMH 1	17.0	14.8	19.9	26.8	22.4	20.2	81.5	70.5	86.0	78.7	81.1	84.0	80.3	
6	PMH 3	17.7	18.1	26.0	27.1	23.3	22.4	82.3	68.9	85.4	82.8	81.1	84.0	80.8	
7	SeedTech 2324	16.3	15.9	24.3	25.4	22.0	20.8	80.8	67.7	86.9	88.0	80.3	83.9	81.3	
8	Bio 9681	17.1	13.6	25.6	25.8	22.3	20.9	81.8	76.9	82.3	78.8	83.9	84.9	81.4	
	Loc. Mean	17.0	16.1	23.2	26.2	22.2	20.9	81.5	69.9	84.5	82.3	80.6	84.0	80.5	
	C.D. (5%)	0.56	1.11	3.14	1.16	0.69	1.70	2.59	1.27	7.68	6.56	1.94	0.48	3.14	
	C.V. (%)	1.87	3.93	7.73	2.52	1.77	6.25	1.82	1.04	5.19	4.55	1.37	0.32	3.33	
	F (Prob)	0.00	0.00	0.01	0.01	0.00	0.25	0.69	0.00	0.12	0.07	0.00	0.00	0.95	



B227

Table No. 13 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)						DAYS TO 50% POLLEN SHED						DAYS TO 50% SILKING								
		AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 Mean
1	CMH08-287	43.9	64.4	54.8	50.9	39.5	63.7	52.9	55.0	48.7	57.3	52.0	52.0	56.3	53.6	58.0	52.3	58.7	53.3	54.7	58.3	55.9
2	Bio 9681(Filler)	65.6	74.5	62.2	76.6	59.3	64.4	67.1	48.7	49.3	54.7	52.0	47.7	50.3	50.4	51.7	52.7	55.3	54.0	49.7	53.7	52.8
3	X35A176	68.0	70.8	64.1	80.3	59.8	64.4	67.9	47.3	49.0	57.0	53.3	51.0	56.3	52.3	50.0	52.7	59.0	54.3	53.3	58.7	54.7
4	SeedTech 2324(Filler)	56.7	69.4	63.5	78.2	56.3	65.7	65.0	47.3	52.7	57.3	52.0	50.3	56.3	52.7	50.3	55.7	57.3	53.0	52.3	58.7	54.6
CHECKS																						
5	PMH 1	67.6	71.1	65.6	78.9	65.4	64.1	68.8	53.3	49.0	55.3	54.0	51.3	54.3	52.9	56.3	52.0	55.3	56.3	53.3	56.3	54.9
6	PMH 3	69.8	69.7	64.8	72.0	62.2	53.0	65.3	53.3	50.7	57.3	53.7	51.3	56.0	53.7	57.0	53.7	59.0	57.7	53.3	58.0	56.4
7	SeedTech 2324	58.7	68.8	65.4	71.5	60.0	63.7	64.7	52.3	51.3	57.0	54.3	50.3	56.0	53.6	55.0	54.3	58.3	57.3	52.3	58.3	55.9
8	Bio 9681	63.3	72.5	61.5	73.1	64.0	64.8	66.5	48.7	50.0	51.0	53.3	48.0	50.3	50.2	51.7	53.3	53.0	57.0	50.7	53.0	53.1
	Loc. Mean	61.7	70.1	62.7	72.7	58.3	63.0	64.8	50.8	50.1	55.9	53.1	50.3	54.5	52.4	53.8	53.3	57.0	55.4	52.5	56.9	54.8
	C.D. (5%)	9.30	4.26	3.74	6.55	5.55	11.94	5.59	0.90	1.07	0.97	0.95	1.00	1.38	2.05	1.19	0.68	0.89	1.06	0.96	1.55	2.21
	C.V. (%)	8.61	3.47	3.40	5.14	5.44	10.83	7.36	1.01	1.22	1.00	1.02	1.14	1.45	3.34	1.26	0.72	0.89	1.09	1.05	1.56	3.45
	F (Prob)	0.00	0.01	0.00	0.00	0.00	0.43	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	0.02
S.No.	PEDIGREE	DAYS TO 75% DRY HUSK						PLANT HEIGHT(cm)						EAR HEIGHT(cm)								
		AMBI	BANS	CHHI	GODH	UDAI	ZN 5 Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	ZN 5 Mean	AMBI	BANS	CHHI	GODH	UDAI	ZN 5 Mean		
1	CMH08-287	93.3	85.3	91.7	84.0	90.7	89.0	270.3	212.1	218.3	224.3	217.6	221.7	227.4	101.3	114.6	108.3	102.7	105.0	106.4		
2	Bio 9681(Filler)	86.0	85.7	88.0	84.0	87.0	86.1	243.4	222.2	198.3	185.3	198.5	205.0	208.8	79.9	110.6	80.0	69.3	86.7	85.3		
3	X35A176	90.3	87.3	92.7	84.7	91.3	89.3	251.3	223.8	231.7	178.3	217.4	230.0	222.1	79.3	112.3	108.3	88.0	105.0	98.6		
4	SeedTech 2324(Filler)	89.0	88.0	91.7	84.3	90.0	88.6	213.3	185.3	193.3	174.3	187.8	188.3	190.4	84.7	90.7	121.7	80.7	85.0	92.6		
CHECKS																						
5	PMH 1	85.3	84.7	88.3	84.7	89.7	86.5	244.5	204.0	213.3	186.3	235.7	225.0	218.2	97.1	102.2	101.7	86.3	121.7	101.8		
6	PMH 3	90.3	86.3	93.3	85.3	90.3	89.1	254.0	232.1	216.7	188.0	235.9	233.3	226.7	101.8	128.9	106.7	94.7	121.7	110.7		
7	SeedTech 2324	91.7	88.3	93.0	84.3	89.7	89.4	207.9	192.2	186.7	155.0	179.6	210.0	188.6	86.2	93.8	96.7	72.7	101.7	90.2		
8	Bio 9681	85.3	86.7	88.0	85.7	87.0	86.5	230.3	210.5	210.0	171.7	186.9	208.3	203.0	67.6	107.9	81.7	73.0	105.0	87.0		
	Loc. Mean	88.9	86.5	90.8	84.6	89.5	88.1	239.4	210.3	208.5	182.9	207.4	215.2	210.6	87.3	107.6	100.6	83.4	104.0	96.6		
	C.D. (5%)	2.22	1.06	1.53	1.92	1.12	1.99	24.62	25.00	19.94	37.40	13.63	19.87	12.76	15.88	17.33	9.48	28.64	14.06	12.70		
	C.V. (%)	1.42	0.70	0.96	1.29	0.72	1.74	5.87	6.79	5.46	11.68	3.75	5.27	5.17	10.39	9.19	5.38	19.60	7.72	10.15		
	F (Prob)	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.23	0.00	0.00		

## B228

TABLE No. 14: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, KANGRA IN AET 2 TRIAL No. 70Z1 (AET2-M-Z1) DURING KHARIF (2012)

SI. No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE					GRAIN YIELD % SUPERIORITY OVER THE BIO 9637			GRAIN YIELD % SUPERIORITY OVER THE PMH4			
		BAJA	R	KANG	R	MEAN	R	BAJA	KANG	MEAN	BAJA	KANG	MEAN
1	JH 31404	9998	23	3567	7	6782	18	-	-	-	-	11.7	0.3
2	BH41009	7842	25	2769	19	5306	25	-	-	-	-	-	-
3	BIO 151	12139	7	4045	3	8092	2	-	12	2	17.5	26.7	19.7
4	BIO-688	12341	2	2896	17	7618	8	0.6	-	-	19.5	-	12.7
5	Bisco 2668	10962	16	3285	12	7123	14	-	-	-	6.1	2.9	5.4
6	CMH08-350	11081	14	2275	24	6678	20	-	-	-	7.3	-	-
7	IMH-666	12207	6	3233	14	7720	7	-	-	-	18.2	1.3	14.2
8	B 63	11401	13	3347	11	7374	10	-	-	-	10.4	4.8	9.1
9	JKMH-7004	12259	5	3473	10	7866	5	-	-	-	18.7	8.8	16.4
10	KDMH 176	11465	12	5224	1	8344	1	-	44.7	5.1	11	63.6	23.4
11	NMH-1242	11477	11	2574	20	7025	17	-	-	-	11.1	-	3.9
12	P3396	11677	10	2397	22	7037	16	-	-	-	13.1	-	4.1
13	PFMH-96 I 41	11930	9	3237	13	7584	9	-	-	-	15.5	1.4	12.2
14	PFMH-96 N 46	10176	21	2254	25	6215	24	-	-	-	-	-	-
15	S6217	10552	18	2394	23	6473	22	-	-	-	2.2	-	-
16	S6304	9036	24	3729	4	6383	23	-	3.3	-	-	16.8	-
17	TITAN	12127	8	2498	21	7313	12	-	-	-	17.4	-	8.2
18	X35A173	12561	1	3120	16	7841	6	2.4	-	-	21.6	-	16
19	X35A174	10420	19	2847	18	6634	21	-	-	-	0.9	-	-
20	YUVRAJ GOLD	11009	15	3714	5	7361	11	-	2.8	-	6.6	16.3	8.9
21	SeedTech 2324(Filler)	10782	17	3543	8	7162	13	-	-	-	4.4	11	6
22	Bio 9681(Filler)	10079	22	4061	2	7070	15	-	12.5	-	-	27.2	4.6
23	Bio 9637(Filler)	12261	4	3489	9	7875	4	-	-	-	18.7	9.3	16.5
CHECKS													
24	BIO 9637	12262	3	3611	6	7936	3	-	-	-	18.7	13.1	17.4
25	PMH 4	10327	20	3193	15	6760	19	-	-	-	-	-	-
Location Mean		11135		3231		7183							
Mean Stand		66		28		47							
C.D. (5%)		2079		490		1284							
C.V. (%)		11.37		7.33		-							
F (Prob)		0.001		0		-							
Plot Size		9		4.32		-							
AGRONOMY DATA													
Sowing Date		25-06		17-07		-							
Harvest Date		2-11		29-10		-							
Irrigation Nos		3		-		-							
Fertilizer Applied N		120		120		-							
Fertilizer Applied P		60		60		-							
Fertilizer Applied K		40		40		-							

Table No. 14 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ( <sup>000</sup> /ha)			MOISTURE % AT HARVEST			GRAIN SHELLING %			DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING		
		BAJA	KANG	Mean	BAJA	KANG	Mean	BAJA	KANG	Mean	BAJA	KANG	Mean	BAJA	KANG	Mean
1	JH 31404	73.3	71.8	72.5	21.5	22.8	22.1	78.1	79.8	79.0	58.7	55.5	57.1	61.3	58.5	59.9
2	BH41009	69.3	63.7	66.5	21.6	25.5	23.5	79.8	75.9	77.9	57.0	54.5	55.8	59.7	57.5	58.6
3	BIO 151	63.7	72.9	68.3	19.6	27.0	23.3	82.7	76.8	79.8	59.3	56.5	57.9	61.7	59.0	60.3
4	BIO-688	72.2	63.7	67.9	20.9	26.8	23.8	80.6	77.1	78.8	57.0	56.0	56.5	60.0	60.0	60.0
5	Bisco 2668	71.1	63.7	67.4	22.1	25.3	23.7	81.1	78.2	79.7	58.3	55.5	56.9	61.3	59.0	60.2
6	CMH08-350	70.7	63.7	67.2	20.6	25.1	22.8	85.2	73.4	79.3	57.3	54.5	55.9	60.0	56.5	58.3
7	IMH-666	75.6	63.7	69.6	21.2	26.8	24.0	85.3	77.8	81.6	58.0	57.5	57.8	60.7	61.0	60.8
8	B 63	71.5	66.0	68.7	21.0	25.9	23.4	84.3	77.5	80.9	57.0	54.5	55.8	59.0	58.0	58.5
9	JKMH-7004	74.4	71.8	73.1	21.8	27.0	24.4	82.6	78.7	80.7	55.0	55.5	55.3	57.3	58.5	57.9
10	KDMH 176	74.1	76.4	75.2	20.3	27.7	24.0	82.9	74.6	78.8	58.3	55.0	56.7	60.7	59.0	59.8
11	NMH-1242	68.1	63.7	65.9	21.8	27.4	24.6	86.5	78.6	82.5	56.3	54.0	55.2	59.0	56.5	57.8
12	P3396	77.0	63.7	70.3	21.5	28.5	25.0	84.8	74.2	79.5	59.0	55.5	57.3	61.7	59.5	60.6
13	PFMH-96 I 41	67.0	63.7	65.3	20.0	25.5	22.8	84.8	80.0	82.4	53.0	52.5	52.8	55.0	56.0	55.5
14	PFMH-96 N 46	78.1	63.7	70.9	21.3	28.5	24.9	80.6	77.5	79.0	54.7	54.5	54.6	57.3	58.0	57.7
15	S6217	71.1	63.7	67.4	20.6	25.6	23.1	81.7	76.0	78.9	58.7	56.0	57.3	60.7	60.0	60.3
16	S6304	77.8	66.0	71.9	21.7	26.1	23.9	82.2	77.4	79.8	57.3	54.0	55.7	60.0	57.5	58.8
17	TITAN	73.3	63.7	68.5	22.0	26.6	24.3	84.8	80.7	82.8	56.7	53.0	54.8	59.0	55.5	57.3
18	X35A173	80.4	61.3	70.9	23.5	25.6	24.6	79.9	75.9	77.9	58.3	55.5	56.9	61.3	59.5	60.4
19	X35A174	76.7	61.3	69.0	21.0	25.6	23.3	84.7	75.6	80.1	56.7	57.0	56.8	59.7	60.5	60.1
20	YUVRAJ GOLD	79.6	63.7	71.6	21.0	26.9	23.9	78.5	75.7	77.1	55.3	53.0	54.2	57.7	56.0	56.8
21	SeedTech 2324(Filler)	76.3	66.0	71.1	21.6	26.9	24.2	80.8	77.9	79.3	57.7	56.0	56.8	60.3	59.5	59.9
22	Bio 9681(Filler)	64.4	68.3	66.4	21.2	26.2	23.7	80.3	76.2	78.3	53.0	51.5	52.3	55.0	55.0	55.0
23	Bio 9637(Filler)	65.9	75.2	70.6	21.6	27.5	24.5	86.6	77.8	82.2	58.0	56.0	57.0	60.3	59.0	59.7
CHECKS																
24	BIO 9637	71.9	63.7	67.8	20.6	27.1	23.8	84.7	80.1	82.4	54.7	55.0	54.8	57.3	57.5	57.4
25	PMH 4	76.3	62.5	69.4	21.1	27.7	24.4	85.3	80.3	82.8	55.3	52.5	53.9	57.7	55.5	56.6
	Loc. Mean	72.8	65.9	69.3	21.2	26.4	23.8	82.8	77.3	80.0	56.8	54.8	55.8	59.3	58.1	58.7
	C.D. (5%)	6.19	3.48	10.79	1.23	2.89	2.21	0.00	3.19	4.27	2.11	2.81	1.91	2.22	2.86	2.09
	C.V. (%)	5.18	2.56	7.54	3.53	5.29	4.49	0.00	2.00	2.59	2.26	2.48	1.65	2.28	2.38	1.73
	F (Prob)	0.00	0.00	0.97	0.00	0.15	0.66	0.00	0.00	0.23	0.00	0.02	0.00	0.00	0.00	0.00

## B230

Table No. 14(Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK			PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
		BAJA	KANG	ZN 1 Mean	BAJA	KANG	ZN 1 Mean	BAJA	KANG	ZN 1 Mean
1	JH 31404	102.3	99.0	100.7	276.7	149.5	213.1	136.7	65.5	101.1
2	BH41009	101.7	98.0	99.8	238.3	147.0	192.7	123.3	53.5	88.4
3	BIO 151	108.7	98.5	103.6	248.3	141.5	194.9	140.0	66.0	103.0
4	BIO-688	102.0	99.5	100.8	243.3	156.0	199.7	125.0	43.5	84.3
5	Bisco 2668	111.3	98.0	104.7	231.7	138.5	185.1	135.0	60.0	97.5
6	CMH08-350	98.7	98.5	98.6	273.3	167.5	220.4	158.3	69.5	113.9
7	IMH-666	107.3	100.0	103.7	226.7	149.0	187.8	158.3	66.5	112.4
8	B 63	105.7	98.0	101.8	238.3	170.0	204.2	140.0	74.0	107.0
9	JKMH-7004	100.7	98.0	99.3	248.3	145.0	196.7	131.7	51.5	91.6
10	KDMH 176	109.7	98.5	104.1	251.7	151.0	201.3	143.3	67.5	105.4
11	NMH-1242	105.3	97.5	101.4	271.7	141.0	206.3	133.3	55.5	94.4
12	P3396	107.3	99.0	103.2	250.0	156.5	203.3	120.0	55.5	87.8
13	PFMH-96 I 41	99.7	97.0	98.3	251.7	148.5	200.1	120.0	49.0	84.5
14	PFMH-96 N 46	100.7	97.5	99.1	221.7	119.0	170.3	108.3	40.0	74.2
15	S6217	104.7	98.5	101.6	260.0	141.5	200.8	141.7	56.5	99.1
16	S6304	108.7	97.5	103.1	263.3	143.5	203.4	143.3	52.5	97.9
17	TITAN	105.0	96.5	100.8	246.7	136.5	191.6	131.7	56.5	94.1
18	X35A173	109.0	98.0	103.5	291.7	150.0	220.8	158.3	54.5	106.4
19	X35A174	106.7	99.5	103.1	236.7	145.5	191.1	120.0	55.5	87.8
20	YUVRAJ GOLD	100.3	97.0	98.7	246.7	142.0	194.3	130.0	56.0	93.0
21	SeedTech 2324(Filler)	110.0	98.5	104.3	245.0	133.0	189.0	145.0	53.5	99.3
22	Bio 9681(Filler)	98.7	96.5	97.6	253.3	172.5	212.9	130.0	67.5	98.8
23	Bio 9637(Filler)	105.0	98.5	101.8	271.7	195.0	233.3	163.3	80.0	121.7
CHECKS										
24	BIO 9637	103.3	97.0	100.2	256.7	153.0	204.8	141.7	62.5	102.1
25	PMH 4	98.3	95.5	96.9	206.7	141.5	174.1	111.7	48.5	80.1
	Loc. Mean	104.4	98.0	101.2	250.0	149.4	199.7	135.6	58.4	97.0
	C.D. (5%)	3.06	1.80	5.31	26.18	11.96	27.56	18.68	8.07	15.43
	C.V. (%)	1.79	0.89	2.54	6.38	3.88	6.69	8.39	6.69	7.70
	F (Prob)	0.00	0.01	0.14	0.00	0.00	0.03	0.00	0.00	0.00



Table No. 15 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					MOISTURE % AT HARVEST					GRAIN SHELLING %					DAYS TO 50% POLLEN SHED				
		DELH	KARN	LUDH	PANT	ZN 2 Mean	DELH	KARN	LUDH	PANT	ZN 2 Mean	DELH	KARN	LUDH	PANT	ZN 2 Mean	DELH	KARN	LUDH	PANT	ZN 2 Mean
1	B 63	64.1	62.0	72.2	54.4	63.2	31.4	30.9	26.6	28.1	29.2	88.1	64.7	87.5	83.1	80.8	55.3	55.0	54.0	55.0	54.8
2	BIO 151	65.0	60.9	72.4	56.3	63.7	33.5	31.4	31.4	29.4	31.4	88.0	65.2	86.3	85.3	81.2	55.3	54.3	53.3	56.0	54.8
3	BIO-688	66.1	59.6	73.9	50.6	62.5	19.7	28.4	25.4	26.7	25.0	83.4	63.8	86.8	87.3	80.3	52.7	53.7	51.3	55.0	53.2
4	Bisco 2668	67.0	59.3	70.8	52.4	62.4	33.9	28.8	28.7	28.2	29.9	87.4	65.0	87.6	86.1	81.5	56.3	52.7	53.7	55.0	54.4
5	CMH08-292	59.6	60.4	69.2	51.3	60.1	34.4	30.0	28.4	24.1	29.2	86.6	65.4	86.2	84.2	80.6	54.7	53.7	52.0	52.7	53.3
6	CMH08-350	65.7	60.2	70.6	55.2	62.9	33.3	29.5	27.1	25.5	28.8	84.9	64.8	84.6	85.7	80.0	55.0	53.0	54.0	53.3	53.8
7	P3396	68.5	59.6	72.9	54.3	63.8	31.6	34.7	29.6	25.6	30.3	88.6	64.7	86.3	85.7	81.3	53.3	53.0	53.7	55.7	53.9
8	S6217	60.2	57.4	73.7	56.3	61.9	32.6	27.8	27.8	20.0	27.0	88.0	62.7	86.8	82.9	80.1	54.7	52.3	54.7	55.7	54.3
9	S6304	66.3	60.4	73.7	55.9	64.1	35.3	32.0	26.9	24.2	29.6	86.6	64.8	86.8	86.3	81.1	51.7	53.0	54.0	55.0	53.4
10	X35A174	68.7	62.6	72.9	55.4	64.9	30.7	32.2	26.4	21.9	27.8	87.1	65.6	87.1	85.4	81.3	53.7	53.3	50.7	54.7	53.1
11	YUVRAJ GOLD	66.3	62.4	73.1	53.5	63.8	32.1	31.7	27.0	29.3	30.0	88.2	64.3	88.7	86.5	81.9	50.7	48.7	48.0	52.3	49.9
12	SeedTech 2324(Filler)	66.9	58.0	68.0	50.4	60.8	34.3	31.2	29.2	27.7	30.6	84.5	62.5	86.6	86.6	80.0	55.7	54.3	53.7	56.0	54.9
13	BIO 9681(Filler)	67.2	61.5	71.4	56.1	64.1	25.6	33.1	23.4	28.0	27.5	85.6	65.1	86.1	81.5	79.6	50.7	49.0	47.0	53.0	49.9
14	BIO 9637(Filler)	63.3	60.0	70.8	56.7	62.7	30.3	27.9	27.4	24.7	27.5	84.3	65.6	85.1	84.1	79.8	50.7	55.0	49.7	53.7	52.3
CHECKS																					
15	BIO 9637	64.1	62.4	71.6	56.3	63.6	30.2	32.5	27.0	22.2	28.0	84.9	64.3	84.9	84.9	79.7	51.7	51.7	49.7	53.0	51.5
16	PMH 4	67.0	62.2	74.3	53.9	64.4	28.3	30.1	27.1	22.3	26.9	87.1	64.6	88.7	86.1	81.6	50.3	52.0	48.7	51.7	50.7
	Loc. Mean	65.4	60.6	72.0	54.3	63.1	31.1	30.7	27.4	25.5	28.7	86.4	64.5	86.6	85.1	80.7	53.3	52.8	51.8	54.2	53.0
	C.D. (5%)	9.43	1.94	3.55	2.86	2.64	3.05	0.70	1.93	2.75	3.65	1.69	1.99	0.94	2.96	1.85	2.94	1.17	2.00	2.00	1.73
	C.V. (%)	8.65	1.92	2.96	3.16	2.94	5.89	1.36	4.23	6.47	8.95	1.17	1.85	0.65	2.08	1.61	3.31	1.33	2.32	2.22	2.29
	F (Prob)	0.82	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.09	0.00	0.02	0.20	0.00	0.00	0.00	0.00	0.00

Table No. 15 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK				PLANT HEIGHT(cm)					EAR HEIGHT(cm)				
		DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	Mean	DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	PANT	Mean
1	B 63	58.7	57.3	55.0	58.7	57.4	108.7	82.7	90.7	94.0	195.0	220.0	221.7	204.7	210.3	114.0	141.7	130.0	86.0	117.9
2	BIO 151	57.3	56.7	54.3	59.0	56.8	106.7	83.7	93.7	94.7	188.7	168.3	225.0	187.3	192.3	93.3	81.7	126.7	79.0	95.2
3	BIO-688	55.0	56.7	52.3	58.0	55.5	97.0	83.0	93.7	91.2	211.7	231.7	245.0	210.7	224.8	94.3	116.7	106.7	75.7	98.3
4	Bisco 2668	58.7	55.0	54.7	57.7	56.5	110.3	84.0	89.0	94.4	173.3	205.0	216.7	203.3	199.6	93.3	113.3	113.3	86.7	101.7
5	CMH08-292	56.7	55.7	53.0	55.3	55.2	107.0	81.7	90.3	93.0	227.7	256.7	261.7	239.3	246.3	118.7	153.3	150.0	106.0	132.0
6	CMH08-350	57.3	55.3	55.0	55.7	55.8	106.0	81.0	90.3	92.4	228.0	238.3	255.0	225.3	236.7	115.0	140.0	145.0	105.7	126.4
7	P3396	55.3	55.3	54.7	59.0	56.1	107.7	85.3	92.3	95.1	210.0	231.7	255.0	226.0	230.7	105.7	126.7	131.7	84.3	112.1
8	S6217	56.3	55.0	55.7	59.0	56.5	110.3	84.7	89.0	94.7	188.3	236.7	241.7	213.3	220.0	100.7	133.3	131.7	86.7	113.1
9	S6304	56.3	55.0	55.0	58.3	56.2	105.3	82.3	89.0	92.2	200.7	191.7	218.3	208.0	204.7	102.7	110.0	120.0	78.3	102.8
10	X35A174	55.7	55.7	51.7	57.3	55.1	110.0	85.0	91.7	95.6	205.7	206.7	241.7	217.3	217.8	104.0	96.7	123.3	85.3	102.3
11	YUVRAJ GOLD	52.7	51.0	49.0	54.7	51.8	106.3	78.3	86.7	90.4	189.0	211.7	230.0	210.7	210.3	95.7	113.3	111.7	80.7	100.3
12	SeedTech 2324(Filler)	59.7	56.3	54.7	58.3	57.3	106.7	84.3	93.3	94.8	184.3	215.0	230.0	199.3	207.2	105.3	118.3	138.3	85.3	111.8
13	BIO 9681(Filler)	52.7	51.0	48.0	55.7	51.8	103.7	79.7	87.7	90.3	199.0	230.0	245.0	203.3	219.3	92.0	106.7	116.7	76.7	98.0
14	BIO 9637(Filler)	54.3	57.3	50.7	56.7	54.8	106.7	83.0	89.3	93.0	207.3	196.7	246.7	215.3	216.5	102.7	95.0	130.0	82.3	102.5
CHECKS																				
15	BIO 9637	54.3	53.7	50.7	55.3	53.5	107.7	79.7	89.3	92.2	210.0	228.3	268.3	230.7	234.3	106.3	110.0	138.3	89.0	110.9
16	PMH 4	52.3	54.0	49.7	54.0	52.5	105.0	82.3	88.7	92.0	177.3	191.7	221.7	217.3	202.0	88.3	96.7	123.3	88.3	99.2
	Loc. Mean	55.8	55.1	52.8	57.0	55.2	106.6	82.5	90.3	93.1	199.8	216.3	239.0	213.3	217.1	102.0	115.8	127.3	86.0	107.8
	C.D. (5%)	2.45	1.08	2.00	1.95	1.69	4.90	1.57	2.12	3.81	17.09	5.70	20.86	10.45	14.45	9.93	7.87	21.68	9.12	12.18
	C.V. (%)	2.63	1.18	2.28	2.05	2.15	2.76	1.14	1.41	2.45	5.13	1.58	5.23	2.94	4.67	5.84	4.07	10.21	6.36	7.93
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00

## B234

TABLE No. 16

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAHAICH, DHOLI, RANCHI, VARANASI IN AET 2 TRIAL No. 70Z3 (AET2-M-Z3) DURING KHARIF (2012)

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY					GRAIN YIELD % SUPERIORITY					
	ZN 3										OVER THE BIO 9637					OVER THE PMH 4					
No	PEDIGREE	BAHR	R	DHOL	R	RANC	R	VARA	R	MEAN	R	BAHR	DHOL	RANC	VARA	MEAN	BAHR	DHOL	RANC	VARA	MEAN
1	B 63	5031	20	4061	10	7640	16	5965	9	5674	17	-	10.7	-	-	-	-	-	-	5.7	-
2	BH41009	5791	15	3379	16	8961	5	5941	11	6018	11	-	-	11.4	-	0.5	-	-	8.9	5.2	-
3	BIO 151	6570	6	3651	13	8700	6	6098	6	6254	6	8.9	-	8.2	-	4.5	4.3	-	5.7	8	0.1
4	Bisco 2668	6643	4	4844	2	8659	7	6576	1	6681	2	10.1	32	7.7	6	11.6	5.5	0.6	5.2	16.5	6.9
5	CMH08-292	6125	11	3902	11	8973	4	5922	12	6230	8	1.5	6.3	11.6	-	4.1	-	-	9	4.9	-
6	CMH08-350	6588	5	4099	9	8217	10	5842	14	6187	9	9.2	11.7	2.2	-	3.3	4.6	-	-	3.5	-
7	KNMH401061	7155	3	4853	1	6845	18	5610	19	6116	10	18.6	32.3	-	-	2.2	13.6	0.8	-	-	-
8	NMH-1242	5911	14	3354	17	8148	12	5551	20	5741	15	-	-	1.3	-	-	-	-	-	-	-
9	P3396	5243	19	4458	4	8177	11	5873	13	5938	14	-	21.5	1.7	-	-	-	-	-	4	-
10	S6217	7372	1	4382	5	8978	3	5763	16	6624	4	22.2	19.4	11.7	-	10.6	17	-	9.1	2.1	6
11	S6304	7159	2	4341	6	8621	8	6536	2	6664	3	18.7	18.3	7.2	5.4	11.3	13.6	-	4.7	15.8	6.7
12	TITAN	5680	17	4200	7	5679	20	6095	7	5413	19	-	14.5	-	-	-	-	-	-	8	-
13	VMH 4106	6481	8	2755	20	11952	1	5964	10	6788	1	7.4	-	48.6	-	13.4	2.9	-	45.2	5.6	8.7
14	X35A173	6325	9	4196	8	9669	2	5807	15	6499	5	4.8	14.3	20.3	-	8.6	0.4	-	17.5	2.9	4
15	YUVRAJ GOLD	5776	16	3131	19	7648	15	5687	17	5561	18	-	-	-	-	-	-	-	-	0.7	-
16	Bio 9681(Filler)	5950	13	3588	14	8075	13	6291	3	5976	13	-	-	0.4	1.4	-	-	-	-	11.4	-
17	Bio 9681(Filler)	6550	7	3140	18	7096	17	5989	8	5694	16	8.6	-	-	-	-	4	-	-	6.1	-
18	Bio 9637(Filler)	5402	18	3435	15	6507	19	6158	5	5376	20	-	-	-	-	-	-	-	-	9.1	-
CHECKS																					
19	BIO 9637	6033	12	3669	12	8041	14	6204	4	5987	12	-	-	-	-	-	-	-	-	9.9	-
20	PMH 4	6299	10	4814	3	8231	9	5645	18	6247	7	4.4	31.2	2.4	-	4.4	-	-	-	-	-
Location Mean		6204		3913		8241		5976		6083											
Mean Stand		98		85		67		94		86											
C.D. (5%)		522		989		1538		778		957											
C.V. (%)		5.08		15.28		8.88		7.87		-											
F (Prob)		0		0		0.001		0.318		-											
Plot Size		14.4		18		9.6		14.4		-											
AGRONOMY DATA																					
Sowing Date		15-07		7-07		7-07		6-07		-											
Harvest Date		28-10		15-10		17-10		10-10		-											
Irrigation Nos		-		2		-		-		-											
Fertilizer Applied N		120		120		120		120		-											
Fertilizer Applied P		60		60		60		60		-											
Fertilizer Applied K		60		40		40		40		-											



## B235

Table No. 16 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					MOISTURE % AT HARVEST					GRAIN SHELLING %					DAYS TO 50% POLLEN SHED				
		BAHR	DHOL	RANC	VARA	ZN 3	BAHR	DHOL	RANC	VARA	ZN 3	BAHR	DHOL	RANC	VARA	ZN 3	BAHR	DHOL	RANC	VARA	ZN 3
						Mean					Mean					Mean					Mean
1	B 63	63.0	46.9	73.4	64.6	62.0	23.9	23.0	26.3	32.3	26.4	78.5	80.0	85.1	80.5	81.0	58.7	53.3	51.0	53.7	54.2
2	BH41009	64.4	41.1	62.0	64.6	58.0	23.4	25.0	25.6	31.0	26.2	75.3	76.0	84.2	80.0	78.9	58.0	51.0	51.0	52.3	53.1
3	BIO 151	68.3	49.3	74.0	69.2	65.2	24.9	23.0	26.7	27.9	25.6	81.0	75.0	85.8	75.0	79.2	56.7	54.3	52.5	52.3	54.0
4	Bisco 2668	62.7	52.0	73.4	64.6	63.2	23.0	24.1	26.0	27.7	25.2	80.4	76.8	87.1	79.0	80.8	56.7	50.7	52.5	50.0	52.5
5	CMH08-292	67.1	52.0	66.7	65.0	62.7	22.9	24.6	25.2	30.2	25.7	78.9	86.4	85.4	76.5	81.8	55.3	52.0	48.5	50.7	51.6
6	CMH08-350	70.8	46.3	76.0	67.1	65.1	22.6	24.0	25.9	28.5	25.2	80.2	83.5	85.6	78.5	82.0	57.7	53.0	49.5	52.0	53.0
7	KNMH401061	70.1	51.1	72.4	64.4	64.5	23.0	20.5	25.6	31.2	25.1	82.4	78.0	82.6	78.0	80.2	58.3	54.7	54.0	55.0	55.5
8	NMH-1242	69.9	50.4	65.6	65.5	62.9	25.2	26.5	26.0	29.7	26.8	78.9	75.6	86.8	81.0	80.6	53.3	49.7	51.0	47.7	50.4
9	P3396	63.4	47.4	76.0	66.9	63.4	26.0	20.5	26.4	29.4	25.5	78.8	77.5	85.8	76.5	79.6	60.7	56.0	53.5	53.3	55.9
10	S6217	72.7	48.5	69.8	68.3	64.8	24.0	21.6	26.1	31.3	25.7	79.1	78.8	84.5	76.5	79.7	57.3	50.7	52.5	52.0	53.1
11	S6304	69.7	45.4	73.4	66.9	63.8	24.3	21.9	26.3	26.3	24.7	81.4	79.2	87.1	81.5	82.3	57.0	51.3	52.0	52.3	53.2
12	TITAN	68.8	54.1	65.6	63.2	62.9	21.2	23.0	25.7	28.1	24.5	80.8	80.0	84.6	77.5	80.7	54.7	49.3	52.5	51.3	52.0
13	VMH 4106	71.3	44.3	72.4	67.1	63.8	24.0	24.5	25.7	28.4	25.6	75.8	73.0	86.1	77.5	78.1	58.7	56.3	54.0	52.7	55.4
14	X35A173	68.5	50.6	74.5	65.3	64.7	22.8	21.7	26.6	30.9	25.5	83.6	76.0	85.8	82.5	82.0	58.7	50.7	50.0	52.7	53.0
15	YUVRAJ GOLD	71.3	41.7	64.1	62.7	59.9	23.9	24.1	26.0	27.6	25.4	75.5	72.3	85.7	80.0	78.4	54.0	48.0	51.0	50.3	50.8
16	Bio 9681(Filler)	69.4	42.6	57.8	65.0	58.7	23.1	24.5	25.8	26.4	24.9	80.7	76.0	84.8	81.0	80.6	53.7	50.0	49.0	51.7	51.1
17	Bio 9681(Filler)	66.7	43.0	65.6	64.6	60.0	22.4	22.5	25.9	25.9	24.1	77.7	71.7	85.9	77.5	78.2	53.7	49.7	48.0	50.3	50.4
18	Bio 9637(Filler)	65.3	50.0	74.0	61.8	62.8	22.2	23.0	26.3	29.7	25.3	76.2	80.2	82.8	84.0	80.8	56.0	50.3	50.5	52.3	52.3
CHECKS																					
19	BIO 9637	69.0	44.6	66.1	63.7	60.9	22.4	22.5	25.6	29.1	24.9	79.5	76.0	87.1	78.5	80.3	55.7	52.7	50.0	53.7	53.0
20	PMH 4	67.8	47.4	71.4	67.1	63.4	21.8	24.0	26.4	31.1	25.8	81.4	85.0	84.9	84.0	83.8	54.3	49.0	47.5	47.7	49.6
	Loc. Mean	68.0	47.4	69.7	65.4	62.6	23.3	23.2	26.0	29.1	25.4	79.3	77.8	85.4	79.3	80.4	56.5	51.6	51.0	51.7	52.7
	C.D. (5%)	3.62	11.44	12.01	4.45	4.85	0.99	1.93	2.14	3.53	1.95	0.82	4.94	3.25	3.48	3.65	1.07	2.76	3.02	2.10	1.79
	C.V. (%)	3.22	14.59	8.23	4.12	5.47	2.56	5.02	3.93	7.34	5.43	0.63	3.84	1.82	2.65	3.21	1.15	3.23	2.82	2.46	2.40
	F (Prob)	0.00	0.60	0.15	0.15	0.12	0.00	0.00	0.99	0.02	0.63	0.00	0.00	0.28	0.00	0.20	0.00	0.00	0.00	0.00	0.00

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Table No. 16 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK					PLANT HEIGHT(cm)					EAR HEIGHT(cm)				
		BAHR	DHOL	RANC	VARA	ZN 3 Mean	BAHR	DHOL	RANC	VARA	ZN 3 Mean	BAHR	DHOL	RANC	VARA	ZN 3 Mean	BAHR	DHOL	RANC	VARA	ZN 3 Mean
1	B 63	60.7	55.0	54.0	58.3	57.0	92.7	83.3	90.0	91.3	89.3	143.7	150.7	173.3	162.5	157.5	65.3	95.0	86.0	83.8	82.5
2	BH41009	60.0	52.7	54.5	58.0	56.3	90.7	84.0	92.5	91.0	89.5	157.7	138.3	205.1	160.0	165.3	61.7	85.7	103.4	80.0	82.7
3	BIO 151	58.7	55.7	57.0	56.0	56.8	93.7	85.3	92.5	92.0	90.9	146.7	136.3	164.7	157.5	151.3	72.0	90.0	90.8	77.5	82.6
4	Bisco 2668	58.7	52.7	54.5	54.3	55.0	91.0	83.3	89.5	87.0	87.7	154.0	136.3	181.7	175.0	161.8	62.0	92.3	88.9	92.5	83.9
5	CMH08-292	57.3	53.7	52.0	54.3	54.3	86.7	80.0	87.5	85.7	85.0	183.7	194.3	214.0	203.8	198.9	95.0	113.0	107.1	108.8	106.0
6	CMH08-350	59.7	54.7	53.0	54.7	55.5	86.7	82.3	90.0	87.0	86.5	179.7	179.7	217.0	186.3	190.6	84.3	103.7	109.2	100.0	99.3
7	KNMH401061	60.3	56.0	57.5	61.0	58.7	95.3	85.3	93.0	93.7	91.8	196.7	179.7	202.6	211.3	197.5	93.3	100.0	96.5	102.5	98.1
8	NMH-1242	55.3	50.7	55.0	52.7	53.4	88.7	81.7	92.0	89.3	87.9	171.7	147.0	188.5	192.5	174.9	63.7	87.0	80.8	80.0	77.9
9	P3396	62.7	57.3	57.5	58.0	58.9	95.7	85.7	92.0	92.3	91.4	167.0	169.3	168.5	188.8	173.4	64.0	98.7	73.2	91.3	81.8
10	S6217	59.3	53.0	55.0	55.7	55.8	90.7	83.3	90.5	91.7	89.0	155.0	129.7	187.6	177.5	162.4	67.3	96.0	95.1	83.8	85.5
11	S6304	59.0	52.7	55.5	55.7	55.7	90.3	83.3	92.0	89.0	88.7	152.7	139.0	178.7	175.0	161.3	68.3	82.7	87.5	83.8	80.6
12	TITAN	56.7	50.7	55.5	54.0	54.2	87.3	82.0	90.5	88.3	87.0	155.3	142.0	159.6	176.3	158.3	64.0	93.7	74.0	81.3	78.2
13	VMH 4106	60.7	57.7	58.0	56.0	58.1	94.3	85.0	91.0	92.7	90.8	160.7	144.3	183.3	165.0	163.3	72.3	88.3	88.6	80.0	82.3
14	X35A173	60.7	52.7	53.5	57.3	56.0	91.3	81.7	90.5	92.3	89.0	188.3	169.3	224.4	207.0	197.3	78.3	96.7	108.3	98.8	95.5
15	YUVRAJ GOLD	56.0	50.3	53.5	53.7	53.4	86.3	81.0	89.5	87.7	86.1	158.0	150.0	188.7	181.3	169.5	74.7	84.7	94.5	88.8	85.6
16	Bio 9681(Filler)	55.7	52.0	53.5	56.7	54.5	85.3	81.0	90.0	89.0	86.3	162.3	144.7	199.4	180.0	171.6	60.7	83.7	87.4	80.0	77.9
17	Bio 9681(Filler)	55.7	51.3	52.5	53.3	53.2	86.7	79.7	89.5	84.0	85.0	164.3	157.7	204.5	177.5	176.0	69.3	89.0	99.4	75.0	83.2
18	Bio 9637(Filler)	58.0	52.0	54.0	54.0	54.5	88.3	81.7	90.0	89.0	87.3	184.0	173.3	188.3	211.3	189.2	76.3	102.7	91.5	93.8	91.1
CHECKS																					
19	BIO 9637	57.7	54.7	53.5	57.0	55.7	89.3	83.0	90.0	91.7	88.5	185.0	164.0	193.1	183.8	181.5	78.7	87.3	92.5	78.8	84.3
20	PMH 4	56.3	50.7	52.0	52.0	52.8	87.3	82.3	87.0	85.3	85.5	146.7	137.7	178.7	161.3	156.1	73.0	91.3	88.2	83.8	84.1
	Loc. Mean	58.5	53.3	54.6	55.6	55.5	89.9	82.8	90.5	89.5	88.2	165.7	154.2	190.1	181.7	172.9	72.2	93.1	92.1	87.2	86.2
	C.D. (5%)	1.07	2.71	3.11	2.45	1.78	1.14	2.89	3.24	3.35	1.94	22.14	26.33	34.74	13.41	13.26	17.61	22.65	17.80	10.65	8.51
	C.V. (%)	1.11	3.07	2.72	2.66	2.27	0.77	2.11	1.71	2.26	1.55	8.09	10.33	8.73	4.47	5.42	14.75	14.72	9.23	7.39	6.98
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01	0.52	0.02	0.00	0.00

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TABLE No. 17  
PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI IN AET 2 TRIAL No. 70Z4 (AET2-M-Z4)  
DURING KHARIF (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														GRAIN YIELD % SUPERIORITY OVER THE BIO 9637								GRAIN YIELD % SUPERIORITY OVER THE PMH 4									
		ZN 4														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	B 63	9784	4	9134	11	7383	13	4640	14	5815	7	7243	15	3400	15	6771	15	37.2	21.4	-	-	0.9	-	-	-	39.1	-	-	-	-	-	-	-
2	BIO 151	10226	2	10407	4	8439	5	10391	3	5676	10	9711	2	4377	13	8461	3	43.4	38.4	6.5	9.1	-	10.7	-	15.6	45.4	9.1	3.4	-	-	22.8	-	8.5
3	CMH08-292	8744	9	9772	8	8124	8	9453	9	6913	2	8377	10	4942	5	8046	4	22.7	29.9	2.5	-	20	-	7.3	9.9	24.4	2.4	-	-	11.9	5.9	-	3.2
4	CMH08-433	9969	3	11591	2	8426	6	3174	15	5947	6	7573	12	4401	12	7297	13	39.8	54.1	6.3	-	3.2	-	-	-	41.8	21.5	3.3	-	-	-	-	-
5	NMH-1242	10828	1	12597	1	8494	4	8983	10	7692	1	8916	4	4562	11	8867	2	51.9	67.5	7.2	-	33.5	1.7	-	21.1	54	32	4.1	-	24.5	12.7	-	13.7
6	S6217	9562	5	11239	3	8994	1	11714	1	5518	13	9447	3	6143	1	8945	1	34.1	49.4	13.5	23	-	7.7	33.4	22.2	36	17.8	10.2	8.2	-	19.4	24.2	14.7
7	S6304	7686	12	9128	12	8895	2	9673	6	5357	15	8577	8	5057	3	7768	8	7.8	21.4	12.2	1.6	-	-	9.8	6.1	9.3	-	9	-	-	8.4	2.2	-
8	X35A173	9493	6	7824	13	7832	10	7758	13	5477	14	9787	1	4775	8	7564	10	33.2	4	-	-	-	11.6	3.7	3.3	35	-	-	-	-	23.7	-	-
9	X35A174	9231	7	9948	7	8572	3	9823	5	5560	12	7420	13	4896	6	7921	5	29.5	32.3	8.1	3.1	-	-	6.3	8.2	31.3	4.2	5.1	-	-	-	-	1.6
10	YUVRAJ GOLD	8281	10	10238	5	7764	11	7795	12	5959	5	8644	7	4844	7	7647	9	16.2	36.1	-	-	3.4	-	5.2	4.5	17.8	7.3	-	-	-	9.3	-	-
11	Bio 9681(Filler)	7129	14	6474	15	7451	12	9607	7	6605	3	8506	9	5766	2	7363	11	-	-	-	0.9	14.6	-	25.2	0.6	1.4	-	-	-	6.9	7.5	16.6	-
12	Bio 9681(Filler)	7733	11	9963	6	6660	15	8835	11	5740	9	7379	14	3938	14	7178	14	8.5	32.5	-	-	-	-	-	-	10	4.4	-	-	-	-	-	-
13	Bio 9637(Filler)	9133	8	9753	9	6745	14	10038	4	5568	11	8912	5	4694	9	7835	6	28.1	29.7	-	5.4	-	1.6	1.9	7	29.9	2.2	-	-	-	12.7	-	0.5
CHECKS																																	
14	BIO 9637	7129	13	7521	14	7927	9	9524	8	5761	8	8770	6	4605	10	7320	12	-	-	-	-	-	-	-	-	1.4	-	-	-	-	10.9	-	-
15	PMH 4	7031	15	9543	10	8158	7	10821	2	6179	4	7910	11	4946	4	7799	7	-	26.9	2.9	13.6	7.3	-	7.4	6.5	-	-	-	-	-	-	-	-
	Location Mean	8797		9675		7991		8815		5984		8478		4756		7785																	
	Mean Stand	109		95		113		88		117		82		81		98																	
	C.D. (5%)	1794		751		1060		1278		746		668		580		982																	
	C.V. (%)	12.17		4.63		7.92		8.65		7.44		4.7		7.28		-																	
	F (Prob)	0.001		0		0.001		0		0		0		0		-																	
	Plot Size	18		14.4		18		18		18		14		14.4		-																	
AGRONOMY DATA																																	
	Sowing Date	24-07		14-07		1-07		27-06		19-07		8-07		25-06		-																	
	Harvest Date	21-11		29-10		8-11		16-10		30-11		15-12		24-10		-																	
	Irrigation Nos	6		10		1		-		-		8		10		-																	
	Fertilizer Applied N	150		150		200		200		100		150		200		-																	
	Fertilizer Applied P	75		75		60		80		50		75		75		-																	
	Fertilizer Applied K	37.5		75		50		80		30		40		75		-																	

Table No. 17 (Continued)

S.No. PEDIGREE	STAND AT HARVEST ('000/ha)								MOISTURE % AT HARVEST								GRAIN SHELLING %							
								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 B 63	63.0	65.5	58.1	33.9	64.8	60.5	54.2	57.1	25.2	22.8	19.1	7.2	11.4	16.5	10.5	16.1	86.2	80.1	79.5	85.9	82.2	82.4	84.7	83.0
2 BIO 151	62.2	65.5	63.1	52.2	66.7	57.6	52.3	60.0	26.5	26.3	19.4	9.5	9.7	18.1	12.7	17.4	85.1	80.0	80.0	84.9	83.1	80.1	78.7	81.7
3 CMH08-292	62.8	65.5	63.9	59.1	63.1	59.3	57.2	61.6	24.9	23.1	20.3	8.3	11.4	17.7	10.8	16.6	84.9	79.3	80.0	86.0	85.4	80.9	80.5	82.4
4 CMH08-433	62.4	66.0	60.7	34.3	65.7	59.0	54.9	57.6	26.1	23.4	18.2	5.3	11.3	16.9	10.9	16.0	84.2	79.5	80.2	81.1	82.1	81.0	76.6	80.7
5 NMH-1242	61.7	66.2	60.7	50.0	66.3	56.9	60.9	60.4	23.7	24.4	20.6	7.7	9.8	16.8	10.6	16.2	88.0	81.8	80.1	87.5	91.0	79.1	85.1	84.7
6 S6217	61.3	66.0	65.2	48.0	66.5	57.6	59.3	60.5	24.0	24.6	20.4	8.0	10.4	16.2	10.6	16.3	83.5	81.2	80.3	84.8	82.1	80.5	83.2	82.2
7 S6304	61.1	65.5	64.1	46.9	65.7	57.9	56.9	59.7	26.4	26.7	20.7	7.2	10.3	15.7	10.6	16.8	84.9	76.0	80.1	85.7	83.1	82.8	82.2	82.1
8 X35A173	64.3	65.5	63.7	42.0	65.9	59.8	57.2	59.8	23.7	23.5	17.9	7.9	9.8	18.3	11.3	16.0	84.6	79.8	78.6	85.6	84.0	80.7	82.3	82.2
9 X35A174	60.4	65.7	64.1	58.7	66.7	59.5	57.2	61.8	24.4	21.9	18.1	7.9	9.9	15.6	10.5	15.5	85.8	79.1	80.7	86.9	87.1	79.3	82.8	83.1
10 YUVRAJ GOLD	58.5	65.7	62.4	51.5	63.9	60.7	51.9	59.2	23.1	23.4	17.3	7.2	10.1	15.7	10.9	15.4	87.5	77.3	79.1	85.8	82.1	82.0	87.1	83.0
11 Bio 9681(Filler)	56.5	65.3	60.7	50.9	65.6	60.0	60.9	60.0	22.1	19.7	15.7	6.9	9.5	15.3	10.7	14.3	84.9	82.3	79.9	84.8	85.1	81.9	83.2	83.1
12 Bio 9681(Filler)	58.7	65.7	63.5	50.9	62.4	57.1	54.6	59.0	23.0	22.1	19.9	9.0	10.1	15.8	10.2	15.7	85.7	79.0	78.4	80.9	84.5	80.4	83.2	81.7
13 Bio 9637(Filler)	55.6	65.5	63.5	52.2	62.2	57.4	49.1	57.9	23.9	22.5	18.3	6.8	11.2	17.5	10.5	15.8	84.5	79.9	80.1	84.8	80.9	82.1	83.1	82.2
CHECKS																								
14 BIO 9637	61.9	65.7	62.2	49.6	63.9	56.2	54.2	59.1	24.4	23.6	19.0	9.0	10.7	17.8	10.3	16.4	85.3	78.9	80.1	83.8	83.3	82.3	84.0	82.5
15 PMH 4	62.0	65.7	65.0	54.3	62.6	59.8	60.6	61.4	24.2	22.1	17.4	7.9	9.9	15.3	10.2	15.3	89.1	82.5	78.9	86.0	87.3	80.3	85.4	84.2
Loc. Mean	60.8	65.7	62.7	49.0	64.8	58.6	56.1	59.7	24.3	23.3	18.8	7.7	10.3	16.6	10.7	16.0	85.6	79.8	79.7	85.0	84.2	81.0	82.8	82.6
C.D. (5%)	6.47	0.80	5.41	2.09	4.27	3.85	7.67	3.57	1.45	0.95	1.19	0.49	1.16	0.36	1.13	1.05	0.85	1.86	1.87	0.62	1.56	1.66	4.20	1.82
C.V. (%)	6.36	0.73	5.16	2.56	3.94	3.93	8.18	5.62	3.55	2.44	3.79	3.77	6.70	1.31	6.28	6.18	0.59	1.40	1.40	0.44	1.11	1.23	3.03	2.08
F (Prob)	0.32	0.72	0.43	0.00	0.31	0.35	0.10	0.28	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.01

Table No. 17 (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	Mean	ZN 4	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	ZN 4	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean
1	B 63	62.0	51.0	57.0	47.7	60.7	51.7	51.7	54.5	61.7	53.7	58.7	49.3	61.7	55.0	53.7	56.2	92.3	104.0	75.7	94.3	92.0	104.3	93.8		
2	BIO 151	61.0	52.3	57.3	48.3	64.0	53.0	51.3	55.3	62.7	55.0	59.7	49.3	65.0	55.0	53.7	57.2	93.0	99.7	86.3	95.7	98.0	105.0	96.3		
3	CMH08-292	62.3	50.0	55.7	46.7	59.0	52.3	51.3	53.9	61.3	52.3	58.0	48.0	60.0	54.3	53.0	55.3	89.3	97.7	74.3	95.3	88.7	104.3	91.6		
4	CMH08-433	62.0	51.7	56.3	48.0	62.3	53.0	52.0	55.0	62.3	54.0	58.7	49.0	63.3	55.0	54.3	56.7	92.0	98.7	73.7	93.3	90.0	106.0	92.3		
5	NMH-1242	59.3	51.7	56.0	46.7	60.0	51.3	51.3	53.8	61.3	54.0	57.3	49.0	61.0	54.3	53.0	55.7	92.0	97.3	77.0	92.3	98.7	105.0	93.7		
6	S6217	61.0	52.3	57.7	48.0	62.7	51.7	52.0	55.0	63.0	54.3	59.7	48.7	63.7	53.7	53.7	56.7	94.0	99.0	79.3	95.7	91.3	106.0	94.2		
7	S6304	62.0	53.0	56.3	47.3	61.7	53.3	52.0	55.1	63.0	56.3	58.7	48.7	62.7	56.3	55.7	57.3	95.3	97.3	78.7	92.7	93.3	106.3	93.9		
8	X35A173	61.3	52.7	57.7	47.7	62.3	53.0	52.7	55.3	62.7	54.7	59.3	48.3	63.3	55.0	54.0	56.8	94.3	98.3	79.7	94.7	98.0	106.0	95.2		
9	X35A174	61.7	51.3	57.0	47.7	60.3	51.3	51.3	54.4	62.0	54.0	59.3	49.3	61.3	53.7	53.0	56.1	92.7	98.3	82.3	95.0	98.0	104.3	95.1		
10	YUVRAJ GOLD	61.7	49.3	56.7	46.7	59.7	51.0	51.3	53.8	61.0	52.0	58.7	47.7	60.7	53.0	53.7	55.2	90.0	97.7	74.3	93.7	92.0	105.0	92.1		
11	Bio 9681(Filler)	60.3	49.0	53.0	44.3	58.7	49.3	48.0	51.8	60.3	51.3	55.7	45.7	59.7	52.3	50.3	53.6	89.0	95.7	76.3	92.3	92.3	103.0	91.4		
12	Bio 9681(Filler)	60.3	49.0	53.3	44.3	60.7	49.0	49.7	52.3	62.0	51.3	55.3	46.0	61.7	53.7	52.7	54.7	89.3	95.0	77.0	93.7	90.7	104.3	91.7		
13	Bio 9637(Filler)	62.0	51.3	56.3	46.3	61.3	51.0	51.3	54.2	62.7	54.0	58.7	48.0	62.3	53.0	53.3	56.0	92.0	98.7	78.7	94.3	92.0	105.3	93.5		
CHECKS																										
14	BIO 9637	61.7	49.3	56.7	45.0	61.3	52.3	49.7	53.7	61.7	52.3	58.3	47.0	62.3	54.3	52.3	55.5	90.0	97.7	77.0	93.7	93.0	104.7	92.7		
15	PMH 4	58.3	48.0	54.0	44.0	58.7	50.0	50.0	51.9	60.0	50.0	56.7	45.7	59.7	53.7	52.0	54.0	88.3	96.7	77.7	93.0	91.7	104.0	91.9		
	Loc. Mean	61.1	50.8	56.1	46.6	60.9	51.6	51.0	54.0	61.8	53.3	58.2	48.0	61.9	54.2	53.2	55.8	91.6	98.1	77.9	94.0	93.3	104.9	93.3		
	C.D. (5%)	1.95	1.09	1.46	1.56	2.19	1.17	1.78	0.86	1.33	0.95	1.32	1.78	2.19	1.72	1.73	0.82	0.76	1.50	3.41	1.48	3.29	2.54	2.23		
	C.V. (%)	1.90	1.28	1.56	2.01	2.16	1.36	2.09	1.49	1.29	1.07	1.36	2.22	2.12	1.90	1.94	1.38	0.50	0.92	2.62	0.94	2.11	1.45	2.08		
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00		

Table No. 17 (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	ZN 4
1	B 63	176.0	182.7	209.3	193.3	166.7	197.3	143.2	181.2		91.5	76.5	92.0	88.3	76.7	85.7	77.9	84.1	
2	BIO 151	171.0	169.1	211.3	213.3	165.0	214.7	140.7	183.6		83.2	95.4	85.7	93.3	83.3	109.7	77.1	89.7	
3	CMH08-292	206.0	169.5	230.0	246.7	201.7	208.3	151.5	202.0		110.0	88.5	111.7	116.7	98.3	102.3	87.3	102.1	
4	CMH08-433	208.0	185.5	239.7	242.7	180.0	214.3	159.4	204.2		111.5	107.2	112.7	111.7	93.3	112.0	92.2	105.8	
5	NMH-1242	184.5	183.9	217.0	230.0	186.7	204.7	152.3	194.1		74.5	86.8	80.7	72.0	68.3	105.3	71.7	79.9	
6	S6217	172.5	192.3	217.3	221.7	166.7	198.0	154.1	188.9		88.5	104.0	99.3	103.3	85.0	99.0	75.1	93.5	
7	S6304	166.5	182.3	213.7	210.0	165.0	202.7	140.1	182.9		79.5	91.4	84.3	88.3	70.0	103.7	79.3	85.2	
8	X35A173	204.0	180.9	244.0	251.7	196.7	237.7	156.3	210.2		109.0	96.4	102.7	101.7	73.3	121.7	75.8	97.2	
9	X35A174	192.5	161.4	217.0	234.3	153.3	206.7	135.3	185.8		95.5	78.3	88.0	95.0	60.0	100.3	73.1	84.3	
10	YUVRAJ GOLD	176.0	179.2	213.3	225.0	176.7	214.3	126.0	187.2		83.0	94.8	80.0	90.0	70.0	106.3	70.5	85.0	
11	Bio 9681(Filler)	161.5	182.5	203.7	226.0	178.3	221.7	151.1	189.3		67.0	78.7	80.3	86.7	68.3	96.0	74.9	78.8	
12	Bio 9681(Filler)	168.5	185.0	223.7	243.3	168.3	205.3	149.7	192.0		76.5	79.7	78.7	98.3	65.0	102.3	74.7	82.2	
13	Bio 9637(Filler)	184.1	206.4	230.0	253.3	181.7	212.7	144.8	201.8		96.5	104.8	87.7	95.0	70.0	101.0	80.7	90.8	
	CHECKS																		
14	BIO 9637	166.0	157.5	236.0	248.3	183.3	227.0	156.7	196.4		76.5	84.5	98.0	111.7	90.0	112.3	87.8	94.4	
15	PMH 4	160.0	155.3	203.0	214.3	151.7	198.0	141.9	174.9		70.6	77.5	74.0	86.7	65.0	96.7	70.9	77.3	
	Loc. Mean	179.8	178.2	220.6	230.3	174.8	210.9	146.9	191.6		87.6	89.6	90.4	95.9	75.8	103.6	77.9	88.7	
	C.D. (5%)	20.36	4.14	18.58	29.78	35.59	18.78	18.10	11.21		13.37	2.37	11.15	19.36	24.85	12.00	10.36	7.99	
	C.V. (%)	6.77	1.39	5.04	7.73	12.17	5.32	7.37	5.51		9.13	1.58	7.38	12.07	19.61	6.92	7.95	8.47	
	F (Prob)	0.00	0.00	0.00	0.01	0.24	0.01	0.04	0.00		0.00	0.00	0.00	0.01	0.09	0.00	0.00	0.00	







## B243

Table No. 18 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED						DAYS TO 50% SILKING						DAYS TO 75% DRY HUSK							
		AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
1	B 63	53.3	43.3	55.7	56.0	49.3	58.7	52.7	56.7	46.7	55.7	58.3	51.3	59.7	54.7	94.7	75.7	91.3	84.0	90.7	87.3
2	BH41009	52.3	44.3	56.7	50.0	48.3	58.3	51.7	55.3	47.0	58.7	52.3	51.3	60.3	54.2	93.3	77.0	90.7	81.3	92.7	87.0
3	BIO 151	55.3	45.0	56.7	48.7	51.3	56.3	52.2	58.3	48.3	57.0	50.7	53.7	57.7	54.3	98.3	77.0	94.0	81.7	91.0	88.4
4	CMH08-292	52.3	44.0	53.3	48.0	50.7	53.7	50.3	55.7	47.0	53.3	50.7	52.7	55.7	52.5	90.3	75.3	88.3	81.7	88.7	84.9
5	CMH08-350	54.3	44.0	53.7	51.3	50.3	57.3	51.8	57.3	47.0	53.7	52.7	52.3	58.7	53.6	94.0	75.7	88.3	83.7	90.3	86.4
6	CMH08-433	54.3	43.0	55.7	50.7	49.7	57.3	51.8	57.3	46.0	55.7	52.3	51.7	59.7	53.8	93.7	75.0	88.0	80.3	92.0	85.8
7	EC-3161	50.3	42.7	53.0	47.3	47.7	52.7	48.9	53.7	45.7	54.7	48.3	50.3	54.3	51.2	90.0	74.3	90.7	79.7	86.7	84.3
8	NMH-1242	51.3	43.3	53.0	51.7	48.7	54.7	50.4	54.3	46.3	55.0	55.7	51.3	57.7	53.4	90.7	76.3	91.3	83.0	91.0	86.5
9	PFMH-96 N 46	50.3	42.0	53.0	47.0	48.3	53.3	49.0	53.0	45.3	53.0	48.3	50.7	55.0	50.9	93.3	75.3	92.3	79.3	88.7	85.8
10	S6217	55.3	43.3	56.3	47.7	51.3	57.3	51.9	58.3	46.3	56.7	50.0	53.3	59.3	54.0	97.7	77.0	91.7	80.7	93.7	88.1
11	X35A174	53.3	43.0	53.3	51.0	49.7	54.3	50.8	56.7	46.0	55.3	53.3	51.7	57.7	53.4	95.0	78.0	93.7	81.7	91.7	88.0
12	YUVRAJ GOLD	52.3	45.0	53.0	47.7	49.3	56.3	50.6	55.3	48.0	53.0	50.0	51.3	58.7	52.7	92.0	76.7	91.3	79.3	93.7	86.6
13	Bio 9681(Filler)	51.3	45.0	51.3	50.0	48.3	56.0	50.3	54.3	48.0	53.0	53.0	51.0	58.3	52.9	91.0	76.7	88.0	82.7	90.7	85.8
14	Bio 9681(Filler)	49.3	41.0	51.3	47.0	49.3	54.7	48.8	53.0	44.0	53.0	50.0	51.3	56.0	51.2	90.7	75.7	87.7	80.0	89.3	84.7
15	Bio 9637(Filler)	51.7	44.0	53.0	49.7	49.3	53.0	50.1	54.7	47.0	53.0	50.7	51.3	54.3	51.8	93.7	76.0	93.3	81.7	85.7	86.1
CHECKS																					
16	BIO 9637	52.7	43.3	53.0	51.3	49.0	55.0	50.7	55.7	46.3	55.0	54.7	51.3	56.3	53.2	91.0	76.0	90.3	82.7	89.7	85.9
17	PMH 4	49.3	44.0	51.0	47.0	48.3	54.7	49.1	52.3	47.0	53.0	48.7	50.3	56.0	51.2	90.3	75.0	90.0	79.7	88.3	84.7
	Loc. Mean	52.3	43.5	53.7	49.5	49.4	55.5	50.7	55.4	46.6	54.6	51.7	51.6	57.4	52.9	92.9	76.0	90.6	81.4	90.3	86.2
	C.D. (5%)	0.78	1.25	0.75	1.12	0.77	2.03	1.56	1.08	1.31	0.60	1.24	0.99	1.41	1.67	2.70	1.50	0.82	2.96	1.30	2.09
	C.V. (%)	0.90	1.73	0.84	1.36	0.94	2.20	2.69	1.17	1.70	0.66	1.44	1.15	1.48	2.74	1.75	1.19	0.55	2.19	0.86	1.92
	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	0.03	0.00	0.00



## B245

TABLE No. 19

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, UDHAMPUR IN AET 2 TRIAL No. 71Z1 DURING KHARIF (2012)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE									GRAIN YIELD % SUPERIORITY					GRAIN YIELD % SUPERIORITY OVER THE JH 3459						
	Zn 1									OVER THE Prakash					Zn 1						
	PEDIGREE	ALMO	R	BAJA	R	KANG	R	UDHA	R	MEAN	R	ALMO	BAJA	KANG	UDHA	MEAN	ALMO	BAJA	KANG	UDHA	MEAN
1	FH 3513	4955	1	12094	3	2820	2	3163	4	5758	3	5.2	37.9	1.1	-	15.4	12.9	38.2	8.3	-	18.7
2	HKH-317	4434	5	9066	4	4257	1	3267	3	5256	4	-	3.4	52.6	-	5.3	1	3.6	63.5	-	8.3
3	SUN VAAMAN	4725	3	12802	1	2805	3	2999	6	5833	1	0.3	46	0.5	-	16.9	7.6	46.3	7.7	-	20.2
4	BIO 9637(Filler)	4837	2	12583	2	2687	5	3133	5	5810	2	2.7	43.5	-	-	16.4	10.2	43.8	3.1	-	19.7
CHECKS																					
5	Prakash	4709	4	8770	5	2791	4	3689	1	4989	5	-	-	-	-	-	7.3	0.2	7.1	0.6	2.8
6	JH 3459	4389	6	8752	6	2605	6	3665	2	4853	6	-	-	-	-	-	-	-	-	-	-
Location Mean		4675		10678		2994		3319		5416											
Mean Stand		45		56		27		74		51											
C.D. (5%)		1372		1065		611		510		889											
C.V. (%)		19.36		6.58		7.35		10.12		-											
F (Prob)		0.845		0		0		0.879													
Plot Size		12		9		4.32		18		-											
AGRONOMY DATA																					
Sowing Date		9-07		9-07		16-07		7-07		-											
Harvest Date		3-11		8-11		26-10		-		-											
Irrigation Nos		-		3		-		-		-											
Fertilizer Applied N		80		120		120		80		-											
Fertilizer Applied P		60		60		60		60		-											
Fertilizer Applied K		40		40		40		40		-											

## B246

Table No. 19 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					MOISTURE % AT HARVEST					GRAIN SHELLING %					DAYS TO 50% POLLEN SHED				
		ALMO	BAJA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	KANG	UDHA	ZN 1 Mean
		1	FH 3513	38.8	70.8	61.3	41.3	53.0	23.9	22.2	27.1	26.0	24.8	83.0	83.4	78.7	75.7	80.2	50.3	51.8	53.5
2	HKH-317	39.2	58.6	70.6	40.7	52.3	23.0	22.5	28.3	25.9	24.9	83.8	79.8	77.2	75.6	79.1	50.3	50.8	53.5	50.3	51.2
3	SUN VAAMAN	37.5	65.6	59.0	42.9	51.3	25.3	23.7	28.5	26.7	26.0	85.2	82.8	79.1	76.3	80.8	50.0	53.0	53.5	51.0	51.9
4	BIO 9637(Filler)	36.3	61.7	63.7	42.4	51.0	23.0	22.6	26.4	26.2	24.5	85.8	80.8	78.0	73.4	79.5	48.5	55.5	53.5	52.0	52.4
	CHECKS																				
5	Prakash	37.5	58.6	59.0	40.4	48.9	22.2	21.8	26.8	25.8	24.1	86.4	82.3	83.0	83.0	83.7	50.0	50.0	51.0	47.3	49.6
6	JH 3459	36.0	59.2	61.3	40.0	49.1	23.5	22.7	26.3	26.3	24.7	85.8	82.1	79.4	78.3	81.4	49.3	51.3	52.5	49.3	50.6
	Loc. Mean	37.5	62.4	62.5	41.3	50.9	23.5	22.6	27.2	26.1	24.8	85.0	81.9	79.2	77.0	80.8	49.7	52.0	52.9	50.5	51.3
	C.D. (5%)	2.74	3.36	4.35	2.36	5.14	2.11	0.41	3.13	1.63	0.82	0.98	0.00	2.04	1.42	2.39	1.13	1.32	2.42	1.56	1.95
	C.V. (%)	4.84	3.57	2.70	3.79	6.69	5.96	1.20	4.47	4.13	2.18	0.76	0.00	1.00	1.22	1.97	1.51	1.68	1.78	2.05	2.52
	F (Prob)	0.15	0.00	0.01	0.12	0.48	0.11	0.00	0.41	0.86	0.00	0.00	0.00	0.01	0.00	0.01	0.03	0.00	0.18	0.00	0.06

S.No.	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK					PLANT HEIGHT(cm)					EAR HEIGHT(cm)				
		ALMO	BAJA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	KANG	UDHA	ZN 1 Mean
		1	FH 3513	51.3	53.8	57.0	56.5	54.6	92.5	93.0	96.0	94.3	93.9	212.5	200.8	100.5	180.8	173.6	110.0	115.0	35.0
2	HKH-317	51.8	53.3	56.5	53.5	53.8	91.5	99.5	96.5	94.0	95.4	220.0	211.3	144.0	191.4	191.7	116.3	105.5	58.5	75.0	88.8
3	SUN VAAMAN	52.3	55.0	57.0	54.5	54.7	96.0	98.8	96.0	93.5	96.1	207.5	203.8	113.5	228.4	188.3	97.5	113.8	43.5	62.1	79.2
4	BIO 9637(Filler)	49.5	57.8	57.0	56.3	55.1	94.5	99.3	95.5	93.5	95.7	210.0	247.5	124.5	205.3	196.8	97.5	128.8	54.0	70.6	87.7
	CHECKS																				
5	Prakash	51.3	52.0	54.0	50.8	52.0	93.0	91.5	94.5	92.8	92.9	223.8	217.5	111.0	186.7	184.7	105.0	114.5	39.0	79.8	84.6
6	JH 3459	51.0	53.5	56.0	52.3	53.2	95.0	96.3	95.0	94.3	95.1	217.5	192.5	96.5	162.3	167.2	105.0	110.0	42.0	62.2	79.8
	Loc. Mean	51.2	54.2	56.3	54.0	53.9	93.8	96.4	95.6	93.7	94.9	215.2	212.2	115.0	192.4	183.7	105.2	114.6	45.3	69.0	83.5
	C.D. (5%)	1.54	1.50	4.93	1.87	2.10	2.27	1.86	2.51	0.96	2.74	15.84	8.52	10.95	22.73	23.26	15.72	12.09	12.63	6.19	11.72
	C.V. (%)	2.00	1.83	3.41	2.30	2.59	1.61	1.28	1.02	0.68	1.92	4.88	2.67	3.70	7.84	8.40	9.92	7.00	10.84	5.95	9.31
	F (Prob)	0.03	0.00	0.62	0.00	0.06	0.01	0.00	0.44	0.03	0.20	0.28	0.00	0.00	0.00	0.12	0.15	0.02	0.03	0.00	0.39

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TABLE No. 20

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, LUDHIANA, PANTNAGAR IN AET 2 TRIAL No. 7122 DURING KHARIF (2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE Prakash					GRAIN YIELD % SUPERIORITY OVER THE JH 3459				
		DELH R	KARN R	LUDH R	PANT R	MEAN R	DELH	KARN	LUDH	PANT	MEAN	DELH	KARN	LUDH	PANT	MEAN			
1	31Y45	5908	3461	6493	7076	5734	3.9	-	-	34.4	6.9	-	-	20.9	91.3	23.2			
2	X8F984	5394	4904	9829	7143	6818	-	38	41.5	35.7	27.1	-	37.5	83	93.1	46.5			
3	KDMH 755	5561	3805	7219	7666	6063	-	7.1	3.9	45.6	13.1	-	6.7	34.4	107.3	30.3			
4	BIO 9637(Filler)	4885	3898	6523	6372	5419	-	9.7	-	21.1	1.1	-	9.3	21.4	72.3	16.5			
CHECKS																			
5	Prakash	5689	3553	6945	5264	5362	-	-	-	-	-	-	-	29.3	42.3	15.2			
6	JH 3459	5977	3566	5371	3699	4653	5.1	0.4	-	-	-	-	-	-	-	-			
Location Mean		5569	3865	7063	6203	5675													
Mean Stand		113	108	115	96	108													
C.D. (5%)		1406	67	803	827	776													
C.V. (%)		13.67	1.14	7.5	8.79	-													
F (Prob)		0.335	0	0	0														
Plot Size		18	18	16.38	18	-													
AGRONOMY DATA																			
Sowing Date		6-07	4-07	1-07	9-07	-													
Harvest Date		22-10	2-10	-	20-10	-													
Irrigation Nos		2	4	3	1	-													
Fertilizer Applied N		120	150	90	120	-													
Fertilizer Applied P		60	60	30	60	-													
Fertilizer Applied K		40	60	-	40	-													

Table No.20 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					MOISTURE % AT HARVEST					GRAIN SHELLING %					DAYS TO 50% POLLEN SHED				
		DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	PANT	Mean
1	31Y45	67.8	59.4	68.7	54.9	62.7	19.0	29.4	24.8	27.8	25.2	86.9	65.1	87.4	87.8	81.8	52.7	54.3	50.3	54.0	52.8
2	X8F984	63.0	62.1	70.5	51.1	61.7	18.7	29.7	26.3	28.7	25.8	86.4	64.3	86.8	82.8	80.0	52.0	49.3	48.3	52.5	50.5
3	KDMH 755	62.4	60.7	72.8	54.9	62.7	28.3	30.8	28.6	27.5	28.8	87.1	65.2	85.1	85.0	80.6	52.0	53.8	51.5	54.5	52.9
4	BIO 9637(Filler)	59.3	60.1	69.4	54.3	60.8	28.0	31.1	29.6	27.8	29.1	85.2	63.3	84.8	85.7	79.7	51.3	52.8	50.5	54.3	52.2
	CHECKS																				
5	Prakash	63.7	59.7	70.7	53.1	61.8	27.9	28.9	24.1	27.6	27.1	85.3	64.8	87.1	86.0	80.8	54.0	47.0	46.3	48.3	48.9
6	JH 3459	60.2	57.9	67.6	53.3	59.8	23.2	32.3	25.8	29.1	27.6	87.8	65.0	86.8	85.5	81.2	50.7	52.3	46.0	53.3	50.5
	Loc. Mean	62.7	60.0	70.0	53.6	61.6	24.2	30.4	26.5	28.1	27.3	86.4	64.6	86.3	85.4	80.7	52.1	51.5	48.8	52.8	51.3
	C.D. (5%)	8.16	1.36	5.02	2.56	2.90	1.22	0.81	0.84	1.60	3.67	0.81	0.61	0.63	1.58	1.54	2.59	1.12	1.32	1.43	2.74
	C.V. (%)	7.15	1.50	4.76	3.17	3.12	2.77	1.77	2.11	3.80	8.94	0.52	0.63	0.48	1.23	1.26	2.73	1.44	1.79	1.79	3.55
	F (Prob)	0.32	0.00	0.37	0.05	0.28	0.00	0.00	0.00	0.25	0.22	0.00	0.00	0.00	0.00	0.10	0.17	0.00	0.00	0.00	0.04
S.No.	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK				PLANT HEIGHT(cm)					EAR HEIGHT(cm)					
		DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	Mean	DELH	KARN	LUDH	PANT	Mean	DELH	KARN	LUDH	PANT	Mean	
1	31Y45	54.7	56.3	50.5	56.5	54.5	93.7	81.5	90.8	88.6	193.3	185.0	233.8	215.0	206.8	88.3	86.3	115.0	69.8	89.8	
2	X8F984	54.0	52.3	49.3	55.3	52.7	92.7	79.0	89.3	87.0	185.3	178.8	227.5	201.5	198.3	83.3	92.5	103.8	63.0	85.6	
3	KDMH 755	54.0	56.0	52.3	56.5	54.7	95.0	79.8	90.8	88.5	186.0	193.8	223.8	202.5	201.5	92.3	106.3	121.3	83.0	100.7	
4	BIO 9637(Filler)	53.3	54.8	51.0	57.0	54.0	100.7	80.0	90.8	90.5	167.3	202.5	256.3	225.5	212.9	91.0	98.8	138.8	84.3	103.2	
	CHECKS																				
5	Prakash	57.3	49.0	45.5	51.3	50.8	101.7	78.3	90.5	90.1	186.0	175.0	241.3	190.8	198.3	104.7	92.5	125.0	73.0	98.8	
6	JH 3459	53.0	54.5	47.0	55.3	52.4	99.3	80.8	89.5	89.9	184.3	142.5	205.0	182.5	178.6	104.3	85.0	111.3	71.3	93.0	
	Loc. Mean	54.4	53.8	49.3	55.3	53.2	97.2	79.9	90.3	89.1	183.7	179.6	231.3	203.0	199.4	94.0	93.5	119.2	74.0	95.2	
	C.D. (5%)	3.11	1.11	1.03	1.64	3.01	4.47	1.18	0.79	4.37	17.69	6.55	20.70	7.25	19.58	22.41	6.68	19.06	5.98	11.28	
	C.V. (%)	3.14	1.37	1.39	1.97	3.75	2.53	0.98	0.58	2.70	5.29	2.42	5.94	2.37	6.52	13.10	4.74	10.61	5.35	7.86	
	F (Prob)	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.52	0.11	0.00	0.00	0.00	0.04	0.27	0.00	0.02	0.00	0.03	

TABLE No. 21

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI IN AET 2 TRIAL No. 71Z3 DURING KHARIF (2012)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE Prakash						GRAIN YIELD % SUPERIORITY OVER THE JH 3459							
		BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	BAHR	BHUB	DHOL	RANC	VARA	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN
1	31Y45	8356	1	3720	3	2166	6	5648	2	4429	3	4972	1	89.3	6.8	-	33.3	-	34.2	54.7	14.3	-	31.3	-	28.5
2	REH 2009-12	4181	6	4118	1	2242	5	5285	3	3147	4	3957	4	-	18.2	-	24.8	-	6.8	-	26.6	-	22.9	-	2.2
3	BIO 9637(Filler)	7013	2	3968	2	2500	4	5973	1	1544	6	4863	2	58.9	13.9	-	41	-	31.3	29.8	22	-	38.9	-	25.7
4	PMH 4(Filler)	6405	3	3377	5	2920	1	4850	4	2027	5	4388	3	45.1	-	8.7	14.5	-	18.4	18.6	3.8	15.7	12.7	-	13.4
CHECKS																									
5	Prakash	4413	5	3484	4	2686	2	4236	6	5411	1	3705	6	-	-	-	-	-	-	-	7.1	6.4	-	10.5	-
6	JH 3459	5401	4	3253	6	2525	3	4302	5	4896	2	3870	5	22.4	-	-	1.5	-	4.5	-	-	-	-	-	-
Location Mean		5962		3653		2506		5049		3576		4293													
Mean Stand		99		96		81		68		78		86													
C.D. (5%)		873		83		595		471		2034		506													
C.V. (%)		9.66		1.5		15.66		5.05		30.79		-													
F (Prob)		0		0		0.158		0		0.079		-													
Plot Size		14.4		14.4		18		16.8		14.4		-													
AGRONOMY DATA																									
Sowing Date		9-07		29-06		9-07		6-07		6-07		-													
Harvest Date		5-10		6-10		20-10		11-10		5-10		-													
Irrigation Nos		-		-		2		-		-		-													
Fertilizer Applied N		120		120		120		120		100		-													
Fertilizer Applied P		60		60		60		60		40		-													
Fertilizer Applied K		60		60		40		40		40		-													

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : VARA 30.8 %

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Table No. 21 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					MOISTURE % AT HARVEST					GRAIN SHELLING %					DAYS TO 50% POLLEN SHED								
		BAHR	BHUB	DHOL	RANC	VARA	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	31Y45	74.8	66.1	46.3	39.7	50.9	55.6	23.3	19.2	28.9	24.1	30.7	25.2	80.1	78.7	86.6	86.6	80.5	82.5	53.0	47.3	50.8	52.0	53.7	51.3
2	REH 2009-12	62.8	67.5	45.0	40.1	49.3	53.0	22.2	19.2	30.1	24.7	33.3	25.9	70.5	78.4	85.1	83.0	76.5	78.7	53.8	46.0	54.8	51.3	55.7	52.3
3	BIO 9637(Filler)	71.7	66.8	44.4	41.1	55.6	55.9	22.0	19.7	28.6	24.7	31.6	25.3	76.2	77.7	81.5	86.1	75.8	79.4	55.3	46.0	53.5	49.0	48.3	50.4
4	PMH 4(Filler)	71.4	68.4	48.8	42.9	50.0	56.3	21.2	18.9	24.9	24.9	32.3	24.4	79.9	77.7	82.2	87.4	74.0	80.2	49.8	46.8	48.0	50.0	51.7	49.2
CHECKS																									
5	Prakash	69.8	66.3	41.8	38.5	60.2	55.3	20.6	18.6	23.6	24.6	32.0	23.9	74.4	78.0	83.2	85.7	82.0	80.6	45.8	47.0	48.5	47.7	52.0	48.2
6	JH 3459	61.6	64.9	44.6	39.1	60.2	54.1	19.1	18.2	27.0	25.2	28.7	23.6	74.0	76.7	84.7	85.1	84.0	80.9	50.5	48.0	51.3	48.0	46.3	48.8
	Loc. Mean	68.7	66.7	45.1	40.2	54.4	55.0	21.4	19.0	27.2	24.7	31.4	24.7	75.8	77.9	83.9	85.7	78.8	80.4	51.3	46.8	51.1	49.7	51.3	50.0
	C.D. (5%)	3.09	2.42	10.10	3.35	8.26	4.85	0.70	-	1.08	0.92	1.34	1.79	4.32	0.00	3.29	2.05	1.16	3.45	1.64	1.18	3.54	2.59	6.03	3.07
	C.V. (%)	2.99	2.41	14.84	4.58	8.36	6.69	2.18	-	2.63	2.05	2.34	5.49	3.78	0.00	2.60	1.31	0.81	3.25	2.11	1.67	4.60	2.87	6.46	4.66
	F (Prob)	0.00	0.11	0.80	0.14	0.04	0.71	0.00	0.00	0.00	0.28	0.00	0.10	0.00	0.00	0.04	0.01	0.00	0.33	0.00	0.02	0.01	0.02	0.06	0.08
CHECKS																									
DAYS TO 50% SILKING																									
DAYS TO 75% DRY HUSK																									
PLANT HEIGHT(cm)																									
EAR HEIGHT(cm)																									
S.No.	PEDIGREE	BAHR	BHUB	DHOL	RANC	VARA	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	31Y45	55.3	50.5	52.0	55.0	54.3	53.4	89.0	86.5	80.0	89.3	88.0	86.6	189.0	143.3	184.3	220.5	175.0	182.4	76.3	61.0	83.8	106.3	70.5	79.5
2	REH 2009-12	57.3	48.5	56.5	53.7	56.0	54.4	90.5	86.5	82.5	91.3	90.3	88.2	172.5	150.0	180.0	214.1	176.3	178.6	90.8	57.8	90.1	112.5	80.0	86.2
3	BIO 9637(Filler)	57.0	48.5	55.3	53.0	52.3	53.2	89.3	85.0	82.0	89.7	84.0	86.0	150.8	148.5	188.9	222.2	140.0	170.1	76.5	57.8	89.5	108.5	70.0	80.5
4	PMH 4(Filler)	51.8	49.5	50.0	53.0	54.3	51.7	86.5	83.5	80.0	88.7	86.0	84.9	172.3	132.7	168.4	191.1	155.0	163.9	79.3	52.7	88.6	104.5	72.5	79.5
CHECKS																									
5	Prakash	47.8	48.5	50.3	50.0	51.3	49.6	83.5	82.0	79.3	86.0	87.7	83.7	165.3	135.6	155.1	209.0	201.0	173.2	77.8	58.7	76.3	106.4	105.0	84.8
6	JH 3459	52.5	54.0	52.8	53.0	49.7	52.4	83.5	83.5	79.8	92.3	86.3	85.1	141.5	125.7	143.5	196.5	171.3	155.7	58.0	56.8	71.6	104.0	97.5	77.6
	Loc. Mean	53.6	49.9	52.8	52.9	53.0	52.4	87.0	84.5	80.6	89.6	87.1	85.7	165.2	139.3	170.0	208.9	169.8	170.6	76.4	57.4	83.3	107.0	82.6	81.4
	C.D. (5%)	1.04	2.57	3.69	2.79	7.57	2.86	0.95	1.68	2.35	3.74	4.81	2.23	27.14	4.92	12.94	17.12	24.48	18.79	10.25	3.31	14.11	12.24	12.34	12.48
	C.V. (%)	1.29	3.41	4.64	2.90	7.85	4.14	0.72	1.32	1.93	2.29	3.04	1.98	10.90	2.35	5.05	4.50	7.93	8.35	8.90	3.82	11.24	6.29	8.22	11.63
	F (Prob)	0.00	0.00	0.01	0.05	0.50	0.04	0.00	0.00	0.05	0.04	0.17	0.01	0.03	0.00	0.00	0.01	0.00	0.08	0.00	0.00	0.06	0.67	0.00	0.67





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Table No. 22 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)								MOISTURE % AT HARVEST								GRAIN SHELLING %							
		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	SUN VAAMAN	57.9	64.4	61.4	57.8	64.7	60.0	54.9	60.2	20.2	24.6	16.7	7.6	10.6	15.1	14.0	15.5	83.9	78.8	77.3	81.4	84.2	80.2	83.3	81.3
2	FH 3513	57.8	65.1	63.3	63.1	65.7	62.9	55.1	61.8	22.3	19.5	17.7	7.5	9.6	16.5	11.7	15.0	84.4	80.2	79.5	84.4	84.8	80.6	81.2	82.1
3	BIO 9637(Filler )	57.8	65.5	60.6	62.8	66.1	58.8	55.6	61.0	22.7	23.2	17.8	8.8	12.2	16.5	12.8	16.3	85.7	76.4	80.1	79.7	82.1	82.9	85.6	81.8
4	PMH 4(Filler )	59.0	64.8	60.1	62.8	66.7	58.8	54.9	61.0	22.1	22.7	20.1	9.5	10.4	15.3	13.5	16.2	89.8	81.3	80.8	83.6	83.6	82.9	82.8	83.5
CHECKS																									
5	Prakash	59.6	64.9	59.2	64.2	66.1	59.1	54.9	61.1	20.4	20.7	18.0	5.6	8.9	13.9	10.9	14.0	88.0	82.6	80.1	85.9	84.5	83.8	81.5	83.7
6	JH 3459	45.8	64.8	54.6	42.5	62.8	-	54.4	54.1	20.0	22.6	18.1	11.4	11.7	-	10.9	15.8	86.2	81.3	78.9	83.3	81.9	-	82.0	82.3
	Loc. Mean	56.3	64.9	59.9	58.8	65.3	59.9	54.9	59.9	21.3	22.2	18.0	8.4	10.5	15.5	12.3	15.5	86.3	80.1	79.4	83.0	83.5	82.1	82.7	82.5
	C.D. (5%)	7.14	1.25	4.01	3.14	2.68	4.59	2.71	3.38	1.45	1.47	1.20	0.74	1.41	0.46	1.99	1.35	1.34	1.59	2.04	1.29	1.36	0.82	1.68	1.76
	C.V. (%)	8.41	1.27	4.44	3.54	2.72	6.10	2.71	5.17	4.53	4.39	4.41	5.87	8.85	2.38	8.92	7.98	1.03	1.32	1.71	1.03	1.08	0.80	1.11	1.95
	F (Prob)	0.01	0.61	0.01	0.00	0.07	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.05

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	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	
1	SUN VAAMAN	53.8	47.3	49.8	46.0	61.8	48.3	48.3	50.7	58.0	49.3	60.3	47.8	62.8	50.8	51.3	54.3	85.3	84.8	76.0	93.3	90.0	103.0	88.7	
2	FH 3513	53.8	46.0	51.3	45.5	62.8	49.8	48.0	51.0	57.5	48.0	53.3	47.3	63.8	52.0	50.7	53.2	83.8	84.0	75.5	93.0	87.8	101.3	87.6	
3	BIO 9637(Filler )	54.3	48.0	52.8	47.5	63.5	50.0	48.3	52.0	58.8	50.3	54.3	49.3	64.5	52.5	50.7	54.3	86.3	85.8	77.5	93.3	93.0	102.7	89.7	
4	PMH 4(Filler )	54.0	46.0	50.8	46.3	62.0	49.5	48.3	51.0	57.5	48.0	52.5	48.8	63.0	51.3	51.3	53.2	84.8	83.3	76.3	93.8	89.5	103.3	88.5	
CHECKS																									
5	Prakash	54.0	44.8	49.3	44.5	61.0	47.8	47.7	49.8	58.8	46.8	51.8	46.0	62.0	49.0	51.0	52.2	82.8	82.5	74.5	90.0	90.0	102.0	87.0	
6	JH 3459	54.5	46.3	50.8	45.5	60.0	-	48.3	50.9	57.5	48.3	52.8	46.3	61.0	-	51.3	52.8	84.5	82.8	75.5	90.3	-	104.3	87.5	
	Loc. Mean	54.0	46.4	50.8	45.9	61.8	49.1	48.2	50.9	58.0	48.4	54.1	47.5	62.8	51.1	51.1	53.3	84.5	83.8	75.9	92.3	90.1	102.8	88.1	
	C.D. (5%)	1.80	0.52	1.33	1.27	0.48	0.96	1.41	0.82	1.18	0.66	9.73	1.07	0.48	1.60	2.19	1.54	0.74	2.07	1.27	1.80	1.62	1.75	1.26	
	C.V. (%)	2.21	0.75	1.74	1.83	0.51	1.56	1.61	1.47	1.35	0.90	11.93	1.50	0.50	2.50	2.36	2.65	0.58	1.64	1.11	1.30	1.43	0.93	1.21	
	F (Prob)	0.94	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.08	0.00	0.49	0.00	0.00	0.00	0.95	0.06	0.00	0.03	0.00	0.00	0.00	0.04	0.00	

Table No. 22 (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	SUN VAAMAN	145.0	158.7	199.0	190.0	145.0	189.5	160.0	169.6		62.0	81.9	71.5	62.5	80.8	68.5	71.2	
2	FH 3513	144.5	151.8	188.0	183.8	140.0	188.0	158.3	164.9		62.5	74.7	76.0	62.5	84.3	65.0	70.8	
3	BIO 9637(Filler)	201.0	179.7	225.0	236.3	193.8	234.8	166.7	205.3		130.5	95.5	104.0	90.0	110.5	66.2	99.4	
4	PMH 4(Filler)	174.0	160.9	201.0	206.3	161.3	203.0	162.3	181.2		84.5	90.1	80.0	83.8	96.3	73.7	84.7	
	CHECKS																	
5	Prakash	148.5	171.8	189.5	203.8	153.8	203.8	153.4	174.9		72.5	85.0	80.5	78.8	105.0	73.3	82.5	
6	JH 3459	144.0	181.7	181.5	197.5	136.3	-	149.5	165.1		72.0	78.5	80.0	63.8	-	74.9	73.8	
	Loc. Mean	159.5	167.4	197.3	202.9	155.0	203.8	158.4	176.8		80.7	84.3	82.0	73.5	95.4	70.3	80.4	
	C.D. (5%)	4.50	4.16	12.43	22.68	18.04	13.27	10.12	11.35		15.39	6.42	7.90	14.00	7.03	12.15	11.88	
	C.V. (%)	1.87	1.65	4.18	7.41	7.72	5.18	3.51	5.88		12.66	5.05	6.39	12.63	5.87	9.51	12.42	
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00		0.00	0.00	0.00	0.00	0.00	0.37	0.00	

TABLE No. 23

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, JHABUA, IN AET 2 TRIAL No. 71Z5 DURING KHARIF (2012)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE											GRAIN YIELD % SUPERIORITY OVER THE Prakash						GRAIN YIELD % SUPERIORITY OVER THE JH 3459										
	ZN 5											ZN 5						ZN 5										
PEDIGREE	AMBI	R	BANS	R	CHHI	R	GODH	R	JHAB	R	UDAI	R	MEAN	R	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN
1 FH 3513	6134	5	5151	3	7312	6	5620	2	7029	2	6244	2	6249	4	-	-	-	-	31.3	111.8	-	6.3	46.2	-	36.2	-	6.2	10.5
2 REH 2009-12	7317	3	3328	6	8901	2	5015	4	6577	3	6253	1	6228	5	11.3	-	11.6	-	22.9	112.1	-	26.7	-	20	21.5	-	6.3	10.1
3 31Y45	8272	1	5264	2	8926	1	4522	5	5272	6	5091	4	6451	2	25.8	-	11.9	-	-	72.7	3.1	43.3	49.4	20.4	9.6	-	-	14.1
4 BIO 9637(Filler)	7858	2	4661	4	8772	3	5327	3	6035	4	4858	5	6531	1	19.5	-	10	-	12.7	64.8	4.4	36.1	32.3	18.3	29.1	-	-	15.5
CHECKS																												
5 Prakash	6573	4	5360	1	7977	4	6023	1	5353	5	2948	6	6257	3	-	-	-	-	-	-	-	13.9	52.1	7.6	45.9	-	-	10.7
6 JH 3459	5773	6	3523	5	7416	5	4127	6	7433	1	5880	3	5655	6	-	-	-	-	38.9	99.4	-	-	-	-	-	-	-	-
Location Mean	6988		4548		8217		5106		6283		5212		6228															
Mean Stand	112		104		114		88		68		81		97															
C.D. (5%)	1135		537		1147		1135		586		1962		908															
C.V. (%)	10.71		7.79		7.55		14.66		5.05		20.38		-															
F (Prob)	0		0		0		0		0		0.02		-															
Plot Size	14.4		14.4		18		14.4		13.5		14.4		-															
AGRONOMY DATA																												
Sowing Date	13-07		13-07		28-06		16-07		9-07		4-07		-															
Harvest Date	-		12-10		8-11		18-10		13-10		12-10		-															
Irrigation Nos	-		-		-		-		-		1		-															
Fertilizer Applied N	100		150		120		120		100		90		-															
Fertilizer Applied P	50		80		60		50		60		60		-															
Fertilizer Applied K	30		40		40		-		40		-		-															

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : UDAI 20.4 %

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Table No. 23 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)						MOISTURE % AT HARVEST						GRAIN SHELLING %						DAYS TO 50% SILKING									
		AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	
1	FH 3513	76.4	73.4	66.1	73.1	49.4	58.8	66.2	16.0	12.4	18.7	24.1	21.2	18.5	80.6	75.5	81.0	83.4	86.6	79.9	81.2	48.8	42.5	53.0	49.3	55.0	55.7	50.7	
2	REH 2009-12	81.8	72.4	64.1	71.4	49.9	54.4	65.6	16.3	14.9	17.7	24.7	29.7	20.6	77.5	69.7	88.3	81.4	83.0	81.5	80.2	54.5	44.0	56.7	52.0	53.7	56.7	52.9	
3	31Y45	85.6	72.6	66.3	45.5	47.9	58.3	62.7	16.9	12.5	18.8	24.6	25.6	19.7	78.6	75.8	88.1	83.4	85.7	80.7	82.0	54.8	44.0	56.0	52.0	50.0	57.0	52.3	
4	BIO 9637(Filler)	82.1	74.1	66.3	70.0	53.3	55.3	66.9	16.7	15.7	19.7	24.9	25.4	20.5	80.4	72.4	84.7	82.8	87.4	82.0	81.6	51.5	42.8	54.3	50.5	53.0	56.7	51.5	
CHECKS																													
5	Prakash	74.3	73.1	60.7	58.3	48.6	57.4	62.1	16.8	11.2	19.0	25.2	22.8	19.0	80.7	79.3	89.8	85.5	85.1	79.0	83.2	47.3	43.0	49.0	46.5	53.0	56.7	49.2	
6	JH 3459	65.6	68.8	55.6	47.7	51.1	54.6	57.2	16.4	13.9	17.0	24.7	23.0	19.0	80.4	71.9	91.0	74.2	86.1	82.1	80.9	48.3	43.8	54.0	47.8	53.0	52.7	49.9	
	Loc. Mean	77.6	72.4	63.2	61.0	50.0	56.5	63.5	16.5	13.4	18.5	24.7	24.6	19.5	79.7	74.1	87.1	81.8	85.7	80.9	81.5	50.8	43.3	53.8	49.7	52.9	55.9	51.1	
	C.D. (5%)	7.85	2.54	2.39	4.52	4.17	6.10	6.61	0.10	1.16	1.91	0.92	2.64	2.01	3.79	1.02	1.79	5.50	2.05	0.87	3.37	1.00	1.11	0.66	2.50	2.79	2.52	2.20	
	C.V. (%)	6.71	2.33	2.08	4.92	4.58	5.93	8.76	0.40	4.74	6.87	2.05	5.89	7.80	3.16	0.91	1.13	4.46	1.31	0.59	3.48	1.31	1.70	0.68	3.34	2.90	2.48	3.61	
	F (Prob)	0.00	0.01	0.00	0.00	0.14	0.46	0.06	0.00	0.00	0.08	0.28	0.00	0.19	0.40	0.00	0.00	0.01	0.01	0.00	0.57	0.00	0.03	0.00	0.00	0.05	0.03	0.02	
S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED						DAYS TO 75% DRY HUSK						PLANT HEIGHT(cm)						EAR HEIGHT(cm)									
		AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean
1	FH 3513	46.0	39.5	53.0	47.5	52.0	54.0	48.7	88.8	70.5	86.7	81.3	89.3	87.0	83.9	170.0	188.5	166.7	162.8	220.5	156.7	177.5	49.0	85.7	80.0	73.8	106.3	71.7	77.7
2	REH 2009-12	51.5	41.0	56.7	48.5	51.3	55.0	50.7	93.8	71.5	90.3	86.0	91.3	89.7	87.1	232.4	224.3	211.7	190.5	214.1	196.7	211.6	71.7	110.4	96.7	78.3	112.5	78.3	91.3
3	31Y45	51.8	41.0	54.3	48.8	47.7	55.3	49.8	95.3	72.5	90.0	84.8	86.0	88.7	86.2	237.8	230.5	200.0	189.5	209.0	200.0	211.1	72.0	113.1	86.7	80.3	106.4	95.0	92.2
4	BIO 9637(Filler)	48.5	39.8	53.3	48.0	50.0	54.7	49.0	90.3	70.3	90.0	82.0	88.7	87.0	84.7	240.4	234.4	223.3	171.8	191.1	176.7	206.3	82.2	119.4	93.3	87.5	104.5	88.3	95.9
CHECKS																													
5	Prakash	44.3	40.0	49.0	44.8	48.0	55.3	46.9	87.3	69.5	87.0	77.0	92.3	83.3	82.7	194.2	185.8	200.0	172.3	196.5	193.3	190.3	62.2	99.7	95.0	77.0	104.0	81.7	86.6
6	JH 3459	45.3	40.5	53.3	45.0	49.0	50.0	47.2	88.5	72.3	88.7	79.8	89.7	86.3	84.2	183.0	183.1	176.7	187.3	222.2	183.3	189.2	61.2	86.8	81.7	76.8	108.5	81.7	82.8
	Loc. Mean	47.9	40.3	53.3	47.1	49.7	54.1	48.7	90.6	71.1	88.8	81.8	89.6	87.0	84.8	209.6	207.7	196.4	179.0	208.9	184.4	197.7	66.4	102.5	88.9	78.9	107.0	82.8	87.7
	C.D. (5%)	1.06	1.14	0.86	2.26	2.59	2.96	2.02	1.55	1.00	1.03	2.27	3.74	4.16	2.34	18.51	18.79	9.20	34.15	17.12	30.47	19.76	10.08	12.95	9.78	19.73	12.24	18.32	7.67
	C.V. (%)	1.47	1.88	0.88	3.18	2.87	3.01	3.50	1.14	0.94	0.64	1.84	2.29	2.63	2.32	5.86	6.00	2.57	12.66	4.50	9.08	8.41	10.08	8.38	6.05	16.59	6.29	12.16	7.35
	F (Prob)	0.00	0.05	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.01	0.00	0.00	0.00	0.43	0.01	0.08	0.01	0.00	0.00	0.01	0.76	0.67	0.18	0.00

TABLE No. 24

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, UDHAMPUR IN AET 2 TRIAL No. 72Z1 DURING KHARIF (2012)

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE									GRAIN YIELD % SUPERIORITY					GRAIN YIELD % SUPERIORITY															
	No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	UDHA	R	MEAN	R	OVER THE Vivek Hybrid 9					OVER THE Vivek QPM 9												
												ALMO	BAJA	KANG	UDHA	MEAN	ALMO	BAJA	KANG	UDHA	MEAN									
1	FH 3525	7053	1	14315	1	3392	1	4515	2	7319	1	7.1	21.8	40.3	34.6	21.4	15.2	46.1	29	23.3	31.8									
2	KH-9888	6824	2	13019	2	2401	7	3172	7	6354	2	3.6	10.8	-	-	5.4	11.5	32.9	-	-	14.4									
3	FH 3510	4919	6	10416	4	3245	3	3414	5	5499	7	-	-	34.2	1.8	-	-	6.3	23.5	-	-									
4	Prakash(Filler)	4849	7	9708	6	3344	2	5042	1	5736	4	-	-	38.3	50.4	-	-	-	27.2	37.7	3.3									
5	JH 3459(Filler)	5643	5	9259	7	3176	4	4233	3	5578	5	-	-	31.3	26.2	-	-	-	20.8	15.6	0.5									
CHECKS																														
6	Vivek Hybrid 9	6585	3	11751	3	2418	6	3353	6	6027	3	-	-	-	-	-	7.6	20	-	-	8.6									
7	Vivek QPM 9	6122	4	9796	5	2629	5	3661	4	5552	6	-	-	8.7	9.2	-	-	-	-	-	-									
Location Mean		5999		11181		2944		3913		6009																				
Mean Stand		93		68		21		76		65																				
C.D. (5%)		852		793		248		517		602																				
C.V. (%)		9.51		4.75		3.28		8.86		-																				
F (Prob)		0		0		0		0		-																				
Plot Size		14.4		9		4.32		18		-																				
AGRONOMY DATA																														
Sowing Date		9-07		28-06		17-07		18-07		-																				
Harvest Date		3-11		19-10		26-10		-		-																				
Irrigation Nos		3		3		-		-		-																				
Fertilizer Applied N		80		120		120		80		-																				
Fertilizer Applied P		60		60		60		60		-																				
Fertilizer Applied K		40		40		40		40		-																				



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TABLE No. 25

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI IN TRIAL No. 72Z3 DURING KHARIF (2012)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE											GRAIN YIELD % SUPERIORITY OVER						GRAIN YIELD % SUPERIORITY																		
	PEDIGREE											THE Vivek Hybrid 9						OVER THE Vivek QPM 9																		
	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	BAHR	BHUB	DHOL	RANC	VARA	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN												
1	KH-9888	5227	6	3529	3	2553	4	7863	5	4141	4	5540	5	-	-	8.1	-	24.4	-	-	6.8	18.2	-	26.7	-											
2	FH 3525	5779	4	2511	7	2713	3	8231	2	4775	2	5507	6	-	-	14.8	4	43.5	-	-	-	25.6	-	46.1	-											
3	FH 3510	6194	1	3435	5	1854	7	6066	7	3742	5	5232	7	3.8	-	-	-	12.4	-	4	4	-	-	14.5	-											
4	Prakash(Filler)	5724	5	3933	1	3896	1	7259	6	5555	1	5639	3	-	6.8	64.9	-	66.9	-	-	19.1	80.3	-	70	-											
5	JH 3459(Filler)	5161	7	3494	4	3061	2	8068	3	4293	3	5574	4	-	-	29.6	2	29	-	-	5.8	41.7	-	31.4	-											
CHECKS																																				
6	Vivek Hybrid 9	5967	2	3683	2	2362	5	7912	4	3328	6	5854	2	-	-	-	-	-	-	0.2	11.5	9.3	-	1.8	-											
7	Vivek QPM 9	5956	3	3303	6	2160	6	8422	1	3268	7	5894	1	-	-	-	6.5	-	0.7	-	-	-	-	-	-											
Location Mean		5715		3413		2657		7689		4157		5606																								
Mean Stand		99		96		89		66		111		87																								
C.D. (5%)		529		149		1039		635		1912		438																								
C.V. (%)		6.21		2.93		26.22		4.59		25.59		-																								
F (Prob)		0.002		0		0.021		0.23		0.041		-																								
Plot Size		14.4		14.4		18		9.6		14.4		-																								
AGRONOMY DATA																																				
Sowing Date		13-07		29-06		9-07		6-07		16-07		-																								
Harvest Date		4-10		5-10		20-10		11-10		20-10		-																								
Irrigation Nos		-		-		2		-		-		-																								
Fertilizer Applied N		120		120		120		120		100		-																								
Fertilizer Applied P		60		60		60		60		40		-																								
Fertilizer Applied K		60		60		40		40		40		-																								

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : DHOL 26.2 %: VARA 25.6 %



B259

Table No. 25 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)					MOISTURE % AT HARVEST						GRAIN SHELLING %					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	Mean			
		ZN 3					ZN 3						ZN 3					ZN 3							
1	KH-9888	68.9	66.7	48.3	63.9	80.3	65.6	19.6	19.5	24.3	24.5	25.8	22.7	74.5	76.1	84.5	85.4	81.5	80.4	47.3	43.8	47.8	45.0	45.0	45.8
2	FH 3525	70.3	68.6	51.7	65.3	66.9	64.5	21.0	18.4	26.4	22.6	27.0	23.1	82.8	78.3	87.1	84.1	81.5	82.8	47.5	47.0	48.3	46.3	51.3	48.1
3	FH 3510	69.6	65.3	51.0	72.9	77.8	67.3	20.2	19.3	21.0	23.9	25.3	21.9	81.4	78.2	80.9	81.9	81.8	80.8	48.3	44.8	47.5	45.0	46.0	46.3
4	Prakash(Filler)	68.8	67.2	51.8	70.1	81.0	67.8	18.3	17.6	25.1	25.1	25.0	22.2	79.6	79.0	85.0	87.0	80.5	82.2	49.5	45.3	47.5	44.3	49.3	47.2
5	JH 3459(Filler)	66.1	66.8	42.8	71.5	72.2	63.9	18.8	19.0	29.2	25.0	26.8	23.8	77.4	80.4	85.0	85.0	79.5	81.5	51.3	49.3	51.0	46.7	50.7	49.8
CHECKS																									
6	Vivek Hybrid 9	69.1	65.8	50.1	65.3	81.3	66.3	20.2	18.0	26.3	24.5	25.2	22.8	76.5	78.5	81.7	84.2	77.5	79.7	44.3	45.0	48.5	45.0	47.7	46.1
7	Vivek QPM 9	70.5	66.5	50.8	68.8	81.0	67.5	19.2	18.8	23.9	24.1	24.0	22.0	76.1	79.2	83.3	86.3	76.3	80.2	48.3	45.5	48.8	42.7	48.3	46.7
	Loc. Mean	69.0	66.7	49.5	68.3	77.2	66.1	19.6	18.7	25.2	24.2	25.6	22.6	78.3	78.5	83.9	84.8	79.8	81.1	48.0	45.8	48.5	45.0	48.3	47.1
	C.D. (5%)	3.60	2.67	6.36	11.46	5.61	4.38	0.27	0.00	2.76	0.82	2.37	1.78	0.75	-	2.09	0.73	4.51	2.65	0.83	0.93	1.58	1.00	2.33	1.70
	C.V. (%)	3.51	2.70	8.65	9.44	4.08	5.08	0.93	0.00	7.40	1.91	5.22	6.02	0.64	-	1.67	0.49	3.17	2.51	1.17	1.36	2.19	1.25	2.72	2.76
	F (Prob)	0.26	0.28	0.09	0.54	0.00	0.44	0.00	0.00	0.00	0.00	0.16	0.36	0.00	-	0.00	0.00	0.12	0.22	0.00	0.00	0.00	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	Mean			
		ZN 3					ZN 3						ZN 3					ZN 3							
1	KH-9888	49.3	46.0	49.3	48.3	50.3	48.6	78.3	75.3	80.0	83.7	82.0	79.8	148.8	138.8	138.1	195.1	173.8	158.9	53.8	48.0	59.9	88.9	65.0	65.4
2	FH 3525	49.5	50.0	50.0	49.0	56.3	51.0	78.3	76.5	79.8	84.3	87.7	81.3	153.3	128.2	153.4	193.1	140.0	153.6	49.3	46.6	55.5	85.3	60.0	61.8
3	FH 3510	50.3	47.5	49.0	47.0	50.3	48.8	79.8	75.8	78.5	83.7	82.3	80.0	130.8	126.4	108.8	172.1	137.5	135.1	52.0	43.2	50.6	79.8	52.5	56.5
4	Prakash(Filler)	51.5	47.5	48.5	48.0	51.7	49.4	79.5	76.8	78.5	82.7	83.3	80.2	167.3	141.0	143.3	200.4	158.8	162.1	86.0	60.9	57.9	110.2	85.0	78.5
5	JH 3459(Filler)	50.8	51.8	52.3	49.0	55.3	51.8	81.0	79.8	79.5	84.7	86.0	82.2	156.5	135.9	132.8	193.1	137.5	151.1	77.0	55.2	54.3	103.1	66.3	69.7
CHECKS																									
6	Vivek Hybrid 9	46.0	47.8	49.5	48.7	52.3	48.9	78.8	77.5	78.8	83.7	85.3	80.8	158.5	138.4	144.4	180.3	167.5	157.8	59.5	56.1	63.9	82.7	65.0	66.9
7	Vivek QPM 9	49.5	48.0	49.5	46.0	53.7	49.3	76.5	76.8	77.8	82.0	85.3	79.7	172.5	139.0	155.0	192.5	161.3	164.0	74.3	55.0	70.1	89.3	61.3	68.9
	Loc. Mean	49.5	48.4	49.7	48.0	52.9	49.7	78.9	76.9	79.0	83.5	84.6	80.6	155.4	135.4	139.4	189.5	153.8	154.7	64.5	52.1	58.9	91.3	65.0	66.8
	C.D. (5%)	3.08	1.18	1.88	0.94	2.52	1.79	1.21	2.45	3.01	2.14	3.48	1.57	21.29	3.14	39.93	19.29	6.65	11.55	20.00	2.69	16.15	11.44	6.67	9.35
	C.V. (%)	4.18	1.64	2.54	1.10	2.68	2.76	1.03	2.14	2.56	1.44	2.31	1.49	9.23	1.56	19.28	5.72	2.43	5.72	20.86	3.48	18.47	7.04	5.77	9.42
	F (Prob)	0.04	0.00	0.01	0.00	0.00	0.01	0.00	0.03	0.70	0.19	0.03	0.03	0.02	0.00	0.29	0.09	0.00	0.00	0.01	0.00	0.26	0.00	0.00	0.00

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

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TABLE No. 26

Performance of QPM experimental hybrids at Bajaura, Barapani, Kangra, Delhi, Karnal, Ludhiana, Pantnagar, Dholi, Bahraich, Bhubaneshwar, Ranchi, Varanasi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Ambikapur, Chhindwara, Banswara, Godhra, Udaipur in trial no. QPM-123 during kharif (2012)

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																			
	ZN 1											ZN 2						ZN 3																		
	BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R				
1 UQMH-4	7321	17	2283	17	2697	13	5009	16	3147	15	7207	1	4992	15	3340	16	4671	15	3271	16	2781	15	2743	16	4068	17	3446	16	3391	17	2828	16				
2 UQMH-5	8299	15	3905	7	3531	9	5915	15	4571	4	6703	3	5208	14	4450	8	5233	6	6513	2	3606	13	2585	17	5216	12	3152	17	4622	15	3562	15				
3 HQPM-1(Filler)	12959	1	5660	2	4276	3	8617	1	4098	6	4160	16	8374	5	5086	4	5430	4	5447	6	4240	5	4020	8	6540	5	6263	11	5622	7	6039	3				
4 HQPM-1(Filler)	11707	6	3254	14	3816	6	7761	5	3484	13	4364	14	7120	12	5177	3	5036	12	4121	14	3649	12	3621	10	4750	16	7215	6	4934	12	5158	8				
5 VEHQ-3020	12582	2	4274	5	4427	2	8505	2	5100	1	6944	2	9028	1	5023	5	6524	1	4076	15	4088	8	3134	12	6585	3	7456	5	5551	8	6797	2				
6 MHQPM-09-7	11473	7	5817	1	2180	15	6827	8	3702	12	4144	17	8502	3	3921	13	5067	11	4737	11	3662	11	4867	3	4879	14	6198	12	4869	13	4309	10				
7 MHQPM-09-6	10463	8	3701	11	2688	14	6575	9	4067	7	4954	11	6442	13	4425	9	4972	13	4834	10	2626	16	5298	1	6397	6	5189	15	4762	14	2407	17				
8 MHQPM-09-8	10200	9	3428	13	3548	8	6874	7	4056	8	5234	5	7213	11	4026	11	5132	10	7601	1	4199	6	4750	4	6565	4	6408	10	6193	3	4302	11				
9 HQPM-1(Filler)	10134	10	4488	4	2031	16	6082	14	2574	17	4263	15	8957	2	4005	12	4950	14	4846	9	3664	10	4184	6	6242	8	5859	13	5153	10	4241	12				
10 HQPM-1(Filler)	7930	16	3923	6	2029	17	4980	17	3204	14	5139	8	7698	8	4509	7	5138	9	2852	17	3442	14	2780	15	5111	13	5649	14	4264	16	3896	14				
11 EHQ-16	9174	13	3050	15	3298	10	6236	12	4028	10	4756	13	-	4414	10	4399	16	4179	13	4145	7	3755	9	5700	10	8578	2	5651	5	5688	6					
12 HQPM-7(Filler)	8402	14	2772	16	4535	1	6469	10	4983	2	4771	12	7295	10	3919	14	5242	5	4304	12	3880	9	2841	14	5644	11	6446	9	5069	11	4128	13				
13 HQPM-5(Filler)	9846	11	3447	12	2958	12	6402	11	2645	16	5103	9	8224	6	4691	6	5166	8	5136	8	4490	3	5140	2	4863	15	8073	3	5640	6	5039	9				
CHECKS																																				
14 HQPM-1	11779	5	3748	10	3642	7	7710	6	4667	3	5162	7	8472	4	5527	2	5957	2	6127	3	4691	1	3435	11	5895	9	6980	8	5923	4	5735	5				
15 HQPM-5	9447	12	3810	9	3003	11	6225	13	3957	11	5191	6	-	3220	17	4123	17	5203	7	2452	17	3017	13	6364	7	7766	4	5446	9	5567	7					
16 HQPM-7	11943	4	3831	8	4270	4	8107	4	4189	5	5042	10	7840	7	5551	1	5655	3	6104	5	4568	2	4166	7	7210	1	7060	7	6235	2	6894	1				
17 HQPM-4	12017	3	5542	3	4220	5	8119	3	4054	9	5817	4	7317	9	3716	15	5226	7	6123	4	4350	4	4222	5	6611	2	9748	1	6708	1	5937	4				
Location Mean	10334		3937		3362		6848		3913		5233		7512		4412		5267		5028		3796		3797		5802		6558		5296		4855					
Mean Stand	40		25		31		35		69		65		65		58		64		56		64		57		59		77		64		48					
C.D. (5%)	1510		3961		268		889		984		210		643		740		644		893		101		1430		1223		1528		936		1381					
C.V. (%)	8.77		47.2		3.74		-		15.11		2.41		5.11		10.07		-		10.66		1.59		22.62		9.89		14		-		17.08					
F (Prob)	0		0.723		0		0		0		0		0		0		0		0		0		0.003		0		0		-		0					
Plot Size	6		2.5		4.8		-		12		12		10.4		12		-		9.6		9.6		12		9.6		9.6		-		12					
AGRONOMY DATA																																				
Sowing Date	26-06		27-06		16-07		-		6-07		4-07		23-06		9-07		-		16-07		23-06		9-07		7-07		7-07		-		24-07					
Harvest Date	29-10		24-09		27-10		-		18-10		6-10		5-10		26-10		-		28-10		-		21-09		16-10		11-10		-		21-11					
Irrigation Nos	3		-		-		-		2		6		4		1		-		-		-		2		-		-		-		6					
Fertilizer Applied N	120		80		120		-		120		150		50		120		-		120		120		120		120		120		-		150					
Fertilizer Applied P	60		60		60		-		60		60		24		60		-		60		60		60		60		60		-		75					
Fertilizer Applied K	40		40		40		-		40		60		12		40		-		60		60		60		40		40		-		37.5					

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): BARA 47.2 %: DHOL 22.6 %: BANS 29.8 %

B261

SI No PEDIGREE	ZN 4																ZN 5		OV'L								
	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R	
1 UQMH-4	4479	17	5792	16	3325	17	4508	17	6085	17	4503	17	3436	17	2308	10	3761	17	3493	13	3436	13	3531	17	4171	17	
2 UQMH-5	4716	16	6554	15	3353	16	5232	15	8408	9	5304	16	4171	16	2530	7	4570	16	4283	8	3916	8	4235	15	5001	16	
3 HQPM-1(Filler)	9188	3	6964	10	7284	3	6561	5	9644	3	7613	3	4708	14	2020	14	6702	11	7732	2	5928	1	6267	3	6610	3	
4 HQPM-1(Filler)	9134	4	5207	17	6406	6	6537	6	7921	13	6727	9	5949	3	2422	9	7188	7	3330	14	4637	4	5276	6	5843	9	
5 VEHQ-3020	8237	6	6794	12	6817	4	6751	2	9976	2	7562	4	5430	7	2892	3	7934	4	8285	1	5057	3	6677	1	6869	1	
6 MHQPM-09-7	8956	5	6746	13	5963	9	5800	10	8809	6	6764	8	5960	2	1753	16	6921	9	3497	12	4121	7	5125	8	5724	11	
7 MHQPM-09-6	6774	13	7126	9	5075	11	5212	16	8607	7	5867	15	4740	13	1482	17	4899	15	5537	5	2788	16	4491	14	5262	14	
8 MHQPM-09-8	7861	8	6732	14	5900	10	5627	13	8310	11	6455	12	5309	10	2645	4	6359	13	4988	6	3020	15	4919	11	5873	8	
9 HQPM-1(Filler)	7099	12	6805	11	6750	5	5770	11	8071	12	6456	11	5922	4	2190	11	6909	10	2366	15	3825	11	4756	13	5517	13	
10 HQPM-1(Filler)	4951	15	10619	1	4570	15	5395	14	6879	16	6052	14	4782	12	2554	6	6312	14	1876	16	3257	14	4057	16	5005	15	
11 EHQ-16	7566	11	7772	5	6130	8	6094	7	8400	10	6942	7	5737	6	2048	13	7269	6	6455	3	5626	2	6272	2	6053	6	
12 HQPM-7(Filler)	7656	10	7654	6	4630	14	6077	8	7468	14	6269	13	4666	15	3024	2	6633	12	4286	7	4523	5	5027	9	5595	12	
13 HQPM-5(Filler)	5600	14	7544	8	5066	12	5733	12	10418	1	6567	10	5828	5	2007	15	7315	5	4243	9	2517	17	4976	10	5767	10	
CHECKS																											
14 HQPM-1	7861	7	7602	7	8731	1	6640	4	8525	8	7516	5	6368	1	2477	8	7087	8	1476	17	4490	6	4855	12	6373	5	
15 HQPM-5	11496	1	8480	3	4820	13	5996	9	7036	15	7232	6	5178	11	2092	12	8935	2	4093	10	3677	12	5470	5	5888	7	
16 HQPM-7	7853	9	8880	2	6394	7	7222	1	9203	4	7741	2	5340	9	2582	5	7979	3	3936	11	3845	10	5275	7	6566	4	
17 HQPM-4	9392	2	8080	4	8083	2	6719	3	8838	5	7841	1	5369	8	3279	1	8935	1	6248	4	3874	9	6107	4	6772	2	
Location Mean	7578		7374		5841		5993		8388		6671		5229		2371		6806		4478		4032		5136		5826		
Mean Stand	63		69		52		76		66		62		74		30		72		46		51		61		60		
C.D. (5%)	658		1462		1348		515		895		1043		892		1178		748		1090		576		826		883		
C.V. (%)	5.21		11.91		13.86		5.16		6.41		-		10.24		29.84		6.6		14.62		8.59		-		-		
F (Prob)	0		0		0		0		0				0		0.218		0		0		0						
Plot Size	9.6		12		12		12		11.2		-		12		4.8		12		9.6		9.6		-		-		
AGRONOMY DATA																											
Sowing Date	14-07		1-07		5-07		21-07		8-07		-		6-07		14-07		27-06		13-07		4-07		-		-		
Harvest Date	3-11		19-11		25-10		21-12		18-12		-		-		18-10		9-11		13-10		15-10		-		-		
Irrigation Nos	10		1		-		-		8		-		-		-		-		-		1		-		-		
Fertilizer Applied N	150		200		180		120		150		-		120		150		120		120		90		-		-		
Fertilizer Applied P	75		60		60		60		75		-		60		80		60		50		60		-		-		
Fertilizer Applied K	75		50		50		40		40		-		40		40		40		40		-		-		-		

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TABLE No. 26 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1																										OV'L MEAN			
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5									
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
1	UQMH-4	-	-	-	-	-	39.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136.6	-	-	-	
2	UQMH-5	-	4.2	-	-	-	29.9	-	-	-	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	190.1	-	-	-	
3	HQPM-1(Filler)	10	51	17.4	11.8	-	-	-	-	-	-	17	10.9	-	-	5.3	16.9	-	-	-	-	13.1	1.3	-	-	-	423.8	32	29.1	3.7	
4	HQPM-1(Filler)	-	-	4.8	0.7	-	-	-	-	-	-	-	5.4	-	3.4	-	-	16.2	-	-	-	-	-	-	-	1.4	125.6	3.3	8.7	-	
5	VEHQ-3020	6.8	14	21.6	10.3	9.3	34.5	6.6	-	9.5	-	-	-	11.7	6.8	-	18.5	4.8	-	-	1.7	17	0.6	-	16.8	12	461.3	12.6	37.5	7.8	
6	MHQPM-09-7	-	55.2	-	-	-	-	0.4	-	-	-	-	41.7	-	-	-	-	13.9	-	-	-	3.3	-	-	-	-	136.9	-	5.6	-	
7	MHQPM-09-6	-	-	-	-	-	-	-	-	-	-	-	54.3	8.5	-	-	-	-	-	-	-	1	-	-	-	-	275	-	-	-	
8	MHQPM-09-8	-	-	-	-	-	1.4	-	-	-	24	-	38.3	11.4	-	4.6	-	-	-	-	-	-	-	-	6.8	-	237.9	-	1.3	-	
9	HQPM-1(Filler)	-	19.7	-	-	-	-	5.7	-	-	-	-	21.8	5.9	-	-	-	-	-	-	-	-	-	-	-	-	60.3	-	-	-	
10	HQPM-1(Filler)	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.7	-	-	-	-	-	-	3.1	-	27.1	-	-	-
11	EHQ-16	-	-	-	-	-	-	-	-	-	-	-	9.3	-	22.9	-	-	-	2.2	-	-	-	-	-	-	2.6	337.3	25.3	29.2	-	
12	HQPM-7(Filler)	-	-	24.5	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	22.1	-	190.4	0.7	3.5	-	
13	HQPM-5(Filler)	-	-	-	-	-	-	-	-	-	-	-	49.6	-	15.7	-	-	-	-	-	-	22.2	-	-	-	3.2	187.4	-	2.5	-	
CHECKS																															
14	HQPM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	HQPM-5	-	1.6	-	-	-	0.6	-	-	-	-	-	-	8	11.3	-	-	46.2	11.6	-	-	-	-	-	-	26.1	177.2	-	12.7	-	-
16	HQPM-7	1.4	2.2	17.3	5.1	-	-	-	0.4	-	-	-	21.3	22.3	1.1	5.3	20.2	-	16.8	-	8.8	8	3	-	4.2	12.6	166.6	-	8.6	3	
17	HQPM-4	2	47.9	15.9	5.3	-	12.7	-	-	-	-	-	22.9	12.2	39.7	13.3	3.5	19.5	6.3	-	1.2	3.7	4.3	-	32.4	26.1	323.2	-	25.8	6.3	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 47.2 %: DHOL 22.6 %: BANS 29.8 %

B263

TABLE No. 26 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-5																													
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L							
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
1	UQMH-4	-	-	-	-	-	38.8	-	3.7	13.3	-	13.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	UQMH-5	-	2.5	17.6	-	15.5	29.1	-	38.2	26.9	25.2	47	-	-	-	-	-	-	-	-	-	19.5	-	-	20.9	-	4.6	6.5	-	-	
3	HQPM-1(Filler)	37.2	48.5	42.4	38.4	3.6	-	-	57.9	31.7	4.7	72.9	33.3	2.8	-	3.2	8.5	-	-	51.1	9.4	37.1	5.3	-	-	-	88.9	61.2	14.6	12.2	
4	HQPM-1(Filler)	23.9	-	27.1	24.7	-	-	-	60.8	22.2	-	48.8	20	-	-	-	-	-	-	32.9	9	12.6	-	14.9	15.8	-	-	26.1	-	-	
5	VEHQ-3020	33.2	12.2	47.4	36.6	28.9	33.8	-	56	58.2	-	66.7	3.9	3.5	-	1.9	22.1	-	-	41.4	12.6	41.8	4.6	4.9	38.3	-	102.4	37.5	22	16.7	
6	MHQPM-09-7	21.4	52.7	-	9.7	-	-	-	21.7	22.9	-	49.3	61.3	-	-	-	-	-	-	23.7	-	25.2	-	15.1	-	-	-	12.1	-	-	
7	MHQPM-09-6	10.7	-	-	5.6	2.8	-	-	37.4	20.6	-	7.1	75.6	0.5	-	-	-	-	-	5.3	-	22.3	-	-	-	-	35.3	-	-	-	
8	MHQPM-09-8	8	-	18.1	10.4	2.5	0.8	-	25	24.5	46.1	71.2	57.5	3.2	-	13.7	-	-	-	22.4	-	18.1	-	2.5	26.4	-	21.9	-	-	-	
9	HQPM-1(Filler)	7.3	17.8	-	-	-	-	-	24.4	20.1	-	49.4	38.7	-	-	-	-	-	-	40	-	14.7	-	14.4	4.7	-	-	4	-	-	
10	HQPM-1(Filler)	-	3	-	-	-	-	-	40	24.6	-	40.4	-	-	-	-	-	-	25.2	-	-	-	-	-	22.1	-	-	-	-	-	
11	EHQ-16	-	-	9.8	0.2	1.8	-	-	37	6.7	-	69	24.5	-	10.5	3.8	2.2	-	-	27.2	1.6	19.4	-	10.8	-	-	57.7	53	14.6	2.8	
12	HQPM-7(Filler)	-	-	51	3.9	25.9	-	-	21.7	27.1	-	58.2	-	-	-	-	-	-	-	-	1.3	6.1	-	-	44.5	-	4.7	23	-	-	
13	HQPM-5(Filler)	4.2	-	-	2.8	-	-	-	45.7	25.3	-	83.1	70.4	-	4	3.6	-	-	-	5.1	-	48.1	-	12.6	-	-	3.7	-	-	-	
CHECKS																															
14	HQPM-1	24.7	-	21.3	23.9	17.9	-	-	71.6	44.5	17.8	91.3	13.9	-	-	8.8	3	-	-	81.2	10.7	21.2	3.9	23	18.4	-	-	22.1	-	8.2	
15	HQPM-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	HQPM-7	26.4	0.5	42.2	30.2	5.9	-	-	72.4	37.2	17.3	86.3	38.1	13.3	-	14.5	23.8	-	4.7	32.7	20.4	30.8	7	3.1	23.4	-	-	4.6	-	11.5	
17	HQPM-4	27.2	45.5	40.5	30.4	2.4	12.1	-	15.4	26.8	17.7	77.4	40	3.9	25.5	23.2	6.6	-	-	67.7	12.1	25.6	8.4	3.7	56.7	0	52.7	5.4	11.6	15	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 47.2 %: DHOL 22.6 %: BANS 29.8 %

B264

TABLE No. 26 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-7																													
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5	OV'L								
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
1	UQMH-4	-	-	-	-	-	42.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	UQMH-5	-	1.9	-	-	9.1	33	-	-	-	6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	1.8	-	-	
3	HQPM-1(Filler)	8.5	47.8	0.1	6.3	-	-	6.8	-	-	-	-	-	-	-	-	17	-	13.9	-	4.8	-	-	-	-	-	96.4	54.2	18.8	0.7	
4	HQPM-1(Filler)	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	16.3	-	0.2	-	-	-	11.4	-	-	-	20.6	0	-	-	
5	VEHQ-3020	5.3	11.6	3.7	4.9	21.7	37.7	15.1	-	15.3	-	-	-	-	5.6	-	-	4.9	-	6.6	-	8.4	-	1.7	12	-	110.5	31.5	26.6	4.6	
6	MHQPM-09-7	-	51.8	-	-	-	-	8.4	-	-	-	-	-	-	-	-	14	-	-	-	-	-	11.6	-	-	-	7.2	-	-	-	
7	MHQPM-09-6	-	-	-	-	-	-	-	-	-	-	-	27.2	-	-	-	-	-	-	-	-	-	-	-	-	-	40.7	-	-	-	
8	MHQPM-09-8	-	-	-	-	-	3.8	-	-	24.5	-	14	-	-	-	-	0.1	-	-	-	-	-	-	-	2.4	-	26.7	-	-	-	
9	HQPM-1(Filler)	-	17.1	-	-	-	-	14.2	-	-	-	-	0.4	-	-	-	-	-	-	5.6	-	-	10.9	-	-	-	-	-	-	-	
10	HQPM-1(Filler)	-	2.4	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	19.6	-	-	-	-	-	-	-	-	-	-	-	-	
11	EHQ-16	-	-	-	-	-	-	-	-	-	-	-	-	21.5	-	-	-	-	-	-	-	-	7.4	-	-	-	64	46.3	18.9	-	
12	HQPM-7(Filler)	-	-	6.2	-	18.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.1	-	8.9	17.6	-	-	-	
13	HQPM-5(Filler)	-	-	-	-	-	1.2	4.9	-	-	-	23.4	-	14.4	-	-	-	-	-	-	-	13.2	-	9.1	-	-	7.8	-	-	-	
CHECKS																															
14	HQPM-1	-	-	-	-	11.4	2.4	8.1	-	5.3	0.4	2.7	-	-	-	-	0.1	-	36.6	-	-	-	19.3	-	-	-	16.8	-	-	-	
15	HQPM-5	-	-	-	-	-	3	-	-	-	-	-	-	10	-	-	46.4	-	-	-	-	-	-	-	12	4	-	3.7	-	-	
16	HQPM-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	HQPM-4	0.6	44.7	-	0.1	-	15.4	-	-	-	0.3	-	1.3	-	38.1	7.6	-	19.6	-	26.4	-	-	1.3	0.6	27	12	58.7	0.8	15.8	3.1	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 47.2 %: DHOL 22.6 %: BANS 29.8 %

B265

TABLE No. (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-4																												
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L						
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN
1	UQMH-4	-	-	-	-	-	23.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	UQMH-5	-	-	-	-	12.8	15.2	-	19.8	0.1	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	-	
3	HQPM-1(Filler)	7.8	2.1	1.3	6.1	1.1	-	14.4	36.9	3.9	-	-	-	-	-	-	1.7	-	-	-	-	9.1	-	-	-	-	23.8	53	2.6	
4	HQPM-1(Filler)	-	-	-	-	-	-	-	39.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8	-	-	-	19.7	-	
5	VEHQ-3020	4.7	-	4.9	4.8	25.8	19.4	23.4	35.2	24.8	-	-	-	-	-	-	14.5	-	-	-	0.5	12.9	-	1.1	-	-	32.6	30.5	9.3	1.4
6	MHQPM-09-7	-	5	-	-	-	-	16.2	5.5	-	-	-	15.3	-	-	-	-	-	-	-	-	-	-	11	-	-	-	6.4	-	
7	MHQPM-09-6	-	-	-	-	0.3	-	-	19.1	-	-	-	25.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	MHQPM-09-8	-	-	-	-	0.1	-	-	8.4	-	24.1	-	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	HQPM-1(Filler)	-	-	-	-	-	-	22.4	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.3	-	-	-	-	-	
10	HQPM-1(Filler)	-	-	-	-	-	-	5.2	21.3	-	-	-	-	-	-	-	-	-	31.4	-	-	-	-	-	-	-	-	-	-	
11	EHQ-16	-	-	-	-	-	-	-	18.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	3.3	45.2	2.7	
12	HQPM-7(Filler)	-	-	7.5	-	22.9	-	-	5.5	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.7	-	
13	HQPM-5(Filler)	-	-	-	-	-	-	12.4	26.2	-	-	3.2	21.7	-	-	-	-	-	-	-	-	17.9	-	8.5	-	-	-	-	-	
CHECKS																														
14	HQPM-1	-	-	-	-	15.1	-	15.8	48.7	14	0.1	7.8	-	-	-	-	-	-	-	8	-	-	-	18.6	-	-	-	15.9	-	
15	HQPM-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.4	5	-	-	-	-	-	-	-	-	-	-	
16	HQPM-7	-	-	1.2	-	3.3	-	7.1	49.4	8.2	-	5	-	9	-	-	16.1	-	9.9	-	7.5	4.1	-	-	-	-	-	-	-	
17	HQPM-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 47.2 %: DHOL 22.6 %: BANS 29.8 %









B269

Table No. 26 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																												
		ZN 1						ZN 2						ZN 3						ZN 4						ZN 5		OV'L		
		BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
1	UQMH-4	65.0	102.0	63.5	76.8	55.6	55.3	65.7	55.3	58.0	49.7	67.4	50.6	59.9	76.7	60.8	42.8	64.6	60.0	55.0	66.4	58.0	57.8	50.6	61.1	63.1	46.9	54.9	55.3	60.4
2	UQMH-5	72.8	124.0	63.5	86.8	61.4	54.2	69.9	57.2	60.7	68.8	66.7	51.4	54.7	72.9	62.9	39.7	65.6	61.1	54.7	66.7	58.0	57.6	57.5	56.9	63.6	69.1	56.9	60.8	63.8
3	HQPM-1(Filler)	68.9	100.0	65.6	78.2	65.0	53.3	66.0	55.8	60.0	63.2	67.7	43.6	70.3	83.3	65.6	45.6	66.0	61.9	52.5	64.4	61.6	58.7	63.3	66.7	63.6	72.6	60.4	65.3	64.4
4	HQPM-1(Filler)	80.0	120.0	65.6	88.5	59.2	54.2	66.3	54.7	58.6	70.8	66.3	43.1	59.4	80.9	64.1	42.8	66.0	55.6	49.4	61.7	58.9	55.7	68.3	68.1	60.0	46.2	56.3	59.8	63.2
5	VEHQ-3020	68.3	102.0	65.6	78.7	56.9	58.3	60.6	55.8	57.9	49.3	69.4	45.3	65.6	83.0	62.5	40.6	66.0	60.0	36.1	66.1	60.1	54.8	63.9	63.9	61.1	59.7	56.6	61.0	61.5
6	MHQPM-09-7	73.9	102.0	63.5	79.8	61.9	54.7	65.4	47.5	57.4	61.5	67.0	44.7	67.2	81.6	64.4	44.2	66.3	58.3	38.6	66.4	59.5	55.6	67.5	58.3	64.4	52.4	50.3	58.6	61.6
7	MHQPM-09-6	62.8	106.0	64.6	77.8	61.1	56.9	72.1	50.3	60.1	62.8	66.7	46.9	68.8	77.4	64.5	48.6	66.3	52.2	46.7	65.6	59.8	56.5	53.6	56.3	64.4	55.9	57.3	57.5	61.9
8	MHQPM-09-8	65.6	96.0	64.6	75.4	54.4	53.1	63.8	48.6	55.0	68.8	67.7	51.1	54.7	81.3	64.7	45.8	66.0	56.7	41.7	63.9	55.4	54.9	61.1	61.1	65.8	64.9	46.2	59.8	60.8
9	HQPM-1(Filler)	67.2	112.0	63.5	80.9	58.9	52.2	47.8	50.3	52.3	51.4	67.4	51.1	63.0	81.3	62.8	45.6	66.0	58.1	54.2	62.5	58.9	57.5	64.7	66.0	63.3	31.3	57.6	56.6	60.6
10	HQPM-1(Filler)	62.8	94.0	63.5	73.4	48.3	55.6	47.1	48.6	49.9	41.0	64.6	52.5	59.4	81.6	59.8	37.8	65.6	55.8	37.8	63.3	56.8	52.9	56.9	60.4	59.4	36.8	54.2	53.6	56.7
11	EHQ-16	57.8	88.0	62.5	69.4	41.7	54.2	-	40.8	45.6	45.1	67.7	43.3	65.1	81.9	60.6	32.5	65.3	55.8	30.3	55.8	59.8	49.9	63.3	59.0	51.9	45.8	43.4	52.7	55.1
12	HQPM-7(Filler)	62.8	100.0	65.6	76.1	58.9	52.8	63.1	39.4	53.6	50.3	67.0	43.6	54.2	75.3	58.1	30.0	66.7	53.6	40.0	60.6	58.3	51.5	59.4	56.9	54.4	31.9	48.6	50.3	56.2
13	HQPM-5(Filler)	61.7	102.0	63.5	75.7	60.6	55.0	61.5	48.9	56.5	59.0	66.0	49.2	55.7	82.3	62.4	33.3	64.6	57.5	49.4	60.3	61.0	54.4	62.5	59.7	61.4	44.4	53.5	56.3	59.7
CHECKS																														
14	HQPM-1	72.2	110.0	68.8	83.7	61.1	54.2	61.5	48.3	56.3	62.8	69.1	52.8	65.1	80.6	66.1	34.4	64.6	53.9	48.1	65.0	59.8	54.3	68.9	68.8	63.9	32.3	58.0	58.4	61.9
15	HQPM-5	58.9	78.0	64.6	67.2	51.4	53.9	-	31.4	45.6	67.0	67.7	48.3	55.2	83.3	64.3	36.1	66.3	55.6	23.3	60.3	56.5	49.7	62.8	59.7	47.5	39.9	44.1	50.8	55.1
16	HQPM-7	65.6	90.0	72.9	76.2	62.5	53.9	68.6	47.8	58.2	64.6	64.9	50.3	67.7	83.3	66.2	42.5	66.0	58.6	38.3	63.1	58.6	54.5	64.7	64.6	63.1	37.8	53.1	56.7	61.0
17	HQPM-4	58.3	106.0	65.6	76.7	57.8	53.3	63.8	37.8	53.2	50.3	65.3	43.3	62.0	83.3	60.9	35.3	65.3	57.2	46.1	61.9	58.0	54.0	61.7	59.0	55.3	43.8	55.6	55.1	58.5
	Loc. Mean	66.1	101.9	65.1	77.7	57.5	54.4	62.9	48.2	55.2	58.0	67.0	47.7	61.6	80.6	63.0	39.9	65.7	57.2	43.7	63.2	58.8	54.7	61.8	61.6	60.4	47.8	53.3	57.0	60.1
	C.D. (5%)	7.17	21.33	4.31	10.67	14.12	2.30	7.24	5.37	7.18	15.44	2.89	7.65	9.09	4.04	6.72	10.48	1.03	5.69	3.66	7.13	5.08	4.84	6.46	10.85	3.97	7.21	3.09	8.57	3.14
	C.V. (%)	6.52	9.88	3.12	8.25	14.77	2.54	6.46	6.71	9.14	16.00	2.60	9.64	6.95	3.01	8.44	15.82	0.94	5.99	5.05	6.79	5.19	7.70	6.28	10.60	3.96	9.08	3.49	11.91	9.00
	F (Prob)	0.00	0.04	0.02	0.03	0.20	0.00	0.00	0.00	0.00	0.00	0.10	0.06	0.01	0.00	0.52	0.02	0.00	0.07	0.00	0.22	0.65	0.01	0.00	0.37	0.00	0.00	0.08	0.00	

Table No. 26 (Continued)

MOISTURE % AT HARVEST																												
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
		BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	CHHI	GODH	UDAI	Mean	Mean
1	UQMH-4	18.0	22.5	27.0	22.5	19.5	21.2	20.2	27.1	22.0	19.3	16.4	19.3	23.5	26.9	21.1	20.3	18.7	16.5	5.7	9.9	15.8	14.5	11.1	15.6	23.9	16.9	18.9
2	UQMH-5	19.4	23.5	27.2	23.4	20.9	25.8	19.3	24.6	22.6	20.1	16.1	20.8	22.5	30.1	21.9	18.4	21.1	16.1	8.7	10.3	13.8	14.7	11.9	14.5	24.3	16.9	19.5
3	HQPM-1(Filler)	20.1	21.5	28.1	23.2	30.3	23.5	24.9	26.0	26.2	22.1	20.0	21.5	23.7	37.4	24.9	27.1	22.3	18.2	10.9	11.5	16.4	17.7	14.3	18.5	24.3	19.0	22.0
4	HQPM-1(Filler)	18.4	25.5	26.9	23.6	28.5	29.2	21.7	24.3	25.9	20.3	16.7	22.4	23.5	31.1	22.8	24.5	21.1	16.2	5.9	11.1	15.0	15.6	14.7	16.1	22.7	17.8	20.7
5	VEHQ-3020	19.9	22.5	27.3	23.2	33.4	30.1	24.7	24.4	28.1	22.4	17.5	22.4	22.3	34.1	23.7	28.2	23.7	17.0	11.7	10.7	17.3	18.1	15.1	15.9	24.0	18.3	22.1
6	MHQPM-09-7	20.8	25.0	28.4	24.7	28.4	32.6	25.5	25.6	28.0	21.1	17.7	19.2	22.9	33.8	22.9	23.2	24.4	16.3	10.1	9.5	15.6	16.5	15.9	14.9	23.2	18.0	21.6
7	MHQPM-09-6	20.1	25.0	27.3	24.1	33.3	31.8	23.9	24.2	28.3	21.2	16.8	19.2	23.1	32.4	22.5	23.5	22.6	17.4	12.0	10.8	16.2	17.1	12.5	16.9	24.4	17.9	21.6
8	MHQPM-09-8	19.6	22.0	25.9	22.5	25.0	24.5	24.8	24.3	24.7	22.1	19.2	19.5	23.3	33.6	23.5	24.6	22.2	18.2	8.2	10.6	16.3	16.7	14.5	17.2	23.4	18.4	20.9
9	HQPM-1(Filler)	31.5	22.5	28.0	27.3	22.5	31.9	26.7	24.9	26.5	20.0	18.6	22.7	23.2	34.3	23.8	24.1	22.5	16.4	8.1	10.3	16.6	16.3	13.7	16.2	23.6	17.8	21.8
10	HQPM-1(Filler)	20.4	23.5	27.4	23.8	26.9	24.1	23.2	20.5	23.6	20.1	16.3	20.8	23.4	31.4	22.4	17.4	23.0	17.7	9.5	9.5	16.6	15.6	12.1	19.5	24.1	18.6	20.3
11	EHQ-16	19.4	23.5	27.6	23.5	32.1	27.1	-	24.9	28.0	20.9	17.6	22.4	23.0	30.3	22.8	24.6	21.1	16.3	12.1	10.5	15.8	16.7	12.4	15.0	21.3	16.2	20.9
12	HQPM-7(Filler)	19.1	25.5	27.2	23.9	21.9	28.9	20.4	20.4	22.9	19.0	16.5	21.2	23.0	29.2	21.8	21.1	20.7	17.6	8.2	9.9	14.4	15.3	11.6	16.6	22.4	16.8	19.7
13	HQPM-5(Filler)	19.6	31.5	27.6	26.2	25.0	31.1	26.1	28.8	27.7	22.5	19.2	21.9	23.8	29.8	23.4	27.0	24.9	17.4	9.8	10.9	17.0	17.8	17.1	18.0	24.5	19.8	22.5
CHECKS																												
14	HQPM-1	20.4	23.5	27.3	23.7	37.7	23.5	25.3	28.0	28.6	22.1	16.7	22.8	24.0	33.1	23.7	27.0	24.6	17.8	11.3	11.1	16.5	18.0	14.1	18.9	23.6	18.8	22.3
15	HQPM-5	19.2	24.5	27.8	23.8	35.6	24.9	-	26.6	29.0	20.8	19.4	22.7	23.6	33.1	23.9	21.5	24.7	16.1	12.9	12.0	16.4	17.2	15.4	19.6	24.4	19.8	22.0
16	HQPM-7	19.5	26.5	26.9	24.3	30.9	26.0	22.9	23.9	25.9	21.6	17.1	20.9	23.3	31.2	22.8	25.9	23.4	16.9	11.1	11.4	15.6	17.3	14.3	18.5	23.5	18.8	21.5
17	HQPM-4	20.7	23.5	26.5	23.6	34.4	27.2	25.8	26.8	28.5	21.5	16.7	21.1	24.0	30.2	22.7	27.3	22.9	16.3	12.5	12.3	16.6	18.0	16.7	16.3	24.2	19.1	22.1
	Loc. Mean	20.3	24.2	27.3	24.0	28.6	27.2	23.7	25.0	26.3	21.0	17.6	21.2	23.3	31.9	23.0	23.8	22.6	16.9	9.9	10.7	16.0	16.7	14.0	16.9	23.6	18.2	21.2
	C.D. (5%)	4.14	3.79	2.31	3.74	3.44	1.16	1.42	4.07	4.71	1.28	0.00	3.03	2.39	4.03	1.60	2.86	1.02	1.23	0.84	0.67	0.64	1.75	1.01	2.27	0.38	2.16	1.22
	C.V. (%)	12.25	7.38	3.99	9.39	7.24	2.57	3.36	9.79	12.60	3.67	0.00	8.58	4.85	7.61	5.51	7.23	2.71	4.36	5.08	3.73	2.43	9.15	4.34	8.04	0.98	7.15	9.46
	F (Prob)	0.00	0.01	0.83	0.60	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.14	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00

Table No. 26 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																									OV'L			
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5								
		BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
1	UQMH-4	84.1	78.9	81.3	81.4	82.6	69.5	87.4	84.0	80.8	75.6	78.2	81.5	79.8	75.5	78.1	84.1	80.0	81.1	78.2	86.7	80.8	81.8	81.4	69.4	84.3	84.0	82.4	80.3	80.5
2	UQMH-5	82.9	77.6	80.1	80.2	87.0	69.1	83.8	86.7	81.6	76.3	78.7	81.5	81.3	77.0	79.0	84.3	79.8	80.0	80.0	82.9	81.9	81.5	80.3	67.0	85.8	81.6	82.7	79.5	80.3
3	HQPM-1(Filler)	83.2	79.1	77.3	79.9	84.6	68.1	85.7	85.8	81.1	78.0	78.5	81.0	84.0	75.5	79.4	88.4	78.8	79.5	78.1	82.4	81.3	81.4	80.7	68.7	75.1	80.0	86.2	78.1	80.0
4	HQPM-1(Filler)	87.7	77.4	76.6	80.6	81.4	67.6	82.1	81.6	78.1	77.3	76.3	78.5	79.0	78.3	77.9	81.3	77.1	79.9	77.1	81.1	83.1	79.9	81.2	62.4	86.2	77.0	85.1	78.3	78.9
5	VEHQ-3020	84.3	77.0	76.3	79.2	87.4	70.6	85.5	81.8	81.3	78.0	78.1	82.0	82.9	79.0	80.0	83.1	77.1	81.1	79.3	83.0	84.5	81.3	81.2	68.9	80.0	79.2	75.8	77.0	79.8
6	MHQPM-09-7	80.2	80.8	73.1	78.0	81.8	67.7	80.1	80.1	77.4	77.4	77.3	83.0	75.6	75.0	77.7	78.3	78.5	79.5	77.9	76.8	83.0	79.0	80.9	67.5	76.7	76.4	79.3	76.1	77.7
7	MHQPM-09-6	78.6	78.9	74.8	77.4	81.6	67.0	82.4	81.4	78.1	75.3	79.1	82.0	82.4	78.3	79.4	80.2	78.7	81.3	77.6	81.3	82.5	80.3	80.9	65.5	77.3	71.4	73.2	73.7	77.9
8	MHQPM-09-8	82.8	77.0	77.0	78.9	83.3	67.5	84.6	84.5	80.0	81.9	78.4	82.0	82.0	78.3	80.5	82.5	79.0	79.8	78.5	81.0	83.8	80.8	80.9	64.5	80.1	80.0	82.6	77.6	79.6
9	HQPM-1(Filler)	81.2	76.9	77.1	78.4	77.5	67.3	82.6	81.4	77.2	76.4	78.1	81.3	81.8	72.0	77.9	79.7	78.8	80.3	77.6	78.7	82.0	79.5	81.3	69.4	81.0	78.4	75.8	77.2	78.1
10	HQPM-1(Filler)	88.4	77.1	76.4	80.6	83.9	66.9	86.4	85.4	80.6	79.1	78.4	82.5	80.4	76.3	79.3	84.6	75.9	79.3	80.7	84.0	81.6	81.0	79.6	71.3	85.6	81.4	70.0	77.6	79.8
11	EHQ-16	86.9	77.4	77.3	80.5	83.4	67.9	-	80.6	77.3	79.9	77.8	81.5	84.9	79.0	80.6	82.9	79.6	78.2	84.3	82.9	83.6	81.9	81.1	69.8	84.0	84.1	84.2	80.6	80.5
12	HQPM-7(Filler)	91.7	79.2	85.2	85.3	88.9	66.1	87.7	89.9	83.2	76.8	79.6	81.5	85.1	79.0	80.4	83.2	83.8	79.8	79.8	88.1	80.5	82.5	80.0	70.6	87.8	82.6	83.5	80.9	82.2
13	HQPM-5(Filler)	85.4	76.4	77.8	79.9	84.8	66.1	85.1	87.8	80.9	80.1	79.4	82.0	81.1	81.0	80.7	82.8	77.9	79.2	79.1	85.1	82.5	81.1	81.5	69.2	82.5	78.0	66.1	75.5	79.6
CHECKS																														
14	HQPM-1	85.2	78.7	77.3	80.4	85.0	67.1	84.7	85.2	80.5	80.1	77.4	81.5	83.1	75.5	79.5	82.6	77.7	78.6	80.6	83.9	82.2	80.9	80.4	72.3	85.0	82.2	75.8	79.1	80.1
15	HQPM-5	86.4	80.5	76.9	81.2	84.6	67.4	-	82.8	78.2	76.9	76.6	81.5	83.0	76.3	78.8	92.0	77.8	79.6	77.9	81.9	83.0	82.0	80.3	67.8	83.7	80.0	82.6	78.9	80.0
16	HQPM-7	82.1	81.0	76.7	79.9	81.7	67.4	81.6	78.9	77.4	78.6	76.3	81.0	82.1	73.8	78.4	81.1	77.3	78.6	76.9	83.2	83.3	80.0	79.4	68.0	80.0	78.5	68.9	74.9	78.1
17	HQPM-4	82.9	76.5	74.3	77.9	82.1	67.0	78.5	77.6	76.3	75.0	78.5	81.0	81.4	73.3	77.8	79.2	76.3	79.3	84.0	84.3	84.0	81.2	80.8	66.9	79.6	76.5	71.2	75.0	77.8
	Loc. Mean	84.3	78.2	77.4	80.0	83.6	67.7	83.9	83.3	79.4	77.8	78.0	81.5	81.8	76.6	79.1	82.9	78.4	79.7	79.3	82.8	82.5	80.9	80.7	68.2	82.0	79.5	77.9	77.7	79.5
	C.D. (5%)	0.00	3.33	2.74	3.82	2.18	1.22	1.37	3.70	3.01	1.95	0.00	2.62	6.10	1.59	2.09	3.61	1.15	1.78	0.57	0.99	1.08	2.47	2.12	1.86	1.96	4.81	0.55	4.37	1.40
	C.V. (%)	0.00	2.01	1.67	2.87	1.57	1.09	0.92	2.67	2.67	1.50	0.00	1.94	3.52	1.25	2.09	2.62	0.88	1.34	0.44	0.72	0.79	2.65	1.58	1.64	1.44	3.64	0.43	4.45	3.04
	F (Prob)	0.00	0.11	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.33	0.00	0.02	0.00	0.00	0.05	0.00	0.00	0.00	0.32	0.78	0.00	0.00	0.00	0.00	0.04	0.00



Table No. 26 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																								OV'L			
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5											
		BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KOLH	MAND	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
1	UQMH-4	106.7	83.5	49.0	79.7	73.7	93.3	95.6	63.3	81.5	68.7	69.5	67.7	82.6	61.3	69.9	55.0	72.4	60.0	65.0	83.0	67.1	62.0	80.3	86.7	50.0	75.0	76.0	74.0
2	UQMH-5	106.7	84.0	54.5	81.7	75.7	131.7	105.6	62.3	93.8	68.0	60.7	59.3	74.1	63.8	65.2	47.0	64.6	72.0	65.0	85.3	66.8	61.9	72.0	80.0	57.3	75.0	72.2	74.7
3	HQPM-1(Filler)	120.0	103.5	64.0	95.8	73.0	85.0	101.7	69.3	82.3	67.3	65.1	63.3	99.7	71.3	73.3	66.5	86.3	86.3	90.0	91.0	84.0	71.1	83.9	86.7	58.3	78.3	80.0	82.1
4	HQPM-1(Filler)	116.7	110.0	57.5	94.7	76.3	90.0	99.4	65.7	82.9	64.3	62.7	72.7	82.8	82.5	73.0	65.5	83.6	77.0	85.0	100.3	82.3	73.7	85.3	91.7	43.7	80.0	82.7	82.0
5	VEHQ-3020	121.7	106.5	58.5	95.6	86.7	100.0	98.3	67.3	88.1	75.0	55.4	59.0	82.2	85.0	71.3	69.0	82.8	86.0	73.3	95.3	81.3	75.3	85.4	90.0	51.7	85.0	83.9	82.7
6	MHQPM-09-7	121.7	113.0	48.0	94.2	93.7	105.0	109.4	73.7	95.4	66.0	63.1	68.7	96.6	73.8	73.6	73.0	90.0	83.7	96.7	105.3	89.7	80.1	80.7	91.7	52.3	88.3	85.2	86.8
7	MHQPM-09-6	116.7	116.0	53.0	95.2	87.0	95.0	104.4	68.0	88.6	73.3	67.4	67.3	89.5	76.3	74.8	68.0	80.3	81.3	91.7	88.0	81.9	78.0	79.1	95.0	60.3	85.0	84.3	83.8
8	MHQPM-09-8	136.7	120.0	70.0	108.9	85.7	93.3	112.2	72.3	90.9	83.3	72.5	79.3	105.0	103.8	88.8	79.5	88.5	81.0	108.3	107.3	92.9	87.3	87.1	93.3	70.0	93.3	90.3	93.3
9	HQPM-1(Filler)	133.3	112.0	47.5	97.6	92.0	95.0	106.3	70.7	91.0	56.7	74.8	61.0	83.8	68.8	69.0	69.5	77.4	74.0	96.7	114.3	86.4	73.9	75.6	91.7	58.3	85.0	81.5	83.8
10	HQPM-1(Filler)	133.3	114.5	60.0	102.6	100.0	100.0	115.6	75.3	97.7	71.0	67.9	71.7	92.8	92.5	79.2	65.5	55.1	79.3	85.0	104.3	77.9	81.3	83.7	96.7	50.0	95.0	89.1	87.6
11	EHQ-16	103.3	94.0	40.0	79.1	74.0	105.0	-	65.3	81.4	64.3	61.9	63.0	66.7	68.8	64.9	58.5	47.2	71.0	63.3	87.3	65.5	72.5	72.1	85.0	56.0	85.0	78.6	72.4
12	HQPM-7(Filler)	120.0	101.0	80.0	100.3	85.3	116.7	104.4	76.0	95.6	67.3	70.1	71.7	74.4	86.3	74.0	67.5	92.6	76.7	80.0	94.7	82.3	74.1	82.3	90.0	47.7	91.7	84.5	85.8
13	HQPM-5(Filler)	118.3	115.5	76.0	103.3	88.7	85.0	119.8	74.0	91.9	69.3	68.9	73.0	81.0	95.0	77.4	65.0	85.1	82.7	93.3	108.0	86.8	72.9	80.4	100.0	65.3	81.7	83.8	87.3
CHECKS																													
14	HQPM-1	126.7	107.0	60.0	97.9	79.3	85.0	91.7	70.7	81.7	66.0	66.3	62.0	78.9	86.3	71.9	68.0	72.9	81.3	80.0	103.3	81.1	74.4	90.5	91.7	45.0	90.0	86.6	82.5
15	HQPM-5	135.0	126.0	60.0	107.0	84.7	95.0	-	65.0	81.6	89.3	70.2	77.3	82.4	81.3	80.1	68.5	76.1	90.3	93.3	112.0	88.1	87.0	90.4	96.7	52.7	95.0	92.3	88.8
16	HQPM-7	128.3	118.0	70.0	105.4	80.7	110.0	107.8	70.0	92.1	75.3	71.2	79.3	86.6	80.0	78.5	78.5	97.1	91.3	88.3	114.0	93.8	78.4	82.9	93.3	63.3	81.7	84.1	89.7
17	HQPM-4	131.7	127.5	76.0	111.7	97.7	103.3	120.6	79.7	100.3	92.7	72.1	85.7	87.7	103.8	88.4	87.0	79.4	100.7	103.3	123.3	98.7	90.5	102.2	93.3	61.7	105.0	97.8	98.2
	Loc. Mean	122.2	108.9	60.2	97.1	84.4	99.3	106.2	69.9	89.2	71.6	67.1	69.5	85.1	81.2	74.9	67.7	78.3	80.9	85.8	101.0	82.7	76.1	83.2	91.4	55.5	86.5	84.3	84.5
	C.D. (5%)	17.00	18.49	8.52	12.69	10.33	2.57	12.93	12.97	11.90	23.16	4.93	14.48	18.30	8.79	8.98	8.97	2.41	9.92	21.41	11.67	9.12	10.52	10.71	7.92	27.38	7.39	5.95	4.56
	C.V. (%)	8.37	8.01	6.67	7.86	7.36	1.56	6.84	11.15	9.38	19.43	4.42	12.52	10.14	6.51	9.48	7.96	1.85	7.38	15.01	6.95	8.73	8.31	7.74	5.21	29.66	5.14	4.97	8.90
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.01	0.24	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.&gt; 20%) : GODHRA 29.7%

Table No. 27

Performance of baby corn experimental hybrids at Almora, Bajaura, Kangra, Delhi, Karnal, Ludhiana Pantnagar, Bahraich, Bhubaneshwar, Ranchi, Arbhavi, Coimbatore, Hyderabad, Karimnagar, Kolhapur, Mandya, Ambikapur, Godhra, Udaipur in trial no. TR BABY CORN during kharif (2012)

BABYCORN WEIGHT (kg/ha)																									
S.No.	PEDIGREE	ZN 1						ZN 2						ZN 3											
		ALMO	R	BAJA	R	KANG	R	Mean	R	DELH	R	LUDH	R	PANT	R	Mean	R	BAHR	R	DHOL	R	BHUB	R	Mean	R
1	Almora hybrid	1206	5	1569	3	3102	3	1959	3	171	7	1948	3	1711	2	1829	2	1766	1	1639	4	594	4	1180	1
2	Prakash (Filler)	1353	3	1810	2	4259	1	2474	1	379	2	2232	2	1933	1	2083	1	1761	2	1806	2	505	7	1133	3
3	HQPM 1(Filler)	1097	6	1344	6	1968	6	1470	7	339	4	1587	4	872	6	1230	6	1611	3	1347	7	642	3	1127	4
4	DHM 117(Filler)	1383	1	1516	5	2350	5	1750	4	554	1	1296	7	756	7	1026	7	1398	7	1894	1	797	1	1097	5
5	HM-4(Filler)	1372	2	1536	4	1620	7	1509	6	214	6	1515	5	1683	3	1599	4	1554	4	1597	5	753	2	1153	2
6	PMH 4(Filler)	1325	4	2135	1	3773	2	2411	2	348	3	2315	1	1278	4	1796	3	1510	6	1361	6	509	6	1010	7
CHECKS																									
7	HM4	997	7	1298	7	2442	4	1579	5	338	5	1379	6	1106	5	1242	5	1519	5	1722	3	535	5	1027	6
	Loc. Mean	1248		1601		2788		1879		335		1753		1334		1544		1588		1624		619		1104	
	C.D. (5%)	142.54		324.62		598.74		897.75		156.27		619.75		226.08		669.69		358.54		758.33		53.34		379.44	
	C.V. (%)	6.42		11.40		8.78		26.86		26.26		19.87		9.53		17.73		12.69		26.25		4.84		14.05	
	F (Prob)	0.00		0.00		0.00		0.13		0.00		0.02		0.00		0.06		0.31		0.64		0.00		0.89	
Locations Rejected due to High C.V.(i.e.> 23%) : Mean#ZN 1 26.9%: DELHI 26.3%: DHOLI 26.3%: ARBHAVI 37.1%: Mean#OV'L 23.5%																									
BABYCORN WEIGHT (kg/ha)																									
S.No.	PEDIGREE	ZN 4						ZN 5			OV'L														
		ARBH	R	KOLH	R	Mean	R	AMBI	R	GODH	R	UDAI	R	Mean	R	Mean	R								
1	Almora hybrid	125	2	833	4	833	4	2049	1	747	5	1979	3	1591	4	1591	3								
2	Prakash (Filler)	167	1	787	5	787	5	1771	4	767	4	2656	1	1731	1	1803	1								
3	HQPM 1(Filler)	167	1	1065	2	1065	2	1285	6	906	1	2083	2	1425	5	1315	6								
4	DHM 117(Filler)	167	1	1481	1	1481	1	1528	5	733	6	1927	5	1396	6	1379	5								
5	HM-4(Filler)	83	3	926	3	926	3	1944	2	903	2	1944	4	1597	3	1432	4								
6	PMH 4(Filler)	83	3	1065	2	1065	2	1840	3	684	7	2656	1	1727	2	1735	2								
CHECKS																									
7	HM4	83	3	694	6	694	6	1528	5	774	3	1788	6	1363	7	1278	7								
	Loc. Mean	125		979		979		1706		788		2148		1547		1505									
	C.D. (5%)	113.45		350.12		350.12		233.47		312.59		142.49		465.82		300.97									
	C.V. (%)	37.09		20.11		20.11		7.69		22.31		3.73		16.92		23.45									
	F (Prob)	0.29		0.01		0.01		0.00		0.65		0.00		0.45		0.00									





Table No. 27 (Continued)

GREEN EAR YIELD (kg/ha)																
S.No.	PEDIGREE	GREEN EAR YIELD (kg/ha)														
		ALMO R	BAJA R	KANG R	ZN 1 Mean R	DELH R	LUDH R	PANT R	ZN 2 Mean R	BAHR R	DHOL R	BHUB R	RANC R	ZN 3 Mean R		
1	Almora hybrid	5314 3	8139 3	3993 3	5815 4	829 7	5427 5	7419 1	4558 2	3420 7	3167 4	3773 2	9679 1	5010 4		
2	Prakash (Filler)	5153 5	6912 5	6794 1	6286 3	1438 5	6065 3	5611 3	4371 4	6734 1	3583 1	3285 4	8269 5	5468 1		
3	HQPM 1(Filler)	5089 6	6741 6	2245 7	4692 6	1813 4	6104 2	3819 7	3912 5	4219 5	2478 7	3252 5	9551 2	4875 6		
4	DHM 117(Filler)	7300 1	8564 2	3646 4	6503 2	2163 1	3942 7	4069 6	3391 7	3464 6	3194 3	3927 1	9423 3	5002 5		
5	HM-4(Filler)	6653 2	7771 4	2269 6	5564 5	1063 6	5774 4	6617 2	4484 3	5165 4	2875 5	3762 3	9423 3	5306 2		
6	PMH 4(Filler)	5283 4	8911 1	5949 2	6714 1	1847 3	7374 1	5167 4	4796 1	5793 2	2750 6	2691 7	7372 6	4652 7		
CHECKS																
7	HM4	4169 7	6083 7	3576 5	4610 7	1888 2	4762 6	4467 5	3705 6	5559 3	3417 2	3250 6	8462 4	5172 3		
	Loc. Mean	5566	7589	4067	5741	1577	5635	5310	4174	4908	3066	3420	8883	5069		
	C.D. (5%)	659.3	1560.0	1062.6	2201.8	341.9	1399.3	1115.4	1959.7	1606.4	1076.8	280.3	1628.5	1315.2		
	C.V. (%)	6.7	11.6	10.7	21.6	12.2	14.0	11.8	26.4	18.4	19.7	4.6	10.3	17.5		
	F (Prob)	0.00	0.02	0.00	0.30	0.00	0.01	0.00	0.69	0.01	0.36	0.00	0.07	0.88		

GREEN EAR YIELD (kg/ha)																
S.No.	PEDIGREE	GREEN EAR YIELD (kg/ha)														
		ARBH R	COIM R	HYDE R	KARI R	KOLH R	MAND R	ZN 4 Mean R	AMBI R	GODH R	UDAI R	ZN 5 Mean R	OV'L Mean R			
1	Almora hybrid	5333 2	9649 1	6917 2	18750 2	3750 5	6101 1	9033 1	7708 1	4549 1	9132 4	7130 1	6540 1			
2	Prakash (Filler)	6042 1	9009 2	6250 4	15444 4	3056 7	5744 2	7901 4	6354 4	3455 7	10226 1	6678 3	6299 3			
3	HQPM 1(Filler)	3375 4	7983 4	6611 3	11278 7	4907 2	3958 6	6947 6	4722 7	4413 2	9653 2	6263 5	5491 6			
4	DHM 117(Filler)	3000 5	6264 7	6250 4	18806 1	6204 1	4435 4	8392 2	5382 6	3483 6	8767 5	5877 6	6071 5			
5	HM-4(Filler)	4042 3	8280 3	7028 1	15417 5	4630 3	3214 7	7714 5	7222 2	4347 3	7830 6	6466 4	6074 4			
6	PMH 4(Filler)	2792 6	7446 6	6194 5	17556 3	4259 4	4970 3	8085 3	6806 3	4140 4	9601 3	6849 2	6339 2			
CHECKS																
7	HM4	2125 7	7658 5	5139 6	13639 6	3287 6	4345 5	6814 7	5521 5	3776 5	7792 7	5696 7	5377 7			
	Loc. Mean	3815	8041	6341	15841	4299	4681	7841	6245	4023	9000	6423	6027			
	C.D. (5%)	3511.2	223.3	994.2	1539.9	1478.2	361.0	1894.8	1094.8	1888.0	471.4	1508.2	740.3			
	C.V. (%)	37.6	1.6	8.8	5.5	19.3	4.3	18.5	9.9	26.4	2.9	13.2	18.6			
	F (Prob)	0.22	0.00	0.02	0.00	0.01	0.00	0.24	0.00	0.77	0.00	0.41	0.02			

Locations Rejected due to High C.V.(i.e.> 27%) : ARBHAVI 37.6%

Table No. 27 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																				OV'L	
		ZN 1					ZN 2					ZN 3					ZN 4						Mean
		ALMO	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BAHR	DHOL	RANC	Mean	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	GODH		
1	Almora hybrid	123.3	63.7	93.5	61.1	106.1	66.1	55.6	72.2	59.7	53.1	84.6	65.8	65.3	59.4	47.2	104.2	61.3	67.5	76.0	61.1	68.6	71.7
2	Prakash (Filler)	122.2	66.0	94.1	59.4	104.4	67.5	56.7	72.0	70.5	53.1	87.2	70.2	66.3	63.1	57.5	109.3	64.3	72.1	66.7	47.9	57.3	72.6
3	HQPM 1(Filler)	121.7	64.8	93.2	60.0	106.7	80.0	56.4	75.8	58.3	56.9	82.7	66.0	66.7	60.6	55.8	110.2	62.5	71.1	61.1	52.8	56.9	72.3
4	DHM 117(Filler)	120.6	67.1	93.8	61.9	107.8	48.3	56.7	68.7	64.9	56.1	81.4	67.5	66.7	59.7	62.8	111.1	64.0	72.9	68.8	63.2	66.0	72.6
5	HM-4(Filler)	121.7	62.5	92.1	59.2	105.0	70.8	55.8	72.7	65.6	55.6	77.6	66.2	66.3	59.4	55.3	111.1	59.8	70.4	76.7	57.6	67.2	72.5
6	PMH 4(Filler)	121.1	68.3	94.7	63.3	106.7	76.7	53.9	75.2	69.1	53.9	79.5	67.5	66.0	61.4	53.1	107.9	61.0	69.9	70.1	52.8	61.5	72.8
CHECKS																							
7	HM4	118.9	63.7	91.3	58.9	107.8	55.6	54.2	69.1	59.0	55.0	87.2	67.1	66.3	58.9	59.4	94.9	62.5	68.4	63.5	54.2	58.9	70.0
	Loc. Mean	121.3	65.1	93.2	60.6	106.3	66.4	55.6	72.2	63.9	54.8	82.9	67.2	66.2	60.4	55.9	106.9	62.2	70.3	69.0	55.7	62.3	72.1
	C.D. (5%)	6.63	6.06	4.54	4.12	6.29	15.97	2.23	8.70	4.84	6.63	10.10	7.28	0.93	9.13	3.16	16.05	3.48	4.37	7.19	16.39	9.54	3.09
	C.V. (%)	3.07	3.80	1.99	3.83	3.32	13.51	2.25	8.11	4.26	6.80	6.85	6.09	0.79	8.50	3.18	8.43	3.15	4.76	5.86	16.55	6.26	6.10
	F (Prob)	0.85	0.34	0.59	0.26	0.87	0.01	0.08	0.55	0.00	0.80	0.34	0.86	0.08	0.95	0.00	0.35	0.14	0.18	0.00	0.47	0.09	0.58

Table No. 27 (Continued)

S.No.	PEDIGREE	COB WEIGHT (kg/ha)												
		ZN 1			ZN 2			ZN 3			ZN 4			
		ALMO	BAJA	KANG	Mean	DELH	KARN	Mean	DHOL	BHUB	Mean	ARBH	KOLH	Mean
1	Almora hybrid	1205.6	1569.4	3101.9	1959.0	170.8	9222.2	-	1638.9	594.1	594.1	125.0	833.3	-
2	Prakash (Filler)	1352.8	1810.0	4259.3	2474.0	379.2	8555.6	-	1805.6	505.2	505.2	166.7	787.0	-
3	HQPM 1(Filler)	1097.2	1343.9	1967.6	1469.6	338.8	9277.8	-	1347.2	642.4	642.4	166.7	1064.8	-
4	DHM 117(Filler)	1383.3	1516.1	2349.5	1749.7	554.2	4444.4	-	1894.4	797.2	797.2	166.7	1481.5	-
5	HM-4(Filler)	1372.2	1535.6	1620.4	1509.4	213.8	12611.1	-	1597.2	752.8	752.8	83.3	925.9	-
6	PMH 4(Filler)	1325.0	2135.0	3773.1	2411.0	347.9	15944.4	-	1361.1	508.7	508.7	83.3	1064.8	-
	CHECKS													
7	HM4	997.2	1297.8	2442.1	1579.0	337.5	8611.1	-	1722.2	534.7	534.7	83.3	694.4	-
	Loc. Mean	1247.6	1601.1	2787.7	1878.8	334.6	9809.5	-	1623.8	619.3	619.3	125.0	978.8	-
	C.D. (5%)	142.54	324.62	598.74	897.75	156.27	4622.45	-	758.33	53.34	53.34	113.45	350.12	-
	C.V. (%)	6.42	11.40	8.78	26.86	26.26	26.49	-	26.25	4.84	4.84	37.09	20.11	-
	F (Prob)	0.00	0.00	0.00	0.13	0.00	0.00	-	0.64	0.00	0.00	0.29	0.01	-
Locations Rejected due to High C.V.(i.e.> 20%) : Mean!ZN 1 26.9%: DELHI 26.3%: KARNAL 26.5%: DHOLI 26.3%: ARBHAVI 37.1%: KOLHAPUR 20.1%: Mean#OVL 25.3%														

Table No. 27 (Continued)

		PLANT HEIGHT(cm)														
S.No.	PEDIGREE	KANG	DELH	KARN	ZN 2				ZN 3				ZN 4		OV'L	
					LUDH	Mean	DHOL	BHUB	RANC	Mean	COIM	HYDE	KARI	Mean	AMBI	Mean
1	Almora hybrid	127.5	167.7	130.0	177.3	158.3	160.0	121.1	170.7	150.6	145.7	175.3	145.0	155.4	213.5	157.6
2	Prakash (Filler)	143.5	186.0	123.3	184.0	164.4	179.3	133.8	196.4	169.8	177.1	193.3	151.7	174.0	209.0	170.7
3	HQPM 1(Filler)	125.0	178.3	165.0	185.0	176.1	175.0	129.8	191.3	165.4	163.3	206.3	165.0	178.2	218.4	172.9
4	DHM 117(Filler)	154.0	200.0	171.7	188.0	186.6	173.7	149.8	204.0	175.8	160.3	218.0	185.0	187.8	251.9	186.9
5	HM-4(Filler)	169.0	224.7	186.7	188.0	199.8	180.7	159.1	212.8	184.2	178.0	227.7	196.7	200.8	266.5	199.1
6	PMH 4(Filler)	147.5	176.7	180.0	192.3	183.0	175.3	142.4	183.9	167.2	178.8	195.0	178.3	184.0	222.5	179.3
CHECKS																
7	HM4	121.0	166.3	113.3	171.3	150.3	172.0	119.9	187.3	159.7	159.3	184.0	133.3	158.9	213.5	158.3
	Loc. Mean	141.1	185.7	152.9	183.7	174.1	173.7	136.5	192.3	167.5	166.1	200.0	165.0	177.0	227.9	175.0
	C.D. (5%)	8.34	10.41	34.21	20.02	27.13	5.25	8.02	19.55	12.46	7.56	12.03	18.99	20.13	29.12	9.26
	C.V. (%)	2.42	3.15	12.58	6.13	8.76	1.70	3.30	5.71	4.18	2.56	3.38	6.47	6.39	7.18	6.20
	F (Prob)	0.00	0.00	0.00	0.36	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00

		EAR HEIGHT(cm)												
S.No.	PEDIGREE	KANG	DELH	KARN	ZN 2			ZN 4			ZN 5	OV'L		
					LUDH	Mean	RANC	COIM	HYDE	Mean	AMBI	UDAI	Mean	Mean
1	Almora hybrid	51.0	75.3	61.7	85.3	74.1	81.1	69.1	61.3	65.2	70.7	78.3	74.5	70.4
2	Prakash (Filler)	64.0	101.3	70.0	94.7	88.7	100.3	98.0	76.0	87.0	72.3	96.7	84.5	85.9
3	HQPM 1(Filler)	46.0	86.7	106.7	89.3	94.2	92.2	71.4	78.0	74.7	72.8	81.7	77.2	80.5
4	DHM 117(Filler)	57.0	95.7	91.7	97.3	94.9	105.2	80.6	98.3	89.5	92.5	123.3	107.9	93.5
5	HM-4(Filler)	74.5	117.3	96.7	100.3	104.8	107.7	88.7	110.0	99.4	114.6	116.7	115.6	102.9
6	PMH 4(Filler)	61.5	87.0	91.7	98.7	92.4	88.5	72.6	72.0	72.3	77.9	95.0	86.4	82.8
CHECKS														
7	HM4	54.5	87.7	55.0	85.7	76.1	93.9	82.8	67.3	75.1	74.5	88.3	81.4	76.6
	Loc. Mean	58.4	93.0	81.9	93.0	89.3	95.6	80.5	80.4	80.4	82.2	97.1	89.7	84.7
	C.D. (5%)	5.45	11.27	27.46	12.97	19.79	12.87	4.64	8.78	28.22	16.29	16.64	17.33	8.80
	C.V. (%)	3.81	6.81	18.85	7.84	12.46	7.57	3.24	6.14	14.33	11.14	9.63	7.90	10.96
	F (Prob)	0.00	0.00	0.01	0.12	0.06	0.01	0.00	0.00	0.19	0.00	0.00	0.01	0.00



## B281

Table No. 28

PERFORMANCE OF SWEET CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, DELHI, KARNAL, PANTNAGAR, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, AMBIKAPUR, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, BANSWARA, CHHINDWARA, GODHRA, IN TRIAL No. TRSWEET DURING KHARIF (2012)

S.No.	PEDIGREE	GREEN EAR YIELD (kg/ha)																									
		ALMO						ZN 1				ZN 2				ZN 3											
		ALMO	R	BAJA	R	KANG	R	Mean	R	DELH	R	KARN	R	Mean	R	RANC	R	VARA	R	Mean	R	ARBH	R	COIM	R	HYDE	R
1	FSCH 1	12840	6	17287	4	6469	1	12198	5	7954	4	11603	7	11603	7	5893	3	7396	7	6644	8	10500	5	16351	7	12056	3
2	FSCH 18	16358	2	16892	6	3792	3	12347	4	3896	9	12772	4	12772	4	4851	7	11771	2	8311	3	12667	3	16182	8	10028	6
3	KSCH-222 (Filler)	9630	10	6762	11	2260	11	6217	11	-	-	-	-	-	-	-	-	7188	8	7188	6	-	-	17813	4	7111	11
4	BSCH 63	11790	7	17081	5	2844	8	10571	8	6900	7	10168	9	10168	9	3720	9	4792	11	4256	11	5042	10	15243	9	7972	10
5	KSCH 222	15432	3	16742	7	2875	7	11683	6	7375	5	15840	2	15840	2	3512	10	6146	9	4829	10	10292	7	19382	2	9833	8
6	Bisco Madhu	15247	4	20336	2	3104	5	12896	3	5829	8	15900	1	15900	1	5298	5	9896	5	7597	5	10458	6	16898	5	11722	4
7	Bajaura sweetcorn(Filler)	19074	1	23705	1	4719	2	15832	1	9242	2	12325	5	12325	5	7679	2	8125	6	7902	4	15917	1	16700	6	11222	5
8	Bajaura sweetcorn	10988	8	15407	9	2760	9	9718	9	3558	10	9613	10	9613	10	3988	8	10243	4	7116	7	8042	8	10840	11	8306	9
9	KSCH 333	15432	3	19979	3	3479	4	12963	2	9133	3	13401	3	13401	3	5804	4	11250	3	8527	2	12958	2	19783	1	12167	2
10	NSCH 12	13642	5	16267	8	2990	6	10966	7	10900	1	11615	6	11615	6	5208	6	5139	10	5174	9	11750	4	18196	3	12833	1
CHECKS																											
11	WOSC	10494	9	14052	10	2469	10	9005	10	7146	6	10411	8	10411	8	8512	1	12222	1	10367	1	6667	9	12431	10	9889	7
	Loc. Mean	13721		16774		3433		11309		7193		12365		12365		4951		8561		7083		10429		16347		10285	
	C.D. (5%)	1900.76		2832.10		446.04		3659.69		3872.54		425.02		425.02		1121.29		2303.59		4048.18		1731.37		530.30		1799.18	
	C.V. (%)	8.13		9.91		5.83		19.00		29.92		1.91		1.91		13.30		15.80		25.65		9.23		1.90		10.27	
	F (Prob)	0.00		0.00		0.00		0.00		0.01		0.00		0.00		0.00		0.00		0.15		0.00		0.00		0.00	

Locations Rejected due to High C.V.(i.e.> 20%) : DELHI 29.9%: GODHRA 28.0%:

## B282

GREEN EAR YIELD (kg/ha)																			
S.No.	PEDIGREE	ZN 4						ZN 5				OV'L							
		KARI	R	KOLH	R	Mean	R	AMBI	R	BANS	R	GODH	R	UDAI	R	Mean	R	Mean	R
1	FSCH 1	4028	9	8614	2	10310	7	6944	4	8750	9	5185	5	13090	6	9595	6	10130	7
2	FSCH 18	6500	6	8242	4	10724	6	8646	3	12448	2	7963	2	14722	4	11939	3	11134	5
3	KSCH-222 (Filler)	-	-	4606	10	9843	8	2257	10	10260	5	-	-	-	-	6259	11	7543	11
4	BSCH 63	4028	9	5836	8	7624	10	2153	11	9844	7	2315	9	8194	10	6730	10	7765	10
5	KSCH 222	13778	2	7925	5	12242	3	12847	1	10156	6	4352	7	15764	2	12922	1	11466	2
6	Bisco Madhu	7611	5	7761	6	10890	5	4514	8	12813	1	1759	10	14792	3	10706	4	11168	4
7	Bajaura sweetcorn(Filler)	15222	1	11703	1	14153	1	6875	5	10885	3	8750	1	18924	1	12228	2	13077	1
8	Bajaura sweetcorn	5667	8	5133	9	7598	11	5035	6	10885	3	5880	4	11875	8	9265	8	8484	9
9	KSCH 333	12000	3	3417	11	12065	4	4479	9	9323	8	6944	3	14201	5	9334	7	11262	3
10	NSCH 12	10056	4	8439	3	12255	2	9201	2	10781	4	4213	8	12083	7	10689	5	10586	6
	CHECKS																		
11	WOSC	5833	7	6306	7	8225	9	4861	7	10260	5	4769	6	11528	9	8883	9	8995	8
	Loc. Mean	8472		7089		10539		6165		10582		5213		13517		9868		10146	
	C.D. (5%)	1088.93		1137.32		2734.49		1053.99		-		2623.96		1236.67		3868.33		1674.56	
	C.V. (%)	7.14		9.42		20.30		10.04		-		27.98		5.09		23.02		22.07	
	F (Prob)	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%) : DELHI 29.9%: GODHRA 28.0%:



TABLE No. 28 (CONT.)

		GREEN EAR YIELD % SUPERIORITY OVER THE WOSC																					
S.No.	PEDIGREE	ZN 1			ZN 2			ZN 3			ZN 4					ZN 5		OV'L					
		ALMO	BAJA	KANG	Mean	DELH	KARN	Mean	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	FSCH 1	22.4	23.0	162.0	35.5	11.3	11.5	11.5	-	-	-	57.5	31.5	21.9	-	36.6	25.3	42.9	-	8.7	13.6	8.0	12.6
2	FSCH 18	55.9	20.2	53.6	37.1	-45.5	22.7	22.7	-43.0	-3.7	-19.8	90.0	30.2	1.4	11.4	30.7	30.4	77.9	21.3	67.0	27.7	34.4	23.8
3	KSCH-222 (Filler)	-	-	-	-	-	-	-	-	-	-	43.3	-	-	-	19.7	-	-	-	-	-	-	-
4	BSCH 63	12.4	21.6	15.2	17.4	-	-	-	-	-	-	22.6	-	-	-	-	-	-	-	-	-	-	-
5	KSCH 222	47.1	19.1	16.5	29.7	3.2	52.2	52.2	-	-	-	54.4	55.9	-	136.2	25.7	48.8	164.3	-	-	36.7	45.5	27.5
6	Bisco Madhu	45.3	44.7	25.7	43.2	-	52.7	52.7	-	-	-	56.9	35.9	18.5	30.5	23.1	32.4	-	24.9	-	28.3	20.5	24.2
7	Bajaura sweetcorn(Filler)	81.8	68.7	91.1	75.8	29.3	18.4	18.4	-9.8	-33.5	-23.8	138.7	34.3	13.5	161.0	85.6	72.1	41.4	6.1	83.5	64.2	37.7	45.4
8	Bajaura sweetcorn	4.7	9.6	11.8	7.9	-	-	-	-	-	-	20.6	-	-	-	-	-	3.6	6.1	23.3	3.0	4.3	-
9	KSCH 333	47.1	42.2	40.9	44.0	27.8	28.7	28.7	-	-	-	94.4	59.1	23.0	105.7	-	46.7	-	-	45.6	23.2	5.1	25.2
10	NSCH 12	30.0	15.8	21.1	21.8	52.5	11.6	11.6	-	-	-	76.2	46.4	29.8	72.4	33.8	49.0	89.3	5.1	-	4.8	20.3	17.7
	CHECKS																						
11	WOSC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Locations Rejected due to High C.V.(i.e.> 20%) : DELHI 29.9%: Mean!ZN 3 25.7%: Mean!ZN 4 20.3%: GODHRA 28.0%: Mean!ZN 5 23.0%: Mean#OV'L 22.1%

Table No. 28 (Continued)

S.No.	PEDIGREE	COB WEIGHT (kg/ha)																											
		KARN				PANT				ZN 2				ZN 3				ZN 4				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	Mean	R				
1	FSCH 1	7073	6	7667	5	7370	7	9375	6	6556	6	9375	6	10306	2	6672	2	10306	2	5260	2	11500	6	1806	2	11500	6	9184	6
2	FSCH 18	7093	5	8333	2	7713	4	11458	2	6542	7	11458	2	8389	5	6553	3	8389	5	5406	1	13667	2	2130	1	13667	2	9788	2
3	KSCH-222 (Filler)	-	-	-	-	-	-	-	-	6361	8	-	-	5306	11	3133	10	5306	11	4490	4	-	-	-	-	-	-	5306	11
4	BSCH 63	5299	8	3417	10	4358	10	5938	9	5139	11	5938	9	6167	10	3983	7	6167	10	3667	6	9444	9	972	7	9444	9	6053	9
5	KSCH 222	8914	1	6139	7	7527	5	8854	7	6111	10	8854	7	7750	8	5136	5	7750	8	4094	5	12361	3	1759	3	12361	3	8804	7
6	Bisco Madhu	8283	2	7528	6	7905	2	11250	3	6750	5	11250	3	9056	3	4608	6	9056	3	3510	7	11278	7	741	8	11278	7	9479	3
7	Bajaura sweetcorn(Filler)	6648	7	9444	1	8046	1	15694	1	6806	4	15694	1	8278	6	6964	1	8278	6	5167	3	14222	1	2130	1	14222	1	10857	1
8	Bajaura sweetcorn	4665	10	4861	8	4763	8	6910	8	7611	2	6910	8	6722	9	3278	9	6722	9	3422	8	11722	5	1296	6	11722	5	6976	8
9	KSCH 333	7526	3	8056	3	7791	3	11215	4	7917	1	11215	4	8778	4	2142	11	8778	4	2229	11	11750	4	1713	4	11750	4	9465	4
10	NSCH 12	7144	4	7806	4	7475	6	9549	5	6306	9	9549	5	10611	1	6042	4	10611	1	3052	10	10889	8	1806	2	10889	8	9200	5
	CHECKS																												
11	WOSC (C)	5266	9	3667	9	4466	9	4722	10	7361	3	4722	10	7861	7	3967	8	7861	7	3313	9	6806	10	1481	5	6806	10	5664	10
	Loc. Mean	6791		6692		6129		9497		6678		9497		8111		4771		8111		3964		11364		1583		11364		8252	
	C.D. (5%)	368.65		1476.86		2478.85		542.56		2573.40		542.56		1746.89		1978.17		1746.89		1822.60		1147.92		657.08		1147.92		1860.47	
	C.V. (%)	3.02		12.27		18.15		3.18		22.63		3.18		12.65		24.35		12.65		26.99		5.61		23.07		5.61		17.64	
	F (Prob)	0.00		0.00		0.00		0.00		0.66		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%) : DHOLI 22.6%: KOLHAPUR 24.3%: BANSWARA 27.0%: GODHRA 23.1%

## B285

No. 28 (Continued)

PEDIGREE	FODDER YIELD (kg/ha)						Sweetness (TSS)						OV'L Mean			
	ZN 1		ZN 2		ZN 4	ZN 5	ZN 2		ZN 4		Mean	UDAI				
	ALMO	DHOL	HYDE	KARI	Mean	UDAI	DELH	KARN	Mean	RANC				KARI	KOLH	
FSCH 1	16913.6	7638.9	9277.8	2777.8	6027.8	12500.0	14.9	13.7	14.3	15.1	13.4	15.0	14.2	11.4	13.9	
FSCH 18	16358.0	9166.7	10388.9	4555.6	7472.2	13194.4	16.6	16.2	16.4	14.1	13.4	13.7	13.6	11.8	14.3	
KSCH-222 (Filler)	14444.4	7000.0	7111.1	-	7111.1	-	-	-	-	-	-	15.1	15.1	-	15.1	
BSCH 63	17530.9	5833.3	7000.0	5027.8	6013.9	10243.1	16.0	14.2	15.1	15.2	12.9	17.4	15.1	12.0	14.6	
KSCH 222	19629.6	8888.9	8361.1	5972.2	7166.7	12951.4	16.8	16.5	16.6	16.9	9.0	16.6	12.8	10.8	14.4	
Bisco Madhu	20802.5	7500.0	10027.8	4666.7	7347.2	15138.9	16.0	13.6	14.8	14.4	13.3	13.6	13.4	10.5	13.6	
Bajaura sweetcorn(Filler)	26913.6	7833.3	13805.6	6916.7	10361.1	24930.6	18.2	15.4	16.8	15.5	19.3	15.0	17.2	8.1	15.2	
Bajaura sweetcorn	18580.3	7361.1	9444.4	4333.3	6888.9	12152.8	25.6	15.5	20.6	12.3	13.4	14.8	14.1	13.0	15.8	
KSCH 333	21851.9	8388.9	10444.4	7527.8	8986.1	15034.7	14.6	15.4	15.0	15.0	14.1	15.9	15.0	11.5	14.4	
NSCH 12	22345.7	7638.9	10416.7	7222.2	8819.4	14930.6	17.0	17.5	17.2	15.9	27.6	13.9	20.8	12.0	17.3	
CHECKS																
WOSC (C)	17037.0	8861.1	11138.9	5138.9	8138.9	12430.6	14.0	17.2	15.6	15.0	13.0	15.0	14.0	12.5	14.4	
Loc. Mean	19309.8	7828.3	9765.2	5413.9	7666.7	14350.7	16.9	15.5	14.7	14.9	14.9	15.1	15.0	11.4	14.8	
C.D. (5%)	4176.03	3149.98	1889.53	1222.92	3492.86	1393.04	2.57	0.69	5.28	1.98	2.25	0.45	8.56	0.00	3.04	
C.V. (%)	12.70	23.63	11.36	12.56	20.45	5.40	8.45	2.47	16.08	7.37	8.36	1.74	25.62	0.00	17.71	
F (Prob)	0.00	0.61	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.73	0.00	0.52	

Locations Rejected due to High C.V.(i.e.&gt; 20%) : DHOLI 23.6%: Mean|ZN 4 20.4%

Table No. 28 (Continued)

STAND AT HARVEST ('000/ha)																												
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L				
		ALMO	BAJA	KANG	Mean	DELH	KARN	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS		CHHI	GODH	UDAI	Mean
1	FSCH 1	64.8	58.8	55.2	59.6	59.4	40.8	52.5	50.9	66.7	48.3	27.4	49.3	47.9	38.6	66.0	57.5	18.1	65.6	58.3	53.1	69.1	60.8	59.7	56.9	49.7	59.8	54.1
2	FSCH 18	65.4	62.5	46.9	58.3	46.9	39.7	55.3	47.3	66.3	50.4	27.7	64.2	52.2	45.6	66.3	54.4	30.6	62.5	60.1	54.8	74.3	56.9	64.4	48.6	54.2	62.5	55.2
3	KSCH-222 (Filler)	45.1	37.0	46.9	43.0	-	-	-	-	-	50.8	6.5	68.1	41.8	-	66.0	54.7	-	50.6	-	57.1	63.5	57.6	-	-	-	60.6	49.7
4	BSCH 63	64.2	55.1	49.0	56.1	30.8	38.1	24.4	31.1	65.6	49.7	23.5	40.3	44.8	21.9	66.0	56.1	15.3	54.7	60.1	50.4	63.9	56.6	48.3	28.7	28.5	49.3	46.9
5	KSCH 222	59.9	57.9	50.0	55.9	53.3	38.3	32.5	41.4	65.6	51.7	27.7	30.6	43.9	41.1	66.3	52.2	40.8	50.3	61.0	54.1	76.7	62.5	56.1	36.6	46.2	60.4	51.6
6	Bisco Madhu	64.2	62.0	49.0	58.4	47.2	39.7	44.4	43.8	68.1	51.7	28.9	34.7	45.8	36.7	66.7	56.7	26.4	61.4	62.2	54.7	70.1	60.4	55.8	17.6	46.9	58.3	52.4
7	Bajaura sweetcorn(Filler)	66.7	64.8	52.1	61.2	56.4	39.7	55.6	50.6	68.8	51.9	31.8	54.2	51.7	42.2	65.6	56.4	49.4	66.1	58.9	59.3	69.4	59.0	64.4	64.8	55.2	62.0	57.2
8	Bajaura sweetcorn	63.6	57.9	47.9	56.5	45.6	38.6	36.9	40.4	66.3	55.3	30.1	54.5	51.5	28.9	65.6	55.3	31.9	59.7	60.1	54.5	72.2	58.3	54.4	63.4	51.7	59.2	53.0
9	KSCH 333	65.4	68.5	51.0	61.7	65.8	39.4	51.1	52.1	69.4	51.7	28.6	61.5	52.8	47.8	66.3	58.3	46.7	65.0	59.8	59.2	71.5	62.5	64.2	64.8	55.9	63.5	58.0
10	NSCH 12	61.7	58.8	49.0	56.5	55.3	40.0	31.4	42.2	67.4	51.7	25.9	46.9	47.9	40.0	66.3	55.8	37.2	59.7	61.0	56.0	73.3	63.5	57.2	25.0	38.9	58.2	52.7
11	WOSC (C)	61.7	56.0	46.9	54.9	60.6	39.7	36.9	45.7	67.4	49.4	29.5	66.3	53.1	26.7	66.0	56.9	34.2	61.4	-	54.6	70.1	59.0	57.2	58.3	55.6	60.5	54.2
	Loc. Mean	62.1	58.1	49.4	56.5	52.1	39.4	42.1	40.5	67.2	51.1	26.1	51.9	48.5	36.9	66.1	55.9	33.1	59.7	60.2	55.3	70.4	59.8	58.2	46.5	48.3	59.5	53.2
	C.D. (5%)	6.12	4.45	5.16	6.79	18.65	1.67	3.88	12.21	3.36	4.33	3.03	10.68	12.09	15.17	0.85	6.06	3.01	7.43	2.30	8.34	9.36	6.42	6.44	25.83	8.21	7.12	3.94
	C.V. (%)	5.79	4.50	4.69	7.05	19.88	2.36	5.12	17.69	2.78	4.97	6.82	12.09	17.26	22.82	0.76	6.37	5.06	7.30	2.75	11.81	7.81	6.31	6.16	30.89	9.46	8.29	11.58
	F (Prob)	0.00	0.00	0.09	0.00	0.03	0.05	0.00	0.00	0.25	0.21	0.00	0.00	0.53	0.02	0.33	0.75	0.00	0.00	0.00	0.64	0.18	0.35	0.00	0.00	0.00	0.04	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : ARBHAVI 22.8%: GODHRA 30.9%



## B288

Table No.28 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																							OV'L			
		ZN 1				ZN 2				ZN 3				ZN 4					ZN 5									
		ALMO	BAJA	KANG	Mean	DELH	KARN	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean	
1	FSCH 1	198.3	206.7	133.5	179.5	152.0	106.7	193.0	150.6	128.9	129.7	157.2	161.3	144.2	134.0	156.2	169.7	183.3	158.3	160.3	196.0	198.7	185.0	157.7	156.7	178.8	163.1	
2	FSCH 18	215.0	206.7	114.0	178.6	150.0	151.7	206.0	169.2	144.7	129.0	161.5	145.0	145.1	165.0	153.4	179.3	178.3	141.7	163.6	187.3	190.5	173.3	139.0	165.0	171.0	164.8	
3	KSCH-222 (Filler)	206.7	233.3	127.5	189.2	-	-	-	-	-	132.0	-	123.8	127.9	-	163.7	173.7	-	155.0	164.1	206.9	206.9	-	-	-	206.9	172.9	
4	BSCH 63	208.3	218.3	140.0	188.9	165.0	158.3	185.0	169.4	136.5	137.7	162.1	156.3	148.1	139.5	165.2	174.3	188.3	168.3	167.1	190.9	185.2	186.7	164.0	155.0	176.4	169.3	
5	KSCH 222	221.7	220.0	123.5	188.4	157.0	136.7	199.7	164.4	142.7	134.7	160.9	137.5	143.9	143.5	176.3	189.3	193.3	171.7	174.8	222.0	175.5	191.7	147.7	175.0	182.4	171.0	
6	Bisco Madhu	225.0	221.7	144.5	197.1	173.3	150.0	223.0	182.1	166.5	146.0	160.9	150.0	155.9	151.5	172.2	193.3	206.7	161.7	177.1	213.9	201.7	218.3	150.0	171.7	191.1	180.1	
7	Bajaura sweetcorn(Filler)	235.0	248.3	163.5	215.6	184.3	166.7	220.7	190.6	165.6	172.3	190.7	162.5	172.8	151.0	186.3	207.7	216.7	188.3	190.0	244.0	212.0	205.0	173.3	240.0	214.9	196.7	
8	Bajaura sweetcorn	201.7	193.3	107.0	167.3	146.3	110.0	191.0	149.1	139.2	125.7	150.7	103.8	129.8	135.0	163.5	173.7	188.3	146.7	161.4	174.7	187.2	185.0	140.0	178.3	173.0	157.1	
9	KSCH 333	208.3	223.0	137.5	189.6	176.0	168.3	209.7	184.7	153.8	154.3	165.5	172.5	161.5	143.0	156.8	184.7	188.3	148.3	164.2	208.1	178.9	191.7	160.7	176.7	183.2	175.3	
10	NSCH 12	233.3	225.0	142.5	200.3	174.3	138.3	195.7	169.4	139.7	148.3	160.3	141.3	147.4	143.0	182.5	192.3	193.3	163.3	174.9	222.1	190.4	213.3	148.0	178.3	190.4	176.3	
	CHECKS																											
11	WOSC (C)	196.7	211.7	122.5	176.9	174.0	138.3	185.7	166.0	136.6	147.7	180.5	198.8	165.9	144.0	168.3	173.3	181.7	150.0	163.5	200.6	194.0	193.3	151.0	175.0	182.8	171.2	
	Loc. Mean	213.6	218.9	132.4	188.3	165.2	142.5	200.9	154.1	145.4	141.6	165.0	150.2	149.3	145.0	167.7	182.8	191.8	159.4	169.2	206.1	192.8	194.3	153.1	177.2	186.4	172.5	
	C.D. (5%)	12.51	23.48	19.20	13.78	19.65	8.36	48.88	23.75	4.91	16.83	14.66	27.21	18.04	20.67	11.84	25.60	18.39	20.41	11.52	26.67	20.46	11.26	33.52	32.66	16.90	7.38	
	C.V. (%)	3.44	6.30	6.51	4.30	6.61	3.26	13.52	9.05	1.88	6.98	4.94	10.64	8.37	7.93	4.15	8.22	5.33	7.52	5.33	7.60	6.23	3.22	12.17	10.25	7.09	6.86	
	F (Prob)	0.00	0.01	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.01	0.01	0.00	0.00	0.03	0.00	0.47	0.00	0.00	0.00	

S.No.	PEDIGREE	EAR HEIGHT(cm)																							OV'L		
		ZN 1				ZN 2				ZN 3				ZN 4					ZN 5								
		ALMO	BAJA	KANG	Mean	DELH	KARN	PANT	Mean	BHUB	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean	
1	FSCH 1	81.7	78.3	48.0	69.3	57.0	51.7	65.0	57.9	40.5	63.9	61.3	55.2	42.5	62.2	41.7	48.3	70.0	52.9	43.7	93.8	68.3	35.7	56.7	65.6	59.7	
2	FSCH 18	96.7	91.0	56.0	81.2	55.7	71.7	76.7	68.0	50.6	67.5	70.0	62.7	66.0	75.9	51.3	55.0	61.7	62.0	58.5	85.4	75.0	44.0	66.7	71.4	68.4	
3	KSCH-222 (Filler)	96.7	115.0	58.5	90.1	-	-	-	-	-	-	56.3	56.3	-	77.5	48.0	-	73.3	66.3	66.6	87.0	-	-	-	76.8	75.4	
4	BSCH 63	103.3	113.3	58.0	91.6	77.0	78.3	70.0	75.1	49.7	67.7	61.3	59.5	61.0	80.9	56.3	70.0	76.7	69.0	51.3	95.3	91.7	53.3	58.3	74.1	73.3	
5	KSCH 222	113.3	125.3	54.0	97.6	78.3	66.7	82.3	75.8	63.7	61.8	71.3	65.6	66.0	83.6	63.7	71.7	75.0	72.0	89.7	98.8	96.7	61.7	78.3	90.9	80.0	
6	Bisco Madhu	98.3	103.0	52.5	84.6	73.7	78.3	84.7	78.9	65.9	57.9	58.8	60.8	59.0	81.7	48.3	55.0	75.0	63.8	63.1	77.2	86.7	62.3	66.7	73.4	71.4	
7	Bajaura sweetcorn(Filler)	111.7	134.0	52.0	99.2	85.7	66.7	106.7	86.3	68.5	79.1	75.0	74.2	71.5	90.0	73.7	80.0	95.0	82.0	84.6	117.1	96.7	73.3	101.7	100.0	88.3	
8	Bajaura sweetcorn	103.3	98.3	54.0	85.2	74.3	68.3	79.3	74.0	59.2	64.5	51.3	58.3	58.5	70.8	53.3	63.3	75.0	64.2	62.3	82.3	85.0	58.3	81.7	77.8	71.4	
9	KSCH 333	91.7	97.0	54.5	81.1	69.0	78.3	76.7	74.7	56.9	62.5	66.3	61.9	50.0	74.6	44.3	48.3	65.0	56.4	47.9	78.8	71.7	49.0	63.3	65.4	66.5	
10	NSCH 12	110.0	126.7	54.5	97.1	87.0	71.7	81.3	80.0	64.8	67.5	71.3	67.9	60.5	82.7	62.3	65.0	68.3	67.8	75.3	93.7	101.7	64.3	88.3	89.8	79.6	
	CHECKS																										
11	WOSC (C)	105.0	115.0	52.5	90.8	85.3	76.7	80.0	80.7	50.1	89.8	91.3	77.0	67.5	75.8	59.0	63.3	68.3	66.8	62.9	80.5	93.3	55.7	85.0	80.4	77.8	
	Loc. Mean	101.1	108.8	54.0	88.0	74.3	70.8	80.3	68.3	57.0	68.2	66.7	63.6	60.3	77.8	54.7	62.0	73.0	65.7	64.2	90.0	86.7	55.8	74.7	78.7	73.8	
	C.D. (5%)	6.92	17.95	1.46	14.55	14.65	5.53	13.80	13.30	3.59	10.24	16.05	14.12	18.84	5.93	11.29	13.40	15.51	6.14	8.87	24.58	9.11	21.76	21.49	11.55	5.03	
	C.V. (%)	4.02	9.68	1.21	9.71	10.96	4.34	9.56	11.43	3.50	8.34	14.13	13.04	17.38	4.47	12.11	12.01	12.47	7.30	8.12	16.04	5.84	21.68	16.00	10.16	10.35	
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.09	0.00	0.00	0.00	0.03	0.00	0.00	0.10	0.00	0.05	0.00	0.00	0.00	

TABLE No. 29

PERFORMANCE OF POP CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, DELHI, LUDHIANA, KARNAL, PANTNAGAR, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, AMBIKAPUR, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, BANSWARA, CHHINDWARA, GODHRA, IN TRIAL No. TRPOP DURING KHARIF (2012)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
	PEDIGREE					ZN 1				ZN 2				ZN 3																
	ALMO	R	BAJA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R
1 VL Popcorn 2	3117	5	5595	6	2758	6	3823	5	2022	4	2617	4	2021	6	2946	5	2528	5	2222	5	1381	5	2940	4	1188	6	2181	5	1981	6
2 VL Amber Popcorn (Filler)	3400	4	6033	3	3451	1	4295	3	2337	3	2468	5	2134	4	3447	4	2751	4	2753	4	1622	3	2820	5	1825	2	2398	3	2699	3
3 Bajaura Popcorn	3618	3	5725	4	3087	2	4143	4	1911	5	2754	3	2693	3	3613	3	2759	3	2826	3	1565	4	2628	6	1771	4	2340	4	2474	4
4 Bio 9631(Filler)	7108	2	12961	1	2903	4	7657	1	3694	1	4314	1	3307	2	6157	1	4722	1	3566	2	2406	2	9084	1	1598	5	5019	1	6763	1
5 Bio 9637(Filler)	8398	1	10992	2	3036	3	7475	2	3326	2	4174	2	5198	1	4884	2	4128	2	3699	1	2541	1	8765	2	4172	1	5002	2	6664	2
CHECKS																														
6 VL Amber Popcorn	2905	6	5608	5	2808	5	3773	6	1671	6	1430	6	2049	5	2297	6	1799	6	1888	6	1136	6	3506	3	1813	3	2176	6	2389	5
Location Mean	4758		7819		3007		5195		2494		2960		2900		3891		3115		2826		1775		4957		2061		3186		3828	
Mean Stand	33		44		16		31		67		64		71		64		65		63		61		60		51		61		56	
C.D. (5%)	770		898		218		628		758		806		1189		772		779		167		506		1785		1087		819		1009	
C.V. (%)	10.7		7.6		2.6		-		20.0		18.0		22.2		13.1		-		3.9		18.8		19.5		28.6		-		17.4	
F (Prob)	0		0		0		0		0		0		0.019		0		0		0		0		0		0		0		0	
Plot Size	5.4		6		2.88		-		12		12		10.92		12		-		9.6		12		9.6		9.6		-		12	
AGRONOMY DATA																														
Sowing Date	9-07		25-06		16-07		-		6-07		4-07		1-07		9-07		-		23-06		9-07		6-07		8-07		-		20-07	
Harvest Date	5-11		29-10		26-10		-		18-10		28-09		-		20-10		-		4-10		21-09		16-10		3-10		-		14-12	
Irrigation Nos	-		3		-		-		2		5		3		1		-		-		-		-		-		-		6	
Fertilizer Applied N	80		120		120		-		120		150		90		120		-		120		120		120		80		-		150	
Fertilizer Applied P	60		60		60		-		60		60		30		60		-		60		60		60		40		-		75	
Fertilizer Applied K	40		40		40		-		40		60		-		40		-		60		40		40		40		-		37.5	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 22.2 %: VARA 28.5 %: AMBI 39.2 %: UDAI 25.0 %

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SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																
	ZN 4											ZN 5		OV'L			
	COIM R	HYDE R	KARI R	KOLH R	MAND R	MEAN R	AMBI R	BANS R	CHHI R	GODH R	UDAI R	MEAN R	MEAN R				
1 VL Popcorn 2	4023 6	4882 4	1743 6	2959 5	5454 4	3507 6	2244 6	1969 2	3323 6	1819 3	2451 6	2370 4	2986 5				
2 VL Amber Popcorn (Filler)	4810 3	4689 5	3425 4	3176 3	6905 3	4284 3	2698 5	1675 6	4156 3	1262 5	2662 5	2365 5	3396 3				
3 Bajaura Popcorn	4460 4	4630 6	3498 3	3000 4	5022 5	3848 4	2707 4	1901 3	3724 5	1605 4	2797 4	2410 3	3225 4				
4 Bio 9631(Filler)	7935 1	7105 2	5317 2	6134 1	10154 1	7235 1	2874 3	2294 1	9173 1	4227 1	2895 3	5231 1	6183 1				
5 Bio 9637(Filler)	7069 2	8373 1	6842 1	5293 2	8585 2	7138 2	7118 1	1680 5	8522 2	3937 2	3847 1	4713 2	5932 2				
CHECKS																	
6 VL Amber Popcorn	4172 5	5169 3	2709 5	2737 6	4474 6	3608 5	2986 2	1721 4	3876 4	884 6	3090 2	2161 6	2854 6				
Location Mean	5412	5808	3922	3883	6766	4936	3438	1873	5462	2289	2957	3208	4096				
Mean Stand	63	67	48	78	66	63	67	54	77	47	56	59	57				
C.D. (5%)	340	1465	881	779	854	888	2488	476	323	455	1367	418	737				
C.V. (%)	4.1	16.6	14.8	13.2	8.32	-	39.19	16.75	3.2	10.77	25.03	-	-				
F (Prob)	0	0	0	0	0	-	0.006	0.056	0	0	0.082	-	-				
Plot Size	9.6	12	12	12	11.2	-	9.6	9.6	12	7.2	9.6	-	-				
AGRONOMY DATA																	
Sowing Date	5-07	5-07	5-07	19-07	8-07	-	14-07	13-07	27-06	16-07	4-07	-	-				
Harvest Date	10-10	30-10	29-10	1-12	19-12	-	-	18-10	15-11	18-10	12-10	-	-				
Irrigation Nos	9	1	-	-	8	-	-	-	-	-	2	-	-				
Fertilizer Applied N	150	200	180	120	150	-	100	150	120	120	90	-	-				
Fertilizer Applied P	75	60	60	60	75	-	50	80	60	50	60	-	-				
Fertilizer Applied K	75	50	50	40	40	-	30	40	40	-	-	-	-				

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 22.2 %: VARA 28.5 %: AMBI 39.2 %: UDAI 25.0 %



## B291

TABLE No. 29 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Amber Popcorn													
		ZN 1				ZN 2				ZN 3					
		ALMO	BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	MEAN	BHUB	DHOL	RANC	VARA	MEAN
1	VL Popcorn 2	7.3	-	-	1.3	21	83	-	28.3	40.5	17.7	21.7	-	-	0.2
2	VL Amber Popcorn (Filler)	17.1	7.6	22.9	13.8	39.9	72.5	4.2	50.1	52.9	45.8	42.9	-	0.7	10.2
3	Bajaura Popcorn	24.6	2.1	9.9	9.8	14.4	92.5	31.4	57.3	53.4	49.7	37.8	-	-	7.5
4	Bio 9631(Filler)	144.7	131.1	3.4	102.9	121.1	201.7	61.4	168	162.4	88.9	111.9	159.1	-	130.6
5	Bio 9637(Filler)	189.1	96	8.1	98.1	99.1	191.9	153.7	112.6	129.4	96	123.8	150	130.1	129.8
	CHECKS														
6	VL Amber Popcorn	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Amber Popcorn													
	ZN 4								ZN 5		OV'L			
	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN
VL Popcorn 2	-	-	-	-	8.1	21.9	-	-	14.4	-	105.6	-	9.7	4.6
VL Amber Popcorn (Filler)	13	15.3	-	26.4	16	54.3	18.7	-	-	7.2	42.7	-	9.4	19
Bajaura Popcorn	3.6	6.9	-	29.1	9.6	12.3	6.6	-	10.4	-	81.4	-	11.5	13
Bio 9631(Filler)	183.1	90.2	37.5	96.3	124.1	126.9	100.5	-	33.3	136.6	378	-	142.1	116.6
Bio 9637(Filler)	178.9	69.4	62	152.6	93.3	91.9	97.8	138.4	-	119.8	345.1	24.5	118.1	107.8
	CHECKS													
	VL Amber Popcorn	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 21%) : LUDH 22.2 %: VARA 28.5 %: AMBI 39.2 %: UDAI 25.0 %

Table No. 29 (Continued)

STAND AT HARVEST ('000/ha)																													
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OVL					
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI		BANS	CHHI	GODH	UDAI	Mean
1	VL Popcorn 2	63.0	74.2	53.8	63.6	50.4	53.5	64.1	53.8	55.5	66.1	54.6	58.7	62.5	59.8	52.7	65.1	54.2	42.3	64.8	58.3	56.2	67.4	56.3	66.1	67.6	59.4	63.3	59.3
2	VL Amber Popcorn (Filler)	61.1	79.2	64.2	68.2	54.8	52.9	62.3	49.8	54.9	65.1	48.1	62.8	38.2	58.7	43.1	65.6	59.4	27.5	63.5	58.7	53.0	67.0	55.7	63.1	59.7	58.7	60.8	58.2
3	Bajaura Popcorn	59.3	70.8	53.8	61.3	52.1	52.9	63.8	54.2	55.7	65.9	48.8	64.6	43.8	59.7	40.4	65.1	55.8	37.7	65.6	59.4	54.0	70.1	59.6	66.4	63.4	58.3	63.6	58.5
4	Bio 9631(Filler)	59.7	72.1	53.8	61.9	61.9	52.1	69.9	55.2	59.8	66.4	49.4	65.3	47.2	60.4	50.2	65.1	58.1	43.5	65.0	59.2	56.9	71.2	56.3	62.2	65.3	56.3	62.2	59.9
5	Bio 9637(Filler)	63.9	72.1	57.3	64.4	56.9	53.8	66.8	53.5	57.8	67.2	56.5	63.9	49.7	62.5	51.0	66.1	54.4	44.8	66.7	58.3	56.9	74.7	52.9	63.3	72.2	62.8	65.2	60.9
CHECKS																													
6	VL Amber Popcorn	61.1	72.1	53.8	62.3	58.3	53.8	60.4	51.5	56.0	65.6	46.9	57.6	58.3	56.7	41.5	66.1	54.8	45.6	65.6	59.2	55.5	70.1	57.0	65.3	64.8	56.3	62.7	58.4
	Loc. Mean	61.3	73.4	56.1	63.6	55.7	53.2	64.6	53.0	56.6	66.1	50.7	62.2	49.9	59.6	46.5	65.5	56.1	40.2	65.2	58.8	55.4	70.1	56.3	64.4	65.5	58.6	63.0	59.2
	C.D. (5%)	7.34	4.11	6.91	4.31	7.90	2.44	6.71	4.01	3.91	3.94	13.05	7.24	30.36	4.96	9.75	1.16	5.01	2.91	2.27	4.47	4.35	10.09	4.86	3.95	9.38	5.63	3.53	1.88
	C.V. (%)	7.93	3.71	4.79	3.72	9.40	3.05	5.71	5.03	4.58	3.95	17.08	6.40	33.41	4.57	13.91	1.17	5.92	4.79	2.31	5.04	6.61	7.91	5.73	3.37	7.87	5.28	4.24	5.17
	F (Prob)	0.74	0.01	0.05	0.05	0.07	0.67	0.10	0.11	0.14	0.91	0.57	0.17	0.52	0.28	0.06	0.18	0.20	0.00	0.15	0.99	0.36	0.60	0.17	0.17	0.17	0.19	0.24	0.04

Locations Rejected due to High C.V.(i.e.&gt; 20%) : VARANASI 33.4%

MOISTURE % AT HARVEST																												
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OVL				
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	BANS		CHHI	GODH	UDAI	Mean
1	VL Popcorn 2	22.5	21.8	26.3	23.5	26.2	26.6	17.9	21.3	23.0	17.6	17.4	22.4	26.8	21.1	16.6	13.9	17.0	7.2	9.0	12.7	12.7	16.5	11.0	16.4	20.0	15.9	18.4
2	VL Amber Popcorn (Filler)	22.1	21.9	25.6	23.2	18.6	28.0	21.1	22.9	22.6	17.9	19.0	22.6	29.5	22.2	15.4	15.1	17.6	8.0	8.8	13.8	13.1	16.1	10.6	18.7	20.8	16.5	18.8
3	Bajaura Popcorn	22.1	21.9	25.0	23.0	18.4	25.1	21.0	24.0	22.1	18.4	19.0	23.2	27.7	22.1	17.8	16.1	18.0	7.0	9.2	14.4	13.7	16.7	11.0	19.7	21.4	17.2	18.9
4	Bio 9631(Filler)	27.2	22.0	27.4	25.5	24.3	29.8	16.0	25.6	23.9	19.7	26.1	24.4	27.5	24.4	17.2	20.0	16.8	9.5	9.3	15.0	14.6	17.1	13.8	18.2	18.9	17.0	20.3
5	Bio 9637(Filler)	29.7	22.6	26.3	26.2	31.9	31.0	22.9	28.1	28.5	18.7	31.4	24.4	28.6	25.8	20.2	23.2	19.2	12.1	9.4	16.5	16.7	16.6	14.4	20.4	21.9	18.3	22.3
CHECKS																												
6	VL Amber Popcorn	22.7	21.9	26.2	23.6	17.2	28.1	18.4	21.5	21.3	20.8	18.1	22.4	30.1	22.9	16.7	15.0	18.8	8.9	9.5	14.1	13.8	16.4	11.0	16.3	20.8	16.1	18.8
	Loc. Mean	24.4	22.0	26.1	24.2	22.7	28.1	19.5	23.9	23.6	18.9	21.8	23.2	28.4	23.1	17.3	17.2	17.9	8.8	9.2	14.4	14.1	16.5	12.0	18.2	20.6	16.8	19.6
	C.D. (5%)	1.85	0.56	2.42	3.14	1.61	0.24	0.73	2.47	4.35	-	2.03	1.27	0.92	4.25	0.83	0.25	0.98	0.59	0.37	0.29	1.63	0.28	0.82	1.70	0.39	1.72	1.22
	C.V. (%)	5.03	1.68	3.60	7.14	4.69	0.57	2.06	6.88	12.26	-	6.17	3.00	1.78	12.24	3.19	0.95	3.65	4.48	2.67	1.33	9.69	1.14	3.76	5.11	1.05	6.79	10.21
	F (Prob)	0.00	0.05	0.32	0.19	0.00	0.00	0.00	0.00	0.04	-	0.00	0.01	0.00	0.25	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

Table No. 29 (Continued)

GRAIN SHELLING %																													
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L					
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI		BANS	CHHI	GODH	UDAI	Mean
1	VL Popcorn 2	85.1	88.6	71.2	81.6	83.0	67.1	81.5	85.4	79.2	78.0	86.0	82.6	75.5	80.5	81.1	81.6	78.6	80.8	85.0	79.1	81.0	80.0	66.8	88.8	86.8	78.5	80.2	80.5
2	VL Amber Popcorn (Filler)	82.5	80.0	78.6	80.3	85.3	70.0	80.0	82.3	79.4	79.0	85.5	80.1	81.0	81.4	79.6	79.5	79.2	77.9	85.1	80.5	80.3	80.3	67.9	79.4	79.4	77.2	76.8	79.5
3	Bajaura Popcorn	86.4	83.9	78.6	83.0	83.6	66.7	79.2	86.6	79.0	78.9	85.7	83.4	83.0	82.8	81.7	85.5	80.0	82.0	83.9	78.8	82.0	79.8	68.9	85.1	85.4	78.4	79.5	81.2
4	Bio 9631(Filler)	83.3	86.4	75.2	81.6	81.6	67.8	83.0	92.1	81.1	78.6	88.2	84.2	75.0	81.5	87.1	80.3	80.6	76.8	84.6	79.2	81.4	80.6	70.0	86.8	82.6	78.8	79.8	81.0
5	Bio 9637(Filler)	82.1	81.5	78.4	80.7	82.4	68.3	83.7	84.1	79.6	77.3	88.6	82.6	83.0	82.9	84.9	78.1	79.9	75.7	84.9	80.0	80.6	81.4	66.8	77.5	81.8	76.8	76.9	80.0
CHECKS																													
6	VL Amber Popcorn	85.6	84.7	75.6	82.0	81.8	71.5	82.3	86.3	80.4	78.0	82.2	84.7	81.0	81.5	86.0	83.4	80.3	78.2	85.9	79.9	82.3	79.6	65.2	85.0	82.4	78.0	78.0	80.8
	Loc. Mean	84.2	84.2	76.3	81.5	82.9	68.5	81.6	86.1	79.8	78.3	86.0	82.9	79.8	81.7	83.4	81.4	79.7	78.5	84.9	79.6	81.3	80.3	67.6	83.8	83.1	77.9	78.5	80.5
	C.D. (5%)	1.82	0.00	4.19	5.58	0.85	0.25	1.69	4.91	3.56	-	2.03	1.98	1.06	3.70	1.24	0.89	1.43	0.09	0.32	0.92	2.37	2.30	0.87	1.16	3.11	1.15	2.88	1.35
	C.V. (%)	1.43	0.00	2.14	3.77	0.68	0.25	1.14	3.78	2.96	-	1.56	1.31	0.73	3.01	0.99	0.72	1.19	0.08	0.25	0.77	2.45	1.58	0.85	0.76	2.06	0.81	2.78	2.81
	F (Prob)	0.00	0.00	0.03	0.91	0.00	0.00	0.00	0.01	0.79	-	0.00	0.01	0.00	0.75	0.00	0.00	0.08	0.00	0.00	0.01	0.49	0.57	0.00	0.00	0.00	0.02	0.08	0.14

DAYS TO 50% POLLEN SHED																													
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L					
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI		BANS	CHHI	GODH	UDAI	Mean
1	VL Popcorn 2	53.3	52.3	51.0	52.2	52.0	46.8	46.7	52.3	49.4	50.0	52.0	45.3	49.3	49.2	60.0	46.0	52.8	51.8	58.0	48.3	52.8	45.3	46.0	52.0	45.7	51.0	48.0	50.3
2	VL Amber Popcorn (Filler)	54.3	52.0	51.0	52.4	51.8	51.0	47.0	54.0	50.9	50.5	53.0	48.0	48.7	50.0	60.3	47.0	52.0	53.0	59.0	49.8	53.5	46.7	48.0	53.7	46.7	52.3	49.5	51.3
3	Bajaura Popcorn	55.0	57.3	51.5	54.6	52.3	50.5	48.0	53.3	51.0	50.5	54.0	47.3	48.3	50.0	59.5	46.0	52.3	53.5	59.0	49.0	53.2	46.3	46.0	55.0	47.3	52.0	49.3	51.5
4	Bio 9631(Filler)	54.3	55.3	55.0	54.8	51.8	47.0	47.3	53.3	49.8	51.5	52.8	47.7	47.7	49.9	60.5	50.0	51.3	54.0	59.5	49.5	54.1	46.3	42.0	52.3	48.0	52.3	48.2	51.3
5	Bio 9637(Filler)	55.0	58.3	55.5	56.3	55.3	52.3	46.7	54.3	52.1	54.5	55.5	48.0	50.5	52.1	60.8	50.0	52.0	56.3	60.5	52.3	55.3	47.0	44.5	54.7	49.0	53.0	49.6	53.0
CHECKS																													
6	VL Amber Popcorn	53.5	54.8	54.0	54.1	51.8	48.0	47.7	53.5	50.2	50.5	51.5	45.0	49.3	49.1	59.5	46.8	52.3	51.5	58.0	49.0	52.8	46.7	47.5	52.0	45.0	52.3	48.7	50.9
	Loc. Mean	54.2	55.0	53.0	54.1	52.5	49.3	47.2	53.4	50.6	51.3	53.1	46.9	49.0	50.1	60.1	47.6	52.1	53.3	59.0	49.6	53.6	46.4	45.7	53.3	46.9	52.2	48.9	51.4
	C.D. (5%)	1.28	1.94	3.98	2.61	2.44	0.75	1.98	1.55	1.80	1.18	3.11	0.79	2.42	1.47	1.27	0.31	1.02	1.48	1.21	1.15	1.12	1.23	1.64	0.79	1.13	1.69	1.77	0.71
	C.V. (%)	1.56	2.35	2.92	2.66	3.09	1.00	2.31	1.92	2.36	1.53	3.89	0.93	2.71	1.95	1.40	0.43	1.30	1.84	1.36	1.54	1.75	1.45	2.38	0.82	1.33	1.78	2.74	2.30
	F (Prob)	0.05	0.00	0.09	0.04	0.05	0.00	0.61	0.16	0.07	0.00	0.14	0.00	0.24	0.01	0.25	0.00	0.12	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.27	0.29	0.00

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Table No. 29 (Continued)

DAYS TO 50% SILKING																													
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L									
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI		KOLH	MAND	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
1	VL Popcorn 2	55.8	54.8	53.0	54.5	55.3	48.8	47.7	54.5	51.5	53.0	53.8	49.0	54.3	52.5	60.3	48.0	55.0	53.0	59.0	50.5	54.3	48.3	49.3	54.0	49.0	53.0	50.7	52.7
2	VL Amber Popcorn (Filler)	56.3	54.8	53.5	54.8	54.5	53.0	48.0	56.0	52.9	53.5	55.0	52.0	53.0	53.4	61.3	49.0	54.0	54.0	60.0	52.0	55.0	49.3	51.3	55.7	49.0	54.7	52.0	53.6
3	Bajaura Popcorn	57.0	59.8	54.5	57.1	55.3	52.5	49.0	55.5	53.1	53.5	56.3	52.0	52.7	53.6	60.5	48.0	54.3	54.8	60.0	52.0	54.9	49.0	49.5	57.0	51.0	54.3	52.2	54.0
4	Bio 9631(Filler)	56.5	57.5	57.5	57.2	54.0	49.0	48.3	55.0	51.6	54.3	54.5	51.0	52.7	53.1	61.0	52.0	54.5	55.8	60.5	51.8	55.9	49.0	45.3	54.3	51.0	55.3	51.0	53.7
5	Bio 9637(Filler)	57.0	60.8	58.5	58.8	57.3	54.3	47.7	56.5	53.9	57.5	57.5	52.0	53.5	55.1	60.3	52.0	54.3	58.0	61.5	55.0	56.8	50.0	47.5	55.3	53.3	55.7	52.4	55.2
CHECKS																													
6	VL Amber Popcorn	56.0	57.0	58.5	57.2	54.3	50.0	48.7	54.8	51.9	53.5	53.3	49.0	54.0	52.4	60.3	49.0	54.8	53.3	59.0	53.5	55.0	49.3	50.5	54.0	49.3	55.0	51.6	53.5
	Loc. Mean	56.4	57.4	55.9	56.6	55.1	51.3	48.2	55.4	52.5	54.2	55.0	50.8	53.4	53.4	60.6	49.7	54.5	54.8	60.0	52.5	55.3	49.2	48.9	55.1	50.4	54.7	51.6	53.8
	C.D. (5%)	1.21	1.76	2.91	2.90	3.13	0.75	1.98	1.47	1.73	1.00	2.88	1.29	2.68	1.77	1.11	-	1.30	1.72	1.21	2.19	1.28	1.52	1.70	0.79	3.54	1.79	1.87	0.76
	C.V. (%)	1.42	2.04	2.03	2.82	3.77	0.96	2.26	1.76	2.18	1.23	3.47	1.39	2.76	2.20	1.22	-	1.58	2.08	1.34	2.77	1.94	1.70	2.31	0.79	3.86	1.80	2.74	2.36
	F (Prob)	0.21	0.00	0.01	0.06	0.32	0.00	0.61	0.08	0.06	0.00	0.06	0.00	0.65	0.06	0.28	-	0.61	0.00	0.00	0.01	0.01	0.34	0.00	0.00	0.13	0.08	0.39	0.00
DAYS TO 75% DRY HUSK																													
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L									
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	Mean	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND		Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean	
1	VL Popcorn 2	97.0	95.8	82.0	91.6	99.0	77.8	86.7	87.8	85.5	81.0	85.0	82.7	83.5	85.5	93.8	79.8	92.3	90.5	88.4	84.3	79.0	86.7	77.7	85.3	82.6	86.4		
2	VL Amber Popcorn (Filler)	99.0	95.5	83.0	92.5	99.5	79.8	87.7	89.0	90.5	83.0	88.0	85.3	86.7	88.0	94.3	81.0	90.8	91.0	89.0	85.3	80.8	89.3	78.3	86.0	84.0	87.8		
3	Bajaura Popcorn	97.0	97.5	84.0	92.8	97.3	83.3	87.3	89.3	87.5	81.5	87.7	83.3	85.0	85.3	88.5	81.5	93.0	91.0	87.9	86.3	80.0	88.3	79.0	85.7	83.9	87.2		
4	Bio 9631(Filler)	100.5	98.3	85.5	94.8	99.0	78.8	87.0	88.3	89.8	82.0	87.7	83.0	85.6	94.0	93.0	82.0	92.3	94.0	91.1	85.3	77.0	89.3	78.7	87.0	83.5	88.2		
5	Bio 9637(Filler)	103.5	99.8	86.5	96.6	98.5	81.8	86.3	88.9	94.5	83.5	88.0	83.5	87.4	94.3	93.8	84.3	92.5	94.5	91.9	90.3	76.5	90.0	81.0	87.0	85.0	89.5		
CHECKS																													
6	VL Amber Popcorn	97.5	96.8	86.5	93.6	99.5	79.8	88.0	89.1	90.5	82.8	85.0	85.7	86.0	88.0	94.3	79.5	92.0	91.0	89.0	86.3	81.3	87.3	77.0	87.3	83.9	87.8		
	Loc. Mean	99.1	97.3	84.6	93.6	98.8	80.2	87.2	88.7	89.7	82.3	86.9	83.9	85.7	89.2	92.9	81.3	92.1	92.0	89.5	86.3	79.1	88.5	78.6	86.4	83.8	87.8		
	C.D. (5%)	1.61	1.93	2.12	2.23	2.79	0.86	1.37	2.63	1.19	4.15	0.92	2.64	2.27	0.57	1.83	1.48	2.19	1.93	2.57	3.29	1.33	1.76	3.48	1.62	2.04	1.02		
	C.V. (%)	1.08	1.31	0.98	1.31	1.87	0.71	0.86	1.63	0.88	3.34	0.58	1.73	1.75	0.43	1.31	1.21	1.58	1.39	2.18	2.09	1.12	1.09	2.43	1.03	1.85	1.85		
	F (Prob)	0.00	0.00	0.01	0.01	0.55	0.00	0.15	0.80	0.00	0.79	0.00	0.13	0.04	0.00	0.00	0.00	0.41	0.00	0.02	0.03	0.00	0.01	0.26	0.09	0.33	0.00		

Table No. 29 (Continued)

		PLANT HEIGHT(cm)																											
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L					
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
1	VL Popcorn 2	185.0	195.0	96.5	158.8	144.3	127.5	180.0	180.0	157.9	124.2	128.9	166.0	140.0	139.8	124.5	147.0	177.3	155.0	138.8	186.5	154.8	164.9	180.6	185.0	147.3	183.3	172.2	157.2
2	VL Amber Popcorn (Filler)	190.0	198.3	109.0	165.8	157.5	106.3	175.0	164.5	150.8	118.9	131.3	167.5	125.0	135.7	128.0	164.3	188.3	162.5	148.8	191.0	163.8	173.6	191.6	180.0	146.7	176.7	173.7	158.8
3	Bajaura Popcorn	198.8	201.3	111.5	170.5	165.5	165.0	190.0	184.8	176.3	135.8	148.1	171.5	137.5	148.2	134.5	165.2	191.0	191.3	148.8	192.5	170.5	173.0	188.9	193.3	181.7	185.0	184.4	170.7
4	Bio 9631(Filler)	222.5	252.5	138.5	204.5	182.8	188.8	193.3	216.5	195.3	143.2	152.5	185.5	126.3	151.8	158.0	187.4	221.5	231.3	177.5	215.5	198.5	175.0	180.4	205.0	195.0	140.0	179.1	185.9
5	Bio 9637(Filler)	228.8	255.0	147.0	210.3	190.8	176.3	235.0	230.8	208.2	163.6	158.8	191.3	82.5	149.0	172.5	197.5	224.8	215.0	195.0	217.3	203.7	210.9	178.1	205.0	188.3	178.3	192.1	192.8
CHECKS																													
6	VL Amber Popcorn	182.5	180.0	94.5	152.3	146.5	170.0	208.3	173.3	174.5	134.5	121.1	180.9	130.0	141.6	126.5	161.8	175.0	153.8	147.5	174.5	156.5	189.9	173.1	185.0	162.3	171.7	176.4	161.0
Loc. Mean		201.3	213.7	116.2	177.0	164.5	155.6	196.9	191.6	177.2	136.7	140.1	177.1	123.5	144.4	140.7	170.5	196.3	184.8	159.4	196.2	174.6	181.2	182.1	192.2	170.2	172.5	179.7	171.1
C.D. (5%)		10.83	18.12	11.15	13.09	13.57	6.29	32.61	25.78	22.04	5.01	14.53	21.16	13.83	25.57	4.34	7.03	7.17	20.60	20.33	11.47	9.80	29.73	8.58	9.64	21.84	20.00	19.58	8.91
C.V. (%)		3.57	5.63	3.73	4.07	5.47	2.68	9.10	8.93	8.25	2.43	6.88	6.57	6.15	11.75	2.05	2.74	2.42	7.40	8.46	3.88	4.72	9.02	3.13	2.76	7.05	6.37	8.26	8.71
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.12	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.32	0.00	

		EAR HEIGHT(cm)																										
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L				
		ALMO	BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	Mean	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KOLH	MAND	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
1	VL Popcorn 2	86.3	96.3	49.5	77.3	73.3	60.0	91.7	66.0	72.7	46.1	54.4	79.7	68.8	62.2	59.5	77.2	73.3	56.3	92.5	71.7	55.9	80.4	80.0	57.0	76.7	67.4	70.0
2	VL Amber Popcorn (Filler)	98.8	101.3	61.0	87.0	84.8	52.5	88.3	68.5	73.5	48.3	55.8	82.7	57.5	61.0	68.5	83.5	87.0	68.8	92.0	80.0	65.3	97.9	90.0	64.3	83.3	75.7	75.1
3	Bajaura Popcorn	103.8	98.8	53.5	85.3	95.5	107.5	110.0	76.3	97.3	58.1	75.4	82.0	66.3	70.4	69.5	90.1	88.8	66.3	88.5	80.6	63.4	81.9	95.0	79.3	91.7	82.4	83.0
4	Bio 9631(Filler)	106.3	125.0	59.0	96.8	85.0	98.8	103.3	76.8	91.0	64.7	71.1	83.9	51.3	67.7	70.4	89.9	85.8	72.5	96.5	83.0	60.9	73.0	85.0	58.0	66.7	67.6	80.5
5	Bio 9637(Filler)	112.5	123.8	57.0	97.8	95.8	87.5	105.0	94.3	95.6	74.3	78.3	87.5	70.0	77.5	82.5	92.8	97.3	82.5	104.0	91.8	66.9	110.4	93.3	75.0	80.0	78.8	88.0
CHECKS																												
6	VL Amber Popcorn	90.0	87.5	41.5	73.0	75.5	88.8	120.0	64.5	87.2	53.9	46.5	90.0	55.0	61.3	64.0	81.1	74.0	70.0	79.0	73.6	66.5	80.6	93.3	62.7	78.3	75.2	74.1
Loc. Mean		99.6	105.4	53.6	86.2	85.0	82.5	103.1	74.4	86.2	57.5	63.6	84.3	61.5	66.7	69.1	85.8	84.3	69.4	92.1	80.1	63.1	87.4	89.4	66.1	79.4	74.5	78.5
C.D. (5%)		8.67	12.38	8.35	12.17	9.81	3.64	21.76	12.08	16.48	8.17	11.94	16.04	12.32	11.95	4.28	5.53	6.39	17.38	10.22	5.38	13.79	32.25	11.22	22.83	9.49	6.66	5.04
C.V. (%)		5.77	7.79	6.06	7.76	7.67	2.93	11.61	10.78	12.68	9.42	12.46	10.46	11.02	11.89	4.11	4.28	5.03	16.62	7.36	5.09	12.00	24.50	6.90	18.99	6.57	5.93	10.24
F (Prob)		0.00	0.00	0.01	0.01	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.73	0.03	0.06	0.00	0.00	0.00	0.11	0.00	0.00	0.50	0.20	0.09	0.25	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.&gt; 20%) : BANSWARA 24.5%



B297

Table No.30 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST				
		BAJA	BARA	KANG	UDHA	Mean	BAJA	BARA	KANG	UDHA	Mean	BAJA	BARA	KANG	UDHA	Mean	BAJA	BARA	KANG	UDHA	Mean
1	EHL 2912	61.3	69.0	56.5	48.3	58.8	63.7	70.0	59.0	53.0	61.4	104.0	118.0	98.0	95.0	103.8	21.9	27.0	27.2	26.5	25.6
2	EHL 3012	63.3	68.0	57.5	54.0	60.7	66.0	69.0	59.5	57.3	63.0	105.3	119.0	98.0	95.3	104.4	22.5	24.0	24.7	25.5	24.2
3	UDMH 101	61.7	59.0	53.5	56.3	57.6	64.3	60.0	56.5	60.7	60.4	104.3	118.0	96.0	94.7	103.3	22.4	23.5	23.3	26.0	23.8
4	PHM 12	62.0	64.5	54.0	52.3	58.2	64.7	65.5	56.5	55.7	60.6	105.7	118.0	95.5	94.0	103.3	21.6	26.0	25.1	26.3	24.7
5	UDMH 102	57.0	52.0	47.5	54.0	52.6	59.3	53.0	49.5	58.3	55.0	100.7	118.0	90.5	93.7	100.7	21.9	31.0	23.2	27.0	25.8
6	EHL 3112	63.3	65.0	58.0	54.0	60.1	65.7	66.0	60.5	57.7	62.5	106.7	118.0	99.0	95.0	104.7	23.3	24.5	26.1	27.0	25.2
7	EHL 3212	57.0	56.5	50.5	53.0	54.3	60.3	57.5	53.0	56.7	56.9	97.7	112.5	92.5	95.0	99.4	22.1	22.0	21.0	26.5	22.9
8	PHM11	59.7	60.0	52.5	51.0	55.8	62.0	61.0	56.5	54.3	58.5	103.7	118.0	95.5	94.3	102.9	21.6	26.5	24.6	27.0	24.9
9	UDMH 105	63.7	65.5	53.5	55.3	59.5	65.7	66.5	56.0	59.0	61.8	106.0	118.0	95.0	94.7	103.4	22.2	26.5	24.5	27.0	25.0
10	UDMH 104	64.0	71.0	65.0	53.7	63.4	66.3	72.0	68.5	58.0	66.2	108.7	118.5	103.0	95.0	106.3	22.8	24.0	27.8	26.5	25.3
11	EHL 3312	66.0	67.5	58.0	54.3	61.5	69.0	68.5	61.5	57.7	64.2	107.7	118.5	100.0	95.3	105.4	22.5	26.0	23.5	26.3	24.5
12	PHM 14	61.3	65.5	54.5	53.7	58.8	63.3	66.5	58.0	57.7	61.4	104.0	118.5	97.0	94.3	103.5	22.6	28.0	22.4	26.2	24.8
13	PHM34	59.7	59.5	52.5	54.0	56.4	61.7	60.5	54.5	58.0	58.7	100.7	118.0	94.5	95.0	102.0	22.4	24.5	23.6	27.0	24.4
14	EHL3412	64.7	66.0	58.0	52.7	60.3	67.0	67.0	61.5	56.7	63.0	107.0	117.5	100.0	95.3	105.0	22.6	27.5	25.8	27.5	25.8
15	UDMH 106	58.7	58.0	51.0	51.0	54.7	61.0	59.0	55.0	55.7	57.7	102.3	112.5	94.5	94.3	100.9	21.9	24.0	22.3	27.5	23.9
16	EHL 3512	65.0	65.0	56.0	53.0	59.8	68.3	66.0	58.0	56.7	62.3	105.3	118.0	97.0	95.0	103.8	22.5	28.0	24.5	25.8	25.2
17	EHL 3612	60.3	61.5	51.0	52.3	56.3	63.0	62.5	53.0	56.7	58.8	103.3	118.0	93.5	94.0	102.2	22.2	24.5	23.1	26.0	23.9
18	EHL 3712	60.0	59.0	52.0	51.7	55.7	62.0	60.0	54.5	54.7	57.8	102.3	118.0	94.5	93.7	102.1	21.1	22.0	21.5	26.0	22.7
19	EHL 3812	59.3	57.5	52.0	51.7	55.1	61.3	58.5	54.5	56.3	57.7	103.7	118.0	93.5	94.3	102.4	22.0	24.5	24.1	25.5	24.0
20	EHL 3912	66.0	66.0	57.0	53.3	60.6	69.0	67.0	60.5	57.3	63.5	107.7	119.0	99.5	95.0	105.3	22.7	25.0	22.8	27.0	24.4
21	EHL4012	59.0	57.0	52.0	50.0	54.5	61.0	58.0	54.5	55.0	57.1	100.3	118.0	94.0	94.3	101.7	21.5	23.5	21.5	27.0	23.4
CHECKS																					
22	Navjot	59.3	58.0	51.0	52.7	55.3	61.3	59.0	54.0	56.3	57.7	100.7	118.0	93.5	94.3	101.6	21.7	32.0	20.2	26.0	25.0
23	Local check	-	62.0	50.5	51.0	54.5	-	63.0	53.0	55.3	57.1	-	118.0	92.5	94.0	101.5	-	29.5	23.4	26.5	26.5
24	BIO 9637	64.0	64.0	54.5	54.3	59.2	67.0	65.0	57.0	58.7	61.9	106.3	118.0	96.0	95.3	103.9	23.6	26.0	29.2	26.0	26.2
	<b>Loc. Mean</b>	<b>59.0</b>	<b>62.4</b>	<b>54.1</b>	<b>52.8</b>	<b>57.6</b>	<b>61.4</b>	<b>63.4</b>	<b>56.9</b>	<b>56.8</b>	<b>60.2</b>	<b>99.8</b>	<b>117.7</b>	<b>96.0</b>	<b>94.6</b>	<b>103.1</b>	<b>21.3</b>	<b>25.8</b>	<b>24.0</b>	<b>26.5</b>	<b>24.7</b>
	C.D. (5%)	2.72	2.85	2.06	2.90	3.33	2.51	2.85	2.47	2.83	3.49	2.63	4.50	1.93	1.53	2.34	0.89	5.54	1.96	1.76	2.42
	C.V. (%)	2.80	2.21	1.84	3.34	4.10	2.49	2.17	2.10	3.03	4.11	1.60	1.85	0.97	0.98	1.61	2.53	10.37	3.95	4.03	6.96
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.50	0.00	0.00	0.08	0.00	0.61	0.20





B299

TABLE No.31

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS/ COMPOSITES AT ALMORA, BAJAURA, KANGRA, UDHAMPUR IN TRIAL No. 103 DURING KHARIF (2012)

SI.No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID 9						GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID 39							
	ALMO	R	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	ALMO	BAJA	BARA	KANG	UDHA	MEAN	ALMO	BAJA	BARA	KANG	UDHA	MEAN
1 FH 3639	9416	9	10803	12	4549	11	5808	15	7613	6	8410	10	3.9	1.8	-	-	11.2	1	-	19.5	-	-	8.1	5.6
2 FH 3644	10156	4	12414	2	4080	14	5898	12	6746	18	8804	7	12.1	17	-	-	-	5.7	6	37.3	-	-	-	10.6
3 FH 3646	8683	16	10138	16	2622	21	5682	16	6958	16	7865	17	-	-	-	-	1.6	-	-	12.1	-	-	-	-
4 FH 3648	9533	8	12152	3	3978	15	6665	6	7545	8	8974	4	5.2	14.5	-	-	10.2	7.8	-	34.4	-	7.7	7.2	12.7
5 FH 3650	10271	2	11248	7	1592	22	5860	14	6474	21	8464	9	13.4	6	-	-	-	1.6	7.3	24.4	-	-	-	6.3
6 FH 3653	9089	11	10303	15	7083	2	8576	1	7612	7	8895	6	0.3	-	19.1	26.3	11.2	6.8	-	14	-	38.6	8.1	11.7
7 FH 3659	10349	1	12620	1	3324	17	5193	20	7479	9	8910	5	14.2	19	-	-	9.2	7	8.1	39.6	-	-	6.2	11.9
8 FH 3660	8807	14	11103	8	4470	12	5579	17	6515	20	8001	14	-	4.7	-	-	-	-	-	22.8	-	-	-	0.5
9 KDM 72	6272	21	8605	20	3168	18	6758	4	7162	10	7199	20	-	-	-	-	4.6	-	-	-	-	9.2	1.7	-
10 EHL 2412	8806	15	11044	9	4312	13	5278	18	7834	4	8241	13	-	4.1	-	-	14.4	-	-	22.2	-	-	11.3	3.5
11 EHL 2812	9216	10	12017	4	5433	8	6425	9	8272	3	8983	3	1.7	13.3	-	-	20.8	7.9	-	32.9	-	3.9	17.5	12.8
12 EHL 2612	4471	22	8439	21	4741	9	4686	21	5147	22	5686	22	-	-	-	-	-	-	-	-	-	-	-	-
13 FH 3661	10175	3	10932	11	5702	6	5222	19	7618	5	8487	8	12.3	3.1	-	-	11.3	1.9	6.2	20.9	-	-	8.2	6.6
14 FH 3662	8990	13	9976	17	5562	7	5872	13	7054	13	7973	15	-	-	-	-	3	-	-	10.4	-	-	0.2	0.1
15 FH 3667	7955	17	11005	10	7044	3	4347	22	7045	14	7588	18	-	3.7	18.5	-	2.9	-	-	21.7	-	-	0.1	-
16 FH 3656	7549	18	10793	13	3105	19	6486	7	8361	2	8297	12	-	1.7	-	-	22.1	-	-	19.4	-	4.8	18.7	4.2
17 FH 3672	7161	19	8644	19	3072	20	5912	11	7116	11	7208	19	-	-	-	-	3.9	-	-	-	-	-	1.1	-
18 FH 3673	6280	20	7620	22	3764	16	6668	5	6533	19	6776	21	-	-	-	-	-	-	-	-	-	7.8	-	-
19 EHL 2512	9938	6	11982	5	4727	10	8477	2	7075	12	9368	1	9.7	12.9	-	24.8	3.3	12.5	3.8	32.5	-	37	0.5	17.7
20 EHL 2712	10149	5	11598	6	5983	4	6432	8	8365	1	9136	2	12	9.3	0.6	-	22.2	9.7	6	28.3	-	4	18.8	14.8
CHECKS																								
21 VIVEK HYBRID 9	9059	12	10608	14	5947	5	6791	3	6847	17	8326	11	-	-	-	-	-	-	-	17.3	-	9.8	-	4.6
22 VIVEK HYBRID 39	9577	7	9040	18	11752	1	6186	10	7041	15	7961	16	5.7	-	97.6	-	2.8	-	-	-	-	-	-	-
Location Mean	8723		10595		4819		6127		7201		8161													
Mean Stand	22		28		20		25		35		27													
C.D. (5%)	1012		1053		4085		857		846		942													
C.V. (%)	7.04		6.03		40.64		6.71		7.13		-													
F (Prob)	0		0		0.007		0		0		-													
Plot Size	3.6		3.6		2.5		3.6		4.8		-													
AGRONOMY DATA																								
Sowing Date	10-07		18-06		5-06		12-06		11-07		-													
Harvest Date	7-11		10-10		15-09		22-09		18-10		-													
Irrigation Nos	-		3		-		-		-		-													
Fertilizer Applied N	80		120		80		120		80		-													
Fertilizer Applied P	60		60		60		60		60		-													
Fertilizer Applied K	40		40		40		40		40		-													

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): BARA 40.6 %

## B300

Table No.31 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 50% POLLEN SHED					DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST								
		ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean
1	FH 3639	51.3	59.0	61.0	48.5	55.0	55.0	50.7	57.0	60.0	45.5	52.0	53.0	98.3	96.7	102.0	87.5	95.0	95.9	23.3	22.6	23.0	19.3	25.3	22.7
2	FH 3644	53.0	59.0	58.5	55.0	53.7	55.8	52.3	57.0	57.5	53.5	51.0	54.3	101.3	99.7	102.0	94.0	96.3	98.7	25.4	23.1	30.5	26.0	25.1	26.0
3	FH 3646	52.3	58.7	61.0	53.5	53.3	55.8	53.0	56.3	60.0	52.0	49.7	54.2	109.3	99.0	102.0	92.5	96.0	99.8	26.9	24.5	21.5	24.3	24.9	24.4
4	FH 3648	53.7	59.7	57.0	48.0	52.0	54.1	53.0	57.7	56.0	45.0	49.3	52.2	95.7	95.7	102.0	86.5	95.3	95.0	23.5	23.3	22.5	21.7	23.7	22.9
5	FH 3650	52.3	58.0	59.0	55.5	53.3	55.6	51.3	55.3	58.0	52.5	49.7	53.4	96.3	97.0	102.0	94.0	95.7	97.0	23.3	21.7	27.0	24.2	25.4	24.3
6	FH 3653	52.7	61.0	56.5	56.0	53.0	55.8	52.0	58.3	55.5	54.0	50.0	54.0	99.7	100.7	102.0	94.0	95.0	98.3	24.2	23.7	25.5	17.6	25.3	23.3
7	FH 3659	53.0	57.3	55.5	54.5	53.3	54.7	52.0	54.7	54.5	52.0	49.7	52.6	95.0	95.3	101.0	93.5	94.7	95.9	22.9	23.1	24.0	22.4	25.1	23.5
8	FH 3660	52.0	58.0	58.0	55.5	52.7	55.2	50.3	55.3	57.0	52.0	48.7	52.7	97.3	93.7	103.0	94.5	95.3	96.8	21.9	23.0	28.0	25.8	25.1	24.8
9	KDM 72	54.0	58.7	57.0	56.0	54.0	55.9	53.0	56.3	56.0	53.0	50.7	53.8	99.7	96.3	102.0	95.0	94.3	97.5	23.7	23.0	24.5	21.5	25.5	23.6
10	EHL 2412	54.3	58.7	55.5	55.0	55.3	55.8	53.3	56.3	54.5	53.0	52.3	53.9	96.3	94.0	102.0	93.5	94.7	96.1	22.0	22.5	22.5	21.7	24.0	22.5
11	EHL 2812	56.3	60.7	62.0	57.0	55.7	58.3	54.7	58.0	61.0	54.0	51.7	55.9	104.3	99.7	102.0	95.5	95.3	99.4	28.4	24.2	27.5	19.8	24.9	25.0
12	EHL 2612	56.3	62.0	62.5	58.5	55.7	59.0	55.7	59.3	61.5	55.5	53.3	57.1	105.3	103.3	102.0	96.0	96.0	100.5	25.9	23.1	25.0	20.4	26.0	24.1
13	FH 3661	53.3	57.3	58.0	52.0	54.0	54.9	52.3	55.0	57.0	49.5	50.0	52.8	95.7	94.3	102.0	91.0	94.3	95.5	24.4	23.1	28.0	23.2	24.8	24.7
14	FH 3662	52.0	56.7	54.0	53.0	52.0	53.5	50.7	54.3	53.0	51.0	47.7	51.3	97.0	92.3	102.0	92.0	94.3	95.5	22.0	23.8	27.5	21.9	25.2	24.1
15	FH 3667	53.3	58.3	58.0	58.5	54.0	56.4	52.7	55.7	57.0	55.5	50.0	54.2	106.7	102.7	102.0	96.0	95.3	100.5	24.9	22.3	23.0	23.1	24.6	23.6
16	FH 3656	53.0	57.3	53.5	55.5	51.7	54.2	51.7	54.3	52.5	53.0	48.3	52.0	98.0	92.3	102.0	94.0	94.3	96.1	22.6	22.2	24.0	21.1	23.6	22.7
17	FH 3672	49.3	52.3	50.0	48.0	48.0	49.5	48.7	50.3	49.0	45.5	44.7	47.6	94.7	91.3	102.0	87.0	95.0	94.0	20.6	21.6	23.5	20.9	22.8	21.9
18	FH 3673	50.0	53.7	52.0	50.5	49.0	51.0	49.0	51.3	51.0	48.0	45.0	48.9	93.3	91.7	102.0	89.0	94.7	94.1	18.0	22.3	23.5	21.7	24.3	21.9
19	EHL 2512	54.7	59.3	56.0	55.0	55.7	56.1	53.7	56.7	55.0	52.5	51.7	53.9	101.7	99.0	102.0	94.0	95.3	98.4	23.8	22.8	25.0	21.8	25.0	23.7
20	EHL 2712	53.3	59.0	57.0	54.5	55.0	55.8	52.3	56.0	56.0	52.0	50.3	53.3	97.0	93.7	101.5	94.5	95.3	96.4	26.4	22.1	22.0	18.8	23.2	22.5
CHECKS																									
21	VIVEK HYBRID 9	50.3	53.3	55.5	49.5	52.7	52.3	49.7	50.7	54.5	47.0	49.0	50.2	95.3	94.3	102.0	88.5	95.3	95.1	21.7	20.2	24.0	19.6	23.8	21.8
22	VIVEK HYBRID 39	53.3	57.7	54.0	54.5	54.0	54.7	52.3	55.0	53.0	52.0	50.0	52.5	101.7	99.7	101.0	93.5	95.0	98.2	24.2	22.8	24.5	20.5	26.0	23.6
	Loc. Mean	52.9	58.0	56.9	53.8	53.3	55.0	52.0	55.5	55.9	51.3	49.8	52.9	99.1	96.5	101.9	92.5	95.1	97.0	23.6	22.8	24.8	21.7	24.7	23.5
	C.D. (5%)	1.10	2.07	1.72	3.33	1.80	2.03	1.15	2.21	1.72	2.87	1.99	2.06	2.19	2.55	1.14	2.25	1.39	2.89	1.71	1.15	5.81	3.66	1.38	2.07
	C.V. (%)	1.27	2.16	1.45	2.98	2.05	2.94	1.34	2.41	1.48	2.69	2.43	3.10	1.34	1.61	0.54	1.17	0.89	2.36	4.40	3.07	11.24	8.13	3.38	7.00
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.19	0.00	0.00	0.00	0.23	0.01	0.00	0.01

## B301

Table No.31 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %						STAND AT HARVEST ('000/ha)						PLANT HEIGHT(cm)						EAR HEIGHT(cm)					
		ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean
1	FH 3639	81.6	83.7	81.8	81.4	77.9	81.3	63.9	76.9	102.0	66.7	75.7	77.0	210.0	190.0	152.0	220.5	165.7	187.6	100.0	98.3	69.0	103.0	63.3	86.7
2	FH 3644	84.9	85.2	77.8	82.2	74.7	81.0	63.0	80.6	104.0	70.8	73.6	78.4	210.0	203.3	154.0	221.0	174.3	192.5	100.0	101.7	73.5	112.5	66.7	90.9
3	FH 3646	85.0	84.6	76.9	81.8	74.9	80.6	64.8	72.2	56.0	66.7	77.1	67.4	216.7	190.0	138.8	203.5	184.9	186.8	106.7	96.7	66.3	96.5	80.4	89.3
4	FH 3648	85.1	86.9	79.0	83.7	81.9	83.3	63.9	82.4	58.0	68.1	77.1	69.9	201.7	186.7	129.5	211.0	172.3	180.2	96.7	85.0	55.0	97.0	60.1	78.8
5	FH 3650	79.5	82.9	76.9	81.4	77.6	79.7	62.0	74.1	82.0	65.3	77.1	72.1	211.7	193.3	140.0	205.0	180.7	186.1	100.0	90.0	63.0	104.5	63.3	84.2
6	FH 3653	81.5	80.9	76.5	81.1	75.9	79.2	62.0	82.4	102.0	70.8	75.7	78.6	213.3	195.0	149.0	222.5	200.5	196.1	103.3	83.3	71.5	113.5	76.4	89.6
7	FH 3659	84.6	86.9	78.1	83.8	81.7	83.0	61.1	75.9	84.0	63.9	77.1	72.4	201.7	185.0	140.5	202.0	162.3	178.3	96.7	91.7	65.0	100.5	58.3	82.4
8	FH 3660	83.3	83.2	79.6	83.4	78.5	81.6	64.8	74.1	90.0	69.4	77.8	75.2	203.3	183.3	153.8	193.0	164.7	179.6	96.7	85.0	68.3	106.5	61.1	83.5
9	KDM 72	84.7	86.1	78.6	84.5	78.1	82.4	59.3	76.9	60.0	68.1	71.5	67.1	211.7	181.7	161.5	216.0	191.7	192.5	108.3	88.3	84.5	110.5	80.2	94.4
10	EHL 2412	84.9	86.9	80.8	82.4	76.3	82.2	63.0	75.9	78.0	65.3	72.2	70.9	211.7	190.0	168.5	188.5	176.3	187.0	110.0	96.7	80.5	99.0	73.1	91.8
11	EHL 2812	85.4	85.5	76.6	82.9	81.2	82.3	64.8	79.6	110.0	66.7	72.9	78.8	213.3	206.7	169.5	215.5	203.7	201.7	110.0	75.0	88.5	117.5	76.8	93.6
12	EHL 2612	81.2	85.5	77.9	81.2	80.6	81.3	58.3	75.0	40.0	69.4	67.4	62.0	200.0	181.7	150.8	181.0	148.5	172.4	93.3	76.7	61.6	95.5	58.1	77.0
13	FH 3661	83.1	84.7	76.8	84.0	75.2	80.8	64.8	86.1	72.0	69.4	68.1	72.1	205.0	193.3	154.5	199.5	178.9	186.2	93.3	90.0	65.5	87.0	60.7	79.3
14	FH 3662	83.0	83.1	81.0	82.1	73.6	80.5	60.2	78.7	66.0	65.3	69.4	67.9	203.3	208.3	157.0	214.0	166.1	189.7	91.7	93.3	77.0	93.5	62.4	83.6
15	FH 3667	82.0	84.8	82.5	78.2	78.1	81.1	61.1	82.4	90.0	66.7	72.9	74.6	196.7	170.0	145.5	187.0	188.2	177.5	96.7	80.0	69.5	94.0	72.6	82.6
16	FH 3656	84.6	85.5	78.1	80.3	78.4	81.4	65.7	68.5	94.0	73.6	74.3	75.2	196.7	186.7	155.5	216.5	163.3	183.7	98.3	91.7	74.0	115.5	66.6	89.2
17	FH 3672	85.9	81.0	75.6	84.2	79.4	81.2	53.7	68.5	56.0	69.4	61.8	61.9	198.3	188.3	162.5	205.0	184.0	187.6	91.7	85.0	64.3	98.5	59.5	79.8
18	FH 3673	83.3	85.6	77.8	82.1	77.8	81.3	57.4	76.9	70.0	70.8	70.8	69.2	201.7	180.0	155.5	197.0	153.9	177.6	95.0	80.0	58.0	96.5	53.1	76.5
19	EHL 2512	84.7	88.5	78.9	81.1	76.4	81.9	60.2	80.6	112.0	76.4	76.4	81.1	225.0	210.0	174.5	215.0	205.3	206.0	110.0	105.0	84.0	108.5	80.9	97.7
20	EHL 2712	87.1	88.7	80.4	83.4	82.0	84.3	61.1	80.6	102.0	66.7	73.6	76.8	205.0	178.3	160.0	208.0	178.2	185.9	108.3	101.7	83.5	110.0	78.0	96.3
CHECKS																									
21	VIVEK HYBRID 9	85.5	85.5	77.5	82.1	74.1	80.9	63.0	77.8	50.0	65.3	66.7	64.5	211.7	193.3	154.8	210.0	162.9	186.5	96.7	71.7	75.5	93.5	61.7	79.8
22	VIVEK HYBRID 39	85.3	84.1	78.7	81.4	78.9	81.7	63.0	75.0	60.0	70.8	63.2	66.4	198.3	166.7	164.5	220.0	153.2	180.5	91.7	71.7	66.0	116.0	55.6	80.2
	Loc. Mean	83.9	85.0	78.5	82.2	77.8	81.5	61.9	77.3	79.0	68.4	72.4	71.8	206.7	189.2	154.2	206.9	175.4	186.5	99.8	88.1	71.1	103.2	66.8	85.8
	C.D. (5%)	0.94	0.00	3.91	3.66	3.52	2.27	7.47	7.51	31.15	7.01	8.09	11.97	11.05	17.13	35.99	13.67	23.83	12.24	9.70	27.75	20.81	11.20	12.11	8.08
	C.V. (%)	0.68	0.00	2.39	2.14	2.74	2.21	7.33	5.90	18.96	4.92	6.78	13.26	3.24	5.49	11.22	3.18	8.24	5.22	5.90	19.12	14.08	5.22	11.00	7.49
	F (Prob)	0.00	0.00	0.08	0.21	0.00	0.01	0.28	0.00	0.00	0.14	0.00	0.04	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.48	0.13	0.00	0.00	0.00

## B302

TABLE No.32

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS/COMPOSITES AT DELHI, KARNAL, LUDHIANA IN ZONAL TRIAL No. 201 DURING KHARIF (2012)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE							GRAIN YIELD % SUPERIORITY OVER MAHARAJA				GRAIN YIELD % SUPERIORITY OVER AJANTA				
		DELH	R	KARN	R	LUDH	R	MEAN	R	DELH	KARN	LUDH	MEAN	DELH	KARN	LUDH	MEAN
1	DMR-20133	3480	12	5399	12	5635	12	5517	12	-	-	-	-	-	-	-	-
2	DMR-20134	6277	4	6512	6	6484	6	6498	6	3.3	0.8	-	-	-	-	-	-
3	DMR-20135	5631	11	6365	8	6139	9	6252	8	-	-	-	-	-	-	-	-
4	DMR-20136	5930	8	6525	5	6789	5	6657	5	-	1	-	-	-	-	-	-
5	DMR-20137	7732	1	6278	10	6066	10	6172	10	27.3	-	-	-	15	-	-	-
6	DMR-20138	5966	7	1024	13	2935	13	1979	13	-	-	-	-	-	-	-	-
7	DMR-20139	6505	3	6314	9	6466	7	6390	7	7.1	-	-	-	-	-	-	-
8	DMR-20140	5874	9	6834	1	9975	1	8405	1	-	5.8	25.6	16.7	-	2.9	17.8	11.3
9	DMR-20141	-	-	6545	3	8993	2	7769	2	-	1.3	13.2	7.9	-	-	6.2	2.9
10	DMR-20142	5820	10	6077	11	6414	8	6246	9	-	-	-	-	-	-	-	-
11	DMR-20143	6262	5	6530	4	5685	11	6108	11	3.1	1.1	-	-	-	-	-	-
CHECKS																	
12	MAHARAJA	6075	6	6461	7	7942	4	7201	4	-	-	-	-	-	-	-	-
13	AJANTA	6721	2	6641	2	8466	3	7553	3	10.6	2.8	6.6	4.9	-	-	-	-
Location Mean		6023		5962		6768		6365									
Mean Stand		22		33		36		35									
C.D. (5%)		2376		924		1457		1191									
C.V. (%)		23.24		9.18		12.75		-									
F (Prob)		0.202		0		0											
Plot Size		6		6		5.46		-									
AGRONOMY DATA																	
Sowing Date		9-07		13-07		28-07		-									
Harvest Date		10-11		20-10		30-10		-									
Irrigation Nos		-		4		3		-									
Fertilizer Applied N		120		150		120		-									
Fertilizer Applied P		60		60		60		-									
Fertilizer Applied K		40		60		-		-									

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.&gt; 20%) : DELH 23.2 %

## B303

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	Mean	DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	DELH	KARN	LUDH	Mean
1	DMR-20133	48.0	57.0	47.0	50.7	50.3	59.0	47.7	52.3	95.7	86.3	91.0	30.4	29.8	31.8	30.7
2	DMR-20134	50.0	52.7	47.0	49.9	53.3	55.0	48.0	52.1	93.3	86.3	89.8	26.6	30.5	36.6	31.2
3	DMR-20135	49.7	56.0	48.7	51.4	53.7	58.0	49.7	53.8	95.0	86.7	90.8	27.1	31.6	30.8	29.8
4	DMR-20136	53.3	55.0	50.0	52.8	57.3	57.0	51.7	55.3	95.7	88.7	92.2	26.9	30.8	38.3	32.0
5	DMR-20137	50.0	56.0	50.3	52.1	54.0	58.0	51.0	54.3	96.0	89.7	92.8	26.4	31.4	38.3	32.0
6	DMR-20138	50.3	54.7	49.3	51.4	55.3	57.0	50.3	54.2	94.0	86.7	90.3	27.3	30.9	34.1	30.8
7	DMR-20139	50.0	52.7	46.0	49.6	53.7	54.7	47.7	52.0	93.7	87.7	90.7	27.3	32.6	37.0	32.3
8	DMR-20140	51.3	52.0	51.0	51.4	55.7	54.0	52.3	54.0	93.7	90.3	92.0	31.3	30.4	39.7	33.8
9	DMR-20141	-	53.3	49.3	51.3	-	55.3	49.3	52.3	95.3	88.0	91.7	-	30.6	38.4	34.5
10	DMR-20142	50.0	54.0	49.7	51.2	54.0	56.0	50.0	53.3	94.3	89.0	91.7	30.5	29.7	37.1	32.4
11	DMR-20143	50.0	53.0	47.3	50.1	54.0	55.0	48.0	52.3	95.0	87.7	91.3	26.3	17.6	39.7	27.8
CHECKS																
12	MAHARAJA	49.0	51.7	48.7	49.8	53.3	54.0	49.0	52.1	94.0	87.3	90.7	-	28.6	38.5	33.5
13	AJANTA	50.0	51.3	48.3	49.9	55.7	53.3	48.3	52.4	93.0	90.0	91.5	-	30.7	37.4	34.1
	Loc. Mean	50.1	53.8	48.7	50.9	54.2	55.9	49.5	53.1	94.5	88.0	91.3	28.0	29.6	36.7	31.9
	C.D. (5%)	3.61	1.39	1.22	2.41	4.70	1.21	1.78	2.65	1.53	1.34	2.74	-	6.57	1.73	5.50
	C.V. (%)	4.09	1.54	1.48	2.81	4.92	1.29	2.13	2.96	0.96	0.90	1.38	-	13.17	2.80	10.22
	F (Prob)	0.37	0.00	0.00	0.21	0.32	0.00	0.00	0.21	0.00	0.00	0.61	0.00	0.02	0.00	0.49
CHECKS																
GRAIN SHELLING %																
S.No.	PEDIGREE	GRAIN SHELLING %				STAND AT HARVEST ('000/ha)				PLANT HEIGHT(cm)			EAR HEIGHT(cm)			
		KARN				DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	KARN	LUDH	Mean	
1	DMR-20133	67.2				41.1	57.2	70.8	56.4	116.7	175.0	145.8	71.7	83.3	77.5	
2	DMR-20134	65.0				37.2	56.7	61.1	51.6	125.0	140.0	132.5	81.7	85.0	83.3	
3	DMR-20135	65.1				37.8	57.8	59.8	51.8	148.3	178.3	163.3	80.0	100.0	90.0	
4	DMR-20136	67.0				36.1	56.1	67.8	53.3	195.0	210.0	202.5	106.7	115.0	110.8	
5	DMR-20137	67.9				35.6	55.0	69.6	53.4	156.7	211.7	184.2	68.3	110.0	89.2	
6	DMR-20138	66.1				24.4	38.3	63.5	42.1	171.7	151.7	161.7	95.7	75.0	85.3	
7	DMR-20139	64.8				38.9	56.1	68.4	54.5	176.7	178.3	177.5	91.7	93.3	92.5	
8	DMR-20140	68.5				33.9	59.4	69.6	54.3	173.3	242.7	208.0	85.0	136.7	110.8	
9	DMR-20141	65.3				-	57.8	69.6	63.7	168.3	218.3	193.3	90.0	105.0	97.5	
10	DMR-20142	66.6				32.8	57.2	56.8	48.9	200.0	178.3	189.2	91.7	85.0	88.3	
11	DMR-20143	68.2				34.4	57.8	62.3	51.5	170.0	191.7	180.8	71.7	86.7	79.2	
CHECKS																
12	MAHARAJA	64.5				38.9	58.3	62.9	53.4	150.0	218.3	184.2	60.0	115.0	87.5	
13	AJANTA	68.4				43.3	56.7	67.8	55.9	158.3	212.7	185.5	75.0	103.3	89.2	
	Loc. Mean	66.5				36.2	55.7	65.4	53.1	162.3	192.8	177.6	82.2	99.5	90.9	
	C.D. (5%)	0.53				12.42	12.66	5.79	9.10	10.38	23.89	48.57	14.45	13.48	34.17	
	C.V. (%)	0.47				19.47	13.48	5.26	10.16	3.79	7.35	12.55	10.43	8.04	17.26	
	F (Prob)	0.00				0.25	0.18	0.00	0.03	0.00	0.00	0.15	0.00	0.00	0.60	





Table No. 33 (Cont..)

S.No.	GRAIN SHELLING %		STAND AT HARVEST ('000/ha)				PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
	PEDIGREE	KARN	DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	KARN	LUDH	Mean
1	DMR - 202144	69.1	33.3	58.3	51.3	54.8	166.7	185.0	175.8	83.3	90.0	86.7
2	DMR - 202145	65.4	41.7	59.4	61.7	60.6	148.3	186.7	167.5	90.0	110.0	100.0
3	DMR - 202146	64.1	39.4	54.4	63.5	59.0	168.3	194.7	181.5	101.7	90.0	95.8
4	DMR - 202147	66.9	42.8	57.8	72.6	65.2	156.7	211.3	184.0	83.3	106.7	95.0
5	DMR - 202148	67.8	37.8	58.3	68.4	63.4	155.0	211.7	183.3	90.0	128.3	109.2
6	DMR - 202149	68.5	28.3	55.0	65.3	60.2	158.3	170.3	164.3	75.0	85.0	80.0
7	DMR - 202150	65.3	33.9	57.2	71.4	64.3	160.0	228.3	194.2	95.0	128.3	111.7
8	DMR - 202151	68.6	39.4	55.0	69.6	62.3	180.0	230.0	205.0	90.0	130.0	110.0
9	DMR - 202152	66.3	30.0	56.7	65.9	61.3	170.0	228.3	199.2	90.0	133.3	111.7
10	DMR - 202153	66.3	32.8	54.4	64.1	59.3	155.0	241.7	198.3	101.7	130.0	115.8
11	DMR - 202154	68.3	38.9	56.7	67.2	61.9	195.0	232.7	213.8	103.3	123.3	113.3
12	DMR - 202155	64.5	43.3	58.9	64.1	61.5	135.0	209.0	172.0	66.7	108.3	87.5
13	DMR - 202156	68.0	22.2	54.4	66.5	60.5	156.7	218.3	187.5	76.7	118.3	97.5
	CHECKS											
14	VARDAN	64.7	43.9	37.8	1.8	19.8	136.7	-	136.7	46.7	-	46.7
15	KOHINOOR	68.0	42.8	55.0	51.3	53.1	145.0	166.0	155.5	73.3	60.0	66.7
	Loc. Mean	66.8	36.7	55.3	60.3	57.8	159.1	194.3	181.2	84.4	102.8	95.2
	C.D. (5%)	0.26	17.48	13.34	6.86	19.73	6.39	24.66	37.74	7.93	15.43	29.34
	C.V. (%)	0.23	28.48	14.42	6.80	15.92	2.40	7.59	9.71	5.61	8.97	14.37
	F (Prob)	0.00	0.38	0.30	0.00	0.03	0.00	0.00	0.04	0.00	0.00	0.01

Locations Rejected due to High C.V.(i.e.>  
20%) : DELHI 28.5%



## B307

TABLE No.34  
PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS/ COMPOSITES AT KARNAL, LUDHIANA IN ZONAL TRIAL No. 203 DURING  
KHARIF (2012)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER				GRAIN YIELD % SUPERIORITY OVER VARDAN			
		DELH	R	KARN	R	LUDH	R	MEAN	R	DELH	KARN	LUDH	MEAN	DELH	KARN	LUDH	MEAN
1	DMR - 203157	5967	4	5479	3	6650	2	6064	1	-	24.3	6.9	14.1	2	-	-	0.1
2	DMR - 203158	6811	1	3187	11	4922	10	4054	11	1.5	-	-	-	16.4	-	-	-
3	DMR - 203159	5471	10	5013	5	5059	9	5036	10	-	13.7	-	-	-	-	-	-
4	DMR - 203160	4385	11	4794	6	6510	3	5652	5	-	8.7	4.7	6.4	-	-	-	-
5	DMR - 203161	5892	6	4793	7	5817	7	5305	8	-	8.7	-	-	0.7	-	-	-
6	DMR - 203162	5778	8	5443	4	6240	4	5842	4	-	23.4	0.4	9.9	-	-	-	-
7	DMR - 203163	5896	5	4744	8	5446	8	5095	9	-	7.6	-	-	0.8	-	-	-
8	DMR - 203164	6145	3	5791	2	6226	5	6008	3	-	31.3	0.1	13.1	5	-	-	-
9	DMR - 203165	5704	9	3888	10	7193	1	5541	6	-	-	15.7	4.3	-	-	-	-
CHECKS																	
10	KOHINOOR	6709	2	4409	9	6219	6	5314	7	-	-	-	-	14.7	-	-	-
11	VARDAN	5850	7	6060	1	-	-	6060	2	-	37.4	-	14	-	-	-	-
Location Mean		5874		4873		6028		5450									
Mean Stand		25		34		38		36									
C.D. (5%)		2055		347		1305		826									
C.V. (%)		20.47		4.16		12.57		-									
F (Prob)		0.518		0		0.035											
Plot Size		6		6		5.46		-									
AGRONOMY DATA																	
Sowing Date		9-07		13-07		28-07		-									
Harvest Date		10-11		10-08		29-10		-									
Irrigation Nos		-		4		3		-									
Fertilizer Applied N		120		150		120		-									
Fertilizer Applied P		60		60		60		-									
Fertilizer Applied K		40		60		-		-									

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

## B308

Table No. 34 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST			
		DELH	KARN	LUDH	Mean	DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	DELH	KARN	LUDH	Mean
1	DMR - 203157	47.0	50.3	45.0	47.4	52.3	52.3	45.7	50.1	83.0	84.0	83.5	24.1	30.5	28.8	27.8
2	DMR - 203158	48.3	51.3	45.7	48.4	52.7	53.7	47.3	51.2	85.0	85.7	85.3	24.0	30.7	32.5	29.1
3	DMR - 203159	46.7	51.0	46.0	47.9	52.3	53.0	47.3	50.9	85.0	85.7	85.3	27.6	30.8	32.1	30.2
4	DMR - 203160	49.3	51.7	47.7	49.6	53.3	53.7	49.3	52.1	85.3	87.3	86.3	27.3	29.9	32.7	30.0
5	DMR - 203161	47.0	51.3	46.7	48.3	51.7	53.3	48.3	51.1	85.0	87.7	86.3	27.4	30.0	30.7	29.3
6	DMR - 203162	48.0	50.7	47.0	48.6	52.7	52.7	48.3	51.2	84.3	85.7	85.0	27.3	30.0	29.8	29.0
7	DMR - 203163	48.3	50.0	45.3	47.9	53.0	52.0	46.3	50.4	85.0	81.3	83.2	21.9	31.4	29.3	27.5
8	DMR - 203164	49.3	51.3	47.3	49.3	53.0	53.3	49.0	51.8	86.0	87.3	86.7	23.4	30.8	37.9	30.7
9	DMR - 203165	50.0	53.7	46.7	50.1	54.0	55.7	48.0	52.6	87.7	86.3	87.0	30.9	29.9	34.1	31.6
CHECKS																
10	KOHINOOR	51.3	52.3	47.0	50.2	55.3	54.3	47.7	52.4	86.7	86.7	86.7	30.7	29.8	37.4	32.6
11	VARDAN	50.7	52.3	-	51.5	54.3	54.3	-	54.3	85.3	-	85.3	29.3	29.7	-	29.5
	Loc. Mean	48.7	51.5	42.2	49.0	53.2	53.5	43.4	51.7	85.3	78.0	85.5	26.7	30.3	29.5	29.7
	C.D. (5%)	3.02	2.12	1.13	1.68	2.58	2.14	1.37	2.12	1.87	0.88	2.72	0.00	0.55	2.24	4.23
	C.V. (%)	3.64	2.42	1.58	2.01	2.85	2.35	1.85	2.41	1.29	0.67	1.43	0.00	1.07	4.46	8.35
	F (Prob)	0.06	0.08	0.00	0.00	0.23	0.08	0.00	0.03	0.01	0.00	0.12	0.00	0.00	0.00	0.40
CHECKS																
GRAIN SHELLING %																
S.No.	PEDIGREE	KARN	STAND AT HARVEST ('000/ha)				PLANT HEIGHT(cm)			EAR HEIGHT(cm)						
			DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	KARN	LUDH	Mean				
1	DMR - 203157	67.5	41.1	58.3	67.8	55.7	178.3	141.7	160.0	100.0	90.0	95.0				
2	DMR - 203158	68.3	43.3	58.3	70.8	57.5	153.3	163.3	158.3	60.0	98.3	79.2				
3	DMR - 203159	68.9	38.9	58.9	73.9	57.2	145.0	177.7	161.3	80.0	116.7	98.3				
4	DMR - 203160	65.1	41.7	57.8	72.6	57.4	156.7	171.7	164.2	58.3	98.3	78.3				
5	DMR - 203161	65.4	43.9	55.6	69.6	56.3	166.7	176.7	171.7	93.3	105.0	99.2				
6	DMR - 203162	66.2	47.2	55.0	69.0	57.1	130.0	186.7	158.3	61.7	110.0	85.8				
7	DMR - 203163	67.9	41.7	57.2	68.4	55.8	145.0	151.7	148.3	70.0	78.3	74.2				
8	DMR - 203164	68.3	42.8	57.2	69.0	56.3	160.0	188.3	174.2	90.0	100.0	95.0				
9	DMR - 203165	65.6	44.4	55.6	65.3	55.1	145.0	173.3	159.2	61.7	106.7	84.2				
CHECKS																
10	KOHINOOR	66.0	36.1	53.3	63.5	51.0	145.0	153.3	149.2	75.0	88.3	81.7				
11	VARDAN	68.2	33.3	57.2	-	45.3	168.3	-	168.3	81.7	-	81.7				
	Loc. Mean	67.0	41.3	56.8	69.0	55.0	153.9	153.1	161.2	75.6	90.2	86.6				
	C.D. (5%)	0.57	9.48	3.91	9.97	7.34	8.12	24.73	36.81	4.45	18.17	31.70				
	C.V. (%)	0.50	13.47	4.04	8.03	7.84	3.10	9.48	10.25	3.45	11.83	16.43				
	F (Prob)	0.00	0.21	0.16	0.52	0.06	0.00	0.00	0.86	0.00	0.00	0.66				

B309

TABLE No. 35

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS/COMPOSITES AT DELHI, KARNAL, LUDHIANA IN ZONAL TRIAL No. 204 DURING KHARIF(2012)

SI.N PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE KOHINOOR						GRAIN YIELD % SUPERIORITY OVER THE PEEHM-5								
	DELH	R	KARN	R	LUDH	R	MEAN	R	DELH	R	KARN	R	LUDH	R	MEAN	DELH	R	KARN	R	LUDH	R	MEAN	
1 DMR - 204166	5330	9	5366	1	6085	4	5726	1	-	50.2	-	13.2	-	43.2	1.8	17.7							
2 DMR - 204167	6120	1	5292	2	4352	12	4822	9	8.2	48.1	-	-	0.7	41.2	-	-							
3 DMR - 204168	5093	11	4047	6	5747	8	4897	7	-	13.3	-	-	-	8	-	0.7							
4 DMR - 204169	4922	12	4744	3	5397	10	5071	4	-	32.8	-	0.3	-	26.6	-	4.3							
5 DMR - 204170	6024	3	4598	4	5654	9	5126	3	6.5	28.7	-	1.4	-	22.7	-	5.4							
6 DMR - 204171	5805	4	3081	12	6745	2	4913	6	2.6	-	3.1	-	-	-	12.8	1							
7 DMR - 204172	5454	8	3138	11	5912	6	4525	11	-	-	-	-	-	-	-	-							
8 DMR - 204173	5709	6	4359	5	6994	1	5677	2	0.9	22	6.9	12.3	-	16.3	17	16.7							
9 DMR - 204174	5239	10	3464	9	5885	7	4675	10	-	-	-	-	-	-	-	-							
10 DMR - 204175	5795	5	3366	10	5297	11	4331	12	2.4	-	-	-	-	-	-	-							
CHECKS																							
11 KOHINOOR	5658	7	3573	8	6540	3	5056	5	-	-	-	-	-	-	9.4	4							
12 PEEHM-5	6080	2	3749	7	5978	5	4863	8	7.5	4.9	-	-	-	-	-	-							
Location Mean	5602		4065		5882		4973																
Mean Stand	48		34		36		35																
C.D. (5%)	1997		619		913		766																
C.V. (%)	20.99		8.97		9.14		-																
F (Prob)	0.955		0		0.005																		
Plot Size	6		6		5.46		-																
AGRONOMY DATA																							
Sowing Date	9-07		13-07		28-07		-																
Harvest Date	10-11		10-08		29-10		-																
Irrigation Nos	-		4		3		-																
Fertilizer Applied N	120		150		90		-																
Fertilizer Applied P	60		60		30		-																
Fertilizer Applied K	40		60		-		-																

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

B310

Table No.35 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST			
		DELH	KARN	LUDH	Mean	DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	DELH	KARN	LUDH	Mean
1	DMR - 204166	52.3	49.3	44.3	48.7	23.7	51.3	45.0	48.2	84.0	80.3	82.2	32.0	29.1	30.2	30.4
2	DMR - 204167	53.3	50.3	46.7	50.1	25.3	52.0	48.7	50.3	84.3	83.3	83.8	26.9	29.8	31.0	29.2
3	DMR - 204168	52.7	50.7	46.3	49.9	21.0	52.7	47.7	50.2	84.3	86.0	85.2	30.4	29.7	33.0	31.0
4	DMR - 204169	53.0	49.7	44.0	48.9	22.3	51.7	45.0	48.3	84.0	82.7	83.3	27.0	30.7	30.2	29.3
5	DMR - 204170	50.7	50.0	43.0	47.9	24.3	52.3	43.3	47.8	84.7	80.0	82.3	26.6	31.2	27.6	28.5
6	DMR - 204171	51.7	50.0	44.0	48.6	20.7	52.0	45.7	48.8	84.0	79.7	81.8	22.3	30.4	28.9	27.2
7	DMR - 204172	53.0	51.0	44.7	49.6	22.7	53.0	46.7	49.8	86.0	83.7	84.8	28.6	30.1	30.9	29.9
8	DMR - 204173	51.7	49.7	43.7	48.3	25.0	51.7	44.0	47.8	85.0	86.3	85.7	28.6	29.1	33.1	30.3
9	DMR - 204174	54.3	50.7	47.0	50.7	22.3	53.3	48.7	51.0	83.0	86.7	84.8	31.0	30.2	31.7	30.9
10	DMR - 204175	52.3	50.3	45.0	49.2	26.0	52.3	46.7	49.5	85.7	81.0	83.3	31.6	30.0	29.2	30.3
CHECKS																
11	KOHINOOR	52.7	51.0	45.7	49.8	28.7	53.0	46.3	49.7	85.0	85.7	85.3	27.9	31.3	35.4	31.5
12	PEEHM-5	52.7	51.0	44.7	49.4	22.3	52.7	46.3	49.5	83.7	86.3	85.0	28.2	29.2	30.9	29.4
Loc. Mean		52.5	50.3	44.9	49.3	23.7	52.3	46.2	49.3	84.5	83.5	84.0	28.4	30.0	31.0	29.8
C.D. (5%)		2.01	1.49	1.53	1.07	9.62	1.31	1.50	2.24	1.56	1.25	4.63	0.00	0.50	1.73	3.36
C.V. (%)		2.26	1.75	2.01	1.29	23.97	1.48	1.92	2.07	1.09	0.88	2.51	0.00	0.98	3.30	6.65
F (Prob)		0.11	0.30	0.00	0.00	0.89	0.09	0.00	0.12	0.03	0.00	0.62	0.00	0.00	0.00	0.40

Locations Rejected due to High

C.V.(i.e.> 20%): DELHI 24.0%

S.No.	PEDIGREE	KARN	STAND AT HARVEST ('000/ha)				PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
			DELH	KARN	LUDH	Mean	KARN	LUDH	Mean	KARN	LUDH	Mean
1	DMR - 204166	68.1	79.4	57.8	70.8	69.3	163.3	185.0	174.2	73.3	96.7	85.0
2	DMR - 204167	65.4	82.2	55.0	67.2	68.1	140.0	165.0	152.5	83.3	81.7	82.5
3	DMR - 204168	66.3	80.0	57.8	65.3	67.7	150.0	176.7	163.3	76.7	96.7	86.7
4	DMR - 204169	66.9	80.0	55.6	69.6	68.4	145.0	160.0	152.5	73.3	85.0	79.2
5	DMR - 204170	68.5	80.0	56.1	64.7	66.9	156.7	165.0	160.8	81.7	81.7	81.7
6	DMR - 204171	65.6	78.9	56.7	65.3	67.0	178.3	198.3	188.3	80.0	101.7	90.8
7	DMR - 204172	65.9	81.7	55.0	67.8	68.1	171.7	195.0	183.3	78.3	101.7	90.0
8	DMR - 204173	68.6	79.4	57.2	61.1	65.9	160.0	186.7	173.3	83.3	111.7	97.5
9	DMR - 204174	66.2	83.3	55.0	69.6	69.3	156.7	181.7	169.2	73.3	93.3	83.3
10	DMR - 204175	67.5	81.1	56.7	68.4	68.7	136.7	176.7	156.7	68.3	105.0	86.7
CHECKS												
11	KOHINOOR	68.0	81.7	58.9	54.9	65.2	158.3	195.0	176.7	73.3	116.7	95.0
12	PEEHM-5	65.9	80.0	57.2	60.4	65.9	165.0	205.0	185.0	81.7	111.7	96.7
Loc. Mean		66.9	80.6	56.6	65.4	67.5	156.8	182.5	169.7	77.2	98.6	87.9
C.D. (5%)		0.46	4.08	2.96	8.89	5.23	6.37	9.32	14.86	5.03	11.76	20.63
C.V. (%)		0.40	2.99	3.09	8.02	4.57	2.40	3.02	3.98	3.85	7.04	10.66
F (Prob)		0.00	0.54	0.17	0.04	0.81	0.00	0.00	0.00	0.00	0.00	0.61

B311

TABLE No.36

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS/COMPOSITES AT BANSWARA, CHHINDWARA, GODHARA, UDAIPUR IN ZONAL TRIAL No. 502 DURING KHARIF(2012)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE									GRAIN YIELD % SUPERIORITY OVER THE Bio-9637											
		BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	SI.No	PEDIGREE	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN
1	EH-2238	3619	4	4548	10	3633	7	5312	7	4188	5	1	EH-2238	44.1	-	5.6	-	5.1				
2	EH-2239	3602	5	5604	9	3780	6	5105	8	4162	6	2	EH-2239	43.4	-	9.8	-	4.4				
3	EH-2240	4307	2	7751	5	5773	3	7908	1	5996	1	3	EH-2240	71.5	-	67.8	31.7	50.4				
4	Navjot	2263	9	6363	8	3912	5	4356	10	3510	10	4	Navjot	-	-	13.7	-	-				
5	EH-2241	4312	1	6432	7	4197	4	4911	9	4473	4	5	EH-2241	71.7	-	21.9	-	12.2				
6	EH-2242	3300	6	6675	6	2044	10	5483	6	3609	9	6	EH-2242	31.4	-	-	-	-				
	CHECKS												CHECKS									
7	Bio-9637	2512	8	8327	4	3441	9	6006	4	3986	7	7	Bio-9637	-	-	-	-	-				
8	HM-9	-	-	-	-	-	-	-	-	-	-	8	HM-9	-	-	-	-	-				
9	DHM-117	2831	7	9098	2	5809	2	7509	2	5383	3	9	DHM-117	12.7	9.3	68.8	25	35				
10	PMH-3	3823	3	9893	1	5898	1	7080	3	5600	2	10	PMH-3	52.2	18.8	71.4	17.9	40.5				
11	Pratap Makka-3	1610	10	8418	3	3553	8	5747	5	3637	8	11	Pratap Makka-3	-	1.1	3.2	-	-				
	Location Mean	3218		7311		4204		5942		4455												
	Mean Stand	29		36		26		28		28												
	C.D. (5%)	924		3042		1221		763		969												
	C.V. (%)	16.66		24.16		16.86		7.46		-												
	F (Prob)	0		0.001		0		0														
	Plot Size	4.8		6		4.8		4.8		-												
	AGRONOMY DATA																					
	Sowing Date	14-07		28-06		16-07		4-07		-												
	Harvest Date	18-10		15-11		18-10		15-10		-												
	Irrigation Nos	-		-		-		2		-												
	Fertilizer Applied N	150		120		120		90		-												
	Fertilizer Applied P	80		60		50		60		-												
	Fertilizer Applied K	40		40		-		-		-												

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI 24.2 %

TABLE No.36 (Cont..)

No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9					GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka-3				
		BANS R	CHHI R	GODH R	UDAI R	MEAN	BANS R	CHHI R	GODH R	UDAI R	MEAN
1	EH-2238	-	-	-	-	-	124.8	-	2.2	-	15.2
2	EH-2239	-	-	-	-	-	123.8	-	6.4	-	14.5
3	EH-2240	-	-	-	-	-	167.6	-	62.5	37.6	64.9
4	Navjot	-	-	-	-	-	40.6	-	10.1	-	-
5	EH-2241	-	-	-	-	-	167.9	-	18.1	-	23.0
6	EH-2242	-	-	-	-	-	105.0	-	-	-	-
CHECKS											
7	Bio-9637	-	-	-	-	-	56.1	-	-	4.5	9.6
8	HM-9	-	-	-	-	-	-	-	-	-	-
9	DHM-117	-	-	-	-	-	75.9	8.1	63.5	30.6	48.0
10	PMH-3	-	-	-	-	-	137.5	17.5	66.0	23.2	54.0
11	Pratap Makka-3	-	-	-	-	-	-	-	-	-	-

Sl.No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM-117					GRAIN YIELD % SUPERIORITY OVER THE PMH-3				
		BANS R	CHHI R	GODH R	UDAI R	MEAN	BANS R	CHHI R	GODH R	UDAI R	MEAN
1	EH-2238	27.8	-	-	-	-	-	-	-	-	-
2	EH-2239	27.2	-	-	-	-	-	-	-	-	-
3	EH-2240	52.1	-	-	5.3	11.4	12.7	-	-	11.7	7.1
4	Navjot	-	-	-	-	-	-	-	-	-	-
5	EH-2241	52.3	-	-	-	-	12.8	-	-	-	-
6	EH-2242	16.5	-	-	-	-	-	-	-	-	-
CHECKS											
7	Bio-9637	-	-	-	-	-	-	-	-	-	-
8	HM-9	-	-	-	-	-	-	-	-	-	-
9	DHM-117	-	-	-	-	-	-	-	-	6.1	-
10	PMH-3	35	8.7	1.5	-	4	-	-	-	-	-
11	Pratap Makka-3	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : CHHI 24.2 %

B313

Table No.36 (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	EH-2238	43.0	50.0	40.3	50.7	46.0	46.0	50.3	43.3	52.3	48.0	72.3	85.0	76.3	86.0	79.9	16.8	11.1	20.0	20.7	17.1
2	EH-2239	43.0	50.3	41.7	51.3	46.6	46.0	51.7	43.7	53.0	48.6	72.0	87.0	76.3	86.0	80.3	17.9	12.0	19.9	21.4	17.8
3	EH-2240	41.3	54.0	48.0	53.7	49.3	44.0	54.3	50.0	56.0	51.1	71.7	90.3	82.0	89.0	83.3	16.4	12.8	17.5	19.5	16.5
4	Navjot	41.0	54.0	45.7	53.7	48.6	44.0	55.3	49.3	56.0	51.2	73.0	88.7	81.0	88.3	82.8	16.3	11.8	16.9	21.1	16.5
5	EH-2241	38.7	56.3	49.3	56.3	50.2	41.7	56.7	52.3	59.3	52.5	70.0	90.7	85.3	91.7	84.4	14.6	12.5	17.9	20.6	16.4
6	EH-2242	50.3	53.7	49.0	55.0	52.0	53.3	54.3	51.3	57.0	54.0	72.7	89.7	81.0	89.3	83.2	15.9	14.0	16.9	22.3	17.3
CHECKS																					
7	Bio-9637	41.0	53.3	49.0	53.7	49.3	44.0	55.3	52.3	56.3	52.0	70.7	92.7	85.7	88.7	84.4	16.2	12.0	19.3	20.2	16.9
8	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	DHM-117	43.0	57.7	49.0	60.0	52.4	46.0	59.7	55.7	62.3	55.9	68.0	90.0	90.7	94.7	85.8	16.4	14.7	21.3	21.4	18.4
10	PMH-3	42.0	57.0	49.0	59.0	51.8	45.0	58.7	52.0	61.0	54.2	72.3	92.3	86.3	93.0	86.0	16.4	16.7	19.0	21.5	18.4
11	Pratap Makka-3	41.0	51.7	46.3	52.7	47.9	44.3	53.3	48.7	54.0	50.1	72.0	86.7	80.3	87.0	81.5	16.8	11.1	19.0	21.0	17.0
	Loc. Mean	38.6	53.8	46.7	54.6	44.9	41.3	55.0	49.9	56.7	47.0	65.0	89.3	82.5	89.4	75.6	14.9	12.9	18.7	20.9	15.7
	C.D. (5%)	1.05	0.76	2.72	1.08	4.12	1.07	1.00	2.52	1.39	4.08	1.90	1.29	2.82	1.74	5.09	1.06	0.83	2.16	0.91	2.24
	C.V. (%)	1.60	0.78	3.24	1.10	6.36	1.53	1.01	2.81	1.37	6.00	1.72	0.80	1.90	1.08	4.66	4.18	3.59	6.40	2.42	9.89
	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	0.00	0.00
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	BANS	CHHI	GODH	UDAI	Mean	BANS	CHHI	GODH	UDAI	Mean
1	EH-2238	64.0	81.8	84.5	83.3	78.4	59.7	63.9	62.5	64.6	62.7	163.4	171.7	159.7	166.7	165.4	65.2	83.3	62.7	75.0	71.6
2	EH-2239	68.2	83.6	83.3	81.8	79.2	58.3	65.6	56.9	64.6	61.4	154.0	203.3	186.7	188.3	183.1	63.6	103.3	73.3	86.7	81.7
3	EH-2240	68.5	84.1	82.6	82.6	79.4	59.7	64.4	50.0	63.2	59.3	163.8	226.7	205.0	203.3	199.7	60.5	103.3	80.0	101.7	86.4
4	Navjot	63.4	85.5	84.1	82.7	78.9	61.8	47.8	43.8	55.6	52.2	152.2	210.0	187.3	198.3	187.0	64.1	100.0	96.0	98.3	89.6
5	EH-2241	68.0	82.5	82.0	81.7	78.5	61.8	64.4	63.2	51.4	60.2	165.4	180.0	165.7	181.7	173.2	68.8	93.3	72.7	85.0	80.0
6	EH-2242	66.1	83.3	44.9	82.2	69.1	60.4	64.4	58.3	61.8	61.3	156.9	213.3	189.3	216.7	194.1	60.6	101.7	84.3	108.3	88.7
CHECKS																					
7	Bio-9637	65.9	86.9	80.2	83.7	79.2	63.2	52.2	52.8	50.0	54.5	170.4	211.7	167.7	175.0	181.2	68.6	95.0	49.0	80.0	73.2
8	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	DHM-117	67.0	85.2	77.8	81.0	77.8	64.6	65.0	54.2	53.5	59.3	157.0	218.3	196.0	216.7	197.0	65.2	106.7	84.3	101.7	89.5
10	PMH-3	68.0	81.2	77.7	82.3	77.3	61.1	63.3	54.9	64.6	61.0	163.7	223.3	199.3	215.0	200.4	60.6	108.3	92.7	113.3	93.7
11	Pratap Makka-3	65.6	81.4	84.7	83.6	78.8	61.8	51.1	47.2	52.8	53.2	172.1	181.7	186.7	206.7	186.8	70.4	90.0	93.3	103.3	89.3
	Loc. Mean	60.4	83.6	78.1	82.5	70.6	55.7	60.2	54.4	58.2	53.2	147.2	204.0	184.3	196.8	169.8	58.9	98.5	78.8	95.3	76.7
	C.D. (5%)	3.02	1.83	20.75	0.89	9.08	3.54	5.20	10.72	7.78	6.79	6.98	8.78	25.81	11.23	18.56	8.45	8.60	27.71	12.90	13.92
	C.V. (%)	2.93	1.22	14.77	0.60	8.90	3.74	4.80	10.95	7.43	8.84	2.79	2.39	7.78	3.17	7.57	8.42	4.86	19.54	7.52	12.57
	F (Prob)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00

# B314

TABLE No. 37

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS/COMPOSITES AT BANSWARA, CHHINDWARA, GODHARA, UDAIPUR IN ZONAL TRIAL No. 503 DURING KHARIF(2012)

SI.No	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE PEHM-2					GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-9					GRAIN YIELD % SUPERIORITY OVER THE Arawali Makka-1																
	PEDIGREE	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	GWH-0330	1829	14	5858	7	1412	14	7848	2	6853	3	-	20.7	-	77.4	47.7	-	2.3	8.1	88	38.5	23.3	11.6	-	57.4	33.9											
2	GWH-0703	2541	10	4847	15	745	16	5321	10	5084	11	14.3	-	-	20.3	9.6	-	-	-	27.5	2.7	71.4	-	-	6.8	-											
3	GWH-0705	3700	4	5436	11	1875	9	4605	13	5020	12	66.4	12	-	4.1	8.2	-	-	43.5	10.3	1.4	149.5	3.6	-	-	-											
4	GWH-0712	2959	8	4101	16	1636	12	4663	12	4382	16	33.1	-	-	5.4	-	-	-	25.2	11.7	-	99.5	-	-	-	-											
5	GYH-0461	1766	15	5586	10	1864	10	7648	3	6617	6	-	15.1	-	72.9	42.6	-	-	42.7	83.2	33.7	19.1	6.4	-	53.4	29.3											
6	GYH-0652	3454	6	6197	6	2385	4	6111	8	6154	8	55.3	27.7	25.6	38.1	32.7	-	8.3	82.5	46.4	24.4	132.9	18.1	21.5	22.6	20.3											
7	GYH-0653	3090	7	6510	4	1592	13	7073	7	6792	5	39	34.1	-	59.9	46.4	-	13.7	21.9	69.5	37.2	108.3	24	-	41.9	32.7											
8	GYH-0656	2830	9	7158	2	2536	3	7486	5	7322	2	27.3	47.5	33.6	69.2	57.8	-	25	94.1	79.3	47.9	90.8	36.4	29.2	50.2	43.1											
9	EH-2233	3522	5	6308	5	2048	5	7286	6	6797	4	58.4	30	7.9	64.7	46.5	-	10.2	56.8	74.5	37.3	137.4	20.2	4.4	46.2	32.8											
10	EH-2234	2417	11	6793	3	1835	11	5389	9	6091	9	8.7	40	-	21.8	31.3	-	18.7	40.4	29.1	23.1	63	29.4	-	8.1	19											
11	EH-2235	4715	1	7874	1	2877	1	8234	1	8054	1	112	62.2	51.5	86.1	73.6	27.3	37.6	120.2	97.3	62.7	217.9	50	46.6	65.2	57.4											
12	EH-2236	2380	12	5610	9	2542	2	7494	4	6552	7	7	15.6	33.9	69.4	41.2	-	-	94.5	79.5	32.4	60.5	6.9	29.5	50.3	28.1											
13	EH-2237	4218	2	5238	13	1997	6	4239	15	4738	14	89.7	7.9	5.2	-	2.1	13.8	-	52.8	1.5	-	184.4	-	1.7	-	-											
CHECKS																																					
14	PEHM-2	2224	13	4853	14	1899	8	4425	14	4639	15	-	-	-	-	-	-	-	45.3	6	-	49.9	-	-	-	-											
15	Vivek Hybrid-9	3705	3	5724	8	1307	15	4174	16	4949	13	66.6	17.9	-	-	6.7	-	-	-	-	-	149.8	9.1	-	-	-											
16	Arawali Makka-1	1483	16	5248	12	1962	7	4985	11	5116	10	-	8.1	3.4	12.7	10.3	-	-	50.2	19.4	3.4	-	-	-	-	-											
Location Mean		2927		5834		1907		6061		5947																											
Mean Stand		29		35		16		28		32																											
C.D. (5%)		1599		333		1120		630		482																											
C.V. (%)		32.72		3.42		35.17		6.22		-																											
F (Prob)		0.007		0		0.069		0																													
Plot Size		4.8		6		4.8		4.8		-																											
AGRONOMY DATA																																					
Sowing Date		14-07		28-06		17-07		4-07		-																											
Harvest Date		18-10		3-11		19-10		15-10		-																											
Irrigation Nos		-		-		-		1		-																											
Fertilizer Applied N		150		120		120		90		-																											
Fertilizer Applied P		80		60		50		60		-																											
Fertilizer Applied K		40		40		-		-		-																											

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BANS 32.7 %: GODH 35.2 %



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	GWH-0330	42.0	52.3	47.0	52.3	48.4	45.0	54.3	51.3	53.7	51.1	72.0	86.7	81.3	85.7	81.4	15.9	15.1	18.4	17.3	16.7
2	GWH-0703	41.0	54.3	53.7	53.7	50.7	44.0	56.3	54.7	55.7	52.7	71.0	87.3	84.3	85.7	82.1	15.7	14.4	18.3	22.1	17.6
3	GWH-0705	41.7	52.7	48.0	52.7	48.8	44.7	54.3	53.0	54.3	51.6	71.7	87.3	82.7	86.7	82.1	15.1	15.8	18.2	17.6	16.7
4	GWH-0712	42.3	48.0	44.7	49.0	46.0	45.3	48.0	46.3	50.3	47.5	71.3	84.7	76.0	82.7	78.7	16.0	14.1	19.1	18.7	17.0
5	GYH-0461	48.3	54.7	52.7	55.0	52.7	53.0	56.3	56.0	57.3	55.7	79.0	88.0	86.7	89.7	85.8	16.0	15.4	16.6	22.3	17.6
6	GYH-0652	43.7	53.7	51.3	53.3	50.5	47.0	55.7	55.3	56.0	53.5	72.0	90.3	84.3	85.7	83.1	15.6	18.8	19.2	21.8	18.8
7	GYH-0653	50.3	54.3	53.7	55.0	53.3	53.3	56.3	56.7	57.7	56.0	78.3	91.0	85.7	88.3	85.8	15.3	15.7	20.0	21.6	18.1
8	GYH-0656	43.3	54.3	51.3	54.3	50.8	46.7	56.3	53.7	56.0	53.2	73.0	91.0	82.7	88.3	83.8	15.6	16.7	18.2	21.2	17.9
9	EH-2233	44.7	52.0	48.3	52.3	49.3	48.0	54.0	51.3	54.0	51.8	72.3	87.3	82.7	86.3	82.2	16.1	14.8	17.9	20.6	17.3
10	EH-2234	43.0	52.3	49.0	50.0	48.6	47.0	54.3	51.3	51.7	51.1	71.7	86.7	80.0	84.0	80.6	16.0	14.1	17.7	20.4	17.0
11	EH-2235	43.3	54.0	49.7	49.3	49.1	46.7	54.3	54.3	51.0	51.6	71.7	88.7	83.3	85.7	82.3	16.4	17.7	19.4	20.4	18.5
12	EH-2236	39.0	52.0	49.7	52.0	48.2	44.3	53.7	52.3	54.0	51.1	73.0	86.7	81.3	87.3	82.1	15.8	14.9	16.4	18.5	16.4
13	EH-2237	41.0	53.3	53.7	53.0	50.3	44.0	55.3	57.3	55.3	53.0	72.0	86.7	86.0	85.0	82.4	16.0	14.8	19.4	18.8	17.2
CHECKS																					
14	PEHM-2	49.3	54.7	50.7	53.3	52.0	52.7	56.3	55.0	56.7	55.2	78.0	90.0	84.7	89.7	85.6	15.3	15.5	17.1	22.2	17.5
15	Vivek Hybrid-9	40.0	50.3	47.0	51.7	47.3	43.0	52.3	52.0	54.7	50.5	69.3	90.0	81.7	87.0	82.0	15.8	13.6	19.2	22.3	17.7
16	Arawali Makka-1	48.0	51.0	51.3	52.3	50.7	52.7	52.3	54.3	53.7	53.3	76.7	88.0	82.7	85.7	83.2	16.2	15.0	20.0	20.9	18.0
	Loc. Mean	43.8	52.8	50.1	52.5	49.8	47.3	54.4	53.4	54.5	52.4	73.3	88.1	82.9	86.5	82.7	15.8	15.4	18.4	20.4	17.5
	C.D. (5%)	3.75	0.87	3.98	2.17	2.62	2.08	0.82	3.46	2.80	2.74	2.09	1.00	3.95	2.50	2.34	0.37	0.92	2.22	1.01	1.72
	C.V. (%)	5.13	0.99	4.77	2.48	3.70	2.64	0.91	3.88	3.08	3.68	1.71	0.68	2.86	1.74	1.99	1.39	3.57	7.23	2.98	6.90
	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	0.04	0.00	0.26

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	BANS	CHHI	GODH	UDAI	Mean	BANS	CHHI	GODH	UDAI	Mean
1	GWH-0330	65.8	90.5	81.6	83.5	80.3	61.8	58.3	56.3	55.6	58.0	162.1	201.7	160.7	210.0	183.6	68.9	108.3	75.0	125.0	94.3
2	GWH-0703	66.5	86.5	65.6	82.4	75.3	59.7	61.7	47.2	47.2	54.0	155.5	211.7	184.3	196.7	187.0	75.3	75.0	85.0	76.7	78.0
3	GWH-0705	65.9	81.3	78.2	80.5	76.5	64.6	58.3	36.1	62.5	55.4	153.8	195.0	150.0	200.0	174.7	68.9	93.3	60.0	96.7	79.7
4	GWH-0712	68.4	90.7	82.3	83.6	81.2	59.7	60.0	41.7	59.0	55.1	157.1	170.0	154.7	171.7	163.4	72.3	78.3	58.3	73.3	70.6
5	GYH-0461	58.9	81.6	83.1	82.6	76.5	61.1	61.7	27.1	62.5	53.1	160.4	205.0	178.3	210.0	188.4	82.0	100.0	79.0	126.7	96.9
6	GYH-0652	67.3	88.6	79.1	82.3	79.3	60.4	63.3	34.0	61.1	54.7	152.2	198.3	161.7	180.0	173.1	72.3	96.7	72.0	108.3	87.3
7	GYH-0653	65.2	84.7	76.4	81.8	77.0	61.8	61.7	29.9	60.4	53.4	148.1	205.0	175.0	213.3	185.4	68.7	90.0	82.3	113.3	88.6
8	GYH-0656	65.3	84.4	80.3	82.3	78.1	61.1	61.1	34.7	61.8	54.7	162.1	206.7	176.7	205.0	187.6	75.5	101.7	89.0	95.0	90.3
9	EH-2233	65.6	88.6	81.0	82.3	79.4	59.7	55.0	27.8	63.2	51.4	160.4	205.0	176.7	206.7	187.2	70.5	95.0	71.7	90.0	81.8
10	EH-2234	62.0	92.1	80.9	82.6	79.4	61.8	59.4	37.5	56.9	53.9	170.4	203.3	147.3	190.0	177.8	77.2	88.3	56.7	90.0	78.0
11	EH-2235	70.4	84.1	78.0	80.6	78.3	60.4	58.3	34.0	61.1	53.5	153.9	220.0	176.7	211.7	190.6	72.0	98.3	75.0	110.0	88.8
12	EH-2236	64.3	86.6	81.3	82.8	78.7	59.0	57.2	35.4	59.0	52.7	157.3	203.3	181.0	191.7	183.3	78.6	86.7	77.7	91.7	83.7
13	EH-2237	67.4	85.9	73.8	81.1	77.1	61.1	58.3	18.1	52.1	47.4	155.5	215.0	165.7	196.7	183.2	71.9	98.3	70.0	91.7	83.0
CHECKS																					
14	PEHM-2	62.8	92.4	78.7	81.3	78.8	61.1	37.2	25.7	60.4	46.1	158.7	178.3	157.7	196.7	172.8	77.1	66.7	67.3	73.3	71.1
15	Vivek Hybrid-9	66.8	81.9	82.1	80.5	77.8	63.2	60.0	36.1	61.1	55.1	158.9	178.3	146.7	183.3	166.8	75.5	85.0	58.3	80.0	74.7
16	Arawali Makka-1	61.4	82.9	81.7	80.6	76.7	61.8	62.2	22.2	60.4	51.7	155.6	185.0	165.7	195.0	175.3	72.1	95.0	64.3	113.3	86.2
	Loc. Mean	65.2	86.4	79.0	81.9	78.1	61.2	58.4	34.0	59.0	53.1	157.6	198.9	166.2	197.4	180.0	73.7	91.0	71.4	97.2	83.3
	C.D. (5%)	3.75	1.43	5.81	0.46	4.63	5.51	8.23	10.90	5.81	8.61	16.03	10.38	22.57	15.02	13.19	8.26	10.56	19.85	16.08	14.01
	C.V. (%)	3.44	0.99	4.41	0.34	4.16	5.40	8.46	19.23	5.90	11.38	6.10	3.13	8.15	4.56	5.15	6.72	6.96	16.68	9.92	11.81
	F (Prob)	0.00	0.00	0.00	0.00	0.51	0.90	0.00	0.00	0.00	0.52	0.64	0.00	0.01	0.00	0.00	0.08	0.00	0.04	0.00	0.01



## B318

Table No.38 (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)		
		GODH	UDAI	Mean	GODH	UDAI	Mean	GODH	UDAI	Mean	GODH	UDAI	Mean	GODH	UDAI	Mean	GODH	UDAI	Mean	GODH	UDAI	Mean	GODH	UDAI	Mean
1	EH-2243	47.3	50.7	49.0	51.3	52.7	52.0	80.3	85.0	82.7	19.8	19.3	19.5	78.0	83.9	80.9	32.6	60.4	46.5	151.3	186.7	169.0	52.3	76.7	64.5
2	EC-3164	48.7	54.3	51.5	53.0	55.7	54.3	84.7	87.0	85.8	19.3	21.0	20.2	80.6	81.9	81.2	37.5	58.3	47.9	185.7	193.3	189.5	83.0	96.7	89.8
3	EH-2244	46.0	48.0	47.0	48.0	50.0	49.0	76.0	81.7	78.8	18.4	19.7	19.0	82.1	84.3	83.2	42.4	61.8	52.1	177.7	208.3	193.0	69.7	101.7	85.7
4	EH-2245	48.0	51.3	49.7	53.0	53.3	53.2	83.3	85.3	84.3	16.7	21.4	19.1	79.1	82.2	80.7	34.7	48.6	41.7	156.3	188.3	172.3	52.7	75.0	63.8
5	EH-2246	52.3	55.7	54.0	55.0	57.3	56.2	84.0	88.7	86.3	16.8	22.1	19.5	72.1	81.3	76.7	44.4	54.2	49.3	149.3	175.0	162.2	51.0	71.7	61.3
6	EH-2247	49.7	52.0	50.8	55.0	54.0	54.5	85.3	86.0	85.7	17.4	20.3	18.8	80.0	84.1	82.0	45.1	56.9	51.0	174.3	203.3	188.8	74.7	91.7	83.2
7	EH=2248	50.7	54.7	52.7	57.7	56.3	57.0	87.3	88.0	87.7	18.8	20.8	19.8	75.9	82.7	79.3	18.1	58.3	38.2	156.7	208.3	182.5	60.7	93.3	77.0
8	EH-2249	50.3	58.7	54.5	55.0	60.3	57.7	85.3	89.7	87.5	18.5	21.0	19.7	77.5	83.6	80.6	43.8	51.4	47.6	153.3	180.0	166.7	57.0	78.3	67.7
9	EH-2250	51.3	57.7	54.5	55.7	59.3	57.5	85.3	89.7	87.5	19.0	21.3	20.2	79.1	83.3	81.2	33.3	61.1	47.2	159.3	220.0	189.7	56.0	108.3	82.2
10	EH-2251	46.0	49.0	47.5	48.0	50.3	49.2	76.0	81.7	78.8	17.8	20.7	19.3	78.1	83.1	80.6	43.1	52.8	47.9	147.7	211.7	179.7	51.7	91.7	71.7
11	EH-2252	48.0	51.0	49.5	52.0	52.0	52.0	82.0	83.0	82.5	19.4	19.3	19.3	75.2	83.8	79.5	24.3	56.9	40.6	158.0	195.0	176.5	53.0	88.3	70.7
12	EH-2253	51.0	56.3	53.7	55.0	58.0	56.5	84.0	88.3	86.2	17.7	20.2	18.9	74.5	82.4	78.4	42.4	56.9	49.7	184.0	221.7	202.8	71.3	106.7	89.0
13	Navjot	50.3	53.7	52.0	55.7	55.7	55.7	85.3	87.3	86.3	19.8	19.3	19.6	74.3	83.7	79.0	30.6	54.9	42.7	173.3	176.7	175.0	72.3	83.3	77.8
	CHECKS																								
14	PEHM-2	48.7	54.7	51.7	54.3	56.7	55.5	84.3	86.0	85.2	18.2	20.4	19.3	80.6	83.3	82.0	20.8	55.6	38.2	162.3	183.3	172.8	67.3	83.3	75.3
15	HQPM-5	52.0	59.0	55.5	56.3	61.0	58.7	85.7	95.0	90.3	20.3	22.7	21.5	74.8	83.8	79.3	29.2	54.2	41.7	160.0	218.3	189.2	64.7	111.7	88.2
16	DHM-117	-	59.3	59.3	-	61.7	61.7	-	94.7	94.7	-	21.9	21.9	-	80.5	80.5	-	55.6	55.6	-	215.0	215.0	-	106.7	106.7
17	Bio-9637	52.0	57.0	54.5	57.0	59.3	58.2	87.7	91.3	89.5	19.3	21.9	20.6	77.4	82.9	80.1	25.7	54.2	39.9	156.0	180.0	168.0	58.7	73.3	66.0
	Loc. Mean	46.6	54.3	52.2	50.7	56.1	55.2	78.6	87.5	85.9	17.5	20.8	19.8	72.9	83.0	80.3	32.2	56.0	45.8	153.3	197.9	181.9	58.6	90.5	77.7
	C.D. (5%)	3.24	1.52	3.11	3.84	1.50	2.84	4.22	1.90	3.59	1.79	0.50	2.43	4.80	0.48	4.36	6.80	6.38	16.41	23.32	15.09	28.28	17.23	11.50	20.57
	C.V. (%)	4.18	1.69	2.81	4.55	1.61	2.42	3.23	1.30	1.97	6.17	1.46	5.81	3.96	0.35	2.56	12.68	6.85	16.92	9.15	4.58	7.33	17.69	7.64	12.49
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.42	0.00	0.02	0.60	0.00	0.00	0.06	0.00	0.00	0.02

# B319

TABLE No.39

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS/COMPOSITES AT BANSWARA, CHHINDWARA, GODHARA, UDAIPUR IN ZONAL TRIAL No. ZTO-01 DURING KHARIF(2012)

SI.No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM-9					GRAIN YIELD % SUPERIORITY OVER THE HQPM-1				
	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	BANS	CHHI	GODH	UDAI	MEAN	BANS	CHHI	GODH	UDAI	MEAN
1 EHQ-93	2540	7	4920	11	4769	1	5487	7	5203	10	-	-	92.9	41.3	-	-	-	3.8	-	-
2 EHQ-94	2416	9	5731	9	2882	7	5510	6	5621	8	-	-	16.6	41.9	6.2	-	-	-	-	-
3 EHQ-95	2582	6	5820	8	2640	9	6536	1	6178	4	-	-	6.8	68.3	16.8	-	-	-	17	-
4 EHQ-96	2972	2	6133	6	2435	12	5687	3	5910	5	2	-	-	46.4	11.7	4.1	-	-	1.8	-
5 EHQ-97	2192	13	4488	13	2846	8	4022	11	4255	12	-	-	15.1	3.5	-	-	-	-	-	-
6 EHQ-98	2342	12	3997	14	2113	13	3045	14	3521	14	-	-	-	-	-	-	-	-	-	-
7 EHQ-99	2091	14	5266	10	2528	10	4175	10	4721	11	-	-	2.2	7.5	-	-	-	-	-	-
8 EHQ-100	2344	11	6129	7	3113	6	5642	4	5886	6	-	-	25.9	45.2	11.3	-	-	-	1	-
9 EHQ-101	2876	4	6268	5	3573	5	5137	8	5703	7	-	-	44.5	32.2	7.8	0.7	-	-	-	-
10 EHQ-102	2383	10	4666	12	1687	14	3498	13	4082	13	-	-	-	-	-	-	-	-	-	-
CHECKS																				
11 Vivek QPM-9	2913	3	6696	4	2472	11	3885	12	5290	9	-	-	-	-	-	2	-	-	-	-
12 HQPM-1	2855	5	7093	2	4595	3	5584	5	6339	2	-	5.9	85.9	43.8	19.8	-	-	-	-	-
13 HQPM-5	3281	1	7967	1	3876	4	4644	9	6306	3	12.6	19	56.8	19.5	19.2	14.9	12.3	-	-	-
14 HQPM-7	2493	8	6897	3	4603	2	5996	2	6447	1	-	3	86.2	54.4	21.9	-	-	0.2	7.4	1.7
Location Mean	2592		5862		3152		4918		5390											
Mean Stand	29		32		18		23		27											
C.D. (5%)	1040		508		1088		705		606											
C.V. (%)	23.87		5.15		20.52		8.53		-											
F (Prob)	0.686		0		0		0													
Plot Size	4.8		6		4.8		4.8		-											
AGRONOMY DATA																				
Sowing Date	14-07		28-06		16-07		4-07		-											
Harvest Date	18-10		15-11		19-10		16-10		-											
Irrigation Nos	-		-		-		2		-											
Fertilizer Applied N	150		120		120		90		-											
Fertilizer Applied P	80		60		50		60		-											
Fertilizer Applied K	40		40		-		-		-											

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BANS 23.9 %

Table No. 39 (Cont..)

SI	GRAIN YIELD % SUPERIORITY OVER THE HQPM-5					GRAIN YIELD % SUPERIORITY OVER THE HQPM-7						
	No	PEDIGREE	BANS	CHHI	GODH	UDAI	ZN 5 MEAN	BANS	CHHI	GODH	UDAI	ZN 5 MEAN
1	EHQ-93	-	-	23.1	18.2	-	1.9	-	3.6	-	-	-
2	EHQ-94	-	-	-	18.7	-	-	-	-	-	-	-
3	EHQ-95	-	-	-	40.7	-	3.6	-	-	9	-	-
4	EHQ-96	-	-	-	22.5	-	19.2	-	-	-	-	-
5	EHQ-97	-	-	-	-	-	-	-	-	-	-	-
6	EHQ-98	-	-	-	-	-	-	-	-	-	-	-
7	EHQ-99	-	-	-	-	-	-	-	-	-	-	-
8	EHQ-100	-	-	-	21.5	-	-	-	-	-	-	-
9	EHQ-101	-	-	-	10.6	-	15.4	-	-	-	-	-
10	EHQ-102	-	-	-	-	-	-	-	-	-	-	-
	CHECKS											
11	Vivek QPM-9	-	-	-	-	-	16.9	-	-	-	-	-
12	HQPM-1	-	-	18.6	20.2	0.5	14.5	2.8	-	-	-	-
13	HQPM-5	-	-	-	-	-	31.6	15.5	-	-	-	-
14	HQPM-7	-	-	18.8	29.1	2.2	-	-	-	-	-	-



Table No.39 (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	BANS	CHHI	GODH	UDAI	Mean	BANS	CHHI	GODH	UDAI	Mean
1	EHQ-93	68.4	84.3	81.0	81.1	78.7	56.9	53.3	64.6	46.5	55.3	170.3	186.7	146.0	171.7	168.7	92.2	80.0	51.7	60.0	77.4
2	EHQ-94	67.4	85.0	80.9	83.9	79.3	61.8	47.2	16.7	40.3	41.5	153.8	173.3	131.3	165.0	155.9	77.5	73.3	55.7	75.0	75.3
3	EHQ-95	67.1	87.1	74.8	83.0	78.0	58.3	65.0	47.9	54.9	56.5	185.3	190.0	149.0	180.0	176.1	97.0	81.7	56.0	75.0	84.5
4	EHQ-96	67.3	81.8	72.8	82.0	76.0	59.7	61.1	37.5	45.1	50.9	187.1	188.3	137.0	173.3	171.4	88.9	80.0	55.3	65.0	78.0
5	EHQ-97	65.8	84.7	80.6	82.2	78.3	60.4	58.9	31.9	39.6	47.7	138.9	168.3	143.3	160.0	152.6	85.6	63.3	49.3	56.7	68.5
6	EHQ-98	68.5	80.4	73.9	77.6	75.1	64.6	53.3	41.7	47.2	51.7	197.1	160.0	140.0	173.3	167.6	94.1	58.3	49.7	60.0	70.8
7	EHQ-99	68.7	81.0	70.0	81.0	75.2	64.6	61.7	32.6	51.4	52.6	178.1	185.0	148.3	176.7	172.0	100.4	81.7	57.7	78.3	86.8
8	EHQ-100	64.6	81.3	72.0	77.8	73.9	61.8	41.1	22.9	49.3	43.8	193.7	185.0	138.3	180.0	174.3	90.3	70.0	42.7	70.0	76.8
9	EHQ-101	68.4	83.5	84.8	84.8	80.4	61.8	59.4	44.4	58.3	56.0	155.4	170.0	167.3	180.0	168.2	90.3	78.3	64.0	75.0	81.2
10	EHQ-102	64.7	84.0	69.6	82.8	75.3	60.4	44.4	43.8	44.4	48.3	178.8	165.0	124.0	166.7	158.6	83.9	73.3	51.3	76.7	78.0
CHECKS																					
11	Vivek QPM-9	65.8	87.7	82.8	83.5	79.9	64.6	46.7	30.6	44.4	46.6	143.9	170.0	150.3	183.3	161.9	79.8	66.7	64.7	83.3	76.6
12	HQPM-1	67.9	86.3	80.7	81.1	79.0	58.3	51.1	45.8	47.9	50.8	173.9	171.7	143.3	185.0	168.5	87.2	73.3	63.0	80.0	80.2
13	HQPM-5	68.7	87.7	74.8	68.7	75.0	56.9	42.2	25.0	39.6	40.9	135.3	205.0	138.3	195.0	168.4	95.4	95.0	63.3	88.3	92.9
14	HQPM-7	64.3	75.9	74.0	82.4	74.2	63.2	60.0	43.8	48.6	53.9	200.5	201.7	166.3	205.0	193.4	95.4	78.3	69.7	76.7	83.5
Loc. Mean		67.0	83.6	76.6	80.8	77.0	61.0	53.3	37.8	47.0	49.7	170.9	180.0	144.5	178.2	168.4	89.9	75.2	56.7	72.9	79.3
C.D. (5%)		1.72	1.47	8.30	0.88	4.83	5.41	8.32	4.40	3.70	9.93	23.37	8.53	26.73	6.52	19.37	10.01	8.54	21.18	7.25	11.53
C.V. (%)		1.53	1.05	6.46	0.65	4.38	5.29	9.31	6.93	4.70	13.95	8.15	2.82	11.02	2.18	8.04	6.64	6.76	22.25	5.93	8.66
F (Prob)		0.00	0.00	0.01	0.00	0.08	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.13	0.00	0.03	0.00	0.00	0.44	0.00	0.02



TABLE No. 40

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS OF 2011 KHARIF EXPERIMENT AND PLANTED IN 2012 KHARIF AT SRINAGAR IN IET TRIAL No. 61 DURING KHARIF(2011)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE					
		SRIN	R	PMH1 SRIN	PMH3 SRIN	SeedTech 2324 SRIN	Bio 9681 SRIN	HM 11 SRIN	HM10 SRIN
1	CMH08-381	3860	53	-	-	-	-	-	-
2	CMH08-381(G)	5051	29	-	2.7	-	-	-	-
3	CMH09-464	3481	59	-	-	-	-	-	-
4	CMH10-500	3104	60	-	-	-	-	-	-
5	JH 31512	5931	8	12.6	20.6	14.2	4.1	13.4	-
6	BH-41030	5723	12	8.7	16.4	10.2	0.4	9.4	-
7	BH-41015	5701	13	8.3	15.9	9.8	0.1	9	-
8	BH-41032	5422	17	3	10.3	4.4	-	3.7	-
9	REH 2010-4	5157	27	-	4.9	-	-	-	-
10	REH 2010-6	5157	26	-	4.9	-	-	-	-
11	HKH-415	4747	37	-	-	-	-	-	-
12	IISCH DMR WNC 1	4547	46	-	-	-	-	-	-
13	NMH-1247	5896	10	12	19.9	13.5	3.5	12.7	-
14	DMH 7705	5437	16	3.3	10.6	4.7	-	4	-
15	Safal X-1	5201	24	-	5.8	0.2	-	-	-
16	S6668	4811	35	-	-	-	-	-	-
17	KMH-2619	5919	9	12.4	20.4	14	3.9	13.2	-
18	KMH-2589	4635	44	-	-	-	-	-	-
19	P3303	4462	48	-	-	-	-	-	-
20	P4546	4287	49	-	-	-	-	-	-
21	X8B680	5223	22	-	6.2	0.6	-	-	-
22	X35A178	4698	40	-	-	-	-	-	-
23	X35A180	3842	54	-	-	-	-	-	-
24	X35A182	4217	50	-	-	-	-	-	-
25	X35A187	4718	38	-	-	-	-	-	-
26	Bisco 2324 Plus	4663	42	-	-	-	-	-	-
27	Bisco x 5129	3974	51	-	-	-	-	-	-
28	MCH 45	3810	55	-	-	-	-	-	-
29	MCH 46	3869	52	-	-	-	-	-	-

## B324

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE					
		SRIN	R	PMH1 SRIN	PMH3 SRIN	SeedTech 2324 SRIN	Bio 9681 SRIN	HM 11 SRIN	HM10 SRIN
30	DADA	6241	4	18.5	26.9	20.2	9.5	19.3	4.3
31	Orbit	7039	1	33.7	43.2	35.5	23.5	34.6	17.6
32	Laxmi 333	6738	2	28	37	29.7	18.3	28.8	12.6
33	GEO Premium Diamond	6383	3	21.2	29.8	22.9	12	22	6.7
34	PFMH-97 I 57 (AMAR)	5669	15	7.7	15.3	9.2	-	8.4	-
35	Rasi-3022	4960	31	-	0.9	-	-	-	-
36	A 7505	4673	41	-	-	-	-	-	-
37	GK 3102	6171	5	17.2	25.5	18.8	8.3	18	3.1
38	GK 3103	6018	6	14.3	22.4	15.9	5.6	15	0.6
39	B 54	5218	23	-	6.1	0.5	-	-	-
40	B 161	5292	19	0.5	7.6	1.9	-	1.2	-
41	SMH-4500 (White)	5338	18	1.4	8.6	2.8	-	2.1	-
42	BMH 108	4829	34	-	-	-	-	-	-
43	Hygreeva	4710	39	-	-	-	-	-	-
44	HTMH 5105	5050	30	-	2.7	-	-	-	-
45	HTMH 5106	4913	33	-	-	-	-	-	-
46	HTMH 5402	4808	36	-	-	-	-	-	-
47	PRO-384	3685	56	-	-	-	-	-	-
48	PRO-385	4646	43	-	-	-	-	-	-
49	JKMH-8035	4473	47	-	-	-	-	-	-
50	DAS-MH-102	3645	57	-	-	-	-	-	-
51	DAS-MH-101	3644	58	-	-	-	-	-	-
52	BIO-237	5786	11	9.9	17.7	11.4	1.6	10.6	-
53	NMH-02	5113	28	-	4	-	-	-	-
54	Maize 105	4630	45	-	-	-	-	-	-
	CHECKS								
55	PMH 1	5265	20	-	7.1	1.4	-	0.7	-
56	PMH 3	4917	32	-	-	-	-	-	-
57	Seed Tech 2324	5193	25	-	5.6	-	-	-	-
58	Bio 9681	5698	14	8.2	15.9	9.7	-	8.9	-
59	HM 11	5231	21	-	6.4	0.7	-	-	-
60	HM 10	5984	7	13.7	21.7	15.2	5	14.4	-

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE					
		SRIN	R	PMH1 SRIN	PMH3 SRIN	SeedTech 2324 SRIN	Bio 9681 SRIN	HM 11 SRIN	HM10 SRIN
	Location Mean	4992							
	Mean Stand	39							
	C.D. (5%)	605							
	C.V. (%)	7.49							
	F (Prob)	0							
	Plot Size	4.8							
	AGRONOMY DATA								
	Sowing Date	24-04							
	Harvest Date	30-10							
	Irrigation Nos	3							
	Fertilizer Applied N	90							
	Fertilizer Applied P	60							
	Fertilizer Applied K	40							

## B326

Table No.40 (Cont..)

S.No.	PEDIGREE	DAYS TO 50%	DAYS TO	DAYS TO	MOISTURE %	GRAIN	STAND AT	PLANT	EAR
		POLLEN SHED	50% SILKING	75% DRY HUSK	AT HARVEST	SHELLING %	HARVEST ( <sup>000</sup> /ha)	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	CMH08-381	105.0	107.7	170.7	26.5	78.8	83.3	158.3	91.7
2	CMH08-381(G)	103.3	106.3	168.0	27.0	78.8	82.6	180.0	95.0
3	CMH09-464	106.0	108.3	171.0	26.5	77.3	81.9	175.0	75.0
4	CMH10-500	105.7	108.7	171.3	32.5	78.0	81.9	180.0	95.0
5	JH 31512	99.0	102.0	156.3	19.0	77.3	81.9	175.0	86.7
6	BH-41030	96.7	99.7	159.7	18.5	76.8	81.9	183.3	76.7
7	BH-41015	96.0	98.7	155.0	19.5	78.8	82.6	165.0	71.7
8	BH-41032	94.7	97.7	153.0	19.0	77.8	81.3	188.3	73.3
9	REH 2010-4	106.3	109.3	169.7	21.5	77.8	81.3	148.3	63.3
10	REH 2010-6	98.7	101.3	169.0	21.0	78.0	81.3	160.0	55.0
11	HKH-415	104.3	106.7	170.3	22.0	76.8	81.9	153.3	78.3
12	IISCH DMR WNC 1	93.7	96.7	165.3	19.5	78.5	82.6	173.3	85.0
13	NMH-1247	90.0	92.3	151.0	18.0	77.8	83.3	156.7	93.3
14	DMH 7705	101.3	104.3	165.7	20.5	78.0	83.3	165.0	78.3
15	Safal X-1	96.7	99.3	149.0	17.5	79.0	83.3	151.7	68.3
16	S6668	106.3	109.3	168.3	20.0	78.0	81.3	161.7	70.0
17	KMH-2619	89.7	92.3	149.3	17.5	76.0	82.6	161.7	75.0
18	KMH-2589	98.7	101.7	158.7	19.5	78.8	81.9	156.7	66.7
19	P3303	90.0	92.7	138.7	17.5	79.0	80.6	148.3	51.7
20	P4546	107.3	110.0	172.0	22.0	79.0	83.3	161.7	68.3
21	X8B680	90.3	65.3	140.7	17.5	77.8	83.3	155.0	61.7
22	X35A178	90.0	92.7	141.0	16.5	78.0	80.6	155.0	71.7
23	X35A180	108.3	110.7	172.7	20.5	78.0	80.6	180.0	91.7
24	X35A182	90.0	93.0	138.0	17.0	78.8	81.9	180.0	95.0
25	X35A187	103.3	106.3	168.3	21.0	78.3	80.6	175.0	81.7
26	Bisco 2324 Plus	95.3	98.3	153.0	19.0	79.0	83.3	156.7	90.0
27	Bisco x 5129	94.3	97.0	155.0	19.5	79.0	81.9	155.0	68.3
28	MCH 45	105.7	108.7	168.3	20.5	78.0	79.2	175.0	86.7
29	MCH 46	99.3	102.0	170.3	22.0	78.8	82.6	183.3	96.7
30	DADA	85.7	88.7	139.0	17.5	77.8	82.6	171.7	68.3
31	Orbit	86.3	89.0	139.7	15.5	77.3	81.9	170.0	78.3
32	Laxmi 333	90.0	92.7	137.7	17.5	77.3	81.3	158.3	86.7

## B327

S.No.	PEDIGREE	DAYS TO 50%	DAYS TO	DAYS TO	MOISTURE %	GRAIN	STAND AT	PLANT	EAR
		POLLEN SHED	50% SILKING	75% DRY HUSK	AT HARVEST	SHELLING %	HARVEST ( <sup>000</sup> /ha)	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
33	GEO Premium Diamond	90.3	93.3	140.3	18.5	78.0	81.3	151.7	70.0
34	PFMH-97 I 57 (AMAR)	89.0	92.0	141.3	19.5	77.3	82.6	170.0	76.7
35	Rasi-3022	99.7	102.3	142.7	19.5	77.8	81.9	191.7	95.0
36	A 7505	99.3	102.3	142.7	17.5	76.8	80.6	188.3	91.7
37	GK 3102	89.7	92.7	137.7	16.5	77.3	82.6	175.0	61.7
38	GK 3103	89.0	92.0	139.0	16.5	78.0	82.6	185.0	86.7
39	B 54	93.7	96.7	157.0	19.0	78.8	82.6	175.0	95.0
40	B 161	94.0	97.0	155.7	19.0	78.8	81.9	155.0	75.0
41	SMH-4500 (White)	107.3	109.7	166.7	23.5	79.0	82.6	200.0	116.7
42	BMH 108	93.7	96.7	155.3	20.5	78.5	79.2	148.3	80.0
43	Hygreeva	92.7	95.7	150.3	19.5	78.0	80.6	158.3	70.0
44	HTMH 5105	104.3	107.0	157.0	20.5	77.8	81.9	166.7	76.7
45	HTMH 5106	98.7	101.7	149.0	22.0	79.0	82.6	175.0	91.7
46	HTMH 5402	98.7	101.7	155.0	21.5	78.0	83.3	168.3	65.0
47	PRO-384	98.7	101.3	157.0	21.0	78.8	81.3	168.3	71.7
48	PRO-385	94.3	97.3	153.0	21.5	76.3	81.9	180.0	95.0
49	JKMH-8035	85.7	88.7	135.7	17.0	77.3	81.3	166.7	75.0
50	DAS-MH-102	108.7	111.3	169.0	25.5	78.5	79.2	140.0	63.3
51	DAS-MH-101	108.7	111.3	173.0	27.5	76.5	80.6	185.0	91.7
52	BIO-237	91.7	94.7	155.0	17.5	77.8	81.3	175.0	76.7
53	NMH-02	94.3	97.3	155.7	18.5	78.8	81.9	185.0	75.0
54	Maize 105	84.3	87.0	138.7	17.5	78.8	79.9	190.0	70.0
	CHECKS								
55	PMH 1	87.7	90.7	136.3	17.5	76.8	82.6	171.7	91.7
56	PMH 3	100.7	103.3	153.0	18.5	78.5	82.6	165.0	81.7
57	Seed Tech 2324	98.3	101.3	154.0	19.0	78.0	82.6	185.0	95.0
58	Bio 9681	92.7	95.7	136.3	17.0	78.3	81.3	185.0	75.0
59	HM 11	93.3	94.7	150.7	18.5	77.3	81.9	186.7	96.7
60	HM 10	88.3	91.3	140.0	17.0	78.8	82.6	201.7	105.0
	Loc. Mean	96.6	98.9	154.2	19.9	78.0	81.9	170.2	80.2
	C.D. (5%)	1.71	10.43	0.89	0.69	0.21	3.08	15.57	10.90
	C.V. (%)	1.09	6.52	0.36	2.13	0.17	2.32	5.66	8.41
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00

## B328

TABLE No. 41  
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF EXPERIMENT AND  
 PLANTED IN 2012 KHARIF AT SRINAGAR IN IET TRIAL No. 62 DURING KHARIF(2011)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE BIO 9637			
		SRIN	R	SRIN	SRIN	SRIN	SRIN
1	P-52	6157	47	-	-	-	-
2	CMH10-471	5031	56	-	-	-	-
3	CMH10-474	4994	57	-	-	-	-
4	CMH10-480	5631	53	-	-	-	-
5	CMH10-516	6701	33	-	-	-	-
6	EH-2174	5348	54	-	-	-	-
7	JH 12160	5915	51	-	-	-	-
8	JH 31354	7621	6	12	8.7	7	4.8
9	JH 31314	7533	10	10.7	7.5	5.8	3.6
10	JH 31467	7580	8	11.4	8.2	6.4	4.2
11	JH 31468	7573	9	11.3	8.1	6.3	4.1
12	JH 31469	7334	14	7.8	4.6	2.9	0.8
13	JH 31470	7291	15	7.1	4	2.3	0.2
14	JH 31522	7355	13	8.1	4.9	3.3	1.1
15	BH-41036	8067	3	18.5	15.1	13.2	10.9
16	BH-41031	7735	5	13.7	10.4	8.6	6.4
17	BH-41040	7112	20	4.5	1.5	-	-
18	EHL 161708 (Hyb)	6606	36	-	-	-	-
19	EHL 165210 (Hyb)	7530	11	10.6	7.4	5.7	3.5
20	MMH-10-1	7100	21	4.3	1.3	-	-
21	MMH-10-2	8266	2	21.5	17.9	16	13.7
22	REH 2010-3	6653	34	-	-	-	-
23	REH 2010-5	6436	43	-	-	-	-
24	HKH-319	6840	28	0.5	-	-	-
25	HKH-320	6482	42	-	-	-	-
26	HKH-321	7047	22	3.5	0.5	-	-

## B329

SI	No	PEDIGREE	GRAIN YIELD (kg/ha)		GRAIN YIELD % SUPERIORITY OVER THE			
			AT 15% MOISTURE		BIO 9637	HM 8	HM 9	PMH 4
			SRIN	R	SRIN	SRIN	SRIN	SRIN
	27	HKH-322	6517	40	-	-	-	-
	28	MM1108	6509	41	-	-	-	-
	29	KMH-3696	8005	4	17.6	14.2	12.4	10.1
	30	KMH-2727	7264	17	6.7	3.7	2	-
	31	X35A188	7044	23	3.5	0.5	-	-
	32	X35A189	8632	1	26.8	23.2	21.2	18.7
	33	X35A194	6703	32	-	-	-	-
	34	Bisco x 4214	6359	44	-	-	-	-
	35	NMWH-27	5784	52	-	-	-	-
	36	MCH 47	6340	45	-	-	-	-
	37	MCH 48	6640	35	-	-	-	-
	38	VMH 4150	5945	50	-	-	-	-
	39	PFMH-96 I 57	6923	25	1.7	-	-	-
	40	X 274	6553	39	-	-	-	-
	41	B 53	6575	38	-	-	-	-
	42	SMH-3900 (Yellow)	6906	27	1.5	-	-	-
	43	BMH 111	7619	7	12	8.7	7	4.8
	44	PRO-382	7260	18	6.7	3.6	1.9	-
	45	PRO-383	6150	48	-	-	-	-
	46	JKMH-10008	7388	12	8.6	5.4	3.7	1.6
	47	DAS-MH-301	6917	26	1.6	-	-	-
	48	Mahabeej-1114	6828	29	0.3	-	-	-
	49	EH 2116	6593	37	-	-	-	-
	50	KNMH 40111	6299	46	-	-	-	-
	51	KNMH 40112	6143	49	-	-	-	-
	52	BH-4062(DHM 117)	5142	55	-	-	-	-
	53	Proline-777	6769	31	-	-	-	-
		CHECKS						
	54	BIO 9637	6805	30	-	-	-	-

## B330

SI	No	PEDIGREE	GRAIN YIELD (kg/ha)		GRAIN YIELD % SUPERIORITY OVER THE			
			AT 15% SRIN	MOISTURE R	BIO 9637 SRIN	HM 8 SRIN	HM 9 SRIN	PMH 4 SRIN
	55	HM 8	7008	24	3	-	-	-
	56	HM 9	7124	19	4.7	1.6	-	-
	57	PMH 4	7273	16	6.9	3.8	2.1	-
		Location Mean	6806					
		Mean Stand	39					
		C.D. (5%)	457					
		C.V. (%)	4.15					
		F (Prob)	0					
		Plot Size	4.8					
		AGRONOMY DATA						
		Sowing Date	23-04					
		Harvest Date	23-10					
		Irrigation Nos	3					
		Fertilizer Applied N	90					
		Fertilizer Applied P	60					
		Fertilizer Applied K	40					



## B331

Table No.41(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	( <sup>000</sup> /ha)	SRIN	SRIN
1	P-52	92.7	95.0	155.0	21.0	76.3	78.5	158.3	90.0
2	CMH10-471	97.0	99.0	157.0	21.5	77.3	80.6	181.7	101.7
3	CMH10-474	97.7	100.0	166.0	22.5	76.8	79.2	203.3	113.3
4	CMH10-480	95.7	98.0	157.0	17.0	77.8	77.8	161.7	85.0
5	CMH10-516	88.7	90.7	159.0	23.0	76.0	81.3	163.3	91.7
6	EH-2174	88.3	91.0	159.0	19.5	77.0	78.5	145.0	66.7
7	JH 12160	88.0	90.3	161.0	24.5	77.3	81.3	173.3	90.0
8	JH 31354	87.3	89.3	143.0	18.5	78.8	81.9	178.3	101.7
9	JH 31314	84.0	86.3	144.0	19.0	77.8	82.6	183.3	111.7
10	JH 31467	84.7	87.0	143.3	19.5	78.3	81.9	196.7	91.7
11	JH 31468	85.3	88.0	144.7	18.0	78.3	80.6	180.0	95.0
12	JH 31469	86.0	88.3	156.0	18.0	78.0	81.9	191.7	101.7
13	JH 31470	84.3	86.3	144.0	21.0	78.3	82.6	191.7	111.7
14	JH 31522	86.7	89.0	141.7	21.0	77.8	81.3	186.7	101.7
15	BH-41036	86.7	88.7	142.3	17.0	77.0	82.6	183.3	96.7
16	BH-41031	90.7	92.7	159.0	18.0	76.0	82.6	178.3	95.0
17	BH-41040	86.0	88.0	159.0	18.0	76.0	81.3	185.0	103.3
18	EHL 161708 (Hyb)	84.3	86.3	144.3	18.0	76.0	79.2	143.3	71.7
19	EHL 165210 (Hyb)	83.0	85.7	141.0	17.0	76.8	81.3	161.7	86.7
20	MMH-10-1	98.0	100.3	161.7	19.0	78.3	81.3	183.3	100.0
21	MMH-10-2	86.0	88.0	157.7	17.0	77.8	81.9	161.7	95.0
22	REH 2010-3	85.3	87.7	159.3	17.0	76.0	78.5	160.0	81.7
23	REH 2010-5	84.0	86.7	144.3	17.5	77.8	79.9	160.0	88.3
24	HKH-319	86.3	88.3	156.0	18.0	78.3	78.5	143.3	70.0
25	HKH-320	88.0	90.0	152.0	18.5	78.0	79.9	170.0	96.7
26	HKH-321	86.7	88.7	144.3	18.5	77.3	82.6	151.7	83.3
27	HKH-322	86.7	89.0	141.3	17.0	78.3	81.9	146.7	71.7
28	MM1108	100.0	102.3	161.3	18.0	77.0	81.3	135.0	68.3
29	KMH-3696	85.3	88.0	139.0	18.0	77.3	81.3	153.3	81.7
30	KMH-2727	95.7	97.7	159.0	18.5	78.0	81.9	175.0	98.3
31	X35A188	92.0	94.0	161.0	19.0	78.3	80.6	173.3	95.0
32	X35A189	84.7	87.0	142.3	21.0	78.8	81.9	160.0	75.0
33	X35A194	85.3	87.7	139.3	17.0	78.8	80.6	173.3	86.7

## B332

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 ( <sup>000</sup> /ha)	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
34	Bisco x 4214	84.3	86.3	155.7	17.0	78.0	81.3	143.3	70.0
35	NMWH-27	94.3	96.3	157.3	21.0	76.0	79.9	146.7	80.0
36	MCH 47	92.0	94.3	160.3	19.5	78.3	81.3	185.0	93.3
37	MCH 48	87.3	89.3	157.3	19.5	78.0	79.9	168.3	73.3
38	VMH 4150	90.7	92.7	161.7	21.5	76.3	80.6	160.0	85.0
39	PFMH-96 I 57	82.0	84.7	134.3	16.5	79.5	79.2	168.3	73.3
40	X 274	87.3	89.3	141.3	19.0	77.3	81.3	133.3	80.0
41	B 53	86.7	89.0	156.3	19.5	78.3	79.2	150.0	78.3
42	SMH-3900 (Yellow)	96.3	99.0	162.3	21.0	76.3	81.9	163.3	88.3
43	BMH 111	80.7	83.0	135.3	17.0	78.0	80.6	151.7	80.0
44	PRO-382	87.3	89.7	156.3	18.0	78.3	82.6	151.7	76.7
45	PRO-383	89.0	91.0	155.0	21.0	77.8	80.6	145.0	75.0
46	JKMH-10008	85.0	87.3	137.3	17.0	78.8	81.9	168.3	85.0
47	DAS-MH-301	101.0	103.0	159.0	19.5	78.3	79.9	145.0	80.0
48	Mahabeej-1114	101.0	103.7	162.0	24.0	77.5	79.9	155.0	80.0
49	EH 2116	99.7	102.0	160.0	23.0	79.3	79.2	141.7	66.7
50	KNMH 40111	90.3	92.7	157.0	23.0	78.5	80.6	160.0	68.3
51	KNMH 40112	102.7	104.7	163.3	21.0	78.0	80.6	163.3	100.0
52	BH-4062(DHM 117)	101.0	103.0	164.3	31.5	77.3	79.9	175.0	91.7
53	Proline-777	95.0	97.0	161.7	24.5	78.0	81.3	171.7	95.0
	CHECKS								
54	BIO 9637	87.3	89.7	142.7	18.5	78.3	81.3	156.7	81.7
55	HM 8	91.3	93.3	156.7	20.0	78.8	81.3	141.7	80.0
56	HM 9	86.7	88.7	138.7	19.0	78.8	81.3	146.7	73.3
57	PMH 4	85.3	87.7	135.0	19.0	79.3	79.2	151.7	78.3
	Loc. Mean	89.6	91.8	152.0	19.6	77.7	80.8	163.8	86.5
	C.D. (5%)	1.46	1.65	1.56	0.50	0.27	3.99	21.15	16.51
	C.V. (%)	1.01	1.11	0.64	1.58	0.21	3.06	7.98	11.80
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00

B333

TABLE No. 43  
 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF EXPERIMENT  
 AND PLANTED IN 2012 KHARIF AT AT SRINAGAR, GOSSAIGAON IN IET TRIAL No. 64 DURING KHARIF(2011)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE					GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9			GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9			
		SRIN	R	GOSS	R	MEAN	R	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN
1	DH-210	4642	11	3576	8	4109	12	-	-	-	-	-	-
2	DH-228	5821	8	3146	11	4483	10	1.8	-	-	-	-	-
3	DH-229	5910	7	3049	12	4479	11	3.4	-	-	-	-	-
4	DH-230	4452	12	4538	2	4495	9	-	0.8	-	-	11.7	-
5	DH-231	5058	10	4145	4	4602	8	-	-	-	-	2.1	-
6	FH 3554	7166	2	3681	7	5423	2	25.3	-	6.1	17.8	-	6.9
7	FH 3555	7077	3	3452	10	5264	3	23.8	-	3	16.3	-	3.8
8	FH 3556	6618	4	3748	6	5183	4	15.7	-	1.4	8.8	-	2.2
9	FH 3558	7226	1	4825	1	6025	1	26.4	7.2	17.9	18.8	18.8	18.8
10	K 75	6408	5	3503	9	4955	7	12.1	-	-	5.3	-	-
CHECKS													
11	Vivek QPM 9	5718	9	4502	3	5110	5	-	-	-	-	10.9	0.7
12	Vivek Hybrid 9	6085	6	4061	5	5073	6	6.4	-	-	-	-	-
Location Mean		6015		3852		4934							
Mean Stand		39		39		39							
C.D. (5%)		336		1920		1128							
C.V. (%)		3.29		29.35		-							
F (Prob)		0		0.685									
Plot Size		4.8		6		-							
AGRONOMY DATA													
Sowing Date		20-04		30-03		-							
Harvest Date		29-09		10-07		-							
Irrigation Nos		3		3		-							
Fertilizer Applied N		90		80		-							
Fertilizer Applied P		60		40		-							
Fertilizer Applied K		40		40		-							

## B334

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	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	CMH10-518	81.3	83.7	139.3	22.0	75.5	75.7	170.0	103.3
2	CMH10-519	83.3	86.0	141.0	22.5	76.5	77.8	175.0	96.7
3	CMH10-525	84.7	87.0	141.7	21.0	75.8	75.7	183.3	108.3
4	CMH10-526	85.7	87.3	142.3	21.5	76.5	76.4	181.7	98.3
5	FH 3534	73.3	74.7	115.0	20.0	77.3	76.4	170.0	85.0
6	FH 3559	74.0	76.3	116.3	18.5	77.8	78.5	153.3	76.7
7	FH 3548	75.7	77.7	115.0	17.5	76.8	79.9	161.7	91.7
8	EH-2184	69.7	72.0	121.0	19.5	76.0	79.2	181.7	91.7
9	EH-2101	71.3	73.3	124.3	20.0	77.0	77.1	200.0	103.3
10	EH-2170	75.3	77.3	129.7	19.5	76.3	76.4	185.0	101.7
11	JH 31485	75.7	78.0	137.7	21.5	77.8	76.4	178.3	95.0
12	REH 2010-1	72.7	75.0	115.7	16.5	77.5	77.1	171.7	95.0
13	REH 2010-2	76.7	78.7	126.0	16.5	78.0	78.5	181.7	113.3
14	VEH-11-1	69.7	72.0	118.3	16.0	78.8	77.8	196.7	111.7
15	Bisco 2238	68.3	70.7	112.0	15.0	78.5	76.4	183.3	81.7
16	K 21	73.0	75.7	120.7	20.5	78.0	76.4	165.0	86.7
17	X 102	71.3	73.3	126.7	17.5	77.8	75.7	168.3	83.3
18	DAS-MH-501	72.3	74.3	124.3	16.5	77.3	77.1	183.3	88.3
	CHECKS								
19	JH-3459	70.0	72.0	125.0	20.0	78.5	77.8	156.7	91.7
20	Prakash	71.7	73.7	124.3	18.5	79.0	79.2	178.3	106.7
	Loc. Mean	74.8	76.9	125.8	19.0	77.3	77.3	176.3	95.5
	C.D. (5%)	3.82	3.98	13.89	0.49	0.34	3.18	19.64	16.29
	C.V. (%)	3.09	3.13	6.68	1.54	0.26	2.49	6.74	10.32
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00

TABLE No. 43

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF EXPERIMENT  
AND PLANTED IN 2012 KHARIF AT AT SRINAGAR, GOSSAIGAON IN IET TRIAL No. 64 DURING KHARIF(2011)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE					GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9			GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9			
		SRIN	R	GOSS	R	MEAN	R	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN
1	DH-210	4642	11	3576	8	4109	12	-	-	-	-	-	-
2	DH-228	5821	8	3146	11	4483	10	1.8	-	-	-	-	-
3	DH-229	5910	7	3049	12	4479	11	3.4	-	-	-	-	-
4	DH-230	4452	12	4538	2	4495	9	-	0.8	-	-	11.7	-
5	DH-231	5058	10	4145	4	4602	8	-	-	-	-	2.1	-
6	FH 3554	7166	2	3681	7	5423	2	25.3	-	6.1	17.8	-	6.9
7	FH 3555	7077	3	3452	10	5264	3	23.8	-	3	16.3	-	3.8
8	FH 3556	6618	4	3748	6	5183	4	15.7	-	1.4	8.8	-	2.2
9	FH 3558	7226	1	4825	1	6025	1	26.4	7.2	17.9	18.8	18.8	18.8
10	K 75	6408	5	3503	9	4955	7	12.1	-	-	5.3	-	-
CHECKS													
11	Vivek QPM 9	5718	9	4502	3	5110	5	-	-	-	-	10.9	0.7
12	Vivek Hybrid 9	6085	6	4061	5	5073	6	6.4	-	-	-	-	-
<b>Location Mean</b>		<b>6015</b>		<b>3852</b>		<b>4934</b>							
Mean Stand		39		39		39							
C.D. (5%)		336		1920		1128							
C.V. (%)		3.29		<b>29.35</b>		-							
F (Prob)		0		0.685									
Plot Size		4.8		6		-							
AGRONOMY DATA													
Sowing Date		20-04		30-03		-							
Harvest Date		29-09		10-07		-							
Irrigation Nos		3		3		-							
Fertilizer Applied N		90		80		-							
Fertilizer Applied P		60		40		-							
Fertilizer Applied K		40		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	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean
1	DH-210	67.7	55.3	61.5	70.3	60.0	65.2	122.0	93.0	107.5	15.5	23.4	19.4	76.5	67.3	71.9	79.2	64.4	71.8	175.0	156.7	165.8	80.0	73.3	76.7
2	DH-228	73.7	54.3	64.0	76.7	60.0	68.3	123.7	92.7	108.2	16.5	23.0	19.8	78.8	72.0	75.4	81.9	68.9	75.4	170.0	155.3	162.7	93.3	63.7	78.5
3	DH-229	69.0	55.0	62.0	71.7	60.0	65.8	118.3	93.7	106.0	15.0	24.5	19.7	78.0	56.9	67.5	79.9	68.3	74.1	163.3	154.0	158.7	85.0	65.7	75.3
4	DH-230	69.7	56.3	63.0	72.0	58.0	65.0	124.7	92.0	108.3	17.5	22.6	20.0	79.0	75.5	77.3	79.9	67.8	73.8	170.0	154.0	162.0	90.0	62.7	76.3
5	DH-231	69.0	56.3	62.7	71.3	63.0	67.2	121.7	91.3	106.5	14.5	24.3	19.4	78.8	70.0	74.4	81.3	63.9	72.6	160.0	148.0	154.0	78.3	63.0	70.7
6	FH 3554	71.3	55.7	63.5	74.0	59.7	66.8	124.7	89.0	106.8	22.0	23.5	22.7	76.0	63.3	69.7	81.3	64.4	72.8	168.3	154.0	161.2	85.0	60.3	72.7
7	FH 3555	75.0	55.0	65.0	77.3	62.0	69.7	131.0	90.3	110.7	21.5	25.2	23.3	76.8	71.4	74.1	81.9	65.6	73.8	160.0	144.7	152.3	83.3	61.0	72.2
8	FH 3556	75.0	54.3	64.7	77.7	59.0	68.3	128.7	89.3	109.0	22.5	22.6	22.5	77.8	72.8	75.3	77.8	63.9	70.8	163.3	154.7	159.0	78.3	63.7	71.0
9	FH 3558	71.3	55.7	63.5	74.3	59.3	66.8	126.0	88.3	107.2	22.0	24.3	23.1	78.3	74.6	76.4	81.3	55.0	68.1	168.3	160.3	164.3	91.7	61.3	76.5
10	K 75	75.3	55.3	65.3	77.7	60.0	68.8	123.0	92.7	107.8	20.0	25.1	22.6	78.0	71.2	74.6	79.9	67.8	73.8	175.0	165.7	170.3	91.7	67.7	79.7
CHECKS																									
11	Vivek QPM 9	68.7	55.3	62.0	71.0	59.7	65.3	120.3	89.0	104.7	14.0	24.0	19.0	77.8	76.5	77.1	81.3	66.1	73.7	173.3	152.3	162.8	83.3	61.7	72.5
12	Vivek Hybrid 9	67.7	56.0	61.8	70.0	59.7	64.8	119.0	91.7	105.3	14.0	24.6	19.3	78.0	71.0	74.5	80.6	65.0	72.8	161.7	149.7	155.7	76.7	60.3	68.5
	Loc. Mean	71.1	55.4	63.3	73.7	60.0	66.8	123.6	91.1	107.3	17.9	23.9	20.9	77.8	70.2	74.0	80.5	65.1	72.8	167.4	154.1	160.7	84.7	63.7	74.2
	C.D. (5%)	1.55	4.10	5.26	1.88	3.16	5.04	1.21	5.70	7.62	1.04	2.40	5.63	0.28	10.53	8.10	3.10	7.35	6.12	14.49	14.07	6.35	14.88	15.38	10.80
	C.V. (%)	1.29	4.38	3.78	1.51	3.11	3.42	0.58	3.69	3.22	3.44	5.93	12.25	0.21	8.86	4.97	2.27	6.67	3.82	5.11	5.39	1.80	10.37	14.26	6.61
	F (Prob)	0.00	0.99	0.80	0.00	0.21	0.47	0.00	0.57	0.90	0.00	0.33	0.54	0.00	0.04	0.34	0.25	0.06	0.55	0.30	0.29	0.00	0.28	0.88	0.51

# B337

Table No.44

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF EXPERIMENT AND PLANTED IN 2012 KHARIF AT SRINAGAR, GOSSAIGAON IN AET-1 TRIAL No. 65 DURING KHARIF(2011)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha)						GRAIN YIELD % SUPERIORITY OVER THE																	
		AT 15% MOISTURE						PMH 1			PMH 3			Seed Tech 2324			Bio 9681			HM 11			HM 10		
		SRIN	R	GOSS	R	MEAN	R	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN
1	CMH08-287	4158	3	2434	17	4158	3	13.9	-	13.9	7.8	-	7.8	15.6	-	15.6	5.5	-	5.5	32.1	-	32.1	7.4	-	7.4
2	CMH08-337	3761	9	3659	12	3761	9	3	7.2	3	-	-	-	4.5	-	4.5	-	-	-	19.5	-	19.5	-	33.5	-
3	JH 12157	5101	1	3476	14	5101	1	39.7	1.9	39.7	32.3	-	32.3	41.8	-	41.8	29.5	-	29.5	62.1	-	62.1	31.7	26.8	31.7
4	NMH-713	4973	2	3640	13	4973	2	36.2	6.7	36.2	29	-	29	38.2	-	38.2	26.2	-	26.2	58	-	58	28.4	32.8	28.4
5	M 9977	4025	5	3742	11	4025	5	10.3	9.7	10.3	4.4	-	4.4	11.9	-	11.9	2.1	-	2.1	27.9	-	27.9	3.9	36.5	3.9
6	P3540	4119	4	4289	9	4119	4	12.9	25.7	12.9	6.8	-	6.8	14.5	-	14.5	4.5	-	4.5	30.9	-	30.9	6.4	56.4	6.4
7	X35A176	3276	13	7982	1	3276	13	-	133.9	-	-	55.9	-	-	38.9	-	-	78.5	-	4.1	77.2	4.1	-	191.1	-
8	Bisco New 704	3250	14	3765	10	3250	14	-	10.3	-	-	-	-	-	-	-	-	-	-	3.3	-	3.3	-	37.3	-
9	A 7501	2823	16	5537	4	2823	16	-	62.3	-	-	8.2	-	-	-	-	-	23.8	-	-	22.9	-	-	101.9	-
10	BIO-562	2641	17	4425	8	2641	17	-	29.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.4	-
11	JH12108	3318	12	6074	2	3318	12	-	78	-	-	18.7	-	-	5.7	-	-	35.8	-	5.4	34.8	5.4	-	121.5	-
CHECKS																									
12	PMH 1	3650	10	3412	15	3650	10	-	-	-	-	-	-	1.5	-	1.5	-	-	-	16	-	16	-	24.4	-
13	PMH 3	3855	8	5119	5	3855	8	5.6	50	5.6	-	-	-	7.2	-	7.2	-	14.4	-	22.5	13.6	22.5	-	86.7	-
14	Seed Tech 2324	3598	11	5746	3	3598	11	-	68.4	-	-	12.2	-	-	-	-	-	28.5	-	14.3	27.5	14.3	-	109.6	-
15	Bio 9681	3941	6	4473	7	3941	6	8	31.1	8	2.2	-	2.2	9.5	-	9.5	-	-	-	25.2	-	25.2	1.7	63.1	1.7
16	HM 11	3147	15	4506	6	3147	15	-	32.1	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	64.3	-
17	HM 10	3873	7	2742	16	3873	7	6.1	-	6.1	0.5	-	0.5	7.7	-	7.7	-	-	-	23.1	-	23.1	-	-	-
Location Mean		3736		4413		3736																			
Mean Stand		79		71		79																			
C.D. (5%)		248		3649		248																			
C.V. (%)		3.99		49.65		-																			
F (Prob)		0		0.273		-																			
Plot Size		9.6		4.8		-																			
AGRONOMY DATA																									
Sowing Date		24-04		11-04		-																			
Harvest Date		30-10		8-08		-																			
Irrigation Nos		3		3		-																			
Fertilizer Applied N		90		80		-																			
Fertilizer Applied P		60		40		-																			
Fertilizer Applied K		40		40		-																			

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 49.7 %

Table No.44 (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 ( <sup>000</sup> /ha)			PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
		SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean
1	CMH08-287	98.7	57.7	78.2	100.3	61.3	80.8	166.0	89.7	127.8	24.0	20.9	22.4	78.0	61.1	69.6	81.6	135.4	108.5	181.7	153.0	167.3	81.7	71.7	76.7
2	CMH08-337	97.0	58.3	77.7	99.0	61.3	80.2	164.3	90.3	127.3	19.5	20.9	20.2	78.3	60.9	69.6	81.3	166.7	124.0	185.0	171.7	178.3	90.0	76.3	83.2
3	JH 12157	97.0	58.3	77.7	99.7	61.3	80.5	144.7	90.7	117.7	18.0	22.2	20.1	78.0	63.5	70.8	82.3	152.8	117.5	190.0	165.7	177.8	86.7	59.3	73.0
4	NMH-713	87.0	57.3	72.2	90.0	61.7	75.8	141.3	90.3	115.8	16.0	22.3	19.1	78.0	66.0	72.0	83.0	142.4	112.7	170.0	178.0	174.0	76.7	80.0	78.3
5	M 9977	106.0	58.0	82.0	108.7	62.0	85.3	170.0	90.7	130.3	24.0	23.5	23.7	78.3	66.7	72.5	82.3	170.1	126.2	193.3	174.0	183.7	105.0	71.0	88.0
6	P3540	104.3	58.3	81.3	106.7	62.0	84.3	166.0	88.7	127.3	20.5	22.4	21.5	77.3	64.0	70.6	82.3	158.3	120.3	175.0	190.0	182.5	91.7	81.7	86.7
7	X35A176	106.3	58.0	82.2	109.0	61.7	85.3	172.0	91.0	131.5	26.0	24.3	25.1	78.8	68.5	73.6	81.9	136.8	109.4	200.0	190.7	195.3	100.0	80.0	90.0
8	Bisco New 704	103.0	58.7	80.8	105.3	62.7	84.0	168.0	87.3	127.7	24.5	22.5	23.5	77.3	65.0	71.1	81.3	145.8	113.5	170.0	190.0	180.0	95.0	83.0	89.0
9	A 7501	105.0	57.7	81.3	107.7	64.3	86.0	170.0	89.3	129.7	35.5	22.0	28.8	79.3	64.2	71.7	81.9	145.8	113.9	158.3	189.0	173.7	76.7	80.0	78.3
10	BIO-562	107.3	58.3	82.8	110.0	62.3	86.2	170.0	88.0	129.0	37.0	23.0	30.0	78.3	66.9	72.6	82.3	163.2	122.7	170.0	174.3	172.2	85.0	78.3	81.7
11	JH12108	104.0	57.7	80.8	106.3	62.3	84.3	172.0	91.0	131.5	26.5	21.4	24.0	78.0	61.5	69.8	82.3	156.3	119.3	140.0	173.0	156.5	73.3	71.7	72.5
CHECKS																									
12	PMH 1	92.0	57.0	74.5	94.7	60.3	77.5	147.3	89.7	118.5	20.0	21.5	20.8	77.8	63.9	70.8	82.6	159.7	121.2	170.0	182.7	176.3	80.0	73.3	76.7
13	PMH 3	105.0	58.0	81.5	108.0	61.3	84.7	161.0	88.7	124.8	22.0	23.4	22.7	78.8	68.5	73.6	81.9	157.6	119.8	175.0	186.7	180.8	85.0	86.0	85.5
14	Seed Tech 2324	106.0	57.7	81.8	108.7	61.0	84.8	163.0	85.7	124.3	22.5	23.5	23.0	78.0	66.3	72.1	82.6	150.0	116.3	165.0	165.0	165.0	90.0	66.7	78.3
15	Bio 9681	89.0	58.7	73.8	92.0	63.0	77.5	141.3	89.0	115.2	19.0	22.7	20.9	77.3	65.9	71.6	82.6	116.7	99.7	178.3	169.0	173.7	96.7	65.0	80.8
16	HM 11	91.0	58.0	74.5	94.0	62.0	78.0	143.3	89.0	116.2	21.0	22.3	21.7	77.0	67.0	72.0	81.6	125.0	103.3	151.7	179.0	165.3	83.3	71.7	77.5
17	HM 10	87.0	57.0	72.0	89.3	61.0	75.2	138.7	88.7	113.7	19.0	22.3	20.7	78.8	66.3	72.5	81.9	115.3	98.6	195.0	165.0	180.0	96.7	69.0	82.8
<b>Loc. Mean</b>		<b>99.2</b>	<b>57.9</b>	<b>78.5</b>	<b>101.7</b>	<b>61.9</b>	<b>81.8</b>	<b>158.8</b>	<b>89.3</b>	<b>124.0</b>	<b>23.2</b>	<b>22.4</b>	<b>22.8</b>	<b>78.0</b>	<b>65.1</b>	<b>71.5</b>	<b>82.1</b>	<b>146.9</b>	<b>114.5</b>	<b>174.6</b>	<b>176.3</b>	<b>175.4</b>	<b>87.8</b>	<b>74.4</b>	<b>81.1</b>
C.D. (5%)		0.63	1.73	10.82	0.86	2.21	10.69	1.77	4.36	19.08	0.64	1.31	8.41	0.20	2.25	3.52	1.89	35.89	24.80	7.96	27.26	30.84	7.69	14.44	18.06
C.V. (%)		0.38	1.79	6.50	0.51	2.15	6.17	0.67	2.94	7.26	1.66	3.50	17.38	0.16	2.08	2.32	1.38	14.68	10.21	2.74	9.30	8.29	5.26	11.67	10.50
F (Prob)		0.00	0.76	0.43	0.00	0.19	0.39	0.00	0.60	0.50	0.00	0.00	0.42	0.00	0.00	0.39	0.89	0.08	0.50	0.00	0.24	0.72	0.00	0.04	0.67



## B339

TABLE No.45

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF EXPERIMENT AND PLANTED IN 2012 KHARIF AT SRINAGAR, GOSSAIGAON IN AET-1 TRIAL No.66 DURING KHARIF(2011)

Sl. No	PEDIGREE	GRAIN YIELD (kg/ha)						GRAIN YIELD % SUPERIORITY OVER THE								
		AT 15% MOISTURE						BIO 9637			HM 8			HM 9		
		SRIN	R	GOSS	R	MEAN	R	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN
1	CMH08-292	3637	33	2080	25	3637	33	-	22.8	-	-	75.8	-	-	52.1	-
2	CMH08-350	4550	26	3731	4	4550	26	-	120.2	-	5.6	215.3	5.6	12.1	172.8	12.1
3	CMH08-433	4962	17	2396	19	4962	17	-	41.4	-	15.2	102.5	15.2	22.3	75.2	22.3
4	EH-1974	5267	12	4154	1	5267	12	2.7	145.2	2.7	22.2	251.1	22.2	29.8	203.8	29.8
5	EC-3161	4798	20	1538	31	4798	20	-	-	-	11.4	30	11.4	18.2	12.4	18.2
6	JH 31404	4808	19	2534	15	4808	19	-	49.6	-	11.6	114.2	11.6	18.5	85.3	18.5
7	BH41001	4611	25	3035	8	4611	25	-	79.1	-	7	156.5	7	13.6	121.9	13.6
8	BH41009	4736	22	2030	26	4736	22	-	19.8	-	9.9	71.6	9.9	16.7	48.5	16.7
9	MMH-09-4	4476	29	2634	12	4476	29	-	55.4	-	3.9	122.6	3.9	10.3	92.6	10.3
10	REH 2009-15	4529	27	3298	5	4529	27	-	94.6	-	5.1	178.7	5.1	11.6	141.1	11.6
11	HKH-414	5196	14	3125	7	5196	14	1.3	84.4	1.3	20.6	164.1	20.6	28	128.5	28
12	NMH-1242	5290	11	2894	10	5290	11	3.1	70.8	3.1	22.8	144.6	22.8	30.4	111.6	30.4
13	S6217	4317	30	2898	9	4317	30	-	71	-	0.2	144.9	0.2	6.4	111.9	6.4
14	S6304	4942	18	2609	13	4942	18	-	54	-	14.7	120.5	14.7	21.8	90.8	21.8
15	BIO 151	6316	4	4040	3	6316	4	23.1	138.4	23.1	46.6	241.5	46.6	55.6	195.4	55.6
16	P3396	7445	1	2360	20	7445	1	45.2	39.3	45.2	72.8	99.5	72.8	83.5	72.6	83.5
17	X35A173	5541	9	1792	28	5541	9	8	5.8	8	28.6	51.5	28.6	36.5	31.1	36.5
18	X35A174	5585	8	2299	22	5585	8	8.9	35.7	8.9	29.6	94.3	29.6	37.6	68.1	37.6
19	Bisco 2668	5254	13	1879	27	5254	13	2.4	10.9	2.4	22	58.8	22	29.5	37.4	29.5
20	YUVRAJ GOLD	6239	5	2142	24	6239	5	21.6	26.4	21.6	44.8	81	44.8	53.7	56.6	53.7
21	TITAN	6685	2	2480	17	6685	2	30.3	46.4	30.3	55.2	109.6	55.2	64.7	81.3	64.7
22	IMH-666	5671	7	1614	30	5671	7	10.6	-	10.6	31.6	36.4	31.6	39.7	18	39.7
23	VMH 4106	4501	28	2484	16	4501	28	-	46.6	-	4.5	110	4.5	10.9	81.7	10.9
24	KDMH 176	5088	16	2762	11	5088	16	-	63	-	18.1	133.5	18.1	25.4	102	25.4
25	PFMH-96 I 41	4787	21	4082	2	4787	21	-	140.9	-	11.1	245	11.1	18	198.5	18
26	PFMH-96 N 46	5920	6	2572	14	5920	6	15.4	51.8	15.4	37.4	117.4	37.4	45.9	88	45.9
27	B 63	6406	3	2358	21	6406	3	24.9	39.1	24.9	48.7	99.3	48.7	57.9	72.4	57.9

# B340

SI. No	PEDIGREE	GRAIN YIELD (kg/ha)						GRAIN YIELD % SUPERIORITY OVER THE								
		AT 15% MOISTURE						BIO 9637			HM 8			HM 9		
		SRIN	R	GOSS	R	MEAN	R	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN
28	JKMh-7004	4658	24	2182	23	4658	24	-	28.8	-	8.1	84.5	8.1	14.8	59.6	14.8
29	BIO-688	5513	10	3133	6	5513	10	7.5	84.9	7.5	28	164.8	28	35.9	129.1	35.9
30	KNMH401061	4709	23	2477	18	4709	23	-	46.2	-	9.3	109.4	9.3	16	81.1	16
CHECKS																
31	BIO 9637	5129	15	1694	29	5129	15	-	-	-	19	43.2	19	26.4	23.9	26.4
32	HM 8	4309	31	1183	33	4309	31	-	-	-	-	-	-	6.2	-	6.2
33	HM 9	4058	32	1368	32	4058	32	-	-	-	-	15.6	-	-	-	-
	Location Mean	5150		2541		5150										
	Mean Stand	79		78		79										
	C.D. (5%)	326		1805		326										
	C.V. (%)	3.88		43.54		-										
	F (Prob)	0		0.114												
	Plot Size	9.6		9.6		-										
AGRONOMY DATA																
	Sowing Date	24-04		31-03		-										
	Harvest Date	23-10		6-08		-										
	Irrigation Nos	3		3		-										
	Fertilizer Applied N	90		80		-										
	Fertilizer Applied P	60		40		-										
	Fertilizer Applied K	40		40		-										

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 43.5 %



## B342

TABLE No.46

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS / COMPOSITES OF 2011 KHARIF EXPERIMENT AND PLANTED IN 2012 KHARIF AT SRINAGAR, GOSSAIGAON IN AET-1 TRIAL No. 67 DURING KHARIF(2011)

Sl.No	PEDIGREE	GRAIN YIELD (kg/ha)						GRAIN YIELD % SUPERIORITY OVER THE					
		AT 15% MOISTURE						Prakash			JH 3459		
		SRIN	R	GOSS	R	MEAN	R	SRIN	GOSS	MEAN	SRIN	GOSS	MEAN
1	FH 3513	4861	14	1901	3	4861	14	-	53.8	-	-	98.7	-
2	JH 31204	5086	13	1790	4	5086	13	-	44.8	-	-	87.2	-
3	JH 31403	5642	12	1909	2	5642	12	-	54.4	-	-	99.5	-
4	EHL 162508 (Hyb)	5792	11	1740	5	5792	11	-	40.7	-	-	81.9	-
5	REH 2009-11	4299	15	1252	12	4299	15	-	1.3	-	-	30.9	-
6	REH 2009-12	3520	16	1283	11	3520	16	-	3.8	-	-	34.1	-
7	HKH-317	5849	10	1693	6	5849	10	-	36.9	-	-	77	-
8	SUN VAAMAN	5934	8	1640	8	5934	8	1.2	32.7	1.2	-	71.5	-
9	KMH-128	6446	6	2096	1	6446	6	10	69.5	10	-	119.1	-
10	31Y45	7756	2	1045	15	7756	2	32.3	-	32.3	11.8	9.3	11.8
11	X8B561	6901	4	1590	9	6901	4	17.7	28.6	17.7	-	66.3	-
12	X8F984	8101	1	1517	10	8101	1	38.2	22.7	38.2	16.8	58.6	16.8
13	KDMH 755	6440	7	1648	7	6440	7	9.9	33.3	9.9	-	72.3	-
14	KNMH 4010141	6642	5	1245	13	6642	5	13.3	0.7	13.3	-	30.1	-
CHECKS													
15	Prakash	5863	9	1236	14	5863	9	-	-	-	-	29.2	-
16	JH 3459	6938	3	957	16	6938	3	18.3	-	18.3	-	-	-
<b>Location Mean</b>		<b>6004</b>		<b>1534</b>		<b>6004</b>							
Mean Stand		78		67		78							
C.D. (5%)		401		851		401							
C.V. (%)		4		<b>33.24</b>		-							
F (Prob)		0		0.262									
Plot Size		9.6		14.4		-							
AGRONOMY DATA													
Sowing Date		23-04		11-04		-							
Harvest Date		15-10		13-08		-							
Irrigation Nos		3		3		-							
Fertilizer Applied N		90		80		-							
Fertilizer Applied P		60		40		-							
Fertilizer Applied K		40		40		-							

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 33.2 %

Table No.46(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	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean
1	FH 3513	82.7	58.0	70.3	85.0	62.0	73.5	138.0	90.7	114.3	17.5	20.3	18.9	79.0	63.9	71.4	80.2	46.3	63.3	166.7	145.0	155.8	85.0	41.7	63.3
2	JH 31204	82.0	57.7	69.8	84.7	62.0	73.3	141.3	90.3	115.8	19.5	20.3	19.9	78.0	65.3	71.6	80.6	47.5	64.0	175.0	163.3	169.2	93.3	56.7	75.0
3	JH 31403	80.3	56.3	68.3	82.7	60.3	71.5	139.3	89.0	114.2	19.5	21.8	20.6	78.3	65.9	72.1	81.6	50.9	66.3	176.7	165.0	170.8	103.3	65.0	84.2
4	EHL 162508 (Hyb)	81.7	61.3	71.5	84.3	61.3	72.8	140.7	88.3	114.5	18.0	20.9	19.4	77.5	61.5	69.5	81.3	48.6	64.9	168.3	162.7	165.5	96.7	63.3	80.0
5	REH 2009-11	82.7	57.3	70.0	85.3	61.3	73.3	144.7	88.3	116.5	19.5	20.6	20.0	79.3	61.4	70.3	80.9	40.7	60.8	175.0	160.0	167.5	100.0	66.7	83.3
6	REH 2009-12	83.7	57.7	70.7	86.3	61.7	74.0	142.3	88.7	115.5	20.0	20.7	20.3	78.0	61.4	69.7	78.1	49.1	63.6	175.0	152.7	163.8	93.3	50.0	71.7
7	HKH-317	80.7	57.7	69.2	82.7	61.0	71.8	135.3	87.7	111.5	17.5	20.7	19.1	78.3	63.2	70.7	81.6	55.6	68.6	173.3	158.3	165.8	91.7	53.3	72.5
8	SUN VAAMAN	83.0	57.0	70.0	85.3	62.0	73.7	141.3	89.3	115.3	16.5	21.9	19.2	76.8	60.5	68.6	82.3	51.6	67.0	163.3	141.7	152.5	78.3	47.7	63.0
9	KMH-128	75.7	57.7	66.7	78.3	61.7	70.0	131.7	88.3	110.0	15.0	21.0	18.0	78.8	60.8	69.8	82.3	50.0	66.1	168.3	138.3	153.3	78.3	41.3	59.8
10	31Y45	82.7	58.0	70.3	84.7	62.0	73.3	138.3	89.3	113.8	15.0	21.8	18.4	79.0	62.0	70.5	82.3	41.7	62.0	185.0	165.7	175.3	93.3	63.7	78.5
11	X8B561	81.0	57.7	69.3	83.3	61.7	72.5	137.3	89.0	113.2	16.5	21.1	18.8	78.5	62.0	70.2	82.3	45.8	64.1	178.3	156.0	167.2	86.7	64.3	75.5
12	X8F984	81.0	58.3	69.7	83.3	62.3	72.8	136.7	89.3	113.0	17.5	22.1	19.8	78.0	65.5	71.7	82.3	42.4	62.3	195.0	149.0	172.0	103.3	69.0	86.2
13	KDMH 755	85.0	57.3	71.2	87.7	62.3	75.0	147.0	89.3	118.2	18.5	20.2	19.4	78.8	61.7	70.2	81.3	39.8	60.5	178.3	154.3	166.3	96.7	60.0	78.3
14	KNMH 4010141	82.7	57.0	69.8	84.7	62.0	73.3	139.7	89.3	114.5	17.5	20.8	19.1	77.8	60.3	69.0	81.9	45.1	63.5	156.7	135.0	145.8	80.0	49.3	64.7
CHECKS																									
15	Prakash	83.7	58.3	71.0	85.7	62.7	74.2	139.3	89.7	114.5	18.0	19.4	18.7	79.0	59.9	69.4	81.6	41.7	61.6	180.0	128.3	154.2	93.3	42.7	68.0
16	JH 3459	82.0	58.0	70.0	84.7	62.3	73.5	138.0	89.3	113.7	16.0	19.0	17.5	78.8	59.4	69.1	82.3	50.9	66.6	168.3	125.0	146.7	93.3	38.0	65.7
<b>Loc. Mean</b>		<b>81.9</b>	<b>57.8</b>	<b>69.9</b>	<b>84.3</b>	<b>61.8</b>	<b>73.0</b>	<b>139.4</b>	<b>89.1</b>	<b>114.3</b>	<b>17.6</b>	<b>20.8</b>	<b>19.2</b>	<b>78.3</b>	<b>62.1</b>	<b>70.2</b>	<b>81.4</b>	<b>46.7</b>	<b>64.1</b>	<b>174.0</b>	<b>150.0</b>	<b>162.0</b>	<b>91.7</b>	<b>54.5</b>	<b>73.1</b>
C.D. (5%)		0.94	2.91	3.51	1.17	1.70	2.87	3.56	2.69	5.38	0.85	1.72	2.82	0.30	2.43	3.28	2.75	16.97	7.14	12.63	21.97	19.48	10.37	19.25	12.24
C.V. (%)		0.69	3.01	2.36	0.83	1.65	1.84	1.53	1.81	2.21	2.91	4.97	6.91	0.23	2.35	2.19	2.03	21.78	5.22	4.36	8.78	5.64	6.78	21.17	7.86
F (Prob)		0.00	0.38	0.51	0.00	0.50	0.21	0.00	0.80	0.40	0.00	0.04	0.67	0.00	0.00	0.55	0.24	0.85	0.51	0.00	0.01	0.09	0.00	0.02	0.00



Table No.47 (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	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean	SRIN	GOSS	Mean
1	FH 3510	67.7	55.3	61.5	70.3	60.0	65.2	117.7	93.7	105.7	15.5	24.2	19.9	78.8	59.6	69.2	80.9	81.3	81.1	150.0	168.7	159.3	65.0	77.0	71.0
2	FH 3525	69.3	57.0	63.2	71.7	61.3	66.5	119.3	93.7	106.5	13.5	25.6	19.6	79.3	65.0	72.1	80.2	77.1	78.6	161.7	173.3	167.5	75.0	78.3	76.7
3	KH-9888	68.7	53.0	60.8	71.7	59.3	65.5	121.0	95.0	108.0	19.5	24.2	21.8	78.3	75.8	77.0	81.3	77.4	79.3	185.0	167.0	176.0	91.7	71.0	81.3
	CHECKS																								
4	Vivek Hybrid 9	64.3	52.7	58.5	66.3	59.3	62.8	120.3	93.7	107.0	18.0	23.5	20.7	77.5	72.3	74.9	81.6	85.1	83.3	178.3	158.3	168.3	83.3	69.0	76.2
5	Vivek QPM 9	63.0	57.3	60.2	65.3	60.7	63.0	121.7	93.3	107.5	17.5	25.3	21.4	77.8	76.2	77.0	82.3	74.3	78.3	176.7	164.3	170.5	83.3	70.3	76.8
6	Prakash	65.7	55.7	60.7	67.7	61.3	64.5	122.3	94.0	108.2	16.5	23.2	19.8	79.3	78.2	78.7	81.6	74.7	78.1	185.0	170.7	177.8	91.7	72.3	82.0
7	JH 3459	68.3	57.0	62.7	70.7	60.7	65.7	122.7	94.0	108.3	17.5	25.8	21.7	78.3	72.6	75.4	80.6	84.4	82.5	190.0	176.0	183.0	93.3	75.7	84.5
8	BIO 9637	74.7	52.7	63.7	77.0	60.0	68.5	125.7	93.7	109.7	20.0	25.0	22.5	76.3	68.8	72.5	81.6	74.0	77.8	203.3	152.3	177.8	118.3	60.0	89.2
9	HM 8	77.0	55.3	66.2	79.0	61.0	70.0	131.7	93.7	112.7	21.5	22.6	22.0	77.8	65.9	71.8	81.3	75.7	78.5	186.7	151.3	169.0	101.7	61.7	81.7
	<b>Loc. Mean</b>	<b>68.7</b>	<b>55.1</b>	<b>61.9</b>	<b>71.1</b>	<b>60.4</b>	<b>65.7</b>	<b>122.5</b>	<b>93.9</b>	<b>108.2</b>	<b>17.7</b>	<b>24.3</b>	<b>21.0</b>	<b>78.1</b>	<b>70.5</b>	<b>74.3</b>	<b>81.3</b>	<b>78.2</b>	<b>79.7</b>	<b>179.6</b>	<b>164.7</b>	<b>172.1</b>	<b>89.3</b>	<b>70.6</b>	<b>79.9</b>
	C.D. (5%)	5.16	5.56	8.70	5.29	2.35	7.42	1.07	1.67	6.83	0.38	4.40	5.08	0.14	4.06	10.18	2.10	11.31	7.49	22.96	30.43	34.57	22.62	21.74	34.15
	C.V. (%)	4.34	5.83	6.09	4.30	2.25	4.89	0.51	1.03	2.74	1.24	10.45	10.47	0.11	3.33	5.94	1.50	8.35	4.07	7.38	10.68	8.71	14.64	17.79	18.53
	F (Prob)	0.00	0.44	0.67	0.00	0.48	0.46	0.00	0.66	0.53	0.00	0.76	0.84	0.00	0.00	0.51	0.61	0.31	0.62	0.01	0.64	0.86	0.01	0.63	0.96

TABLE No.48  
 PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS/ COMPOSITES OF 2011 KHARIF EXPERIMENT AND  
 PLANTED IN 2012 KHARIF AT SRINAGAR IN AET-2 TRIAL No.69 -Z1 DURING KHARIF(2011)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha)		GRAIN YIELD % SUPERIORITY OVER THE					
		AT 15% MOISTURE		PMH 1	PMH 3	SeedTech 2324	Bio 9681	HM 11	HM 10
		SRIN	R	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	NMH-958	2972	9	-	-	-	-	-	-
2	MCH 40	4759	3	-	-	1.1	11.1	26.7	2.9
3	NMH-920	4440	6	-	-	-	3.6	18.2	-
	CHECKS								
4	PMH 1	4945	1	-	0.7	5	15.4	31.6	6.9
5	PMH 3	4909	2	-	-	4.3	14.6	30.7	6.1
6	SeedTech 2324	4708	4	-	-	-	9.9	25.3	1.8
7	Bio 9681	4284	7	-	-	-	-	14	-
8	HM 11	3757	8	-	-	-	-	-	-
9	HM 10	4625	5	-	-	-	7.9	23.1	-
	Location Mean	4378							
	Mean Stand	119							
	C.D. (5%)	257							
	C.V. (%)	3.38							
	F (Prob)	0							
	Plot Size	14.4							
	AGRONOMY DATA								
	Sowing Date	24-04							
	Harvest Date	31-10							
	Irrigation Nos	3							
	Fertilizer Applied N	90							
	Fertilizer Applied P	60							
	Fertilizer Applied K	40							



Table No.48(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	NMH-958	103.3	105.3	172.3	25.0	78.3	82.2	178.3	100.0
2	MCH 40	91.7	94.0	158.3	18.5	79.0	81.7	171.7	81.7
3	NMH-920	93.3	95.3	161.7	23.0	78.8	82.6	158.3	76.7
	CHECKS								
4	PMH 1	87.3	89.7	140.0	18.5	79.0	83.1	160.0	78.3
5	PMH 3	99.3	101.3	155.7	21.0	79.3	82.4	181.7	100.0
6	SeedTech 2324	97.3	99.7	157.7	23.5	78.8	82.2	165.0	93.3
7	Bio 9681	87.3	89.7	139.0	17.0	78.0	82.9	175.0	90.0
8	HM 11	87.3	89.7	156.0	23.0	77.3	82.4	163.3	81.7
9	HM 10	84.3	86.3	138.0	17.0	79.0	82.6	181.7	93.3
	Loc. Mean	92.4	94.6	153.2	20.7	78.6	82.5	170.6	88.3
	C.D. (5%)	0.33	0.76	0.90	0.72	0.23	1.53	8.41	8.22
	C.V. (%)	0.21	0.47	0.34	2.01	0.17	1.07	2.85	5.38
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00

TABLE No.49  
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2011 KHARIF EXPERIMENT AND PLANTED IN  
 2012 KHARIF AT GOSSAIGAON IN AET-2 IN TRIAL No.70 DURING KHARIF(2011)

Sl.No	PEDIGREE	GRAIN YIELD (kg/ha)		GRAIN YIELD % SUPERIORITY OVER THE			
		AT 15% MOISTURE		BIO 9637	HM 8	HM 9	PMH 4
		GOSS	R	GOSS	GOSS	GOSS	GOSS
1	MCH 42	9809	5	-	17.4	-	-
2	JH 31292	8616	8	-	3.1	-	-
3	NMH-803	8733	7	-	4.5	-	-
4	KMH-218 Plus	8901	6	-	6.5	-	-
5	KMH-3426	8604	9	-	3	-	-
6	X8B691	9867	4	-	18.1	-	-
7	KDMH 017	7905	11	-	-	-	-
8	VEH-09-2	7527	12	-	-	-	-
9	HKH-313	7028	13	-	-	-	-
CHECKS							
10	BIO 9637	10255	2	-	22.7	-	2.3
11	HM 8	8356	10	-	-	-	-
12	HM 9	10870	1	6	30.1	-	8.5
13	PMH 4	10022	3	-	19.9	-	-
Location Mean		8961					
Mean Stand		114					
C.D. (5%)		3528					
C.V. (%)		23.31					
F (Prob)		0.669					
Plot Size		9.6					
AGRONOMY DATA							
Sowing Date		30-03					
Harvest Date		12-07					
Irrigation Nos		3					
Fertilizer Applied N		80					
Fertilizer Applied P		40					
Fertilizer Applied K		40					

Table No. 49(Cont..)

S.No.	PEDIGREE	DAYS TO 50%	DAYS TO 50%	DAYS TO 75% DRY	MOISTURE % AT	GRAIN SHELLING %	STAND AT	PLANT HEIGHT(cm)	EAR HEIGHT(cm)
		POLLEN SHED	SILKING	HUSK	HARVEST		HARVEST ('000/ha)		
		GOSS	GOSS	GOSS	GOSS	GOSS	GOSS	GOSS	GOSS
1	MCH 42	61.3	65.7	96.3	25.1	74.3	118.4	190.0	83.3
2	JH 31292	62.0	66.0	96.3	25.0	84.1	120.1	182.3	80.3
3	NMH-803	60.7	65.7	95.7	25.9	69.3	114.2	196.7	80.0
4	KMH-218 Plus	60.7	65.3	95.3	25.4	74.5	123.6	193.3	81.3
5	KMH-3426	60.0	65.0	95.7	23.8	70.5	122.2	179.3	76.7
6	X8B691	60.0	65.3	95.7	24.4	78.5	124.3	203.7	84.3
7	KDMH 017	61.3	65.7	93.7	26.4	75.8	122.9	198.3	86.7
8	VEH-09-2	61.3	65.3	95.3	26.1	74.7	119.8	188.3	91.7
9	HKH-313	61.3	65.3	92.7	24.5	68.5	117.4	202.3	91.7
	CHECKS								
10	BIO 9637	60.0	64.7	95.0	30.8	77.8	118.1	200.0	89.7
11	HM 8	60.0	64.7	95.0	26.4	76.1	119.1	190.0	86.7
12	HM 9	60.0	65.0	94.3	23.6	80.8	108.7	186.7	89.3
13	PMH 4	60.7	65.3	94.3	24.1	78.1	116.3	190.0	86.7
	Loc. Mean	60.7	65.3	95.0	25.5	75.6	118.9	192.4	85.3
	C.D. (5%)	1.48	1.23	3.01	3.62	8.27	10.09	25.48	24.37
	C.V. (%)	1.44	1.12	1.88	8.44	6.49	5.04	7.86	16.97
	F (Prob)	0.09	0.58	0.45	0.04	0.03	0.19	0.70	0.98

B350

Table No. 50  
 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF  
 EXPERIMENT AND PLANTED IN 2012 KHARIF AT SRINAGAR IN AET-2 TRIAL No. 71 DURING KHARIF(2011)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE			
		SRIN	R	Prakash SRIN	JH 3459 SRIN	BIO 9637 SRIN	PMH 4 SRIN
1	FH 3506	5964	5	-	19.7	-	18.5
2	BIO 605	6117	2	0.7	22.7	0.1	21.6
3	KH-9560	6361	1	4.7	27.6	4.1	26.4
4	REH 2001	4530	9	-	-	-	-
5	REH 2003	5908	6	-	18.5	-	17.4
CHECKS							
6	Prakash	6076	4	-	21.9	-	20.8
7	JH 3459	4984	8	-	-	-	-
8	BIO 9637	6109	3	0.5	22.6	-	21.4
9	PMH 4	5032	7	-	1	-	-
Location Mean		5676					
Mean Stand		114					
C.D. (5%)		183					
C.V. (%)		1.85					
F (Prob)		0					
Plot Size		14.4					
AGRONOMY DATA							
Sowing Date		23-04					
Harvest Date		10-11					
Irrigation Nos		3					
Fertilizer Applied N		90					
Fertilizer Applied P		60					
Fertilizer Applied K		40					

## B351

Table No.50(Cont..)

S.No.	PEDIGREE	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	MOISTURE % AT	GRAIN SHELLING	STAND AT	PLANT	EAR HEIGHT(cm)
		POLLEN SHED	SILKING	DRY HUSK	HARVEST	%	HARVEST	HEIGHT(cm)	
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	FH 3506	78.0	80.0	136.3	16.0	78.5	76.6	151.7	78.3
2	BIO 605	80.3	82.3	138.0	17.0	78.8	79.4	185.0	103.3
3	KH-9560	79.0	81.3	136.0	18.0	78.0	80.1	160.0	80.0
4	REH 2001	79.3	82.0	139.0	16.5	77.3	79.2	186.7	93.3
5	REH 2003	79.3	81.3	136.3	19.0	78.3	80.6	175.0	96.7
	CHECKS								
6	Prakash	77.3	80.0	132.7	17.5	79.3	80.8	175.0	98.3
7	JH 3459	80.0	82.3	132.3	18.0	77.8	80.1	153.3	88.3
8	BIO 9637	81.3	83.3	132.7	19.0	76.8	79.9	198.3	106.7
9	PMH 4	79.0	81.7	138.0	20.5	78.8	78.9	168.3	90.0
	Loc. Mean	79.3	81.6	135.7	17.9	78.1	79.5	172.6	92.8
	C.D. (5%)	1.01	1.07	1.93	0.43	0.36	3.44	32.97	17.46
	C.V. (%)	0.74	0.76	0.82	1.39	0.27	2.50	11.03	10.87
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.37	0.10	0.04

B352

Table No.51

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES OF 2011 KHARIF EXPERIMENT AND PLANTED IN 2012 KHARIF AT SRINAGAR IN AET-2 TRIAL No. 72 DURING KHARIF(2011)

SI.No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE					
		SRIN	R	Vivek Hybrid 9 SRIN	Vivek QPM 9 SRIN	Prakash SRIN	JH 3459 SRIN	BIO 9637 SRIN	PMH 4 SRIN
1	FH 3478	4360	6	-	-	4.2	-	-	0.7
2	FH 3483	5766	1	16.3	22.1	37.8	27.6	5.1	33.2
CHECKS									
3	Vivek Hybrid 9	4959	3	-	5	18.5	9.8	-	14.6
4	Vivek QPM 9	4724	4	-	-	12.9	4.6	-	9.1
5	Prakash	4186	8	-	-	-	-	-	-
6	JH 3459	4517	5	-	-	7.9	-	-	4.4
7	BIO 9637	5485	2	10.6	16.1	31	21.4	-	26.7
8	PMH 4	4328	7	-	-	3.4	-	-	-
Location Mean		4791							
Mean Stand		115							
C.D. (5%)		346							
C.V. (%)		4.09							
F (Prob)		0							
Plot Size		14.4							
AGRONOMY DATA									
Sowing Date		20-04							
Harvest Date		1-10							
Irrigation Nos		3							
Fertilizer Applied N		90							
Fertilizer Applied P		60							
Fertilizer Applied K		40							

Table No. 51 (Cont..)

S.No.	PEDIGREE	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	MOISTURE % AT	GRAIN SHELLING	STAND AT	PLANT	EAR HEIGHT(cm)
		POLLEN SHED	SILKING	DRY HUSK	HARVEST	%	HARVEST	HEIGHT(cm)	SRIN
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	FH 3478	71.0	73.3	127.3	16.5	79.5	80.6	148.3	68.3
2	FH 3483	72.3	74.3	127.7	16.0	78.3	81.0	155.0	76.7
	CHECKS								
3	Vivek Hybrid 9	70.7	73.0	125.0	14.0	78.5	81.0	173.3	81.7
4	Vivek QPM 9	66.0	68.0	117.3	13.5	79.3	79.4	171.7	76.7
5	Prakash	75.3	77.3	132.0	17.5	79.5	77.5	180.0	88.3
6	JH 3459	74.3	76.7	131.0	18.0	78.3	79.6	161.7	91.7
7	BIO 9637	77.0	79.0	129.0	16.5	78.8	79.2	195.0	105.0
8	PMH 4	75.0	77.3	127.7	13.5	78.5	79.4	165.0	90.0
	Loc. Mean	72.7	74.9	127.1	15.7	78.8	79.7	168.8	84.8
	C.D. (5%)	1.50	1.64	0.80	0.73	0.23	3.22	18.71	12.58
	C.V. (%)	1.18	1.25	0.36	2.66	0.17	2.30	6.33	8.47
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00

TABLE No.52

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT SRINAGAR IN ZONAL TRIAL No.103 DURING KHARIF(2011)

GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD % SUPERIORITY OVER THE					
				VIVEK HYBRID 9		VIVEK HYBRID 33			
SI	ZN 1			SI	ZN 1		ZN 1		
No	PEDIGREE	SRIN	R	No	PEDIGREE	SRIN	SRIN		
1	FH 3583	6959	7	Location Mean	6836	1	FH 3583	-	-
2	FH 3585	6746	16	Mean Stand	39	2	FH 3585	-	-
3	FH 3586	6804	15	C.D. (5%)	611	3	FH 3586	-	-
4	FH 3587	6977	5	C.V. (%)	5.41	4	FH 3587	-	-
5	FH 3592	7007	4	F (Prob)	0.002	5	FH 3592	-	-
6	FH 3594	6653	19	Plot Size	4.8	6	FH 3594	-	-
7	FH 3599	6596	20	AGRONOMY DATA		7	FH 3599	-	-
8	FH 3605	6688	17	Sowing Date	5-06	8	FH 3605	-	-
9	FH 3606	6865	13	Harvest Date	31-10	9	FH 3606	-	-
10	FH 3609	5520	21	Irrigation Nos	3	10	FH 3609	-	-
11	FH 3610	6878	12	Fertilizer Applied N	90	11	FH 3610	-	-
12	EHL 111	6678	18	Fertilizer Applied P	60	12	EHL 111	-	-
13	EHL 211	6888	11	Fertilizer Applied K	40	13	EHL 211	-	-
14	EHL 311	6951	9			14	EHL 311	-	-
15	KDM 957 X KDM 1159	6951	8			15	KDM 957 X KDM 1159	-	-
16	KDM 1095 X KDM 1156	7352	1			16	KDM 1095 X KDM 1156	4.8	0.8
17	EHL 411	6967	6			17	EHL 411	-	-
18	EHL 511	6921	10			18	EHL 511	-	-
19	FH 3612	6840	14			19	FH 3612	-	-
	CHECKS						CHECKS		
20	VIVEK HYBRID 9	7014	3			20	VIVEK HYBRID 9	-	-
21	VIVEK HYBRID 33	7295	2			21	VIVEK HYBRID 33	4	-



## B355

Table No.52 (Cont..)

S.No. PEDIGREE	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	MOISTURE % AT	GRAIN SHELLING	STAND AT	PLANT	EAR HEIGHT(cm)
	POLLEN SHED	SILKING	DRY HUSK	HARVEST	%	HARVEST ('000/ha)	HEIGHT(cm)	
	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1 FH 3583	70.3	72.3	125.3	18.5	78.0	81.9	170.0	50.0
2 FH 3585	74.0	76.0	127.7	20.5	79.0	82.6	140.0	50.0
3 FH 3586	75.0	77.0	127.7	20.5	80.0	83.3	160.0	70.0
4 FH 3587	67.7	70.0	126.3	19.5	79.8	81.9	160.0	53.3
5 FH 3592	67.7	70.0	127.3	20.5	78.8	82.6	145.0	45.0
6 FH 3594	68.7	71.0	127.7	21.5	78.0	81.9	161.7	55.0
7 FH 3599	69.3	71.3	130.7	24.0	79.0	57.6	136.7	43.3
8 FH 3605	75.7	77.7	129.7	23.0	79.0	81.3	133.3	45.0
9 FH 3606	73.0	75.0	129.3	23.5	79.8	81.9	146.7	60.0
10 FH 3609	73.7	75.7	126.3	38.5	78.8	83.3	160.0	70.0
11 FH 3610	74.7	77.3	129.3	24.0	78.0	82.6	168.3	71.7
12 EHL 111	73.7	76.0	132.3	26.0	78.3	81.3	146.7	55.0
13 EHL 211	72.7	74.7	125.7	22.0	77.8	81.3	146.7	51.7
14 EHL 311	71.7	74.0	122.3	20.5	78.0	81.9	158.3	61.7
15 KDM 957 X KDM 1159	76.7	79.0	127.7	21.5	78.0	83.3	170.0	68.3
16 KDM 1095 X KDM 1156	68.0	70.3	120.3	19.5	79.0	81.9	165.0	70.0
17 EHL 411	67.7	69.7	118.3	17.5	78.0	81.3	156.7	50.0
18 EHL 511	69.7	71.7	120.7	17.5	78.0	83.3	150.0	55.0
19 FH 3612	67.7	70.0	124.3	18.5	78.0	81.9	165.0	60.0
CHECKS								
20 VIVEK HYBRID 9	69.0	71.0	127.3	17.5	78.0	82.6	145.0	46.7
21 VIVEK HYBRID 33	71.0	73.0	125.0	18.0	77.8	81.9	170.0	65.0
Loc. Mean	71.3	73.5	126.3	21.5	78.5	81.1	155.0	57.0
C.D. (5%)	1.92	2.03	1.26	5.39	0.20	15.57	4.88	2.81
C.V. (%)	1.63	1.68	0.61	15.17	0.15	11.64	1.91	2.99
F (Prob)	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00

# BREEDER SEED PRODUCTION



## *Maize Breeder Seed Production*

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**Breeder Seed Allocated and Produced by AICMIP Centers during 2012-13**

A total of 99.0 quintals of breeder seed was indented by Department of Agriculture and Cooperation, Ministry of Agriculture, GOI. The BSP-I indented quantity was allocated to the centers. Against the indent, 108.65 quintals has been produced till March, 2013. The individual figures reflect higher production than indent. But, the overall production was less than indented because most of the centers take up breeder seed production during *rabi* (2012-13) or spring season (2013). AICMIP Mandya center communicated that shortfall in *kharif*-2012 breeder seed production will be met by *rabi*-2012-13 production.

Breeder seed of parental lines of Trishulata hybrid was not undertaken because the quantity of parental lines was not indent and hybrid seed production is not the mandate. MPUAT, Udaipur communicated unsatisfactory BSP-III of parental lines of Pratap Makka Hybrid-1 and hence the breeder seed production of parental lines of this hybrid will not be undertaken.

During 2013-14 more emphasis needs to be given on maintenance breeding and nucleus seed production of promising hybrids. The centers will be communicating the amount of nucleus and breeder seed produced in the current production year.

Table 1. Breeder seed production of varieties and inbred lines during *kharif-2012*

S.NO	Center	Inbred/Variety	DAC Indent	Actual Allotment as per BSP-I Indented	BSP IV	Surplus (+) / Deficit(-)	Remarks
1	Bajaura	EARLY COMPOSITE	0.05	0.05	2.50	2.45	
2	BAU, Ranchi	Birsa Vikas Makka-2	3.00	3.00			
		BIRSA MAKKAI-1	0.30	0.30			
3	CCSHAU, Karnal	HQPM-4 (HKI-193-2) (F)	4.00	4.00			
		HQPM-4 (HKI-161) (M)	2.00	2.00			
		HQPM-7 (HKI-161) (M)	0.45	0.45			
		HQPM-7 (HKI-193-1) (F)	1.15	1.15			
		HQPM-5 (HKI-163) (F)	4.15	4.15			
		HQPM-5 (HKI-161) (M)	2.05	2.05			
		HM-8 (HKI-1105) (F)	0.15	0.15			
		HM-8 (HKI-161) (M)	0.05	0.05			
		HQPM-1 (HKI-193-1) (F)	6.65	6.65			
		HQPM-1 (HKI-163) (M)	2.75	2.75			
4	Chindwara	JAWAHAR MAKAI-216 (JM-216)	41.10	41.1	42.00	0.90	
		JAWAHAR COMPOSITE MAKKA-12	1.00	1.00	0.65	-0.35	
5	Godhra	Gujarat Makai-6	0.50	0.50	8.00	7.50	#
		NARMADA MOTI (IC-9001)	0.20	0.20	4.00	3.80	#
6	Hyderabad	PRIYA SWEETCORN	0.15	0.15			
		TRISHULATA	0.50	0.50			*
7	IARI	PEHM-1 (CM-135) (F)	0.10	0.10	0.10		
		PEHM-1 (CM-136) (M)	0.20	0.20	0.20		
		PEHM-2 (CM-137) (F)	0.10	0.10	0.10		
		PEHM-2 (CM-138) (M)	0.20	0.20	0.20		
		PEEHM-5 - (CM-150) (F)	4.00	4.00	12.00	8.00	
		PEEHM-5 - (CM-151) (M)	2.00	2.00			
		Pusa Composite-3 (Composite-85134)	3.00	3.00	4.00	1.00	
		Pusa Composite-4(Composite-8551)	0.40	0.40	4.00	3.60	
8	Kanpur	Azad Kamal (R 9803)	0.20	0.20	0.20		
		AZAD UTTAM (COMPOSITE R-2)	1.00	1.00	1.00		
9	Mandya	NAC-6004	5.60	5.60	3.00	-2.60	
10	MPUAT, Udaipur	Pratap Hybrid Maize-1 (EI-116) (F)	2.00	2.00			US
		Pratap Hybrid Maize-1 (EI-364) (M)	1.00	1.00			US
		PRATAP MAKKA-5 (EC-3116)	2.00	2.00	6.50	4.50	
11	MPUAT, Banswara	Pratap Kanchan-2 WC-236(Y)	1.00	1.00			
12	Pantnagar	AMAR (D-941)	0.20	0.20			
		SURYA	0.80	0.80	2.50	1.70	
		NAVIN (D-741)	0.05	0.05	1.00	0.95	
13	PAU, Ludhiana	PMH-5 (JH 3110) (LM16) (F)	0.10	0.10	0.70	0.60	
		PMH-5 (LM18) (M)	0.05	0.05	0.20	0.15	
		NAVJOT	1.00	1.00	7.00	6.00	
		VIJAY COMPOSITE MAKKA	1.00	1.00	2.40	1.40	
14	VPKAS, Almora	Vivek QPM-9 (FQH 4567) (VQL1) (F)	0.10	0.10	1.00	0.90	
		Vivek QPM-9 (VQL2) (M)	0.05	0.05	0.40	0.35	
		Vivek Maize Hybrid-23 (FH-3529) (V351) (F)	0.10	0.10	0.10		
		Vivek Maize Hybrid-23 (V341) (M)	0.05	0.05	0.05		
		Vivek Maize Hybrid-17 (FH-3186) (CM153) (F)	0.10	0.10	0.15	0.05	
		Vivek Maize Hybrid-17 (CM212) (M)	0.05	0.05	0.05		
		VIVEK MAIZE HYBRID-9 CM212 (F)	1.60	1.60	1.60		
		VIVEK MAIZE HYBRID-9 (CM145) (M)	0.05	0.05	0.05		
		Vivek Hybrid-9 (CM-145) (M)	0.50	0.50	0.50		
		Vivek Sankul Makka-31(VL-103)	0.20	0.20	2.50	2.30	
		<b>Total</b>	<b>99.00</b>	<b>99.00</b>	<b>108.65</b>		

**Note:** #: Estimated Figures; \*: Not produced because hybrid was indented; **US:** seed production was Unsatisfactory

## Allocation of breeder seed production for 2013-14 (BSP-I)

CROP : MAIZE HYBRID													Quantity in quintals			
	Variety Name	YEAR	CG	DADH	JH	KK	MP	MH	NDDB	NSC	PB	RJ	SAI	SFCI	UK	Total
1	Vivek Maize Hybrid 39 (V-373) (F)	2012													0.03	0.03
	Vivek Maize Hybrid 39 (CM-212) (M)														0.01	0.01
2	PMH 4 (LM-5) (F)	2011								0.42						0.42
	PMH 4 (LM-16) (M)									0.13						0.13
3	PMH 5 (JH 3110) (LM16) (F)	2011								0.42						0.42
	PHM-5 (LM18) (M)									0.13						0.13
4	HQPM-4 (HKI-193-2) (F)	2010										4.50				4.50
	HQPM-4 (HKI-161) (M)											1.50				1.50
5	Pusa Extra Early Hybrid Makka -5 (CM-150) F	2009												1.00	0.04	1.04
	Pusa Extra Early Hybrid Makka -5 (CM-151)M													0.50	0.02	0.52
7	HM-10 (HKH-1200) (HKI 1128) (M)	2008								0.20		1.00				1.20
	HM-10 (HKH-1200)(HKI 193-2 )(F)	2008								0.30		2.00				2.30
8	HQPM-7 (HKI 161) (M)	2008								0.05				1.15		1.20
	HQPM-7 (HKI 193-1) (F)	2008								0.15				0.35		0.50
9	PMH-3 (JH 10704) (LM-17) (F)	2008								0.42						0.42
	PMH-3 (JH 10704) (LM-14) (M)									0.13						0.13
10	Vivek Maize Hybrid 33 (FH 3352) (V-372)(F)	2008													0.04	0.04
	Vivek Maize Hybrid 33 (CM212)(M)														0.02	0.02
11	Vivek QPM-9 (FQH 4567) (VQL1) (F)	2008													0.03	0.03
	Vivek QPM-9 (VQL2) (M)														0.01	0.01
12	HQPM-5 (HKI-163) (F)	2007								0.15				1.15		1.30
	HQPM-5 (HKI-161) (M)									0.05				0.35		0.40
13	HM-4 (HKI-1105) (F)	2005								0.37						0.37
	HM-4 (HKI-323) (M)									0.13						0.13
14	Vivek Maize Hybrid-17 (FH-3186) (CM-153)(F)	2005					1.50									1.50
	Vivek Maize Hybrid-17 (FH-3186) (CM-212)(M)						0.50									0.50
15	HM-8 (HKI-1105) (F)	2007								0.15						0.15
	HM-8 (HKI-161) (M)									0.05						0.05
16	HQPM-1 (HKI-193) (F)	2006								0.15		4.00				4.15
	HQPM-1 (HKI-163) (M)									0.05		2.00				2.05
18	Pratap Hybrid Maize-1 (EI-116) (F)	2004										3.00				3.00
	Pratap Hybrid Maize-1 (EI-364) (M)											1.50				1.50
19	Shaktiman-2 (CML-176) (M)	2002	0.65													0.65
	Shaktiman-2 (CML-186) (F)		0.35													0.35
	<b>TOTAL :</b>		<b>1.00</b>				<b>2.00</b>			<b>3.45</b>		<b>19.50</b>		<b>4.50</b>	<b>0.20</b>	<b>30.65</b>



## BREEDER SEED INDENT - KHARIF-2014

## MAIZE COMPOSITE

	Variety Name	YEAR	CG	DADH	JK	JH	KK	MP	MH	NDDB	NSC	PB	RJ	SAI	SFCI	UK	Total
1	PRATAP MAKKA-4 (EC-1108)	2006													2.00		2.00
2	PRATAP MAKKA-5 (EC-3116)	2006											2.00				2.00
3	Azad Kamal (R 9803)	2005						0.20									0.20
4	Praptap Makka-3(EC-3108)	2005											2.00		2.00		4.00
5	Pusa Composite-3 (Composite-85134)	2005	1.00					0.20			0.07						1.27
6	Pusa Composite-4(Composite-8551)	2005						0.20			0.10						0.30
7	Pratap Kanchan-2 WC-236(Y) F-Line	2004											1.00				1.00
8	JAWAHAR MAKAI-216 (JM-216)	2002	1.00					11.00									12.00
9	AMAR (D-941)	2001						0.20									0.20
10	JAWAHAR COMPOSITE MAKKA-12 (JM-12)	1999						1.00									1.00
11	BIRSA MAKKAI-1	1996				2.00								0.30			2.30
12	BIRSA MAKKAI-2	2005				2.00											2.00
13	KANCHAN	1986												0.05		0.12	0.17
14	SONARI (SHWETA)	1982														0.04	0.04
15	NAC 6004	2001	1.00								0.10						1.10
16	Vijay Composite				0.10												0.10
	<b>TOTAL :</b>		<b>3.00</b>		<b>0.10</b>	<b>4.00</b>		<b>12.80</b>			<b>0.27</b>		<b>5.00</b>	<b>0.35</b>	<b>4.00</b>	<b>0.16</b>	<b>29.68</b>

### Calendar of operations for production and distribution of breeder seed

Reference: Proceedings of the Annual Breeder Seed Review Meeting held on 29th March, 2012 at Lecture Hall (2<sup>nd</sup> Floor), NASC, New Delhi.

S. No.	Step	Last date by which the action is to be completed	
		KHARIF	RABI
1.	Placement of Indent of Breeder Seed with Director of Agriculture by the State Government and State Public Seed Producing Agencies.	15 <sup>th</sup> December of previous year for both the season.	15 <sup>th</sup> December of previous year for both the season.
2.	Communication of the screened and compiled indents by Seed Development of Agriculture of the State to Seed Division of Ministry of Agriculture, Government of India. Seed Association of India would forward the indents of private parties to Seed Division of this Ministry. Central Agencies such as NSC, SFCI etc. would place their indents directly with Seed Division of Ministry of Agriculture, New Delhi.	1 <sup>st</sup> week of January for both of season	1 <sup>st</sup> week of January for both the season.
3.	Communication of compiled indents by Seed Development Section, Ministry of Agriculture, Govt. of India to ICAR Headquarters.	15 <sup>th</sup> February	15 <sup>th</sup> July
4.	Communication of Breeder Seed Production Plan in BSP-I by Project Coordinator (Crop) to Seed Development Section, Ministry of Agriculture, and ADG (Seeds), ICAR	15 <sup>th</sup> May	15 <sup>th</sup> October
5.	Communication of the BSP-2 by the concerned Breeder to the Seed Development Section of Ministry of Agriculture, and ADG (Seeds), ICAR.	After 15 days of the actual planting of Breeder Seed Crop.	After 15 days of the actual planting of Breeder Seed Crop.
6.	Communication of the BSP-3 by the concerned breeder to the Seed Development Section, Ministry of Agriculture, Govt. of India and ADG (Seed), ICAR	After 15 days of the actual inspection of breeder seed crop by the Joint Monitoring team.	After 15 days of the actual inspection of breeder seed crop by the Joint Monitoring team.
7.	Communication of the final production figures of breeder seed by the ICAR in BSP-5 to the Seed Development Section, Ministry of Agriculture, Government of India.	15 <sup>th</sup> February	15 <sup>th</sup> July
	Groundnut compensatory production	----	15 <sup>th</sup> April
8.	<b>Cotton</b> (i) North Zone (ii) Central & South Zone	15 <sup>th</sup> February 1 <sup>st</sup> March	

S. No.	Step	Last date by which the action is to be completed	
		KHARIF	RABI
9.	<b>Pigeon pea</b> (i) Early & Medium varieties (ii) Long duration varieties	1 <sup>st</sup> March 15 <sup>th</sup> April	
10	Communication of the Allocation of Breeder Seed by Seed Development Section, Ministry of Agriculture, Government of India to Director of Agriculture and concerned indentors.	31 <sup>st</sup> March	15 <sup>th</sup> September
11	Communication of the details of lifting of breeder seed against the GOI allotment to Ministry of Agriculture by Director of Agriculture in the performa 'A' enclosed with supply plan.	After 15 days of the cut-off-date	After 15 days of the cut-off-date
12	Communication of details of supply of Seed to the allottees by the breeder to Ministry of Agriculture and ICAR in Performa 'B' enclosed with supply plan.	After 15 days of the cut-off-date	After 15 days of the cut-off-date

# AGRONOMY



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

### Summary of coordinated agronomy trials 2012

Name of The Zone	Name of The Centre	Trial Allotted	Result reported	Trial failed / not conducted
ZONE -I	Bajaura	8	8	-
	Kangra	6	6	-
	Almora	2	2	-
	Srinagar	5	5	-
	Udhampur	3	3	-
ZONE-II	Delhi	3	3	-
	Karnal	6	6	-
	Ludhiana	5	5	-
	Pantnagar	6	6	-
	Kanpur	4	1	One trial was not conducted and 2 Trials were rejected due to poor plant stand and poor crop management
ZONE-III	Bhubaneswar	4	3	One trail was not planted due to non availability of land
	Dholi	6	6	-
	Ranchi	8	8	-
	Varanasi	4	4	-
	Behraich	4	2	One trial was not conducted and one trial was rejected due to poor plant stand
ZONE-IV	Arabhavi	6	6	-
	Hyderabad	5	5	-
	Karimnagar	6	6	-
	Kolhapur	5	5	-
	Vagarai	3	3	-
ZONE-V	Ambikapur	6	6	-
	Banswara	7	7	-
	Chhindwara	5	3	Two trials were not conducted
	Godhra	5	4	One trail was not conducted
	Jhabua	5	5	-
	Udaipur	9	9	-

The salient achievements of AICRP trials on maize agronomy conducted during *kharif*, 2012 at different centers across the country are summarized here. The major focused areas of the research trials were response of pre-release genotypes to nutrients, tillage study in relation to genotypes and nutrient management including site specific nutrient management, crop geometry, moisture conservation in rain fed

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maize, development of agro techniques for seed production of maize hybrids, optimization of sowing time for different maize genotypes, weed management in maize and maize based cropping systems under different agro-ecologies.

Evaluation of pre release genotypes under varying nutrient levels

The genotypes of different maturity groups were evaluated under three levels of nutrient i.e. 100:40:30, 150:50:40 and 200:60:50 kg/ha N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O. for medium, early and extra early maturity while for late maturity group the nutrient levels were 150:50:40, 200:65:50, 250:80:60 in all the zones.

Among the late maturing genotypes, in Zone I out of three only one (BISCO NEW 704), in Zone II out of four only two (NMH 713 and CMH 08-287), in Zone III out of eight only five (M 9977, X-35A176, A 7501, Bio 562 and CMH 08-287), in Zone IV out of three only one (CMH 08-287) and in Zone V out of five only two (X-35A176 and JH 12157) were found significantly superior over to the best check of the respective locations. While, among medium maturity group the performance of genotypes in zone I out of twenty two only fifteen (BIO 151, BIO-688, JH-31404, BISCO 2668, CMH 08-350, IMH-666, B-63, JKMH-7004, KDMH 176, NMH 1242, P-3396, PFMH-96 I 41, PFMH-96 N 46, Yuvraj Gold, BH 41009), in zone II out of thirteen only nine (S-6217, BIO-688, S-6304, B-63, BIO-151, BISCO 2668, CMH-08-292, CMH-08-350, P-3396), in zone III out of seventeen only twelve (BIO 151, B 63, BISCO 2668, CMH-08-350, S 6217, S 6304, VMH 4106, X 35 A 173, KMH-401061, CMH-08-292, NMH-1242 and Titan), in zone IV out of twelve only nine (BIO 151, CMH08-292, CMH08-433, S 6304, X 35-173, X 35-174, Yuvraj Gold, B-63, S-6217) and in zone V out of fourteen only two (BIO-151, S-6217) were found significantly superior over to the best check of respective locations. In zone I out of five only three (FH 3513, HKH-317, SUN VAAMAN), in zone II out of five only three (31 Y 45, X8F984, KDMH 755), in zone III out of four only two (31 Y 45, REH 2009-12), in zone IV out of four only two (SUN VAAMAN, FH 3513) and in zone V out five only three (FH 3513, REH 2009-12, 31 Y 45) genotypes of early maturity group were found significantly superior over to the best checks. While, in extra early group in zone I and II out of five only three (FH-3525, KH-9888 and FH-3510), genotypes were found significantly superior over to the best checks of respective locations.

In general, late maturity genotypes responded up to 150:50:40 kg/ha N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O level at 2, 200:65:50 at 8 and 250:80:60 at 6 locations out of 20 centers. The late maturity genotypes responded up to N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O levels of 150:50:40 Kg/ha at Karnal, Pantnagar (Zone II), 200:65:50 at Bajaura, Kangra (Zone I), Ludhiana (Zone II), Bhubaneswar, Ranchi (Zone III), Arbhavi, Kolhapur (Zone IV) and Jhabua (Zone V); and 250:80:60 at Dholi, Ambikapur (Zone III), Hyderabad, Karimnagar (Zone IV) and Banswara and Chhindwara (Zone V). The significant response of medium maturity genotypes to N:P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O level was up to 100:40:30 kg/ha at Hyderabad (Zone V), 150:50:40 at Bajaura, Kangra (Zone I), Ludhiana (Zone II), Ranchi, Varanasi (Zone III), Jhabua and Udaipur (Zone V) and 200:60:50 at Delhi (Zone II), Baharaich, Dholi (Zone III), Arbhavi, Karimnagar, Kolhapur, Vagarai (Zone IV), Banswara and Chhindwara (Zone V). However, there were non-significant differences among the nutrient levels at Karnal, Pantnagar and Godhra. It indicates that out of 21 locations medium maturity genotypes responded to 100:40:30, 150:50:40 and 200:60:50 N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O levels at 5, 33.0, 48.0 % locations, respectively. Out of 22 locations, the response of early maturing genotypes was up to 150:50:40 Kg/ha N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O at 7 locations (Bajaura, Delhi, Ludhiana, Ranchi, Arbhavi, Hyderabad, Ambikapur) and 200:60:50 at 6 locations (Almora, Dholi, Karimnagar, Kolhapur, Banswara, Chhindwara). However, the differences among the

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nutrients levels at 9 locations (Kangra, Karnal, Pantnagar, Bhubaneswar, Varanasi, Vagarai, Godhra, Jhabua and Udaipur) could not reach to the level of significance.

In extra early maturity genotypes, the response to different N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O level was recorded up to 150:50:40 kg/ha at Kangra, Bhubaneswar and Ranchi and 200:60:50 kg/ha at Almora, Bajaura, Bahraich and Dholi. At Varanasi, the effect of nutrient levels could not reach to the level of significance.

Performance of maize hybrids to adopt rainfall changes and climates aberrations

The experiments to see the performance of different maturity hybrids under the changing rainfall pattern and climate aberrations were carried out at 14 centers during kharif, 2012. In zone I, the maximum yields was recorded by 10 days advance sowing than normal date of sowing at Kangra and Srinagar and sowing on other dates showed reduction in yield. At Bajaura extra early and early hybrids showed increase in yield up to 10 days delay sowing while, medium and late hybrids recorded the highest yield at normal date of sowing and further delay in sowing leads to decline in yield. Among the different hybrids DHM117 (Late), PAC 740 (Late) and NK 6607 gave the highest yield at Bajaura, Kangra and Srinagar centre, respectively. At Karnal and Pantnagar (Zone II), normal date of sowing was found the most suitable, while at Ludhiana non significant changes in yield were noticed under different dates of sowing. Among the different genotypes, HQPM7, PMH1 (late) and Vivek 43 (medium) recorded the highest productively at Karnal, Ludhiana and Pantnagar, respectively. In Zone III, the highest yield (5-7 t/ha) was noticed, when planting of crop was delayed by 15 days than normal date of sowing and Malviya Makka-2 was recorded as the highest yielder hybrid at Ranchi. At Ambikapur, normal sowing date, being at par with 15 days advance sowing recorded the highest yield. Among the cultivars, BISCO Bhim (Medium) and BISCO 97 Gold (late), being at par recorded the highest yield over early and extra early cultivars. In Zone IV, at Arbhavi, Hyderabad, Karimnagar, normal date of sowing gave the highest yield than remaining sowing dates. Delay in sowing by 30 days significantly reduced the yields at Arbhavi, Karimnagar and Hyderabad. While, at Kolhapur 15 days advance sowing resulted in the lowest yield. Among the hybrids, highest yield was found with NK 6240 at Arbhavi, DHM 117 at Hyderabad, 30 V 92 at Karimnagar and P-3370 at Kolhapur. At Hyderabad, Karimnagar and Kolhapur, there was non-significant difference in yield, between medium and late maturing hybrids. In Zone V, 15 days advance sowing gave the highest yield at Banswara and further delay in sowing reduced the yields considerably. At Banswara, DHM 117 produced the highest yield followed by HQPM 1, Pratap hybrid 1 and PEHM 5. While, at Udaipur 15 days advance sowing, being at par with normal sowing recorded the significantly highest productivity and further delay in sowing declined the yield. HQPM-5 gave the significantly highest yield then other hybrids viz. PH 1, PEMH-2, PM-5. At Godhra between 15 days advance sowing and normal sowing date, higher yield was recorded with normal sowing and among the hybrids differences were non-significant.

Nutrient requirement of maize hybrids in maize based cropping systems

The experiment was initiated to see the performance of different nutrient management practices including SSNM based on nutrient expert in region specific maize based cropping systems of during kharif, 2012. The cropping systems selected were maize-wheat (Bajaura, Jhabua, Udhampur, Udaipur, Banswara, Ranchi, Pantnagar, Ludhiana, Karnal), maize-chickpea (Almora), maize-mustard, (Kangra, Chhindwara, Ambikapur,) rice-maize( Varanasi, Dholi, Hyderabad) and

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Maize sole (Kolhapur, Vagarai, Karimnagar, Arbhavi). The SSNM practice resulted in the significantly highest yields than all other nutrient management practices at Bajaura, Udhampur, Ludhiana, Ranchi, Karimnagar, Ambikapur, Banswara and Jhabua except at Bajaura, Ranchi and Karimnagar, where it remained at par with 100% recommended dose of NPK. At Hyderabad Application of 100% RDF gave the higher productivity than other fertility levels. However, no significant differences in nutrient management practices were noticed at Arbhavi. At Bajaura, PMH-3 (9.9t/ha), being at par with HQPM-1 and PMH-1 out yielded the DHM-117. While at Srinagar, Ranchi and Udhampur DHM-117 remained the highest yielder than remaining genotypes except NK 6607 at Srinagar, JH 3459 and Ujalla BISCO at Udhampur and PMH-3 at Ranchi. At Ranchi PMH-3 produced more yield with SSNM practice than recommended dose of fertilizers (RDF), however, PHM 1, HQPM-1 and DHM-117 gave the similar yields with SSNM and RDF practice, but remained superior over 50% of RDF treatment. At Ambikapur SSNM is the best treatment for all the genotypes and among genotypes, PMH 3 closely followed by PMH 1 and DHM 117 produced the highest yield. At Ludhiana PMH-4 gave the highest yield with SSNM practice, which was statistically equal to RDF treatment. Similarly, other genotypes viz. JH 3950, JH 31244 and PMH 1 resulted in higher yields with SSNM treatment in comparison to RDF and 50% of RDF treatments. In zone IV the highest yielding genotypes are PMH1, HQPM1 and PMH-3 at Arbhavi, Hyderabad and Karimnagar, respectively. At Arbhavi and Hyderabad, DHM 117 was the second best genotype, which yielded equal to the highest yielding genotype, while at Karimnagar PMH-1 was the second best yielding genotype. In zone V DHM 117 produced the significantly higher yield compared to remaining genotypes at Banswara. While at Udaipur and Jhabua, PMH 1 being at par with PMH 3 recorded higher yield over other genotypes. At Udaipur SSNM practice proved superior over RDF and half RDF for HQPM-1, PMH 1 and DHM-117 however, for PMH-3 and HM 5 genotypes, no significant differences were recorded between SSNM and RDF. Similarly, SSNM and RDF treatments remained equal for DHM 117, PMH 2, PMH3 and BIO 9637 at Jhabua, however for PMH1 SSNM proved superior over remaining practices.

Evaluation of interactive effect of plant density, intercropping and residue management on productivity of maize under rain fed conditions

Paired row planting (84:50cm) produced more yield of maize compared to uniform row planting (67cm) at Ambikapur, Udhampur, Kolhapur, Banswara and Udaipur. While, both the planting methods could not differ significantly at Bajaura, Srinagar, Ranchi and Karimnagar. Residue retention as mulch @ 5t/ha found beneficial at Ambikapur, Bajaura, Udhampur, Ranchi, Karimnagar and Banswara. At Udaipur and Srinagar residue retention could not improve maize yields over no residue treatment. The improvement in maize yield was found with intercropping of green gram compared to cowpea at Karimnagar and black gram compared to soybean at Banswara. However, legumes (soybean/black gram/cluster bean) intercropping in maize could not improve maize yields at Ambikapur, Ranchi and Udaipur. Increasing planting density significantly improved the maize yield at Bajaura, Srinagar and Udaipur. While no differences among different plant densities were recorded at Kolhapur.

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

To develop suitable weed management technologies under different maize based cropping systems, the field experiments were conducted at different locations and diverse results were obtained. Pre-emergence application of metribuzin @ 0.25

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kg/ha followed by pre-emergence application of atrazine @1.0 kg/ha plus pendimethalin @ 0.5 kg/ha was found the most effective weed management treatment at Kangra. In chemical weed control treatments atrazine application @1.0 kg/ha as pre-emergence was found the best treatment in controlling the weed flora and getting highest yield of maize at Srinagar, Pantnagar, Ranchi, Arbhavi, Jhabua and Udaipur. None of the other herbicide produced more yields than atrazine @ 1.0 kg a.i. /ha as pre-emergence. At Kangra atrazine application @ 1.0 kg/ha as pre-emergence found equal to two hands weeding (20 and 40/DAS) treatment at Srinagar, Udhampur, Ranchi, Arbhavi, Jhabua and Udaipur. At Karnal, organic mulch @ 6t/ha as cover crop (cowpea 2 rows) was found the most effective in controlling the weeds than all other treatments except two hand weeding treatment, which was the most yielding practice in maize.

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

The field experiment to compare the different tillage practices under varying fertility levels in maize-wheat-green gram cropping system was initiated in kharif 2012 at Karnal, Pantnagar, Udaipur, Dholi and Banswara centres. Permanent bed planting, being at par with conventional tillage resulted in higher maize production than zero tillage at Pantnagar. Similarly, at Udaipur and Banswara bed planting proved superior over both zero and conventional tillage practices. At Karnal and Banswara zero tillage and permanent bed being similar gave higher yields than conventional planting. At Dholi no significant differences were found due to tillage practices. Among the nutrient management practices site specific nutrient management proved better than 50 and 100% RDF at Dholi and Banswara. However, at Pantnagar, SSNM remained equal to 100% RDF but both of these treatments proved superior over 50% of RDF. At Karnal 100% of RDF yielded more than SSNM and 50% of RDF.

Nutrient management in maize-chickpea cropping system under different tillage practices

To study the effect of tillage and nutrient management practices on maize-chickpea cropping system an experiment was initiated during kharif, 2012 at Banswara. Results reveal that permanent bed planting produced the highest yield of maize, which was significantly more over both zero and conventional tillage practices. Regarding nutrient management SSNM proved superior over the both 50 and 100% of RDF.

Nutrient management in rice-maize cropping system under different tillage practices

Results of the experiment at Dholi reveal that conventional tillage practices gave the highest yield, which was statistically equal to bed planting but remained superior over zero tillage. No significant yield difference between bed planting and zero tillage was noticed.

Tillage and residue management practice in maize-wheat cropping system

At Udaipur zero tillage resulted in the maximum maize yield (5.03 t/ha), which was significantly higher over bed planting and conventional tillage. However, bed planting and conventional tillage practices could not varied significantly. Beneficial effect of residue management was found by recording 8.3% more yield over without residue.



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### Tillage and maize genotypes interaction study

Zero tillage practices recorded the significantly highest productivity than bed planting and conventional tillage at Udaipur. Between bed planting and conventional tillage, bed planting out yielded conventional tillage practice. No variation in yield between HQPM 1 and PEHM-2 was recorded at different tillage practices.

### Tillage and mulching studies in maize

In a field experiment at Srinagar on different tillage practices in maize with and without mulch was conducted during kharif, 2012. Among the tillage practices, conventional tillage, being at par with reduced tillage yielded more than zero tillage without mulch only. No marked yield variation between the treatments of with and without mulch was found.

### Performance of sweet corn varieties at varying fertility levels

Four sweet corn varieties were tested under four fertility levels during kharif, 2012 at Udaipur. Sugar-75, win orange and Priya being at par produced 7.9, 9.0 and 9.4% more green cob yield than Bajaura sweet corn, respectively. Regarding the N and P<sub>2</sub>O<sub>5</sub> level, there was significant improvement in yield with increasing 70 N+30 P<sub>2</sub>O<sub>5</sub> kg/ha level to 90 N+ 40 P<sub>2</sub>O<sub>5</sub> level further increases in N and P<sub>2</sub>O<sub>5</sub> level to 110:50 and 130:60 significantly reduced the green cob yield.

### Moisture conservation studies in maize for enhancing water use efficiency

The experiment to study the response of maize to varying moisture conservation practices was initiated in kharif, 2012 at Srinagar. Straw mulch @ 6t/ha, being at par with in situ mulching of cowpea and hydrogel application @ 2.5 kg/ha produced the highest yield of maize. While, other treatment could not differ significantly except kaolin spray at 5% and flat planting with normal plant population, in which flat planting was superior over kaolin spray.

### Development of agro-techniques for single cross hybrid seed production

To find out the optimum fertility level, row ratio and plant spacing for seed production of single cross hybrid, a field experiment was conducted at Bajaura. The female and male plant row ratio of 4:1 was found superior over 3:1 row ratio. Similarly, reducing plant spacing from 25 to 20 cm significantly improved the seed yield. However, no significant variation in yield between two fertility levels was noticed.

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**Table 1: Relative performance of pre-release germplasm of late maturity at different NPK levels of during *Kharif* 2012 in zone I.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)		No. of plants ('000/ha)	
		Bajaura	Kangra	Bajaura	Kangra
150:50:40	Bisco New 704	9440	8873	82.8	77.2
	Seed Tech 2324 (C)	8917	5361	78.3	70.5
	Bio 9681 (C)	8880	6998	81.0	64.3
200:65:50	Bisco New 704	11450	9304	81.0	72.5
	Seed Tech 2324 (C)	9927	6652	80.5	68.9
	Bio 9681 (C)	9353	7987	76.0	67.9
250:80:60	Bisco New 704	11483	8890	81.0	73.6
	Seed Tech 2324 (C)	10167	6727	80.6	73.6
	Bio 9681 (C)	9933	7945	78.3	65.3

Location mean	9950.0	7637.4	80.0	70.4
C.D.(5%) AiBj-AiBk	1012.5	715.0	4.2	2.5
C.D.(5%) AiBk-AjBk	1098.1	665.1	4.8	5.8
F(5%)	n.s.	n.s.	n.s.	s

150:50:40	9079	7077	80.7	70.6
200:65:50	10243	7981	79.2	69.8
250:80:60	10528	7854	80.0	70.8

C.D.(5%) Ai-Aj	734.3	325.1	3.4	5.4
C.V.(%) Error A	5.6	3.3	3.2	5.9
F(5%)	s	s	n.s.	n.s.

Bisco New 704	10791	9022	81.6	74.4
Seed Tech 2324 (C)	9670	6247	79.8	71.0
Bio 9681 (C)	9389	7643	78.4	65.8

C.D.(5%)Bi-Bj	584.6	412.8	2.5	1.4
C.V.(%)ErrorB	5.7	5.3	3.0	2.0
F(5%)	s	s	s	s

Cont...

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N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)		Plant height (cm)	
		Bajaura	Kangra	Bajaura	Kangra
150:50:40	Bisco New 704	78.2	66.4	258.4	250.7
	Seed Tech 2324 (C)	72.2	48.9	235.7	272.7
	Bio 9681 (C)	78.3	59.7	258.8	285.7
200:65:50	Bisco New 704	79.2	64.3	262.0	268.3
	Seed Tech 2324 (C)	77.3	54.0	248.0	251.0
	Bio 9681 (C)	74.1	62.8	262.6	278.0
250:80:60	Bisco New 704	78.3	66.9	261.0	238.3
	Seed Tech 2324 (C)	77.3	54.5	248.8	244.3
	Bio 9681 (C)	75.0	59.7	263.2	271.0

Location mean	76.7	59.7	255.4	262.2
C.D.(5%) AiBj-AiBk	6.3	4.0	4.5	13.0
C.D.(5%) AiBk-AjBk	5.8	5.6	7.8	12.1
F(5%)	n.s.	n.s.	s	s

150:50:40	76.2	58.3	251.0	269.7
200:65:50	76.9	60.4	257.5	265.8
250:80:60	76.9	60.4	257.7	251.2

C.D.(5%) Ai-Aj	2.7	4.6	6.9	6.0
C.V.(%) Error A	2.7	5.8	2.1	1.8
F(5%)	n.s.	n.s.	n.s.	s

Bisco New 704	78.6	65.8	260.5	252.4
Seed Tech 2324 (C)	75.6	52.5	244.2	256.0
Bio 9681 (C)	75.8	60.7	261.5	278.2

C.D.(5%)Bi-Bj	3.6	2.3	2.6	7.5
C.V.(%)ErrorB	4.6	3.8	1.0	2.8
F(5%)	n.s.	s	s	s

Cont...

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N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)	100 grain weight (g)	Days to 50% tasseling	Days to 50% silking	Lodging (%)
		Kangra	Kangra	Kangra	Kangra	Kangra
150:50:40	Bisco New 704	140.7	25.6	57.3	61.3	3.2
	Seed Tech 2324 (C)	145.3	35.9	55.7	59.3	10.5
	Bio 9681 (C)	130.7	38.5	46.7	51.7	15.6
200:65:50	Bisco New 704	139.0	36.8	57.7	61.0	4.1
	Seed Tech 2324 (C)	133.0	34.1	55.0	58.7	8.2
	Bio 9681 (C)	125.0	38.9	46.3	50.7	10.8
250:80:60	Bisco New 704	140.7	38.3	58.3	61.3	2.7
	Seed Tech 2324 (C)	142.3	40.2	57.3	62.0	5.3
	Bio 9681 (C)	118.3	33.0	48.7	52.3	13.0

Location mean	135.0	35.7	53.7	57.6	8.1
C.D.(5%) AiBj-AiBk	11.8	4.3	1.3	1.1	2.2
C.D.(5%) AiBk-AjBk	10.7	4.3	1.8	1.2	3.5
F(5%)	n.s.	s	n.s.	s	s

150:50:40	138.9	33.3	53.2	57.4	9.8
200:65:50	132.3	36.6	53.0	56.8	7.7
250:80:60	133.8	37.2	54.8	58.6	7.0

C.D.(5%) Ai-Aj	4.8	2.5	1.4	0.7	3.1
C.V.(%) Error A	2.7	5.4	2.1	1.0	28.9
F(5%)	s	s	n.s.	s	n.s.

Bisco New 704	140.1	33.6	57.8	61.2	3.3
Seed Tech 2324 (C)	140.2	36.8	56.0	60.0	8.0
Bio 9681 (C)	124.7	36.8	47.2	51.6	13.1

C.D.(5%)Bi-Bj	6.8	2.5	0.8	0.6	1.3
C.V.(%)ErrorB	4.9	6.8	1.4	1.1	15.0
F(5%)	s	s	s	s	s

# A10

**Table 2: Relative performance of pre-release germplasm of late maturity at different NPK levels of during *Kharif* 2012 in zone II.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			
		Delhi	Karnal	Ludhiana	Pantnagar
150:50:40	CMH08-287	7111	5902	8038	6197
	NMH-713	8746	5936	9601	5632
	Seed Tech 2324 (C)	6459	5853	7069	3513
	Bio 9681 (C)	6795	7170	8837	2726
200:65:50	CMH08-287	7763	5703	8833	3427
	NMH-713	8583	6540	10080	3274
	Seed Tech 2324 (C)	7516	6285	8302	3026
	Bio 9681 (C)	7146	7341	8934	3103
250:80:60	CMH08-287	6731	5361	9503	3718
	NMH-713	9012	5641	10622	3564
	Seed Tech 2324 (C)	7551	5651	8219	3103
	Bio 9681 (C)	7427	6590	8066	2521

Location mean	7570.0	6164.3	8842.0	3650.3
C.D.(5%) AiBj-AiBk	1156.7	349.5	956.6	841.2
C.D.(5%) AiBk-AjBk	1206.5	545.7	989.1	869.1
F(5%)	n.s.	n.s.	s	s

150:50:40	7278	6215	8386	4517
200:65:50	7752	6467	9037	3207
250:80:60	7680	5811	9102	3226

C.D.(5%) Ai-Aj	688.7	459.9	553.7	485.5
C.V.(%) Error A	8.0	6.6	5.5	11.7
F(5%)	n.s.	s	s	s

CMH08-287	7202	5655	8792	4447
NMH-713	8780	6039	10101	4157
Seed Tech 2324 (C)	7175	5929	7863	3214
Bio 9681 (C)	7123	7034	8612	2783

C.D.(5%)Bi-Bj	667.8	201.8	552.3	485.7
C.V.(%)ErrorB	8.9	3.3	6.3	13.4
F(5%)	s	s	s	s

Cont...

# A11

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			No. of plants ('000/ha)		
		Delhi	Karnal	Pantnagar	Delhi	Ludhiana	Pantnagar
150:50:40	CMH08-287	8395	7377	7863	58.3	59.4	63.2
	NMH-713	9827	7214	7051	64.2	61.5	61.5
	Seed Tech 2324 (C)	7654	7165	4402	65.2	59.7	56.4
	Bio 9681 (C)	7951	9142	3462	66.2	62.8	66.7
200:65:50	CMH08-287	9136	7351	4316	63.7	59.7	59.8
	NMH-713	9704	8079	4145	63.7	62.5	61.5
	Seed Tech 2324 (C)	8716	7824	3846	65.7	62.8	60.7
	Bio 9681 (C)	8370	9560	3932	65.7	62.8	63.2
250:80:60	CMH08-287	7877	7505	4744	49.9	61.1	57.3
	NMH-713	10370	7521	4530	66.2	62.2	62.4
	Seed Tech 2324 (C)	8840	8020	3932	65.7	59.4	59.0
	Bio 9681 (C)	8667	8687	3205	66.2	62.5	64.1

Location mean	8792.2	7953.8	4618.9	63.4	61.4	61.3
C.D.(5%) AiBj-AiBk	1229.3	450.7	1034.0	7.6	4.0	7.1
C.D.(5%) AiBk-AjBk	1363.6	702.2	1119.0	8.9	3.6	7.7
F(5%)	n.s.	s	s	n.s.	n.s.	n.s.

150:50:40	8457	7725	5694	63.5	60.9	62.0
200:65:50	8981	8203	4060	64.7	62.0	61.3
250:80:60	8938	7933	4103	62.0	61.3	60.7

C.D.(5%) Ai-Aj	870.8	591.3	686.4	6.1	0.9	4.8
C.V.(%) Error A	8.7	6.6	13.1	8.6	1.3	6.9
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.

CMH08-287	8469	7411	5641	57.3	60.1	60.1
NMH-713	9967	7605	5242	64.7	62.0	61.8
Seed Tech 2324 (C)	8403	7670	4060	65.5	60.6	58.7
Bio 9681 (C)	8329	9130	3533	66.0	62.7	64.7

C.D.(5%)Bi-Bj	709.7	260.2	597.0	4.4	2.3	4.1
C.V.(%)ErrorB	8.2	3.3	13.0	7.0	3.8	6.7
F(5%)	s	s	s	s	n.s.	s

**Cont...**

## A12

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			Moisture (%)	100 grain weight (g)
		Delhi	Ludhiana	Pantnagar	Delhi	Delhi
150:50:40	CMH08-287	61.2	50.7	64.1	14.2	29.1
	NMH-713	64.7	56.6	61.5	14.2	29.5
	Seed Tech 2324 (C)	65.7	46.9	56.4	14.8	31.0
	Bio 9681 (C)	66.2	60.4	64.1	14.7	29.9
200:65:50	CMH08-287	69.1	52.4	60.7	14.4	30.6
	NMH-713	64.7	59.0	58.1	15.0	29.8
	Seed Tech 2324 (C)	67.7	56.6	59.0	14.7	31.8
	Bio 9681 (C)	67.7	62.5	59.8	14.7	28.9
250:80:60	CMH08-287	54.3	58.7	53.8	13.9	32.8
	NMH-713	66.7	62.8	55.6	15.3	29.8
	Seed Tech 2324 (C)	66.7	56.9	56.4	14.8	30.2
	Bio 9681 (C)	66.2	62.8	59.0	14.0	30.4

Location mean	65.1	57.2	59.0	14.6	30.3
C.D.(5%) AiBj-AiBk	6.3	3.3	9.3	0.6	3.8
C.D.(5%) AiBk-AjBk	7.2	3.9	8.3	0.9	3.5
F(5%)	s	s	n.s.	s	n.s.

150:50:40	64.4	53.6	61.5	14.5	29.9
200:65:50	67.3	57.6	59.4	14.7	30.3
250:80:60	63.5	60.3	56.2	14.5	30.8

C.D.(5%) Ai-Aj	4.8	2.7	2.1	0.8	1.0
C.V.(%) Error A	6.6	4.1	3.2	4.7	3.0
F(5%)	n.s.	s	s	n.s.	n.s.

CMH08-287	61.6	53.9	59.5	14.2	30.8
NMH-713	65.3	59.5	58.4	14.8	29.7
Seed Tech 2324 (C)	66.7	53.5	57.3	14.8	31.0
Bio 9681 (C)	66.7	61.9	61.0	14.5	29.7

C.D.(5%)Bi-Bj	3.6	1.9	5.4	0.4	2.2
C.V.(%)ErrorB	5.7	3.3	9.2	2.5	7.4
F(5%)	s	s	n.s.	s	n.s.

Cont...

## A13

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)			
		Delhi	Karnal	Ludhiana	Pantnagar
150:50:40	CMH08-287	196.0	210.0	221.3	206.7
	NMH-713	166.8	180.0	212.0	166.3
	Seed Tech 2324 (C)	166.3	193.3	201.3	167.7
	Bio 9681 (C)	178.5	190.0	224.3	170.7
200:65:50	CMH08-287	199.0	220.0	209.0	208.7
	NMH-713	166.2	208.3	212.3	171.3
	Seed Tech 2324 (C)	175.0	203.3	216.3	163.7
	Bio 9681 (C)	181.0	220.0	208.7	174.0
250:80:60	CMH08-287	197.5	210.0	230.7	204.3
	NMH-713	171.7	208.3	194.7	167.0
	Seed Tech 2324 (C)	166.5	195.0	214.0	172.7
	Bio 9681 (C)	186.3	196.7	207.0	180.0

Location mean	179.2	202.9	212.6	179.4
C.D.(5%) AiBj-AiBk	15.2	21.0	13.1	19.7
C.D.(5%) AiBk-AjBk	15.3	20.4	13.2	28.8
F(5%)	n.s.	n.s.	s	n.s.

150:50:40	176.9	193.3	214.8	177.8
200:65:50	180.3	212.9	211.6	179.4
250:80:60	180.5	202.5	211.6	181.0

C.D.(5%) Ai-Aj	8.0	9.5	7.0	23.5
C.V.(%) Error A	3.9	4.1	2.9	11.6
F(5%)	n.s.	s	n.s.	n.s.

CMH08-287	197.5	213.3	220.3	206.6
NMH-713	168.2	198.9	206.3	168.2
Seed Tech 2324 (C)	169.3	197.2	210.6	168.0
Bio 9681 (C)	181.9	202.2	213.3	174.9

C.D.(5%)Bi-Bj	8.8	12.1	7.5	11.4
C.V.(%)ErrorB	4.9	6.0	3.6	6.4
F(5%)	s	n.s.	s	s

Cont...



# A14

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)		Days to 50% tasseling		
		Karnal	Ludhiana	Karnal	Ludhiana	Pantnagar
150:50:40	CMH08-287	100.0	118.7	57.7	51.7	57.7
	NMH-713	85.0	109.3	58.7	49.7	55.7
	Seed Tech 2324 (C)	115.0	115.3	56.7	52.0	56.0
	Bio 9681 (C)	101.7	120.0	50.7	47.0	52.0
200:65:50	CMH08-287	113.3	123.3	56.3	52.3	58.0
	NMH-713	90.0	107.3	58.0	49.3	55.0
	Seed Tech 2324 (C)	121.7	125.0	56.7	51.3	55.3
	Bio 9681 (C)	111.7	109.7	53.3	46.3	52.7
250:80:60	CMH08-287	111.7	122.0	55.7	52.3	54.3
	NMH-713	105.0	99.7	59.0	50.3	55.7
	Seed Tech 2324 (C)	98.3	131.3	58.3	51.3	55.3
	Bio 9681 (C)	93.3	105.3	52.0	46.3	52.3

Location mean	103.9	115.6	56.1	50.0	55.0
C.D.(5%) AiBj-AiBk	11.3	10.3	2.4	1.9	3.0
C.D.(5%) AiBk-AjBk	13.8	11.7	2.5	2.0	2.9
F(5%)	s	s	n.s.	n.s.	n.s.

150:50:40	100.4	115.8	55.9	50.1	55.3
200:65:50	109.2	116.3	56.1	49.8	55.3
250:80:60	102.1	114.6	56.3	50.1	54.4

C.D.(5%) Ai-Aj	10.0	7.6	1.5	1.1	1.4
C.V.(%) Error A	8.5	5.8	2.3	2.0	2.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

CMH08-287	108.3	121.3	56.6	52.1	56.7
NMH-713	93.3	105.4	58.6	49.8	55.4
Seed Tech 2324 (C)	111.7	123.9	57.2	51.6	55.6
Bio 9681 (C)	102.2	111.7	52.0	46.6	52.3

C.D.(5%)Bi-Bj	6.5	6.0	1.4	1.1	1.7
C.V.(%)ErrorB	6.3	5.2	2.5	2.2	3.2
F(5%)	s	s	s	s	s

Cont...

## A15

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% Silking			Days 75% husk brown
		Karnal	Ludhiana	Pantnagar	Ludhiana
150:50:40	CMH08-287	59.7	53.7	59.7	94.7
	NMH-713	61.0	52.3	59.3	95.7
	Seed Tech 2324 (C)	59.0	54.0	59.3	91.3
	Bio 9681 (C)	53.0	49.0	56.7	83.7
200:65:50	CMH08-287	58.7	53.3	60.3	94.0
	NMH-713	60.7	51.7	59.7	95.0
	Seed Tech 2324 (C)	58.3	53.3	59.7	90.7
	Bio 9681 (C)	55.7	48.0	56.3	83.7
250:80:60	CMH08-287	57.7	54.3	58.7	94.0
	NMH-713	61.7	52.3	59.0	96.7
	Seed Tech 2324 (C)	61.7	52.3	58.7	91.0
	Bio 9681 (C)	54.0	48.3	56.7	83.7

Location mean	58.4	51.9	58.7	91.2
C.D.(5%) AiBj-AiBk	2.8	2.0	2.3	3.9
C.D.(5%) AiBk-AjBk	2.8	2.1	2.4	3.9
F(5%)	n.s.	n.s.	n.s.	n.s.

150:50:40	58.2	52.3	58.8	91.3
200:65:50	58.3	51.6	59.0	90.8
250:80:60	58.8	51.8	58.3	91.3

C.D.(5%) Ai-Aj	1.4	1.3	1.2	2.0
C.V.(%) Error A	2.2	2.2	1.9	2.0
F(5%)	n.s.	n.s.	n.s.	n.s.

CMH08-287	58.7	53.8	59.6	94.2
NMH-713	61.1	52.1	59.3	95.8
Seed Tech 2324 (C)	59.7	53.2	59.2	91.0
Bio 9681 (C)	54.2	48.4	56.6	83.7

C.D.(5%)Bi-Bj	1.6	1.1	1.3	2.3
C.V.(%)ErrorB	2.8	2.2	2.3	2.5
F(5%)	s	s	s	s

Cont...

## A16

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)		Cob diameter (cm)	No. of rows/cob		No. of grains /row
		Delhi	Ludhiana	Ludhiana	Delhi	Ludhiana	Delhi
150:50:40	CMH08-287	16.2	19.4	4.5	13.9	13.6	31.5
	NMH-713	17.2	19.7	4.4	15.2	13.7	33.2
	Seed Tech 2324 (C)	15.3	17.7	4.5	12.4	13.7	30.3
	Bio 9681 (C)	13.7	18.4	4.5	14.1	14.4	28.1
200:65:50	CMH08-287	14.9	18.7	4.6	13.2	14.1	30.5
	NMH-713	16.1	19.5	4.6	15.6	14.1	31.3
	Seed Tech 2324 (C)	15.7	18.4	4.7	12.4	14.7	32.6
	Bio 9681 (C)	14.4	22.1	4.7	14.4	14.5	30.6
250:80:60	CMH08-287	18.1	20.7	4.7	12.9	13.9	35.4
	NMH-713	18.0	19.5	4.7	16.0	15.7	33.5
	Seed Tech 2324 (C)	15.9	22.7	4.6	14.0	13.9	32.6
	Bio 9681 (C)	14.7	18.7	4.8	14.5	14.8	29.2

Location mean	15.9	19.6	4.6	14.1	14.3	31.6
C.D.(5%) AiBj-AiBk	1.4	1.6	0.3	1.2	0.6	4.0
C.D.(5%) AiBk-AjBk	1.6	1.7	0.3	1.2	0.8	4.3
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

150:50:40	15.6	18.8	4.5	13.9	13.9	30.8
200:65:50	15.3	19.7	4.6	13.9	14.4	31.3
250:80:60	16.7	20.4	4.7	14.4	14.6	32.7

C.D.(5%) Ai-Aj	1.0	0.9	0.2	0.6	0.7	2.7
C.V.(%) Error A	5.7	4.2	3.0	3.5	4.0	7.5
F(5%)	s	s	s	n.s.	n.s.	n.s.

CMH08-287	16.4	19.6	4.6	13.3	13.9	32.5
NMH-713	17.1	19.6	4.6	15.6	14.5	32.6
Seed Tech 2324 (C)	15.6	19.6	4.6	12.9	14.1	31.8
Bio 9681 (C)	14.3	19.7	4.7	14.4	14.6	29.3

C.D.(5%)Bi-Bj	0.8	0.9	0.2	0.7	0.4	2.3
C.V.(%)ErrorB	5.3	4.8	4.0	5.0	2.5	7.4
F(5%)	s	n.s.	n.s.	s	s	s

# A17

**Table 3: Relative performance of pre-release germplasm of late maturity at different NPK levels of during *Kharif* 2012 in zone III.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
150:50:40	A 7501	6111	5361	7137	5611
	BIO-562	5833	5325	6772	6521
	CMH08-287	5556	5347	7046	7340
	JH 12157	5764	5065	4714	5208
	M 9977	6076	4722	6493	8160
	X35A176	5625	5105	7089	6785
	Seed Tech 2324 (C)	5451	5221	6159	5556
	Bio 9681 (C)	5625	5368	4958	4764
200:65:50	A 7501	6875	5936	8283	6569
	BIO-562	6354	6011	7301	6472
	CMH08-287	6042	5648	7411	7347
	JH 12157	5868	6443	6553	5660
	M 9977	6667	6535	9429	6958
	X35A176	6285	5777	8657	6785
	Seed Tech 2324 (C)	5868	5797	6614	5813
	Bio 9681 (C)	6458	5843	6934	4632
250:80:60	A 7501	6736	6683	8849	6681
	BIO-562	6181	6900	8121	6583
	CMH08-287	5972	6924	7630	6118
	JH 12157	5833	6741	7153	5778
	M 9977	6632	7268	9937	7708
	X35A176	6181	7821	9437	6903
	Seed Tech 2324 (C)	6007	6430	6800	5201
	Bio 9681 (C)	6701	6322	7341	5528
Location mean	6112.6	6024.7	7367.4	6278.4	
C.D.(5%) AiBj-AiBk	595.1	508.3	1269.4	1804.5	
C.D.(5%) AiBk-AjBk	590.4	552.1	1410.8	2123.3	
F(5%)	n.s.	s	n.s.	n.s.	
150:50:40	5755	5189	6296	6243	
200:65:50	6302	5999	7648	6280	
250:80:60	6280	6886	8159	6313	
C.D.(5%) Ai-Aj	204.0	289.7	785.9	1325.7	
C.V.(%) Error A	4.2	6.0	13.3	26.3	
F(5%)	s	s	s	n.s.	
A 7501	6574	5993	8090	6287	
BIO-562	6123	6078	7398	6525	
CMH08-287	5856	5973	7363	6935	
JH 12157	5822	6083	6140	5549	
M 9977	6458	6175	8620	7609	
X35A176	6030	6234	8394	6824	
Seed Tech 2324 (C)	5775	5816	6524	5523	
Bio 9681 (C)	6262	5844	6411	4975	
C.D.(5%)Bi-Bj	343.6	293.5	732.9	1041.8	
C.V.(%)ErrorB	5.9	5.1	10.5	17.4	
F(5%)	s	n.s.	s	s	

Cont...

# A18

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob weight (kg/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
150:50:40	A 7501	7674	7722	8798	8542
	BIO-562	7396	7500	8852	9514
	CMH08-287	7049	7917	7847	11042
	JH 12157	7153	7306	5258	7639
	M 9977	7639	6972	8481	12431
	X35A176	7083	7444	9185	10000
	Seed Tech 2324 (C)	6979	7583	6759	8194
	Bio 9681 (C)	7188	7639	6233	6806
200:65:50	A 7501	8611	8528	9749	10000
	BIO-562	8056	8611	8704	9514
	CMH08-287	7604	8444	9749	10972
	JH 12157	7465	9083	7667	7986
	M 9977	8542	9556	12296	10625
	X35A176	7951	8389	10611	10139
	Seed Tech 2324 (C)	7604	8500	7537	6875
	Bio 9681 (C)	8160	8417	7814	6458
250:80:60	A 7501	8507	9639	11235	10069
	BIO-562	7847	9806	9815	9653
	CMH08-287	7639	10222	8917	9375
	JH 12157	7326	9722	8156	8125
	M 9977	8438	10806	11537	11597
	X35A176	7778	11389	11852	10208
	Seed Tech 2324 (C)	7639	9389	8296	7431
	Bio 9681 (C)	8542	9333	8999	7917
Location mean	7744.5	8746.5	8931.1	9213.0	
C.D.(5%) AiBj-AiBk	733.3	739.2	1479.6	2468.2	
C.D.(5%) AiBk-AjBk	749.0	810.7	1741.5	2804.0	
F(5%)	n.s.	s	n.s.	n.s.	
150:50:40	7270	7510	7677	9271	
200:65:50	7999	8691	9266	9071	
250:80:60	7964	10038	9851	9297	
C.D.(5%) Ai-Aj	311.3	436.8	1087.9	1640.0	
C.V.(%) Error A	5.0	6.2	15.2	22.2	
F(5%)	s	s	s	n.s.	
A 7501	8264	8630	9927	9537	
BIO-562	7766	8639	9123	9560	
CMH08-287	7431	8861	8837	10463	
JH 12157	7315	8704	7027	7917	
M 9977	8206	9111	10772	11551	
X35A176	7604	9074	10549	10116	
Seed Tech 2324 (C)	7407	8491	7531	7500	
Bio 9681 (C)	7963	8463	7682	7060	
C.D.(5%)Bi-Bj	423.4	426.8	854.3	1425.0	
C.V.(%)ErrorB	5.7	5.1	10.0	16.3	
F(5%)	s	s	s	s	

Cont...

# A19

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plant ('000/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
150:50:40	A 7501	68.8	61.1	65.2	66.0
	BIO-562	65.6	64.2	64.4	61.1
	CMH08-287	67.4	62.8	73.7	53.5
	JH 12157	69.8	60.6	62.6	61.8
	M 9977	66.7	65.3	62.6	66.0
	X35A176	69.1	62.8	66.7	59.0
	Seed Tech 2324 (C)	67.4	65.6	59.3	54.9
	Bio 9681 (C)	68.8	62.5	64.1	59.7
200:65:50	A 7501	69.1	63.3	67.0	59.0
	BIO-562	67.7	61.4	64.1	54.2
	CMH08-287	66.3	62.8	61.5	55.6
	JH 12157	67.4	61.7	64.1	62.5
	M 9977	66.7	61.7	67.0	53.5
	X35A176	68.8	64.7	69.6	57.6
	Seed Tech 2324 (C)	69.1	61.9	64.8	60.4
	Bio 9681 (C)	69.1	62.2	66.7	59.7
250:80:60	A 7501	68.1	61.7	68.5	65.3
	BIO-562	67.7	62.8	67.8	52.8
	CMH08-287	66.3	63.3	60.4	48.6
	JH 12157	65.6	62.2	65.6	57.6
	M 9977	66.7	61.4	68.9	63.2
	X35A176	66.7	62.5	68.9	57.6
	Seed Tech 2324 (C)	68.8	62.8	60.7	57.6
	Bio 9681 (C)	67.0	63.6	69.3	57.6
Location mean	67.7	62.7	65.6	58.5	
C.D.(5%) AiBj-AiBk	2.7	3.8	8.9	9.7	
C.D.(5%) AiBk-AjBk	2.7	4.1	9.7	10.2	
F(5%)	n.s.	n.s.	n.s.	n.s.	
150:50:40	67.9	63.1	64.8	60.2	
200:65:50	68.0	62.5	65.6	57.8	
250:80:60	67.1	62.5	66.3	57.6	
C.D.(5%) Ai-Aj	0.8	2.0	5.1	4.8	
C.V.(%) Error A	1.5	3.9	9.7	10.3	
F(5%)	n.s.	n.s.	n.s.	n.s.	
A 7501	68.6	62.0	66.9	63.4	
BIO-562	67.0	62.8	65.4	56.0	
CMH08-287	66.7	63.0	65.2	52.5	
JH 12157	67.6	61.5	64.1	60.6	
M 9977	66.7	62.8	66.2	60.9	
X35A176	68.2	63.3	68.4	58.1	
Seed Tech 2324 (C)	68.4	63.4	61.6	57.6	
Bio 9681 (C)	68.3	62.8	66.7	59.0	
C.D.(5%)Bi-Bj	1.6	2.2	5.1	5.6	
C.V.(%)ErrorB	2.4	3.7	8.2	10.0	
F(5%)	n.s.	n.s.	n.s.	s	

Cont...

## A20

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
150:50:40	A 7501	68.1	59.7	63.3	64.6
	BIO-562	64.6	62.8	60.7	59.7
	CMH08-287	66.7	60.8	61.9	61.1
	JH 12157	68.4	61.7	58.5	59.0
	M 9977	64.9	63.6	58.9	66.0
	X35A176	67.7	60.6	66.7	59.7
	Seed Tech 2324 (C)	66.3	62.5	57.4	56.9
	Bio 9681 (C)	67.4	60.6	59.6	56.9
200:65:50	A 7501	67.7	64.7	60.7	61.1
	BIO-562	67.0	61.9	63.0	54.2
	CMH08-287	66.0	63.3	59.3	55.6
	JH 12157	66.7	62.8	61.5	66.0
	M 9977	66.0	61.7	65.2	53.5
	X35A176	68.4	65.8	63.7	59.0
	Seed Tech 2324 (C)	68.4	64.2	62.6	60.4
	Bio 9681 (C)	67.0	63.6	64.4	57.6
250:80:60	A 7501	66.7	63.9	66.7	66.7
	BIO-562	66.3	63.1	63.3	51.4
	CMH08-287	64.6	64.7	57.8	50.0
	JH 12157	64.9	62.8	64.4	57.6
	M 9977	65.6	63.9	64.8	61.8
	X35A176	65.6	65.0	65.9	58.3
	Seed Tech 2324 (C)	68.1	65.8	59.6	57.6
	Bio 9681 (C)	65.6	65.3	66.7	59.7
Location mean	66.6	63.1	62.4	58.9	
C.D.(5%) AiBj-AiBk	2.4	5.0	10.0	9.8	
C.D.(5%) AiBk-AjBk	2.3	5.1	11.3	9.8	
F(5%)	n.s.	n.s.	n.s.	n.s.	
150:50:40	66.8	61.5	60.9	60.5	
200:65:50	67.1	63.5	62.5	58.4	
250:80:60	65.9	64.3	63.7	57.9	
C.D.(5%) Ai-Aj	0.6	2.1	6.6	3.8	
C.V.(%) Error A	1.1	4.2	13.3	8.0	
F(5%)	s	s	n.s.	n.s.	
A 7501	67.5	62.8	63.6	64.1	
BIO-562	66.0	62.6	62.3	55.1	
CMH08-287	65.7	63.0	59.6	55.6	
JH 12157	66.7	62.4	61.5	60.9	
M 9977	65.5	63.1	63.0	60.4	
X35A176	67.2	63.8	65.4	59.0	
Seed Tech 2324 (C)	67.6	64.2	59.9	58.3	
Bio 9681 (C)	66.7	63.1	63.6	58.1	
C.D.(5%)Bi-Bj	1.4	2.9	5.8	5.6	
C.V.(%)ErrorB	2.2	4.8	9.7	10.1	
F(5%)	s	n.s.	n.s.	n.s.	

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## A21

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
150:50:40	A 7501	144.9	117.4	195.6	146.3
	BIO-562	172.7	127.7	254.2	161.0
	CMH08-287	184.7	152.5	229.1	172.0
	JH 12157	159.2	124.3	215.3	158.3
	M 9977	168.9	125.8	210.5	157.0
	X35A176	154.2	120.4	239.7	170.0
	Seed Tech 2324 (C)	146.9	118.8	211.5	132.3
	Bio 9681 (C)	172.2	134.8	229.6	169.0
200:65:50	A 7501	144.9	113.0	226.7	151.3
	BIO-562	163.3	134.7	264.8	164.0
	CMH08-287	185.5	154.2	247.8	184.3
	JH 12157	177.9	139.7	243.5	168.7
	M 9977	164.9	131.6	247.6	162.7
	X35A176	184.1	128.3	277.1	173.3
	Seed Tech 2324 (C)	170.6	115.4	232.4	146.3
	Bio 9681 (C)	168.5	139.6	257.3	161.7
250:80:60	A 7501	154.6	125.5	213.5	154.0
	BIO-562	184.8	127.7	258.4	160.0
	CMH08-287	185.9	155.1	254.5	180.7
	JH 12157	185.7	147.9	256.3	162.0
	M 9977	171.5	146.3	235.0	156.3
	X35A176	187.3	124.5	275.1	174.0
	Seed Tech 2324 (C)	171.1	124.0	258.9	153.3
	Bio 9681 (C)	193.8	141.2	258.6	157.0
Location mean	170.8	132.1	241.4	161.5	
C.D.(5%) AiBj-AiBk	16.7	6.7	29.4	12.9	
C.D.(5%) AiBk-AjBk	18.3	9.4	43.6	15.6	
F(5%)	s	s	n.s.	n.s.	
150:50:40	162.9	127.7	223.2	158.3	
200:65:50	170.0	132.0	249.6	164.0	
250:80:60	179.4	136.5	251.3	162.2	
C.D.(5%) Ai-Aj	9.8	7.2	34.5	10.2	
C.V.(%) Error A	7.1	6.8	17.8	7.9	
F(5%)	s	n.s.	n.s.	n.s.	
A 7501	148.1	118.6	211.9	150.6	
BIO-562	173.6	130.0	259.1	161.7	
CMH08-287	185.4	153.9	243.8	179.0	
JH 12157	174.3	137.3	238.4	163.0	
M 9977	168.4	134.6	231.0	158.7	
X35A176	175.2	124.4	264.0	172.4	
Seed Tech 2324 (C)	162.9	119.4	234.3	144.0	
Bio 9681 (C)	178.2	138.5	248.5	162.6	
C.D.(5%)Bi-Bj	9.6	3.9	17.0	7.5	
C.V.(%)ErrorB	5.9	3.1	7.4	4.9	
F(5%)	s	s	s	s	

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## A22

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)		Days of 50% tasseling		
		Bhubaneswar	Dholi	Dholi	Ranchi	Varanasi
150:50:40	A 7501	62.9	51.2	56.0	56.0	57.7
	BIO-562	80.2	52.9	55.7	57.0	57.0
	CMH08-287	81.9	69.4	56.7	53.0	57.0
	JH 12157	61.2	46.1	53.7	53.0	53.7
	M 9977	75.4	51.0	56.7	55.0	55.0
	X35A176	69.7	50.7	59.0	56.0	58.3
	Seed Tech 2324 (C)	68.2	50.4	57.0	55.0	60.3
	Bio 9681 (C)	66.3	53.1	52.0	54.0	56.0
200:65:50	A 7501	59.8	45.4	57.0	53.7	56.0
	BIO-562	69.4	60.0	55.3	55.7	54.7
	CMH08-287	87.6	65.5	56.7	55.7	57.7
	JH 12157	74.7	60.6	54.3	51.7	52.0
	M 9977	71.4	59.2	57.7	53.7	55.0
	X35A176	80.8	52.5	58.7	52.7	55.7
	Seed Tech 2324 (C)	90.5	54.1	57.0	55.7	57.0
	Bio 9681 (C)	60.7	54.0	52.7	52.7	52.3
250:80:60	A 7501	75.0	53.1	57.0	54.0	55.3
	BIO-562	87.8	54.7	55.7	54.0	54.7
	CMH08-287	87.5	65.2	56.7	54.0	58.0
	JH 12157	80.0	57.0	57.0	50.0	52.0
	M 9977	81.9	65.1	56.0	54.0	55.0
	X35A176	84.4	54.4	57.0	53.0	55.7
	Seed Tech 2324 (C)	94.1	55.6	56.7	55.0	59.0
	Bio 9681 (C)	86.4	53.2	53.7	51.0	53.0
Location mean	76.6	55.6	56.1	54.0	55.8	
C.D.(5%) AiBj-AiBk	15.4	5.7	2.1	1.0	3.4	
C.D.(5%) AiBk-AjBk	16.9	7.3	2.0	3.4	4.0	
F(5%)	n.s.	s	n.s.	s	n.s.	
150:50:40	70.7	53.1	55.8	54.9	56.9	
200:65:50	74.4	56.4	56.2	53.9	55.0	
250:80:60	84.6	57.3	56.2	53.1	55.3	
C.D.(5%) Ai-Aj	9.1	5.2	0.5	3.3	2.4	
C.V.(%) Error A	14.9	11.6	1.1	7.6	5.4	
F(5%)	s	n.s.	n.s.	n.s.	n.s.	
A 7501	65.9	49.9	56.7	54.6	56.3	
BIO-562	79.1	55.9	55.6	55.6	55.4	
CMH08-287	85.7	66.7	56.7	54.2	57.6	
JH 12157	71.9	54.6	55.0	51.6	52.6	
M 9977	76.2	58.4	56.8	54.2	55.0	
X35A176	78.3	52.6	58.2	53.9	56.6	
Seed Tech 2324 (C)	84.3	53.4	56.9	55.2	58.8	
Bio 9681 (C)	71.1	53.4	52.8	52.6	53.8	
C.D.(5%)Bi-Bj	8.9	3.3	1.2	0.6	2.0	
C.V.(%)ErrorB	12.2	6.2	2.2	1.1	3.7	
F(5%)	s	s	s	s	s	

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## A23

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days 50% silking			
		Bhubaneswar	Dholi	Ranchi	Varanasi
150:50:40	A 7501	57.3	58.3	60.0	64.7
	BIO-562	57.0	58.7	61.0	61.7
	CMH08-287	57.7	59.3	57.0	61.7
	JH 12157	57.0	57.3	57.0	62.0
	M 9977	57.3	59.3	59.0	59.3
	X35A176	59.0	62.0	60.0	63.0
	Seed Tech 2324 (C)	59.0	60.0	59.0	66.0
	Bio 9681 (C)	54.7	55.0	58.0	62.3
200:65:50	A 7501	57.3	59.7	57.7	62.7
	BIO-562	57.7	58.0	59.3	59.3
	CMH08-287	57.3	59.3	59.3	62.7
	JH 12157	54.7	57.3	55.3	58.0
	M 9977	56.3	60.3	57.3	60.0
	X35A176	59.3	61.3	56.3	59.7
	Seed Tech 2324 (C)	61.0	59.7	59.3	62.0
	Bio 9681 (C)	54.0	56.0	56.3	58.7
250:80:60	A 7501	56.3	59.0	57.7	60.7
	BIO-562	57.3	58.3	57.7	59.3
	CMH08-287	58.0	58.7	57.7	61.3
	JH 12157	53.0	57.7	53.7	57.3
	M 9977	58.3	59.3	57.7	59.3
	X35A176	59.0	59.3	56.7	60.7
	Seed Tech 2324 (C)	60.0	59.7	58.7	64.0
	Bio 9681 (C)	52.0	55.7	54.7	59.7
Location mean	57.1	58.7	57.8	61.1	
C.D.(5%) AiBj-AiBk	1.4	2.3	1.1	3.8	
C.D.(5%) AiBk-AjBk	1.5	2.3	3.0	4.8	
F(5%)	s	n.s.	s	n.s.	
150:50:40	57.4	58.8	58.9	62.6	
200:65:50	57.2	59.0	57.6	60.4	
250:80:60	56.8	58.5	56.8	60.3	
C.D.(5%) Ai-Aj	0.7	0.8	2.8	3.2	
C.V.(%) Error A	1.6	1.7	6.0	6.6	
F(5%)	n.s.	n.s.	n.s.	n.s.	
A 7501	57.0	59.0	58.4	62.7	
BIO-562	57.3	58.3	59.3	60.1	
CMH08-287	57.7	59.1	58.0	61.9	
JH 12157	54.9	57.4	55.3	59.1	
M 9977	57.3	59.7	58.0	59.6	
X35A176	59.1	60.9	57.7	61.1	
Seed Tech 2324 (C)	60.0	59.8	59.0	64.0	
Bio 9681 (C)	53.6	55.6	56.3	60.2	
C.D.(5%)Bi-Bj	0.8	1.3	0.6	2.2	
C.V.(%)ErrorB	1.5	2.3	1.2	3.8	
F(5%)	s	s	s	s	

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## A24

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Shelling (%)	Days to 50% pollen shed	Days to 75% dry husk	
				Bhubaneswar	Dholi
150:50:40	A 7501	79.8	55.3	95.7	94.3
	BIO-562	78.7	56.0	94.7	92.7
	CMH08-287	78.7	54.7	95.7	92.7
	JH 12157	77.8	54.3	93.3	89.0
	M 9977	79.5	54.7	96.7	93.3
	X35A176	79.7	55.3	96.0	93.3
	Seed Tech 2324 (C)	77.9	57.7	95.0	94.0
	Bio 9681 (C)	78.6	53.0	92.0	88.7
200:65:50	A 7501	79.9	55.7	96.0	93.0
	BIO-562	78.7	56.0	95.3	93.3
	CMH08-287	79.2	55.0	97.3	93.0
	JH 12157	78.7	53.0	93.0	89.0
	M 9977	78.2	55.3	95.0	94.0
	X35A176	79.3	57.3	95.7	94.3
	Seed Tech 2324 (C)	76.7	58.3	94.3	93.0
	Bio 9681 (C)	79.3	52.7	92.7	87.3
250:80:60	A 7501	79.7	55.0	94.3	92.7
	BIO-562	78.7	56.0	95.0	92.3
	CMH08-287	78.3	56.7	95.7	92.0
	JH 12157	79.7	52.0	93.7	90.7
	M 9977	78.6	56.7	95.3	94.3
	X35A176	79.7	56.7	95.7	91.7
	Seed Tech 2324 (C)	78.4	56.7	94.7	91.0
	Bio 9681 (C)	78.2	52.7	93.0	88.7
Location mean		78.8	55.3	94.8	92.0
C.D.(5%) AiBj-AiBk		0.9	1.2	1.1	2.2
C.D.(5%) AiBk-AjBk		0.8	1.3	1.3	2.2
F(5%)		s	s	s	n.s.
150:50:40		78.9	55.1	94.9	92.3
200:65:50		78.8	55.4	94.9	92.1
250:80:60		78.9	55.3	94.7	91.7
C.D.(5%) Ai-Aj		0.2	0.6	0.8	0.8
C.V.(%) Error A		0.3	1.3	1.1	1.1
F(5%)		n.s.	n.s.	n.s.	n.s.
A 7501		79.8	55.3	95.3	93.3
BIO-562		78.7	56.0	95.0	92.8
CMH08-287		78.8	55.4	96.2	92.6
JH 12157		78.8	53.1	93.3	89.6
M 9977		78.8	55.6	95.7	93.9
X35A176		79.6	56.4	95.8	93.1
Seed Tech 2324 (C)		77.7	57.6	94.7	92.7
Bio 9681 (C)		78.7	52.8	92.6	88.2
C.D.(5%)Bi-Bj		0.5	0.7	0.6	1.3
C.V.(%)ErrorB		0.7	1.3	0.7	1.4
F(5%)		s	s	s	s

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## A25

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)	No of grain rows/cob	No of grains/row	100 grain wt. (gm)	Moisture (%)
150:50:40	A 7501	15.0	14.1	33.7	33.2	20.3
	BIO-562	14.9	16.4	31.9	34.0	20.3
	CMH08-287	16.3	13.7	28.7	33.7	20.9
	JH 12157	13.8	13.7	28.6	29.5	19.1
	M 9977	15.5	13.5	33.7	33.7	19.9
	X35A176	16.0	12.9	35.1	33.2	19.6
	Seed Tech 2324 (C)	15.5	14.3	26.0	32.0	20.1
	Bio 9681 (C)	16.2	14.3	29.2	30.7	20.1
200:65:50	A 7501	15.1	15.2	34.9	34.4	20.3
	BIO-562	13.1	15.5	29.1	33.7	20.1
	CMH08-287	12.2	13.1	24.4	33.1	20.4
	JH 12157	14.1	14.6	26.4	32.2	18.9
	M 9977	16.2	12.6	32.1	33.8	20.0
	X35A176	15.7	13.0	35.5	33.7	19.7
	Seed Tech 2324 (C)	14.6	13.7	28.2	33.1	20.8
	Bio 9681 (C)	13.1	13.7	23.4	31.1	7.0
250:80:60	A 7501	15.6	15.2	35.5	33.2	20.0
	BIO-562	12.9	15.2	31.7	33.4	20.2
	CMH08-287	16.2	13.2	37.0	33.3	20.4
	JH 12157	14.2	14.9	26.1	31.9	19.4
	M 9977	14.4	12.9	28.1	33.5	20.5
	X35A176	15.5	13.9	33.7	32.1	19.7
	Seed Tech 2324 (C)	17.0	12.9	30.7	31.1	20.7
	Bio 9681 (C)	14.4	14.7	25.6	32.9	20.2
Location mean		14.9	14.1	30.4	32.8	19.5
C.D.(5%) AiBj-AiBk		1.2	0.9	1.2	1.1	4.2
C.D.(5%) AiBk-AjBk		1.2	0.9	1.2	1.1	4.3
F(5%)		s	s	s	s	s
150:50:40		15.4	14.1	30.9	32.5	20.0
200:65:50		14.3	13.9	29.2	33.1	18.4
250:80:60		15.0	14.1	31.0	32.7	20.1
C.D.(5%) Ai-Aj		0.4	0.1	0.4	0.3	1.9
C.V.(%) Error A		3.7	1.0	1.6	1.0	11.8
F(5%)		s	s	s	s	n.s.
A 7501		15.2	14.8	34.7	33.6	20.2
BIO-562		13.7	15.7	30.9	33.7	20.2
CMH08-287		14.9	13.4	30.0	33.4	20.5
JH 12157		14.0	14.4	27.0	31.2	19.1
M 9977		15.4	13.0	31.3	33.7	20.1
X35A176		15.7	13.2	34.8	33.0	19.7
Seed Tech 2324 (C)		15.7	13.6	28.3	32.1	20.6
Bio 9681 (C)		14.6	14.2	26.0	31.6	15.8
C.D.(5%)Bi-Bj		0.7	0.5	0.7	0.6	2.4
C.V.(%)ErrorB		4.9	4.0	2.4	2.0	13.1
F(5%)		s	s	s	s	s

Cont...

## A26

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days of germination	Banded leaf & Sheath blight	Maydis	No. of barren plant ('000/ha)
		Dholi	Ranchi		Varanasi
150:50:40	A 7501	4.3	4.0	1.5	1.4
	BIO-562	4.7	2.0	2.5	1.4
	CMH08-287	4.0	1.5	1.5	0.7
	JH 12157	4.7	1.5	1.5	2.8
	M 9977	4.7	2.0	1.0	0.0
	X35A176	4.3	1.0	1.0	0.0
	Seed Tech 2324 (C)	4.7	2.0	2.0	0.7
	Bio 9681 (C)	4.0	2.0	1.0	3.5
200:65:50	A 7501	4.3	3.0	1.2	2.1
	BIO-562	4.7	2.5	1.2	0.0
	CMH08-287	4.3	2.0	1.2	0.0
	JH 12157	4.7	3.0	1.2	0.0
	M 9977	4.7	1.5	1.2	0.7
	X35A176	4.3	1.5	1.7	0.7
	Seed Tech 2324 (C)	4.7	2.0	2.7	0.0
	Bio 9681 (C)	4.3	3.0	3.2	2.1
250:80:60	A 7501	4.3	3.5	2.0	0.0
	BIO-562	4.7	1.5	2.0	2.1
	CMH08-287	4.3	2.0	1.5	2.1
	JH 12157	4.3	3.0	2.0	1.4
	M 9977	5.0	3.0	1.5	1.4
	X35A176	4.3	3.0	2.5	0.0
	Seed Tech 2324 (C)	4.7	1.5	2.5	2.1
	Bio 9681 (C)	4.3	3.5	2.5	2.1
Location mean	4.5	2.3	1.7	1.1	
C.D.(5%) AiBj-AiBk	0.9	0.4	0.4	3.3	
C.D.(5%) AiBk-AjBk	0.9	1.2	1.0	3.1	
F(5%)	n.s.	s	s	n.s.	
150:50:40	4.4	2.0	1.5	1.3	
200:65:50	4.5	2.3	1.7	0.7	
250:80:60	4.5	2.6	2.1	1.4	
C.D.(5%) Ai-Aj	0.3	1.2	1.0	0.2	
C.V.(%) Error A	8.3	62.3	70.3	26.6	
F(5%)	n.s.	n.s.	n.s.	s	
A 7501	4.3	3.5	1.6	1.2	
BIO-562	4.7	2.0	1.9	1.2	
CMH08-287	4.2	1.8	1.4	0.9	
JH 12157	4.6	2.5	1.6	1.4	
M 9977	4.8	2.2	1.2	0.7	
X35A176	4.3	1.8	1.7	0.2	
Seed Tech 2324 (C)	4.7	1.8	2.4	0.9	
Bio 9681 (C)	4.2	2.8	2.2	2.5	
C.D.(5%)Bi-Bj	0.5	0.2	0.2	1.9	
C.V.(%)ErrorB	12.6	9.9	14.5	175.6	
F(5%)	n.s.	s	s	n.s.	

## A27

**Table 4: Relative performance of pre-release germplasm of late maturity at different NPK levels of during *Kharif* 2012 in zone IV.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
150:50:40	Seed Tech 2324 (C)	6916	6371	9884	4880	5394
	Bio 9681 (C)	6501	6660	9912	5129	5385
	CMH08-287	8220	7286	8941	5780	5434
200:65:50	Seed Tech 2324 (C)	8684	7313	10373	5738	5525
	Bio 9681 (C)	8275	7318	10331	6211	5355
	CMH08-287	9820	7830	9444	6638	5770
250:80:60	Seed Tech 2324 (C)	9311	7886	10898	5964	5522
	Bio 9681 (C)	8748	7851	11109	6953	5557
	CMH08-287	10232	8710	10176	7611	5793

Location mean	8523.3	7469.5	10118.8	6100.5	5526.1
C.D.(5%) AiBj-AiBk	1179.3	826.1	1179.0	1042.6	432.1
C.D.(5%) AiBk-AjBk	1578.2	786.9	1037.4	1236.5	450.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	7213	6772	9579	5263	5404
200:65:50	8926	7487	10049	6196	5550
250:80:60	9431	8149	10728	6843	5624

C.D.(5%) Ai-Aj	1264.7	413.1	394.8	909.2	285.4
C.V.(%) Error A	11.3	4.2	3.0	11.4	3.9
F(5%)	s	s	s	s	n.s.

Seed Tech 2324 (C)	8304	7190	10385	5527	5480
Bio 9681 (C)	7841	7276	10451	6098	5432
CMH08-287	9424	7942	9521	6676	5665

C.D.(5%)Bi-Bj	680.9	476.9	680.7	602.0	249.4
C.V.(%)ErrorB	7.8	6.2	6.5	9.6	4.4
F(5%)	s	s	s	s	n.s.

Cont...

## A28

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
150:50:40	Seed Tech 2324 (C)	8400	8890	9596	5811	6500
	Bio 9681 (C)	8022	8385	10619	6104	6415
	CMH08-287	10289	9917	11005	7038	6424
200:65:50	Seed Tech 2324 (C)	10911	10025	9985	6973	6534
	Bio 9681 (C)	10178	9439	10876	7393	6565
	CMH08-287	12311	10258	11252	7976	6883
250:80:60	Seed Tech 2324 (C)	11333	10289	10435	7062	6638
	Bio 9681 (C)	10822	9968	11660	8251	6656
	CMH08-287	13044	10631	12219	9304	6644

Location mean	10590.1	9755.7	10849.6	7323.7	6584.5
C.D.(5%) AiBj-AiBk	1411.1	1025.6	342.4	1236.3	544.8
C.D.(5%) AiBk-AjBk	2011.9	1425.4	498.3	1461.9	563.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	8904	9064	10406	6318	6446
200:65:50	11133	9907	10704	7447	6661
250:80:60	11733	10296	11438	8206	6646

C.D.(5%) Ai-Aj	1666.2	1165.8	416.5	1072.3	351.7
C.V.(%) Error A	12.0	9.1	2.9	11.2	4.1
F(5%)	s	n.s.	s	s	n.s.

Seed Tech 2324 (C)	10215	9734	10005	6616	6558
Bio 9681 (C)	9674	9264	11051	7250	6545
CMH08-287	11881	10269	11492	8106	6650

C.D.(5%)Bi-Bj	814.7	592.1	197.7	713.8	314.6
C.V.(%)ErrorB	7.5	5.9	1.8	9.5	4.7
F(5%)	s	s	s	s	n.s.

Cont...

## A29

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plants ('000/ha)			
		Arabhavi	Hyderabad	Kolhapur	Vagarai
150:50:40	Seed Tech 2324 (C)	51.3	53.8	57.6	62.5
	Bio 9681 (C)	43.1	54.7	56.9	65.5
	CMH08-287	41.8	57.6	58.9	47.7
200:65:50	Seed Tech 2324 (C)	50.4	56.0	58.2	63.7
	Bio 9681 (C)	43.3	55.6	57.1	64.4
	CMH08-287	42.7	56.4	60.0	48.6
250:80:60	Seed Tech 2324 (C)	48.0	56.7	59.3	64.8
	Bio 9681 (C)	50.7	55.6	61.8	65.0
	CMH08-287	49.1	57.6	61.3	48.6

Location mean	46.7	56.0	59.0	59.0
C.D.(5%) AiBj-AiBk	11.5	6.1	7.6	3.1
C.D.(5%) AiBk-AjBk	13.2	5.9	8.4	4.4
F(5%)	n.s.	n.s.	n.s.	n.s.

150:50:40	45.4	55.3	57.8	58.6
200:65:50	45.5	56.0	58.4	58.9
250:80:60	49.3	56.6	60.8	59.5

C.D.(5%) Ai-Aj	9.4	3.3	5.8	3.6
C.V.(%) Error A	15.4	4.5	7.5	4.7
F(5%)	n.s.	n.s.	n.s.	n.s.

Seed Tech 2324 (C)	49.9	55.5	58.4	63.7
Bio 9681 (C)	45.7	55.3	58.6	65.0
CMH08-287	44.5	57.2	60.1	48.3

C.D.(5%)Bi-Bj	6.6	3.5	4.4	1.8
C.V.(%)ErrorB	13.8	6.1	7.2	2.9
F(5%)	n.s.	n.s.	n.s.	s

Cont...



## A30

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			Fodder yield (kg/ha)
		Arabhazi	Hyderabad	Vagarai	Arabhazi
150:50:40	Seed Tech 2324 (C)	52.0	45.6	63.0	6267
	Bio 9681 (C)	51.3	45.6	63.9	4889
	CMH08-287	44.0	48.0	46.3	9689
200:65:50	Seed Tech 2324 (C)	55.1	52.2	62.3	6800
	Bio 9681 (C)	50.2	48.0	64.1	6311
	CMH08-287	44.0	53.6	47.2	10489
250:80:60	Seed Tech 2324 (C)	57.6	54.9	62.3	7111
	Bio 9681 (C)	59.1	52.2	63.2	6578
	CMH08-287	43.8	53.6	44.2	10089

Location mean	50.8	50.4	57.4	7580.2
C.D.(5%) AiBj-AiBk	6.8	5.8	4.2	1212.6
C.D.(5%) AiBk-AjBk	6.9	6.0	5.2	2630.4
F(5%)	n.s.	n.s.	n.s.	n.s.

150:50:40	49.1	46.4	57.7	6948
200:65:50	49.8	51.3	57.9	7867
250:80:60	53.5	53.6	56.6	7926

C.D.(5%) Ai-Aj	4.2	3.7	3.9	2448.9
C.V.(%) Error A	6.3	5.6	5.2	24.7
F(5%)	n.s.	s	n.s.	n.s.

Seed Tech 2324 (C)	54.9	50.9	62.5	6726
Bio 9681 (C)	53.6	48.6	63.7	5926
CMH08-287	43.9	51.7	45.9	10089

C.D.(5%)Bi-Bj	3.9	3.3	2.4	700.1
C.V.(%)ErrorB	7.5	6.5	4.1	9.0
F(5%)	s	n.s.	s	s

Cont...

# A31

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
150:50:40	Seed Tech 2324 (C)	148.3	166.9	198.7	167.7	123.9
	Bio 9681 (C)	164.0	185.3	210.7	168.0	140.9
	CMH08-287	168.3	177.7	234.7	178.0	153.2
200:65:50	Seed Tech 2324 (C)	161.1	198.3	203.0	172.7	125.5
	Bio 9681 (C)	153.0	142.4	214.3	176.7	135.8
	CMH08-287	166.7	212.0	226.3	199.7	158.8
250:80:60	Seed Tech 2324 (C)	159.2	210.7	204.7	175.7	123.3
	Bio 9681 (C)	153.3	213.8	226.3	184.0	136.5
	CMH08-287	151.0	224.9	247.7	213.3	150.6

Location mean	158.3	192.4	218.5	181.7	138.7
C.D.(5%) AiBj-AiBk	6.4	71.5	29.4	10.2	10.7
C.D.(5%) AiBk-AjBk	21.3	72.9	29.2	9.7	12.7
F(5%)	s	n.s.	n.s.	s	n.s.

150:50:40	160.2	176.6	214.7	171.2	139.3
200:65:50	160.2	184.2	214.6	183.0	140.0
250:80:60	154.5	216.5	226.2	191.0	136.8

C.D.(5%) Ai-Aj	20.7	44.4	16.9	5.0	9.3
C.V.(%) Error A	10.0	17.6	5.9	2.1	5.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.

Seed Tech 2324 (C)	156.2	192.0	202.1	172.0	124.2
Bio 9681 (C)	156.8	180.5	217.1	176.2	137.7
CMH08-287	162.0	204.9	236.2	197.0	154.2

C.D.(5%)Bi-Bj	3.7	41.3	17.0	5.9	6.2
C.V.(%)ErrorB	2.3	20.9	7.6	3.2	4.3
F(5%)	s	n.s.	s	s	s

Cont...

## A32

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)			
		Arabhavi	Hyderabad	Karimnagar	Vagarai
150:50:40	Seed Tech 2324 (C)	75.7	76.8	103.3	68.1
	Bio 9681 (C)	70.3	69.0	89.3	63.0
	CMH08-287	75.3	88.9	115.0	78.5
200:65:50	Seed Tech 2324 (C)	73.0	83.0	102.7	66.2
	Bio 9681 (C)	71.7	83.3	94.7	63.6
	CMH08-287	81.7	93.3	116.3	85.0
250:80:60	Seed Tech 2324 (C)	70.3	88.1	107.0	76.2
	Bio 9681 (C)	68.3	89.8	95.0	61.3
	CMH08-287	67.7	99.0	115.7	76.9

Location mean	72.7	85.7	104.3	71.0
C.D.(5%) AiBj-AiBk	10.8	10.5	16.0	7.9
C.D.(5%) AiBk-AjBk	14.4	19.5	16.8	8.6
F(5%)	n.s.	n.s.	n.s.	s

150:50:40	73.8	78.2	102.6	69.9
200:65:50	75.4	86.6	104.6	71.6
250:80:60	68.8	92.3	105.9	71.5

C.D.(5%) Ai-Aj	11.5	17.6	10.8	5.8
C.V.(%) Error A	12.1	15.7	7.9	6.3
F(5%)	n.s.	n.s.	n.s.	n.s.

Seed Tech 2324 (C)	73.0	82.6	104.3	70.2
Bio 9681 (C)	70.1	80.7	93.0	62.6
CMH08-287	74.9	93.7	115.7	80.1

C.D.(5%)Bi-Bj	6.2	6.1	9.2	4.6
C.V.(%)ErrorB	8.3	6.9	8.6	6.3
F(5%)	n.s.	s	s	s

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### A33

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling			
		Arabhavi	Hyderabad	Karimnagar	Vagarai
150:50:40	Seed Tech 2324 (C)	57.7	66.0	53.3	51.0
	Bio 9681 (C)	55.3	67.7	51.3	49.0
	CMH08-287	60.7	65.7	54.3	52.7
200:65:50	Seed Tech 2324 (C)	59.7	68.0	53.0	51.0
	Bio 9681 (C)	57.7	68.3	51.0	49.7
	CMH08-287	61.0	67.7	52.7	52.7
250:80:60	Seed Tech 2324 (C)	57.3	68.3	52.3	51.3
	Bio 9681 (C)	57.0	68.3	50.7	49.3
	CMH08-287	61.0	68.0	53.7	52.0

Location mean	58.6	67.6	52.5	51.0
C.D.(5%) AiBj-AiBk	3.1	0.9	1.3	1.7
C.D.(5%) AiBk-AjBk	2.8	0.8	2.0	1.6
F(5%)	n.s.	n.s.	n.s.	n.s.

150:50:40	57.9	66.4	53.0	50.9
200:65:50	59.4	68.0	52.2	51.1
250:80:60	58.4	68.2	52.2	50.9

C.D.(5%) Ai-Aj	1.2	0.3	1.7	0.7
C.V.(%) Error A	1.6	0.3	2.5	1.0
F(5%)	n.s.	s	n.s.	n.s.

Seed Tech 2324 (C)	58.2	67.4	52.9	51.1
Bio 9681 (C)	56.7	68.1	51.0	49.3
CMH08-287	60.9	67.1	53.6	52.4

C.D.(5%)Bi-Bj	1.8	0.5	0.7	1.0
C.V.(%)ErrorB	3.0	0.7	1.4	1.9
F(5%)	s	s	s	s

Cont...

## A34

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking			
		Arabhavi	Hyderabad	Kolhapur	Vagarai
150:50:40	Seed Tech 2324 (C)	59.3	68.0	60.7	54.3
	Bio 9681 (C)	59.3	69.7	58.7	50.3
	CMH08-287	60.7	67.7	64.0	54.7
200:65:50	Seed Tech 2324 (C)	60.3	69.3	59.0	55.3
	Bio 9681 (C)	59.3	70.3	58.7	51.3
	CMH08-287	61.3	69.3	62.0	54.7
250:80:60	Seed Tech 2324 (C)	59.3	69.7	59.0	54.3
	Bio 9681 (C)	58.0	69.3	57.0	50.7
	CMH08-287	61.0	70.0	62.0	54.7

Location mean	59.9	69.3	60.1	53.4
C.D.(5%) AiBj-AiBk	1.3	0.7	0.5	1.3
C.D.(5%) AiBk-AjBk	1.8	0.9	0.6	1.3
F(5%)	n.s.	s	s	n.s.

150:50:40	59.8	68.4	61.1	53.1
200:65:50	60.3	69.7	59.9	53.8
250:80:60	59.4	69.7	59.3	53.2

C.D.(5%) Ai-Aj	1.5	0.7	0.4	0.8
C.V.(%) Error A	2.0	0.7	0.6	1.1
F(5%)	n.s.	s	s	n.s.

Seed Tech 2324 (C)	59.7	69.0	59.6	54.7
Bio 9681 (C)	58.9	69.8	58.1	50.8
CMH08-287	61.0	69.0	62.7	54.7

C.D.(5%)Bi-Bj	0.7	0.4	0.3	0.8
C.V.(%)ErrorB	1.2	0.6	0.5	1.4
F(5%)	s	s	s	s

Cont...

## A35

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Shelling (%)			Moisture (%)	No. of leaves/plant
		Arabhavi	Hyderabad	Vagarai	Arabhavi	Arabhavi
150:50:40	Seed Tech 2324 (C)	82.3	71.9	83.0	25.8	12.7
	Bio 9681 (C)	81.1	79.4	84.0	19.9	13.1
	CMH08-287	79.9	73.5	84.8	26.7	13.1
200:65:50	Seed Tech 2324 (C)	79.6	73.0	84.6	25.3	12.7
	Bio 9681 (C)	81.2	78.0	81.6	21.6	11.7
	CMH08-287	79.8	76.6	83.8	27.2	12.9
250:80:60	Seed Tech 2324 (C)	82.3	76.9	83.2	24.9	12.7
	Bio 9681 (C)	80.8	79.2	83.5	22.0	12.5
	CMH08-287	78.5	82.1	87.2	25.4	12.7

Location mean	80.6	76.7	84.0	24.3	12.7
C.D.(5%) AiBj-AiBk	2.9	7.7	2.7	2.1	1.4
C.D.(5%) AiBk-AjBk	3.4	8.1	4.3	2.7	1.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	81.1	75.0	83.9	24.1	12.9
200:65:50	80.2	75.9	83.3	24.7	12.5
250:80:60	80.5	79.4	84.6	24.1	12.6

C.D.(5%) Ai-Aj	2.5	5.2	3.7	2.1	0.5
C.V.(%) Error A	2.3	5.2	3.4	6.5	2.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Seed Tech 2324 (C)	81.4	73.9	83.6	25.3	12.7
Bio 9681 (C)	81.0	78.9	83.0	21.2	12.4
CMH08-287	79.4	77.4	85.3	26.4	12.9

C.D.(5%)Bi-Bj	1.7	4.5	1.6	1.2	0.8
C.V.(%)ErrorB	2.0	5.7	1.8	4.8	6.1
F(5%)	n.s.	n.s.	s	s	n.s.

Cont...

## A36

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)			Cob girth (cm)	Cob width (cm)	
		Arabh avi	Hyderabad	Karimnagar		Arabhavi	Hyderabad
150:50:40	Seed Tech 2324 (C)	15.6	18.5	16.3	4.7	14.0	14.6
	Bio 9681 (C)	14.9	18.3	17.3	4.9	14.4	15.4
	CMH08-287	17.9	18.8	16.2	4.6	15.0	14.9
200:65:50	Seed Tech 2324 (C)	13.7	18.9	17.2	4.5	14.8	15.2
	Bio 9681 (C)	15.3	18.2	18.6	4.9	15.2	15.8
	CMH08-287	17.7	19.2	17.8	4.8	16.0	15.3
250:80:60	Seed Tech 2324 (C)	15.3	20.4	18.4	4.7	15.8	15.8
	Bio 9681 (C)	14.4	19.8	20.2	4.7	16.0	16.3
	CMH08-287	18.7	20.9	19.5	4.8	16.3	15.5

Location mean	15.9	19.2	18.0	4.7	15.3	15.4
C.D.(5%) AiBj-AiBk	2.4	1.1	2.8	0.3	1.3	1.0
C.D.(5%) AiBk-AjBk	3.7	1.3	2.4	0.3	1.2	0.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	16.1	18.5	16.6	4.7	14.5	15.0
200:65:50	15.6	18.7	17.9	4.8	15.3	15.5
250:80:60	16.1	20.4	19.4	4.7	16.0	15.8

C.D.(5%) Ai-Aj	3.1	0.9	0.9	0.3	0.6	0.5
C.V.(%) Error A	14.9	3.5	4.0	4.2	3.2	2.3
F(5%)	n.s.	s	s	n.s.	s	s

Seed Tech 2324 (C)	14.8	19.3	17.3	4.6	14.9	15.2
Bio 9681 (C)	14.9	18.8	18.7	4.8	15.2	15.8
CMH08-287	18.1	19.6	17.8	4.8	15.8	15.2

C.D.(5%)Bi-Bj	1.4	0.7	1.6	0.2	0.8	0.6
C.V.(%)ErrorB	8.5	3.3	8.6	3.3	4.8	3.5
F(5%)	s	s	n.s.	n.s.	n.s.	s

Cont...

### A37

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of grains row/cob		No. grains/kernel row		
		Hyderabad	Karimnagar	Arabhavi	Hyderabad	Karimnagar
150:50:40	Seed Tech 2324 (C)	14.4	13.4	34.0	34.1	28.1
	Bio 9681 (C)	15.1	14.1	33.2	36.9	28.9
	CMH08-287	14.9	13.7	34.3	39.4	30.4
200:65:50	Seed Tech 2324 (C)	14.2	13.7	31.5	41.9	31.6
	Bio 9681 (C)	14.8	14.5	34.5	42.5	33.8
	CMH08-287	14.3	13.9	35.9	40.5	32.1
250:80:60	Seed Tech 2324 (C)	15.0	14.5	32.9	43.5	37.4
	Bio 9681 (C)	14.8	14.7	31.0	43.1	37.3
	CMH08-287	14.3	14.3	38.1	41.7	35.2

Location mean	14.6	14.1	33.9	40.4	32.8
C.D.(5%) AiBj-AiBk	1.6	0.8	4.4	2.0	5.4
C.D.(5%) AiBk-AjBk	1.6	0.7	6.8	3.0	5.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.

150:50:40	14.8	13.7	33.8	36.8	29.1
200:65:50	14.4	14.0	34.0	41.6	32.5
250:80:60	14.7	14.5	34.0	42.8	36.6

C.D.(5%) Ai-Aj	0.9	0.2	5.8	2.5	2.6
C.V.(%) Error A	4.8	1.0	13.0	4.7	6.0
F(5%)	n.s.	s	n.s.	s	s

Seed Tech 2324 (C)	14.5	13.9	32.8	39.9	32.4
Bio 9681 (C)	14.9	14.4	32.9	40.8	33.3
CMH08-287	14.5	13.9	36.1	40.5	32.6

C.D.(5%)Bi-Bj	0.9	0.5	2.6	1.2	3.1
C.V.(%)ErrorB	6.1	3.3	7.4	2.8	9.2
F(5%)	n.s.	n.s.	s	n.s.	n.s.

Cont...



## A38

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	1000 Seed weight (g)		Single cob weight (g)	Grain weight (g)/cob
		Hyderabad	Karimnagar	Karimnagar	Karimnagar
150:50:40	Seed Tech 2324 (C)	360.7	340.0	174.7	138.7
	Bio 9681 (C)	334.7	356.7	191.0	157.3
	CMH08-287	400.0	350.0	208.3	164.7
200:65:50	Seed Tech 2324 (C)	380.7	376.7	199.3	171.0
	Bio 9681 (C)	399.3	373.3	215.0	174.7
	CMH08-287	416.0	370.0	226.7	175.3
250:80:60	Seed Tech 2324 (C)	416.0	386.7	226.3	199.3
	Bio 9681 (C)	385.0	390.0	239.0	191.7
	CMH08-287	421.3	383.3	245.7	215.3

Location mean	390.4	369.6	214.0	176.4
C.D.(5%) AiBj-AiBk	42.3	30.7	16.8	27.2
C.D.(5%) AiBk-AjBk	42.9	29.6	17.7	24.0
F(5%)	n.s.	n.s.	n.s.	n.s.

150:50:40	365.1	348.9	191.3	153.6
200:65:50	398.7	373.3	213.7	173.7
250:80:60	407.4	386.7	237.0	202.1

C.D.(5%) Ai-Aj	26.0	15.9	11.4	9.2
C.V.(%) Error A	5.1	3.3	4.1	4.0
F(5%)	s	s	s	s

Seed Tech 2324 (C)	385.8	367.8	200.1	169.7
Bio 9681 (C)	373.0	373.3	215.0	174.6
CMH08-287	412.4	367.8	226.9	185.1

C.D.(5%)Bi-Bj	24.4	17.7	9.7	15.7
C.V.(%)ErrorB	6.1	4.7	4.4	8.7
F(5%)	s	n.s.	s	n.s.

## A39

**Table 5: Relative performance of pre-release germplasm of late maturity at different NPK levels of during *Kharif* 2012 in zone V.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
150:50:40	CMH08-287	5933	4956	5733	3354	4727	3438
	JH 12157	5733	5333	4433	3046	4416	4222
	X35A176	6397	6000	7100	4818	7060	4237
	Seed Tech 2324 (C)	4889	5000	3878	2637	4902	2931
	Bio 9681 (C)	6222	5600	5233	5455	4216	3732
200:65:50	CMH08-287	6956	5756	6378	3164	5835	3652
	JH 12157	6178	6044	4589	4450	5346	4488
	X35A176	8000	7156	7844	5375	7359	4442
	Seed Tech 2324 (C)	5822	5489	4489	3052	5968	3240
	Bio 9681 (C)	6556	6422	6236	3481	4438	3932
250:80:60	CMH08-287	8622	5933	7578	2720	5926	3667
	JH 12157	6844	6356	5133	4133	5549	4434
	X35A176	9311	7667	8322	3224	7636	4433
	Seed Tech 2324 (C)	6511	5422	5089	2788	6021	3303
	Bio 9681 (C)	6778	6822	6989	3627	4258	3921

Location mean	6716.9	5997.0	5935.0	3688.3	5577.2	3871.2
C.D.(5%) AiBj-AiBk	1529.4	475.0	844.5	1143.7	602.2	354.6
C.D.(5%) AiBk-AjBk	1413.9	463.8	915.6	1284.5	625.0	431.0
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

150:50:40	5835	5378	5276	3862	5064	3712
200:65:50	6702	6173	5907	3905	5789	3950
250:80:60	7613	6440	6622	3298	5878	3951

C.D.(5%) Ai-Aj	369.5	191.8	531.4	796.7	326.1	294.6
C.V.(%) Error A	5.4	3.2	8.8	21.3	5.8	9.8
F(5%)	s	s	s	n.s.	s	n.s.

CMH08-287	7170	5548	6563	3080	5496	3585
JH 12157	6252	5911	4719	3877	5104	4381
X35A176	7903	6941	7756	4472	7352	4371
Seed Tech 2324 (C)	5741	5304	4485	2826	5630	3158
Bio 9681 (C)	6519	6281	6153	4188	4304	3861

C.D.(5%)Bi-Bj	883.0	274.3	487.6	660.3	347.7	204.7
C.V.(%)ErrorB	13.5	4.7	8.4	18.4	6.4	6.4
F(5%)	s	s	s	s	s	s

Cont...

## A40

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			Fodder yield (kg/ha)
		Ambikapur	Banswara	Jhabua	Godhra
150:50:40	CMH08-287	7289	6000	5663	4593
	JH 12157	7178	6489	5584	5481
	X35A176	7911	7289	8371	5185
	Seed Tech 2324 (C)	6089	6289	6270	3704
	Bio 9681 (C)	7733	6667	5448	5778
200:65:50	CMH08-287	8889	6733	6943	4444
	JH 12157	7422	7178	6608	4889
	X35A176	9667	8089	8689	5630
	Seed Tech 2324 (C)	7489	6533	7619	4000
	Bio 9681 (C)	7844	7622	5714	4889
250:80:60	CMH08-287	10956	7311	7020	4148
	JH 12157	8311	7778	6851	5037
	X35A176	10956	9289	8965	5333
	Seed Tech 2324 (C)	8067	6711	7747	4444
	Bio 9681 (C)	8333	8333	5603	4593

Location mean	8275.6	7220.7	6873.1	4809.9
C.D.(5%) AiBj-AiBk	1961.3	595.7	777.7	1255.8
C.D.(5%) AiBk-AjBk	1808.1	611.8	865.5	1477.2
F(5%)	n.s.	n.s.	n.s.	n.s.

150:50:40	7240	6547	6267	4948
200:65:50	8262	7231	7115	4770
250:80:60	9324	7884	7237	4711

C.D.(5%) Ai-Aj	452.5	309.3	528.3	982.4
C.V.(%) Error A	5.4	4.2	7.6	20.2
F(5%)	s	s	s	n.s.

CMH08-287	9044	6681	6542	4395
JH 12157	7637	7148	6348	5136
X35A176	9511	8222	8675	5383
Seed Tech 2324 (C)	7215	6511	7212	4049
Bio 9681 (C)	7970	7541	5588	5086

C.D.(5%)Bi-Bj	1132.3	343.9	449.0	725.0
C.V.(%)ErrorB	14.1	4.9	6.7	15.5
F(5%)	s	s	s	s

Cont...

# A41

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plants ('000/ha)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
150:50:40	CMH08-287	62.7	65.1	58.1	27.3	62.2	50.0
	JH 12157	64.0	65.1	60.4	51.9	62.9	60.7
	X35A176	64.9	66.2	62.2	44.4	64.8	60.3
	Seed Tech 2324 (C)	62.9	66.2	59.6	31.4	61.9	54.7
	Bio 9681 (C)	62.4	65.1	58.1	54.8	63.5	57.3
200:65:50	CMH08-287	64.2	66.2	58.9	25.5	62.9	50.0
	JH 12157	62.4	66.2	64.4	45.0	64.4	60.7
	X35A176	63.8	66.7	64.1	49.2	65.7	60.0
	Seed Tech 2324 (C)	63.1	66.2	61.5	37.3	62.5	54.7
	Bio 9681 (C)	61.6	65.8	60.0	47.1	63.8	57.3
250:80:60	CMH08-287	62.9	65.8	64.4	19.3	63.8	50.0
	JH 12157	63.3	66.2	65.2	49.5	64.1	60.7
	X35A176	64.0	66.7	64.4	39.4	67.6	60.0
	Seed Tech 2324 (C)	62.7	65.8	65.2	27.6	62.2	54.7
	Bio 9681 (C)	64.2	65.1	64.1	42.1	63.8	57.3

Location mean	63.3	65.9	62.0	39.4	63.7	56.6
C.D.(5%) AiBj-AiBk	2.4	2.1	4.6	12.4	2.3	2.1
C.D.(5%) AiBk-AjBk	2.8	2.2	5.2	13.5	2.7	2.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	63.4	65.6	59.7	42.0	63.0	56.6
200:65:50	63.0	66.2	61.8	40.8	63.9	56.5
250:80:60	63.4	65.9	64.7	35.6	64.3	56.5

C.D.(5%) Ai-Aj	1.9	1.2	3.2	8.0	1.8	1.5
C.V.(%) Error A	3.0	1.8	5.2	19.9	2.8	3.5
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.

CMH08-287	63.3	65.7	60.5	24.0	63.0	50.0
JH 12157	63.3	65.9	63.3	48.8	63.8	60.7
X35A176	64.2	66.5	63.6	44.3	66.0	60.1
Seed Tech 2324 (C)	62.9	66.1	62.1	32.1	62.2	54.7
Bio 9681 (C)	62.7	65.3	60.7	48.0	63.7	57.3

C.D.(5%)Bi-Bj	1.4	1.2	2.7	7.1	1.3	1.2
C.V.(%)ErrorB	2.2	1.9	4.4	18.6	2.1	2.6
F(5%)	n.s.	n.s.	n.s.	s	s	s

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## A42

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)				
		Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
150:50:40	CMH08-287	63.6	62.4	54.4	61.6	46.7
	JH 12157	62.9	62.9	58.1	65.1	52.0
	X35A176	66.4	65.1	59.6	62.5	54.0
	Seed Tech 2324 (C)	65.8	65.1	56.7	59.7	43.3
	Bio 9681 (C)	63.3	65.8	59.3	62.5	50.7
200:65:50	CMH08-287	64.7	68.9	59.6	63.5	47.0
	JH 12157	62.2	76.2	60.4	65.4	52.0
	X35A176	66.4	78.7	63.0	67.0	54.0
	Seed Tech 2324 (C)	65.8	75.6	61.5	61.6	43.3
	Bio 9681 (C)	64.0	76.7	60.4	63.5	50.7
250:80:60	CMH08-287	64.2	77.8	60.7	64.1	46.7
	JH 12157	64.2	80.4	62.6	64.4	52.0
	X35A176	66.7	90.7	64.8	69.8	54.0
	Seed Tech 2324 (C)	62.7	79.6	62.6	62.2	43.3
	Bio 9681 (C)	66.4	82.9	61.9	62.9	50.7

Location mean	64.6	73.9	60.4	63.7	49.4
C.D.(5%) AiBj-AiBk	3.2	5.5	4.2	3.8	2.7
C.D.(5%) AiBk-AjBk	3.2	6.9	4.3	3.8	3.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	64.4	64.3	57.6	62.3	49.3
200:65:50	64.6	75.2	61.0	64.2	49.4
250:80:60	64.8	82.3	62.5	64.7	49.3

C.D.(5%) Ai-Aj	1.5	4.9	2.1	1.8	2.2
C.V.(%) Error A	2.3	6.5	3.4	2.8	5.7
F(5%)	n.s.	s	s	s	n.s.

CMH08-287	64.1	69.7	58.3	63.1	46.8
JH 12157	63.1	73.2	60.4	65.0	52.0
X35A176	66.5	78.1	62.5	66.5	54.0
Seed Tech 2324 (C)	64.7	73.4	60.2	61.2	43.3
Bio 9681 (C)	64.6	75.1	60.5	63.0	50.7

C.D.(5%)Bi-Bj	1.9	3.2	2.4	2.2	1.6
C.V.(%)ErrorB	2.9	4.4	4.1	3.5	3.8
F(5%)	s	s	s	s	s

Cont...

## A43

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
150:50:40	CMH08-287	219.1	231.0	220.7	196.0	217.0	254.0
	JH 12157	227.3	207.3	186.3	183.0	181.2	236.0
	X35A176	227.3	204.3	214.7	182.3	199.9	262.0
	Seed Tech 2324 (C)	202.1	196.0	182.7	170.0	175.4	287.0
	Bio 9681 (C)	217.4	242.3	205.0	185.0	178.8	217.3
200:65:50	CMH08-287	243.2	239.3	223.7	197.0	223.8	257.0
	JH 12157	231.5	216.0	199.3	182.3	195.7	239.5
	X35A176	229.7	215.0	211.3	185.7	202.8	265.0
	Seed Tech 2324 (C)	210.1	202.0	191.7	165.0	183.1	291.0
	Bio 9681 (C)	243.3	250.0	208.3	189.3	181.0	219.5
250:80:60	CMH08-287	253.5	243.7	232.0	198.7	224.0	258.0
	JH 12157	240.1	222.0	210.7	181.7	190.8	240.0
	X35A176	249.1	221.3	219.0	191.7	215.6	266.0
	Seed Tech 2324 (C)	228.5	210.0	199.3	161.0	178.7	292.0
	Bio 9681 (C)	245.8	257.7	214.0	192.7	180.3	220.3

Location mean	231.2	223.9	207.9	184.1	195.2	253.6
C.D.(5%) AiBj-AiBk	20.4	5.7	21.3	13.4	9.0	7.1
C.D.(5%) AiBk-AjBk	25.3	5.7	33.3	14.1	9.4	7.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

150:50:40	218.6	216.2	201.9	183.3	190.5	251.3
200:65:50	231.6	224.5	206.9	183.9	197.3	254.4
250:80:60	243.4	230.9	215.0	185.1	197.9	255.3

C.D.(5%) Ai-Aj	17.9	2.7	27.7	7.7	5.0	4.0
C.V.(%) Error A	7.6	1.2	13.1	4.1	2.5	2.0
F(5%)	s	s	n.s.	n.s.	s	n.s.

CMH08-287	238.6	238.0	225.4	197.2	221.6	256.3
JH 12157	233.0	215.1	198.8	182.3	189.2	238.5
X35A176	235.3	213.6	215.0	186.6	206.1	264.3
Seed Tech 2324 (C)	213.6	202.7	191.2	165.3	179.1	290.0
Bio 9681 (C)	235.5	250.0	209.1	189.0	180.0	219.0

C.D.(5%)Bi-Bj	11.8	3.3	12.3	7.7	5.2	4.1
C.V.(%)ErrorB	5.2	1.5	6.1	4.3	2.7	2.0
F(5%)	s	s	s	s	s	s

Cont...

## A44

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Shelling (%)		Days to 50% tasseling			Days to 50% flowering
		Jhabua	Udaipur	Ambikapur	Jhabua	Udaipur	Godhra
150:50:40	CMH08-287	83.5	83.2	53.7	52.7	51.0	59.0
	JH 12157	79.0	85.2	49.7	45.7	45.0	54.0
	X35A176	84.4	85.4	53.7	50.7	52.0	55.0
	Seed Tech 2324 (C)	78.2	86.1	53.3	51.0	51.0	55.7
	Bio 9681 (C)	77.3	86.0	51.3	50.7	45.0	54.3
200:65:50	CMH08-287	84.1	84.2	53.7	52.0	52.3	58.0
	JH 12157	81.2	86.1	49.3	45.7	46.0	53.0
	X35A176	84.7	86.2	53.0	50.0	53.0	54.0
	Seed Tech 2324 (C)	78.4	85.8	53.7	50.0	52.0	55.3
	Bio 9681 (C)	77.5	87.7	51.0	45.7	46.0	54.0
250:80:60	CMH08-287	84.4	84.2	52.0	52.0	52.0	57.7
	JH 12157	81.0	86.2	49.3	45.0	46.5	52.3
	X35A176	85.2	85.9	53.0	50.0	53.0	53.7
	Seed Tech 2324 (C)	77.7	87.1	52.7	50.0	52.0	54.7
	Bio 9681 (C)	76.0	87.7	50.0	45.7	45.5	52.3

Location mean	80.8	85.8	52.0	49.1	49.5	54.9
C.D.(5%) AiBj-AiBk	2.4	3.3	1.2	1.9	3.1	0.8
C.D.(5%) AiBk-AjBk	3.0	3.8	1.3	2.1	3.3	0.8
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

150:50:40	80.5	85.2	52.3	50.1	48.8	55.6
200:65:50	81.2	86.0	52.1	48.7	49.9	54.9
250:80:60	80.9	86.2	51.4	48.5	49.8	54.1

C.D.(5%) Ai-Aj	2.1	2.5	0.8	1.4	1.8	0.4
C.V.(%) Error A	2.5	3.8	1.6	2.7	4.8	0.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

CMH08-287	84.0	83.9	53.1	52.2	51.8	58.2
JH 12157	80.4	85.8	49.4	45.4	45.8	53.1
X35A176	84.8	85.8	53.2	50.2	52.7	54.2
Seed Tech 2324 (C)	78.1	86.3	53.2	50.3	51.7	55.2
Bio 9681 (C)	77.0	87.1	50.8	47.3	45.5	53.6

C.D.(5%)Bi-Bj	1.4	1.9	0.7	1.1	1.8	0.5
C.V.(%)ErrorB	1.8	2.7	1.4	2.3	4.4	0.9
F(5%)	s	s	s	s	s	s

Cont...

## A45

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking				
		Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
150:50:40	CMH08-287	56.3	55.0	60.3	53.7	55.0
	JH 12157	52.7	54.3	59.7	49.0	50.0
	X35A176	56.7	55.0	59.3	53.0	56.0
	Seed Tech 2324 (C)	56.0	55.0	58.7	52.7	55.0
	Bio 9681 (C)	54.0	55.3	58.0	49.3	50.0
200:65:50	CMH08-287	56.7	55.0	58.0	53.7	56.0
	JH 12157	52.3	53.3	55.0	48.0	51.0
	X35A176	56.0	55.0	58.7	52.7	57.0
	Seed Tech 2324 (C)	56.7	54.3	58.3	52.3	56.0
	Bio 9681 (C)	54.0	53.0	55.3	48.7	51.0
250:80:60	CMH08-287	54.7	52.3	54.0	53.0	56.0
	JH 12157	52.0	51.3	54.3	47.7	51.0
	X35A176	55.7	52.3	58.7	52.3	57.0
	Seed Tech 2324 (C)	55.3	52.0	54.3	52.3	56.0
	Bio 9681 (C)	52.3	51.7	54.3	48.3	52.8

Location mean	54.8	53.7	57.1	51.1	54.0
C.D.(5%) AiBj-AiBk	1.2	2.3	1.5	1.0	3.3
C.D.(5%) AiBk-AjBk	1.3	2.7	1.5	1.1	3.8
F(5%)	n.s.	n.s.	s	n.s.	n.s.

150:50:40	55.1	54.9	59.2	51.5	53.2
200:65:50	55.1	54.1	57.1	51.1	54.2
250:80:60	54.0	51.9	55.1	50.7	54.6

C.D.(5%) Ai-Aj	0.8	1.8	0.7	0.6	2.4
C.V.(%) Error A	1.4	3.3	1.3	1.2	5.7
F(5%)	s	s	s	n.s.	n.s.

CMH08-287	55.9	54.1	57.4	53.4	55.7
JH 12157	52.3	53.0	56.3	48.2	50.7
X35A176	56.1	54.1	58.9	52.7	56.7
Seed Tech 2324 (C)	56.0	53.8	57.1	52.4	55.7
Bio 9681 (C)	53.4	53.3	55.9	48.8	51.3

C.D.(5%)Bi-Bj	0.7	1.3	0.9	0.6	1.9
C.V.(%)ErrorB	1.3	2.5	1.6	1.2	4.3
F(5%)	s	n.s.	s	s	s



## A46

**Table 6: Relative performance of pre-release germplasm of medium maturity at different NPK levels of during *Kharif* 2012 in zone I.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)		No. of plants ('000/ha)		Days to 50% tasseling	Days to 50% silking
		Bajaura	Kangra	Bajaura	Kangra	Kangra	Kangra
100:40:30	JH 31404	7573	3787	66.0	62.0	49.7	53.0
	BH41009	6907	5467	75.9	60.2	48.7	52.3
	BIO 151	8720	6226	72.2	61.1	51.3	54.0
	BIO-688	9153	4727	80.8	60.2	51.7	56.3
	Bisco 2668	8900	3549	82.1	60.2	54.7	57.7
	CMH08-350	7483	2607	80.2	61.1	53.7	57.3
	IMH-666	7797	4808	80.9	64.8	50.7	54.0
	B 63	7930	4655	76.6	62.0	50.3	53.7
	JKMH-7004	8203	4148	75.9	55.6	50.7	55.0
	KDMH 176	8130	4480	82.1	60.2	51.7	55.3
	NMH-1242	8383	4355	72.2	57.4	49.7	53.3
	P3396	8803	3382	82.1	57.4	54.3	57.7
	PFMH-96 I 41	7773	5014	79.0	60.2	55.0	58.0
	PFMH-96 N 46	8490	3739	82.1	57.4	51.0	55.0
	S6217	7860	2514	79.6	55.6	54.3	58.7
	S6304	8880	2309	82.1	55.6	52.7	56.7
	TITAN	8560	2483	80.9	57.4	54.3	57.7
	X35A173	7943	2096	82.1	53.7	53.0	56.3
	X35A174	8107	2456	81.5	55.6	54.3	58.3
	YUVRAJ GOLD	8680	5050	77.1	58.3	51.7	55.0
BIO 9637 (C)	7183	2323	75.9	58.3	54.7	58.0	
PMH 4 (C)	7487	2456	79.0	54.6	50.3	53.7	
150:50:40	JH 31404	10117	5006	74.7	62.0	50.3	53.7
	BH41009	8713	7259	71.6	65.7	54.3	58.3
	BIO 151	8993	6883	77.4	60.2	54.0	57.3
	BIO-688	10517	4908	80.9	59.3	54.7	58.3
	Bisco 2668	9567	4126	79.6	60.2	53.7	57.3
	CMH08-350	9647	5658	77.1	55.6	50.7	54.3
	IMH-666	8853	6058	80.2	62.0	53.7	57.0
	B 63	9683	4887	76.6	60.2	49.7	53.3
	JKMH-7004	10137	5123	79.6	56.5	49.7	53.3
	KDMH 176	9133	5281	79.6	59.3	54.3	58.3
	NMH-1242	9037	4706	75.3	55.6	49.7	53.3
	P3396	9960	3838	81.5	54.6	53.7	57.3
	PFMH-96 I 41	8877	5519	82.7	63.0	48.7	52.7
	PFMH-96 N 46	10050	4641	82.1	58.3	48.3	51.7
	S6217	9480	2606	79.6	59.3	49.3	53.0
	S6304	10007	2409	80.2	63.0	50.7	54.3
	TITAN	9777	1951	80.8	54.6	49.3	52.3
	X35A173	9437	2056	76.5	57.4	53.7	57.0
	X35A174	9370	2249	83.3	62.0	49.7	54.0
	YUVRAJ GOLD	9447	1935	78.4	61.1	47.3	51.7
BIO 9637 (C)	8693	1760	76.5	56.5	50.3	53.7	
PMH 4 (C)	8477	1833	82.1	60.2	48.3	52.0	

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# A47

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)		No. of plants ('000/ha)		Days to 50% tasseling	Days to 50% silking
		Bajaura	Kangra	Bajaura	Kangra	Kangra	Kangra
200:60:50	JH 31404	9577	3861	73.4	59.3	52.3	55.3
	BH41009	6410	5367	66.5	60.2	53.7	57.0
	BIO 151	9287	5534	73.5	62.0	54.3	58.3
	BIO-688	10770	4589	79.0	59.3	54.3	58.0
	Bisco 2668	8487	2982	73.4	62.0	52.7	56.3
	CMH08-350	9060	2321	77.8	60.2	51.7	54.7
	IMH-666	9883	4264	77.8	60.2	54.7	57.7
	B 63	9490	4361	78.4	59.3	50.0	54.0
	JKMH-7004	9907	3704	79.0	55.6	50.0	53.7
	KDMH 176	9477	4394	76.5	53.7	54.3	57.7
	NMH-1242	10290	4000	71.0	57.4	51.0	54.7
	P3396	9660	3394	74.1	56.5	54.0	58.0
	PFMH-96 I 41	9323	5502	73.5	57.4	49.0	52.3
	PFMH-96 N 46	9043	3031	74.7	53.7	48.0	52.0
	S6217	10390	2864	73.4	54.6	48.7	52.3
	S6304	9910	2465	72.8	54.6	49.7	53.3
	TITAN	10547	2297	67.3	57.4	49.3	52.3
	X35A173	10387	2290	77.2	56.5	50.7	54.0
	X35A174	9463	2611	71.0	59.3	51.3	55.0
	YUVRAJ GOLD	9840	5381	73.4	59.3	48.3	51.7
BIO 9637 (C)	10203	2369	76.6	52.8	50.3	53.7	
PMH 4 (C)	8847	2675	75.9	53.7	48.7	52.3	
Location mean		9048.0	3842.1	77.3	58.5	51.5	55.1
C.D.(5%) AiBj-AiBk		866.4	689.9	7.5	6.0	1.4	1.6
C.D.(5%) AiBk-AjBk		873.7	752.6	8.9	6.3	1.4	1.5
F(5%)		s	s	s	s	s	s
100:40:30		8134	3756	78.5	58.6	52.2	55.8
150:50:40		9453	4122	78.9	59.4	51.1	54.7
200:60:50		9557	3648	74.4	57.5	51.2	54.7
C.D.(5%) Ai-Aj		225.4	347.7	5.1	2.3	0.5	0.2
C.V.(%) Error A		5.2	18.7	13.8	8.2	2.0	0.8
F(5%)		s	s	n.s.	n.s.	s	s
JH 31404		9089	4218	71.4	61.1	50.8	54.0
BH41009		7343	6031	71.3	62.0	52.2	55.9
BIO 151		9000	6215	74.4	61.1	53.2	56.6
BIO-688		10147	4741	80.2	59.6	53.6	57.6
Bisco 2668		8984	3552	78.4	60.8	53.7	57.1
CMH08-350		8730	3529	78.4	59.0	52.0	55.4
IMH-666		8844	5044	79.6	62.3	53.0	56.2
B 63		9034	4634	77.2	60.5	50.0	53.7
JKMH-7004		9416	4325	78.2	55.9	50.1	54.0
KDMH 176		8913	4718	79.4	57.7	53.4	57.1
NMH-1242		9237	4353	72.8	56.8	50.1	53.8
P3396		9474	3538	79.2	56.2	54.0	57.7
PFMH-96 I 41		8658	5345	78.4	60.2	50.9	54.3
PFMH-96 N 46		9194	3803	79.6	56.5	49.1	52.9
S6217		9243	2661	77.6	56.5	50.8	54.7
S6304		9599	2394	78.4	57.7	51.0	54.8
TITAN		9628	2244	76.3	56.5	51.0	54.1
X35A173		9256	2147	78.6	55.9	52.4	55.8
X35A174		8980	2439	78.6	59.0	51.8	55.8
YUVRAJ GOLD		9322	4122	76.3	59.6	49.1	52.8
BIO 9637 (C)		8693	2151	76.3	55.9	51.8	55.1
PMH 4 (C)		8270	2321	79.0	56.2	49.1	52.7
C.D.(5%)Bi-Bj		500.2	398.3	4.3	3.5	0.8	0.9
C.V.(%)ErrorB		5.9	11.1	6.0	6.4	1.6	1.7
F(5%)		s	s	s	s	s	s

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## A48

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)		Plant height (cm)		Ear height (cm)
		Bajaura	Kangra	Bajaura	Kangra	Kangra
100:40:30	JH 31404	65.9	54.6	257.0	234.0	118.0
	BH41009	71.2	57.4	240.5	204.7	101.3
	BIO 151	69.8	51.9	231.2	213.7	105.0
	BIO-688	79.0	55.6	245.7	227.7	95.7
	Bisco 2668	77.0	50.9	236.8	241.0	109.7
	CMH08-350	75.9	39.8	253.1	221.7	120.3
	IMH-666	77.8	54.6	243.0	222.0	119.3
	B 63	71.6	50.9	234.3	226.7	117.7
	JKMH-7004	71.6	50.0	230.3	238.0	106.7
	KDMH 176	75.9	54.6	233.9	217.0	112.3
	NMH-1242	66.8	49.1	161.3	224.0	103.0
	P3396	79.6	49.1	249.1	215.0	97.3
	PFMH-96 I 41	76.5	56.5	225.1	224.0	96.7
	PFMH-96 N 46	81.5	42.6	223.7	194.7	94.3
	S6217	75.9	36.1	235.1	174.7	108.3
	S6304	75.9	55.6	217.2	166.3	76.7
	TITAN	72.9	48.1	217.4	139.7	68.0
	X35A173	78.4	49.1	265.1	200.3	100.3
	X35A174	77.2	55.6	234.0	190.0	93.7
	YUVRAJ GOLD	74.1	56.5	232.9	138.7	72.0
BIO 9637 (C)	72.2	50.9	238.4	146.3	76.3	
PMH 4 (C)	76.6	52.8	222.4	209.3	91.0	
150:50:40	JH 31404	68.3	58.3	243.9	211.0	102.3
	BH41009	66.1	52.8	957.1	201.3	99.7
	BIO 151	71.4	59.3	224.5	207.7	88.3
	BIO-688	75.3	58.3	242.9	201.7	89.7
	Bisco 2668	71.6	57.4	238.0	214.0	85.3
	CMH08-350	74.1	58.3	266.0	168.0	73.7
	IMH-666	74.1	59.3	253.2	197.7	109.0
	B 63	71.6	52.8	229.1	197.0	102.3
	JKMH-7004	74.7	50.9	230.4	195.7	93.7
	KDMH 176	75.9	59.3	238.0	201.3	94.3
	NMH-1242	71.6	52.8	215.8	223.0	96.3
	P3396	76.5	50.0	241.9	204.3	89.3
	PFMH-96 I 41	77.1	52.8	229.9	195.0	91.3
	PFMH-96 N 46	75.4	55.6	237.6	202.3	90.0
	S6217	77.1	51.9	250.9	193.3	102.7
	S6304	73.5	46.3	230.1	197.7	96.0
	TITAN	74.1	49.1	241.5	174.7	89.7
	X35A173	70.4	48.1	260.1	173.0	80.7
	X35A174	79.0	50.0	251.9	192.3	84.7
	YUVRAJ GOLD	71.0	53.7	237.0	167.0	92.7
BIO 9637 (C)	71.0	54.6	255.3	184.0	86.7	
PMH 4 (C)	77.8	50.9	238.7	172.0	86.7	

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**A49**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)		Plant height (cm)		Ear height (cm)
		Bajaura	Kangra	Bajaura	Kangra	Kangra
200:60:50	JH 31404	79.0	52.8	244.2	205.3	86.0
	BH41009	59.9	54.6	235.0	213.0	88.0
	BIO 151	74.1	57.4	223.9	185.3	90.3
	BIO-688	76.5	46.3	242.8	202.7	93.7
	Bisco 2668	71.7	53.7	230.1	182.3	80.3
	CMH08-350	74.1	48.1	270.0	185.7	86.3
	IMH-666	75.3	52.8	236.7	185.7	83.3
	B 63	76.5	52.8	222.6	206.0	92.0
	JKMH-7004	76.6	50.9	217.4	216.7	98.0
	KDMH 176	73.5	49.1	230.1	207.3	100.0
	NMH-1242	70.4	51.9	239.0	198.0	99.0
	P3396	74.7	50.9	243.2	188.3	97.0
	PFMH-96 I 41	72.5	51.9	221.0	246.7	98.0
	PFMH-96 N 46	73.4	46.3	235.4	209.0	91.0
	S6217	74.1	46.3	241.0	173.7	101.0
	S6304	71.6	50.9	240.7	214.0	110.3
	TITAN	65.4	51.9	183.4	196.3	114.0
	X35A173	79.0	51.9	285.8	201.3	104.0
	X35A174	67.9	52.8	232.7	209.0	99.7
	YUVRAJ GOLD	70.1	52.8	227.0	197.3	105.7
BIO 9637 (C)	74.0	47.2	245.0	196.3	90.3	
PMH 4 (C)	74.1	49.1	239.0	185.7	89.3	
Location mean		73.7	51.9	247.4	199.2	95.5
C.D.(5%) AiBj-AiBk		4.9	6.5	251.3	17.8	11.1
C.D.(5%) AiBk-AjBk		4.9	6.5	256.2	18.2	11.7
F(5%)		s	s	s	s	s
100:40:30		74.7	51.0	233.1	203.2	99.3
150:50:40		73.5	53.7	273.4	194.3	92.0
200:60:50		72.9	51.0	235.7	200.3	95.3
C.D.(5%) Ai-Aj		1.0	1.4	76.3	5.9	4.6
C.V.(%) Error A		2.9	5.4	63.8	6.1	9.9
F(5%)		s	s	n.s.	s	s
JH 31404		71.1	55.2	248.4	216.8	102.1
BH41009		65.7	54.9	477.5	206.3	96.3
BIO 151		71.8	56.2	226.5	202.2	94.6
BIO-688		77.0	53.4	243.8	210.7	93.0
Bisco 2668		73.4	54.0	235.0	212.4	91.8
CMH08-350		74.7	48.8	263.0	191.8	93.4
IMH-666		75.7	55.6	244.3	201.8	103.9
B 63		73.2	52.2	228.7	209.9	104.0
JKMH-7004		74.3	50.6	226.0	216.8	99.4
KDMH 176		75.1	54.3	234.0	208.6	102.2
NMH-1242		69.6	51.2	205.4	215.0	99.4
P3396		76.9	50.0	244.7	202.6	94.6
PFMH-96 I 41		75.4	53.7	225.3	221.9	95.3
PFMH-96 N 46		76.8	48.1	232.3	202.0	91.8
S6217		75.7	44.8	242.3	180.6	104.0
S6304		73.7	50.9	229.4	192.7	94.3
TITAN		70.8	49.7	214.1	170.2	90.6
X35A173		75.9	49.7	270.3	191.6	95.0
X35A174		74.7	52.8	239.5	197.1	92.7
YUVRAJ GOLD		71.7	54.3	232.3	167.7	90.1
BIO 9637 (C)		72.4	50.9	246.3	175.6	84.4
PMH 4 (C)		76.1	50.9	233.4	189.0	89.0
C.D.(5%)Bi-Bj		2.9	3.8	145.1	10.2	6.4
C.V.(%)ErrorB		4.1	7.8	62.9	5.5	7.2
F(5%)		s	s	s	s	s

## A50

**Table 7: Relative performance of pre-release germplasm of medium maturity at different NPK levels of during *Kharif* 2012 in zone II.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)				
		Delhi	Kanpur	Karnal	Ludhiana	Pantnagar
100:40:30	B 63	4889	4528	4367	8844	4447
	BIO 151	4262	4611	4207	9326	5703
	BIO-688	7496	4722	3911	9344	4725
	Bisco 2668	6686	4583	4770	8528	4550
	CMH08-292	8084	4528	3952	8010	4677
	CMH08-350	7447	4528	3887	8299	6365
	P3396	7432	4556	4220	8611	5550
	S6217	7393	4694	4037	9260	2913
	S6304	6706	4444	4587	8385	6047
	X35A174	5758	4556	4735	7781	4611
	YUVRAJ GOLD	7042	4389	4647	8726	4581
	BIO 9637 (C)	6089	4667	4556	7826	5150
PMH 4 (C)	5096	4583	4053	6691	5455	
150:50:40	B 63	6953	4806	3735	8729	4898
	BIO 151	7985	4778	3669	9944	6025
	BIO-688	8084	4778	4692	9701	5157
	Bisco 2668	5111	4861	4583	9389	5254
	CMH08-292	7442	4861	4382	10104	4856
	CMH08-350	7600	4889	4681	9313	7034
	P3396	7393	5000	4044	9337	5946
	S6217	6756	4639	4082	10031	4681
	S6304	7388	4833	4276	9840	5781
	X35A174	7086	4667	4675	7316	4817
	YUVRAJ GOLD	7086	4889	4293	8031	4957
	BIO 9637 (C)	5891	4667	4095	8368	5143
PMH 4 (C)	5240	4639	4230	7927	4915	
200:60:50	B 63	6598	5222	4465	8285	5482
	BIO 151	8430	5250	3853	8417	5986
	BIO-688	8840	5389	3806	10253	5457
	Bisco 2668	8000	5056	4948	9788	5321
	CMH08-292	8326	4889	3646	8222	5297
	CMH08-350	7916	5250	3810	9128	8060
	P3396	7881	5222	3848	9656	5691
	S6217	8519	5222	4379	10625	5347
	S6304	6780	5222	4239	10292	5590
	X35A174	7126	5278	4066	8969	4830
	YUVRAJ GOLD	6943	5222	3826	8656	5509
	BIO 9637 (C)	5970	5250	4436	8701	4842
PMH 4 (C)	5620	5278	4111	8458	5314	

Cont...

## A51

	Grain yield (kg/ha)				
	Delhi	Kanpur	Karnal	Ludhiana	Pantnagar
Location mean	6957.5	4857.5	4225.6	8900.4	5306.8
C.D.(5%) AiBj-AiBk	1856.5	294.4	579.2	475.4	1225.0
C.D.(5%) AiBk-AjBk	1934.4	297.2	635.5	732.5	1315.6
F(5%)	n.s.	n.s.	s	s	n.s.
100:40:30	6491	4568	4302	8433	4983
150:50:40	6924	4793	4264	9079	5343
200:60:50	7458	5212	4110	9189	5594
C.D.(5%) Ai-Aj	777.2	95.0	317.8	585.3	609.5
C.V.(%) Error A	17.8	3.1	12.0	10.5	18.3
F(5%)	n.s.	s	n.s.	s	n.s.
B 63	6147	4852	4189	8619	4942
BIO 151	6892	4880	3909	9229	5905
BIO-688	8140	4963	4136	9766	5113
Bisco 2668	6599	4833	4767	9235	5042
CMH08-292	7951	4759	3993	8779	4943
CMH08-350	7654	4889	4126	8913	7153
P3396	7569	4926	4037	9201	5729
S6217	7556	4852	4166	9972	4314
S6304	6958	4833	4367	9506	5806
X35A174	6657	4833	4492	8022	4753
YUVRAJ GOLD	7024	4833	4255	8471	5016
BIO 9637 (C)	5984	4861	4362	8299	5045
PMH 4 (C)	5319	4833	4131	7692	5228
C.D.(5%)Bi-Bj	1071.8	170.0	334.4	274.5	707.3
C.V.(%)ErrorB	16.4	3.7	8.4	3.3	14.2
F(5%)	s	n.s.	s	s	s

Cont...

## A52

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			
		Delhi	Kanpur	Karnal	Pantnagar
100:40:30	B 63	5630	5917	5375	5641
	BIO 151	5062	6000	5439	7222
	BIO-688	8617	6056	5070	6068
	Bisco 2668	7615	6028	5781	5726
	CMH08-292	9457	6028	5018	5812
	CMH08-350	8652	6000	4788	7906
	P3396	8543	5944	5133	7179
	S6217	8691	5972	5233	3846
	S6304	7901	6000	5570	7778
	X35A174	6840	5944	6007	5812
	YUVRAJ GOLD	8173	6028	6009	5812
	BIO 9637 (C)	7111	6000	5923	6496
	PMH 4 (C)	6025	5972	5152	6795
150:50:40	B 63	7951	6111	4596	6197
	BIO 151	10691	5972	4744	7479
	BIO-688	9235	5944	6083	6538
	Bisco 2668	5975	6083	5556	6624
	CMH08-292	8667	6028	5565	6368
	CMH08-350	8938	6139	5766	8932
	P3396	8568	6194	4918	7564
	S6217	7975	6000	5291	5897
	S6304	8025	6028	5192	7308
	X35A174	8148	6083	5931	6026
	YUVRAJ GOLD	8148	6167	5551	6325
	BIO 9637 (C)	6889	6278	5323	6581
	PMH 4 (C)	6173	6222	5377	6282
200:60:50	B 63	7506	6444	5495	6966
	BIO 151	9802	6333	4982	7650
	BIO-688	10222	6278	4934	7051
	Bisco 2668	9333	6306	5998	6709
	CMH08-292	9704	6361	4630	6752
	CMH08-350	9309	6389	4694	10085
	P3396	9136	6306	4679	7308
	S6217	9975	6278	5677	6795
	S6304	7951	6167	5147	7222
	X35A174	8222	6306	5159	6026
	YUVRAJ GOLD	8025	6278	4948	7051
	BIO 9637 (C)	6963	6361	5767	6154
	PMH 4 (C)	6519	6361	5226	6709

Cont...

## A53

	Cob yield (kg/ha)			
	Delhi	Kanpur	Karnal	Pantnagar
Location mean	8111.9	6136.0	5326.3	6735.7
C.D.(5%) AiBj-AiBk	2003.4	170.0	730.0	1551.0
C.D.(5%) AiBk-AjBk	2119.8	173.7	799.9	1638.3
F(5%)	s	n.s.	s	n.s.

100:40:30	7563	5991	5423	6315
150:50:40	8106	6096	5376	6778
200:60:50	8667	6321	5180	7114

C.D.(5%) Ai-Aj	921.2	61.5	398.4	706.3
C.V.(%) Error A	18.1	1.6	11.9	16.7
F(5%)	n.s.	s	n.s.	n.s.

B 63	7029	6157	5155	6268
BIO 151	8519	6102	5055	7450
BIO-688	9358	6093	5362	6553
Bisco 2668	7641	6139	5778	6353
CMH08-292	9276	6139	5071	6311
CMH08-350	8966	6176	5083	8974
P3396	8749	6148	4910	7350
S6217	8881	6083	5400	5513
S6304	7959	6065	5303	7436
X35A174	7737	6111	5699	5954
YUVRAJ GOLD	8115	6157	5503	6396
BIO 9637 (C)	6988	6213	5671	6410
PMH 4 (C)	6239	6185	5252	6595

C.D.(5%)Bi-Bj	1156.7	98.1	421.5	895.5
C.V.(%)ErrorB	15.2	1.7	8.4	14.1
F(5%)	s	n.s.	s	s

Cont...



## A54

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plants ('000/ha)			
		Delhi	Kanpur	Ludhiana	Pantnagar
100:40:30	B 63	67.2	61.9	62.5	58.1
	BIO 151	65.7	60.0	64.2	60.7
	BIO-688	64.2	62.2	63.5	57.3
	Bisco 2668	64.2	64.4	64.6	61.5
	CMH08-292	61.2	65.3	62.5	64.1
	CMH08-350	65.7	64.2	61.5	59.8
	P3396	63.7	64.7	60.8	65.0
	S6217	63.7	63.3	63.5	64.1
	S6304	63.7	60.3	60.8	62.4
	X35A174	60.7	64.7	59.7	64.1
	YUVRAJ GOLD	59.8	61.9	61.5	63.2
	BIO 9637 (C)	62.2	59.7	62.5	60.7
	PMH 4 (C)	61.2	61.1	63.5	62.4
150:50:40	B 63	56.3	63.9	65.3	59.8
	BIO 151	64.2	65.0	61.5	60.7
	BIO-688	59.3	64.7	63.5	59.8
	Bisco 2668	56.3	64.2	61.8	62.4
	CMH08-292	63.2	64.7	61.5	60.7
	CMH08-350	63.2	65.0	61.5	65.0
	P3396	57.3	62.5	62.2	61.5
	S6217	59.8	63.6	62.5	60.7
	S6304	63.7	62.8	61.1	59.8
	X35A174	64.7	63.1	61.5	61.5
	YUVRAJ GOLD	61.2	65.0	61.8	64.1
	BIO 9637 (C)	58.8	62.5	61.5	62.4
	PMH 4 (C)	53.3	66.1	62.8	60.7
200:60:50	B 63	61.2	69.7	63.5	62.4
	BIO 151	62.2	65.8	61.5	57.3
	BIO-688	64.2	65.8	64.2	61.5
	Bisco 2668	60.2	62.5	62.5	60.7
	CMH08-292	62.2	61.7	57.3	62.4
	CMH08-350	63.7	63.9	60.1	62.4
	P3396	64.2	63.9	59.0	60.7
	S6217	61.7	61.9	63.2	62.4
	S6304	61.7	64.2	63.9	61.5
	X35A174	62.2	64.7	61.1	60.7
	YUVRAJ GOLD	63.2	61.9	61.1	65.8
	BIO 9637 (C)	58.3	63.3	62.5	62.4
	PMH 4 (C)	63.2	64.4	63.9	60.7

Cont...

## A55

	No. of plants ('000/ha)			
	Delhi	Kanpur	Ludhiana	Pantnagar
Location mean	61.9	63.6	62.1	61.6
C.D.(5%) AiBj-AiBk	6.7	2.5	2.9	6.4
C.D.(5%) AiBk-AjBk	8.6	2.8	3.2	6.3
F(5%)	n.s.	s	n.s.	n.s.

100:40:30	63.3	62.6	62.4	61.8
150:50:40	60.1	64.1	62.2	61.5
200:60:50	62.2	64.1	61.8	61.6

C.D.(5%) Ai-Aj	5.8	1.4	1.5	1.5
C.V.(%) Error A	15.0	3.6	3.8	3.8
F(5%)	n.s.	n.s.	n.s.	n.s.

B 63	61.6	65.2	63.8	60.1
BIO 151	64.0	63.6	62.4	59.5
BIO-688	62.6	64.3	63.8	59.5
Bisco 2668	60.2	63.7	63.0	61.5
CMH08-292	62.2	63.9	60.4	62.4
CMH08-350	64.2	64.4	61.0	62.4
P3396	61.7	63.7	60.6	62.4
S6217	61.7	63.0	63.1	62.4
S6304	63.0	62.4	61.9	61.3
X35A174	62.6	64.2	60.8	62.1
YUVRAJ GOLD	61.4	63.0	61.5	64.4
BIO 9637 (C)	59.8	61.9	62.2	61.8
PMH 4 (C)	59.3	63.9	63.4	61.3

C.D.(5%)Bi-Bj	3.9	1.4	1.7	3.7
C.V.(%)ErrorB	6.6	2.4	2.9	6.3
F(5%)	n.s.	s	s	n.s.

Cont...

## A56

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			No. of grains/row	Moisture (%)	100 grain weight (g)
		Delhi	Ludhiana	Pantnagar	Delhi	Delhi	Delhi
100:40:30	B 63	68.1	60.8	56.4	31.3	14.6	27.4
	BIO 151	65.7	67.0	61.5	30.3	15.3	21.1
	BIO-688	64.2	61.8	56.4	33.7	16.6	28.0
	Bisco 2668	64.2	62.2	59.8	31.7	15.5	29.4
	CMH08-292	62.2	58.7	65.8	29.8	15.0	32.7
	CMH08-350	66.7	61.8	61.5	30.5	14.7	31.3
	P3396	64.2	61.8	64.1	32.7	14.1	28.0
	S6217	63.7	64.2	63.2	33.1	14.6	27.4
	S6304	64.2	63.5	63.2	35.2	14.2	30.4
	X35A174	60.7	53.1	64.1	33.2	15.7	24.2
	YUVRAJ GOLD	59.8	54.2	60.7	29.6	15.1	30.4
	BIO 9637 (C)	62.2	59.4	60.7	27.0	15.0	32.4
	PMH 4 (C)	61.2	59.7	63.2	26.1	14.9	29.0
150:50:40	B 63	58.3	65.6	61.5	34.0	15.3	31.8
	BIO 151	65.2	56.3	62.4	37.1	16.3	28.1
	BIO-688	59.3	63.5	60.7	34.7	15.6	29.7
	Bisco 2668	56.3	58.7	62.4	31.7	15.6	28.4
	CMH08-292	63.2	51.7	62.4	30.4	14.4	31.5
	CMH08-350	63.7	53.5	65.8	30.1	14.7	30.9
	P3396	57.8	54.9	63.2	33.9	14.8	28.9
	S6217	59.8	58.3	55.6	34.5	14.9	27.3
	S6304	64.2	54.5	61.5	32.3	15.3	28.2
	X35A174	64.7	51.7	59.8	32.2	14.8	28.2
	YUVRAJ GOLD	61.7	55.9	65.8	32.6	14.1	34.4
	BIO 9637 (C)	58.8	56.6	61.5	29.6	14.2	32.3
	PMH 4 (C)	53.3	56.6	62.4	27.3	14.4	28.6
200:60:50	B 63	62.2	60.4	63.2	32.7	14.5	31.6
	BIO 151	62.7	54.2	60.7	37.6	15.0	28.7
	BIO-688	64.2	63.2	59.8	34.7	15.4	30.0
	Bisco 2668	60.2	59.4	64.1	32.3	15.7	29.8
	CMH08-292	62.2	49.0	61.5	30.2	14.5	32.9
	CMH08-350	63.7	53.5	66.7	32.1	15.1	31.6
	P3396	64.7	51.4	60.7	33.1	15.1	30.2
	S6217	64.2	62.8	60.7	35.1	14.8	29.8
	S6304	61.7	65.3	60.7	34.7	14.9	27.6
	X35A174	62.7	59.7	62.4	29.8	14.6	29.2
	YUVRAJ GOLD	63.2	55.2	67.5	33.4	14.3	32.7
	BIO 9637 (C)	58.8	57.6	63.2	30.2	14.5	31.1
	PMH 4 (C)	63.2	58.7	64.1	28.2	14.1	28.4

Cont...

## A57

	No. of cobs ('000/ha)			No. of grains/row	Moisture (%)	100 grain weight (g)
	Delhi	Ludhiana	Pantnagar			
Location mean	62.2	58.4	62.1	32.0	14.9	29.6
C.D.(5%) AiBj-AiBk	6.5	3.9	8.9	3.5	1.0	3.9
C.D.(5%) AiBk-AjBk	8.2	5.5	8.8	3.9	1.1	4.0
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

100:40:30	63.6	60.6	61.6	31.1	15.0	28.6
150:50:40	60.5	56.8	61.9	32.3	15.0	29.9
200:60:50	62.6	57.7	62.7	32.6	14.8	30.3

C.D.(5%) Ai-Aj	5.4	4.1	2.2	2.1	0.6	1.4
C.V.(%) Error A	13.8	11.2	5.7	10.6	6.5	7.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

B 63	62.9	62.3	60.4	32.7	14.8	30.3
BIO 151	64.5	59.1	61.5	35.0	15.5	26.0
BIO-688	62.6	62.8	59.0	34.4	15.9	29.3
Bisco 2668	60.2	60.1	62.1	31.9	15.6	29.2
CMH08-292	62.6	53.1	63.2	30.1	14.7	32.4
CMH08-350	64.7	56.3	64.7	30.9	14.8	31.3
P3396	62.2	56.0	62.7	33.2	14.7	29.1
S6217	62.6	61.8	59.8	34.2	14.8	28.2
S6304	63.4	61.1	61.8	34.1	14.8	28.7
X35A174	62.7	54.9	62.1	31.7	15.0	27.2
YUVRAJ GOLD	61.6	55.1	64.7	31.9	14.5	32.5
BIO 9637 (C)	59.9	57.9	61.8	28.9	14.5	31.9
PMH 4 (C)	59.3	58.3	63.2	27.2	14.4	28.7

C.D.(5%)Bi-Bj	3.8	2.2	5.1	2.0	0.6	2.2
C.V.(%)ErrorB	6.5	4.1	8.8	6.7	4.1	8.0
F(5%)	n.s.	s	n.s.	s	s	s

Cont...

## A58

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				
		Delhi	Kanpur	Karnal	Ludhiana	Pantnagar
100:40:30	B 63	167.1	166.0	193.3	213.0	151.7
	BIO 151	156.3	167.0	188.3	206.7	155.7
	BIO-688	179.9	163.3	196.7	235.3	173.0
	Bisco 2668	167.9	166.7	171.7	206.7	200.7
	CMH08-292	209.6	168.3	216.7	242.3	164.0
	CMH08-350	206.5	163.0	211.7	240.0	174.7
	P3396	186.3	166.7	206.7	225.0	174.7
	S6217	180.3	167.7	191.7	219.7	162.0
	S6304	176.9	168.0	185.0	229.7	169.7
	X35A174	180.4	168.0	205.0	216.3	172.7
	YUVRAJ GOLD	166.7	166.7	201.7	249.0	164.0
	BIO 9637 (C)	201.2	167.3	216.7	225.0	153.3
	PMH 4 (C)	180.0	166.0	208.3	217.3	169.3
150:50:40	B 63	182.3	171.7	195.0	227.7	165.0
	BIO 151	168.3	174.0	190.0	241.3	184.0
	BIO-688	181.9	172.3	200.0	238.0	165.3
	Bisco 2668	168.3	171.0	185.0	220.0	179.7
	CMH08-292	213.4	173.3	220.0	241.7	164.3
	CMH08-350	211.8	170.0	225.0	245.0	169.3
	P3396	193.1	169.3	206.7	230.3	181.7
	S6217	184.5	170.3	200.0	235.7	185.0
	S6304	167.4	171.3	193.3	214.7	160.0
	X35A174	186.0	172.0	223.3	223.3	169.0
	YUVRAJ GOLD	173.0	169.7	216.7	220.3	159.0
	BIO 9637 (C)	201.9	171.0	218.3	242.3	174.3
	PMH 4 (C)	180.1	172.7	208.3	216.3	161.0
200:60:50	B 63	185.9	178.0	200.0	234.7	163.3
	BIO 151	168.9	179.0	191.7	269.7	172.3
	BIO-688	191.5	180.0	206.7	234.0	176.0
	Bisco 2668	177.3	179.7	201.7	237.0	164.3
	CMH08-292	216.5	179.7	240.0	251.7	179.7
	CMH08-350	215.9	177.0	215.0	239.7	176.3
	P3396	192.4	180.0	215.0	237.7	185.3
	S6217	182.8	180.7	205.0	223.3	154.0
	S6304	178.9	178.0	185.0	251.7	188.3
	X35A174	182.2	181.0	228.3	218.7	178.3
	YUVRAJ GOLD	159.3	179.7	203.3	238.3	160.0
	BIO 9637 (C)	197.0	179.3	215.0	247.0	158.0
	PMH 4 (C)	177.1	178.0	223.3	255.0	177.7

Cont...

## A59

	Plant height (cm)				
	Delhi	Kanpur	Karnal	Ludhiana	Pantnagar
Location mean	184.5	172.4	205.3	232.3	170.2
C.D.(5%) AiBj-AiBk	12.7	2.3	20.6	24.2	18.9
C.D.(5%) AiBk-AjBk	17.5	2.4	23.4	27.1	18.9
F(5%)	n.s.	s	n.s.	s	s

100:40:30	181.5	166.5	199.5	225.1	168.1
150:50:40	185.5	171.4	206.3	230.5	170.6
200:60:50	186.6	179.2	210.0	241.4	171.8

C.D.(5%) Ai-Aj	12.8	0.9	12.9	14.4	5.3
C.V.(%) Error A	11.1	0.9	10.0	9.9	5.0
F(5%)	n.s.	s	n.s.	n.s.	n.s.

B 63	178.4	171.9	196.1	225.1	160.0
BIO 151	164.5	173.3	190.0	239.2	170.7
BIO-688	184.5	171.9	201.1	235.8	171.4
Bisco 2668	171.2	172.4	186.1	221.2	181.6
CMH08-292	213.2	173.8	225.6	245.2	169.3
CMH08-350	211.4	170.0	217.2	241.6	173.4
P3396	190.6	172.0	209.4	231.0	180.6
S6217	182.6	172.9	198.9	226.2	167.0
S6304	174.4	172.4	187.8	232.0	172.7
X35A174	182.9	173.7	218.9	219.4	173.3
YUVRAJ GOLD	166.3	172.0	207.2	235.9	161.0
BIO 9637 (C)	200.0	172.6	216.7	238.1	161.9
PMH 4 (C)	179.1	172.2	213.3	229.6	169.3

C.D.(5%)Bi-Bj	7.3	1.3	11.9	14.0	10.9
C.V.(%)ErrorB	4.2	0.8	6.2	6.4	6.8
F(5%)	s	s	s	s	s

Cont...

## A60

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)		Days to 50% tasseling		
		Karnal	Ludhiana	Karnal	Ludhiana	Pantnagar
100:40:30	B 63	115.0	118.0	53.0	49.7	54.3
	BIO 151	100.0	119.0	53.3	51.7	54.0
	BIO-688	85.0	114.7	53.7	49.3	52.7
	Bisco 2668	90.0	121.7	54.0	49.7	53.7
	CMH08-292	120.0	143.0	54.0	50.7	53.0
	CMH08-350	111.7	147.3	52.0	48.3	51.7
	P3396	101.7	124.7	53.7	51.3	54.0
	S6217	108.3	129.0	54.7	52.0	55.7
	S6304	93.3	117.7	52.3	51.7	53.0
	X35A174	100.0	125.3	54.3	49.3	53.3
	YUVRAJ GOLD	98.3	121.7	53.7	46.7	52.7
	BIO 9637 (C)	118.3	125.0	53.7	47.0	52.3
	PMH 4 (C)	93.3	122.7	54.3	46.3	51.3
150:50:40	B 63	116.7	131.0	51.3	49.0	54.3
	BIO 151	90.0	119.7	56.0	50.3	53.3
	BIO-688	95.0	122.3	54.3	49.7	53.0
	Bisco 2668	106.7	117.0	56.3	49.3	53.0
	CMH08-292	120.0	139.0	55.0	48.7	51.3
	CMH08-350	120.0	141.7	54.7	49.0	54.0
	P3396	110.0	125.0	54.0	48.7	53.7
	S6217	111.7	130.0	54.0	51.7	54.3
	S6304	93.3	123.7	55.0	49.0	53.3
	X35A174	111.7	123.0	54.0	51.0	53.0
	YUVRAJ GOLD	105.0	120.7	55.0	45.7	51.3
	BIO 9637 (C)	116.7	143.7	54.0	46.3	52.0
	PMH 4 (C)	98.3	109.3	56.7	46.7	50.7
200:60:50	B 63	120.0	127.3	54.7	49.7	54.0
	BIO 151	105.0	123.3	54.7	51.7	54.0
	BIO-688	91.7	113.0	54.7	50.7	53.3
	Bisco 2668	110.0	134.0	53.3	49.7	53.7
	CMH08-292	131.7	155.3	54.3	47.7	52.7
	CMH08-350	115.0	148.0	53.3	49.3	53.7
	P3396	110.0	128.0	54.3	49.7	55.3
	S6217	106.7	125.7	55.0	50.3	55.0
	S6304	83.3	111.0	54.3	48.7	53.7
	X35A174	120.0	124.0	53.0	48.7	54.0
	YUVRAJ GOLD	93.3	121.3	54.3	46.7	52.0
	BIO 9637 (C)	110.0	138.3	54.0	46.7	53.3
	PMH 4 (C)	106.7	124.0	53.3	46.3	51.0

Cont...

## A61

	Ear height (cm)		Days to 50% tasseling		
	Karnal	Ludhiana	Karnal	Ludhiana	Pantnagar
Location mean	106.0	126.9	54.1	49.1	53.2
C.D.(5%) AiBj-AiBk	12.7	18.5	1.8	2.3	1.9
C.D.(5%) AiBk-AjBk	15.1	20.1	2.0	2.5	2.3
F(5%)	s	n.s.	s	n.s.	n.s.

100:40:30	102.7	125.4	53.6	49.5	53.2
150:50:40	107.3	126.6	54.6	48.8	52.9
200:60:50	107.9	128.7	54.1	48.9	53.5

C.D.(5%) Ai-Aj	9.2	9.6	1.0	1.3	1.4
C.V.(%) Error A	13.8	12.0	2.9	4.3	4.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

B 63	117.2	125.4	53.0	49.4	54.2
BIO 151	98.3	120.7	54.7	51.2	53.8
BIO-688	90.6	116.7	54.2	49.9	53.0
Bisco 2668	102.2	124.2	54.6	49.6	53.4
CMH08-292	123.9	145.8	54.4	49.0	52.3
CMH08-350	115.6	145.7	53.3	48.9	53.1
P3396	107.2	125.9	54.0	49.9	54.3
S6217	108.9	128.2	54.6	51.3	55.0
S6304	90.0	117.4	53.9	49.8	53.3
X35A174	110.6	124.1	53.8	49.7	53.4
YUVRAJ GOLD	98.9	121.2	54.3	46.3	52.0
BIO 9637 (C)	115.0	135.7	53.9	46.7	52.6
PMH 4 (C)	99.4	118.7	54.8	46.4	51.0

C.D.(5%)Bi-Bj	7.3	10.7	1.0	1.3	1.1
C.V.(%)ErrorB	7.4	9.0	2.1	2.8	2.2
F(5%)	s	s	s	s	s

Cont...



## A62

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% Silking				Days 75% husk brown
		Kanpur	Karnal	Ludhiana	Pantnagar	Ludhiana
100:40:30	B 63	66.0	55.7	52.0	57.0	85.0
	BIO 151	62.3	56.0	54.3	57.3	90.3
	BIO-688	61.7	56.0	51.7	57.0	87.7
	Bisco 2668	62.7	56.0	52.3	56.7	89.7
	CMH08-292	63.0	56.3	52.7	56.0	88.0
	CMH08-350	66.7	55.3	50.3	55.3	85.0
	P3396	60.3	55.7	54.0	58.0	93.7
	S6217	63.3	57.3	54.3	59.0	88.0
	S6304	64.3	55.3	53.7	56.7	89.0
	X35A174	66.0	56.7	52.0	57.0	89.3
	YUVRAJ GOLD	66.7	55.7	48.7	55.7	86.0
	BIO 9637 (C)	64.7	56.0	49.0	55.7	84.3
	PMH 4 (C)	65.0	56.7	48.7	54.0	83.7
150:50:40	B 63	64.0	53.7	51.3	57.7	86.7
	BIO 151	61.3	58.3	52.7	57.3	94.0
	BIO-688	63.7	56.7	52.0	57.7	88.7
	Bisco 2668	62.0	59.0	51.3	56.0	89.7
	CMH08-292	65.0	58.3	50.7	54.3	86.0
	CMH08-350	61.0	56.7	51.3	56.7	85.7
	P3396	65.3	56.7	51.0	57.7	91.3
	S6217	63.3	56.7	53.7	58.0	91.0
	S6304	64.0	57.3	51.0	56.7	85.3
	X35A174	63.0	57.3	53.3	56.3	90.3
	YUVRAJ GOLD	66.0	58.3	47.7	54.0	85.0
	BIO 9637 (C)	67.3	57.0	48.3	54.7	86.0
	PMH 4 (C)	64.0	59.3	48.7	54.7	84.3
200:60:50	B 63	65.3	57.0	51.7	56.3	86.0
	BIO 151	65.7	57.7	53.7	57.7	91.7
	BIO-688	62.7	57.3	53.0	56.3	87.3
	Bisco 2668	66.7	55.7	51.7	57.3	89.7
	CMH08-292	64.7	57.0	49.7	56.0	84.7
	CMH08-350	66.7	55.7	52.0	57.7	85.7
	P3396	63.3	56.7	52.0	59.0	95.3
	S6217	65.7	58.7	52.7	58.3	89.0
	S6304	63.7	56.7	51.3	57.0	86.7
	X35A174	62.0	55.0	51.0	57.7	87.7
	YUVRAJ GOLD	60.7	56.0	48.7	54.7	85.7
	BIO 9637 (C)	63.7	56.7	48.7	56.7	85.0
	PMH 4 (C)	65.3	55.7	48.3	54.7	84.0

Cont...

## A63

	Days to 50% Silking				Days 75% husk brown
	Kanpur	Karnal	Ludhiana	Pantnagar	Ludhiana
Location mean	64.1	56.7	51.3	56.6	87.7
C.D.(5%) AiBj-AiBk	1.9	2.2	2.4	2.1	4.1
C.D.(5%) AiBk-AjBk	2.0	2.4	2.6	2.4	4.2
F(5%)	s	s	n.s.	n.s.	n.s.

100:40:30	64.1	56.1	51.8	56.6	87.7
150:50:40	63.8	57.3	51.0	56.3	88.0
200:60:50	64.3	56.6	51.1	56.9	87.6

C.D.(5%) Ai-Aj	0.8	1.1	1.2	1.4	1.5
C.V.(%) Error A	1.9	3.1	3.8	4.0	2.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

B 63	65.1	55.4	51.7	57.0	85.9
BIO 151	63.1	57.3	53.6	57.4	92.0
BIO-688	62.7	56.7	52.2	57.0	87.9
Bisco 2668	63.8	56.9	51.8	56.7	89.7
CMH08-292	64.2	57.2	51.0	55.4	86.2
CMH08-350	64.8	55.9	51.2	56.6	85.4
P3396	63.0	56.3	52.3	58.2	93.4
S6217	64.1	57.6	53.6	58.4	89.3
S6304	64.0	56.4	52.0	56.8	87.0
X35A174	63.7	56.3	52.1	57.0	89.1
YUVRAJ GOLD	64.4	56.7	48.3	54.8	85.6
BIO 9637 (C)	65.2	56.6	48.7	55.7	85.1
PMH 4 (C)	64.8	57.2	48.6	54.4	84.0

C.D.(5%)Bi-Bj	1.1	1.3	1.4	1.2	2.4
C.V.(%)ErrorB	1.8	2.4	2.8	2.3	2.9
F(5%)	s	n.s.	s	s	s

Cont...

## A64

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)		Cob diameter (cm)	No. of rows/cob	
		Delhi	Ludhiana	Ludhiana	Delhi	Ludhiana
100:40:30	B 63	14.3	17.4	4.2	12.6	13.3
	BIO 151	12.5	17.9	4.3	12.6	13.6
	BIO-688	15.3	17.8	4.3	14.6	12.9
	Bisco 2668	15.6	18.3	4.4	12.4	13.2
	CMH08-292	15.7	17.4	4.4	13.6	13.2
	CMH08-350	15.3	17.5	4.3	14.2	13.2
	P3396	14.5	16.4	4.2	14.8	13.3
	S6217	15.6	16.8	4.4	14.4	13.2
	S6304	16.2	17.1	4.4	13.1	13.2
	X35A174	14.4	15.9	4.2	16.8	13.2
	YUVRAJ GOLD	13.7	16.8	4.2	12.4	13.2
	BIO 9637 (C)	13.6	17.2	4.5	13.7	13.1
PMH 4 (C)	13.9	17.6	4.4	14.4	13.6	
150:50:40	B 63	15.0	17.1	4.5	12.3	13.5
	BIO 151	16.6	18.1	4.5	14.0	13.7
	BIO-688	15.6	16.8	4.3	14.3	13.2
	Bisco 2668	15.7	16.4	4.4	13.1	13.7
	CMH08-292	15.1	17.3	4.3	13.5	13.6
	CMH08-350	15.2	17.0	4.2	13.5	13.6
	P3396	15.1	18.2	4.4	15.1	13.3
	S6217	16.4	18.4	4.4	14.3	13.2
	S6304	15.4	18.1	4.3	13.6	13.5
	X35A174	14.6	16.8	4.5	15.6	13.5
	YUVRAJ GOLD	14.7	17.3	4.6	12.1	13.3
	BIO 9637 (C)	14.5	16.7	4.2	13.9	13.3
PMH 4 (C)	13.7	18.3	4.4	15.2	13.3	
200:60:50	B 63	15.0	18.3	4.3	12.8	13.2
	BIO 151	16.6	17.4	4.5	13.6	13.5
	BIO-688	15.5	17.4	4.4	13.6	13.7
	Bisco 2668	16.6	17.6	4.6	12.9	13.3
	CMH08-292	15.3	16.9	4.3	13.7	13.5
	CMH08-350	16.1	18.3	4.3	13.9	13.3
	P3396	14.8	18.3	4.2	14.5	13.3
	S6217	16.5	17.3	4.4	14.4	13.7
	S6304	16.1	17.0	4.5	13.7	13.3
	X35A174	14.7	16.7	4.5	15.7	13.5
	YUVRAJ GOLD	15.3	16.7	4.5	12.4	13.6
	BIO 9637 (C)	14.7	18.2	4.5	12.7	13.6
PMH 4 (C)	13.3	17.2	4.5	13.7	13.5	

Cont...

## A65

	Cob length (cm)		Cob diameter (cm)	No. of rows/cob	
	Delhi	Ludhiana	Ludhiana	Delhi	Ludhiana
Location mean	15.1	17.4	4.4	13.8	13.4
C.D.(5%) AiBj-AiBk	1.5	1.6	0.3	1.0	0.6
C.D.(5%) AiBk-AjBk	1.8	1.6	0.3	1.0	0.6
F(5%)	s	n.s.	n.s.	s	n.s.

100:40:30	14.7	17.2	4.3	13.8	13.3
150:50:40	15.2	17.4	4.4	13.9	13.4
200:60:50	15.4	17.5	4.4	13.7	13.5

C.D.(5%) Ai-Aj	1.0	0.4	0.2	0.2	0.3
C.V.(%) Error A	11.0	4.1	6.7	2.7	3.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

B 63	14.8	17.6	4.3	12.5	13.3
BIO 151	15.2	17.8	4.4	13.4	13.6
BIO-688	15.5	17.3	4.3	14.2	13.3
Bisco 2668	15.9	17.4	4.5	12.8	13.4
CMH08-292	15.4	17.2	4.3	13.6	13.4
CMH08-350	15.5	17.6	4.3	13.8	13.4
P3396	14.8	17.6	4.3	14.8	13.3
S6217	16.2	17.5	4.4	14.4	13.4
S6304	15.9	17.4	4.4	13.5	13.3
X35A174	14.6	16.5	4.4	16.0	13.4
YUVRAJ GOLD	14.5	16.9	4.4	12.3	13.4
BIO 9637 (C)	14.3	17.4	4.4	13.4	13.3
PMH 4 (C)	13.7	17.7	4.4	14.4	13.5

C.D.(5%)Bi-Bj	0.9	0.9	0.2	0.6	0.3
C.V.(%)ErrorB	6.3	5.6	4.1	4.4	2.6
F(5%)	s	n.s.	n.s.	s	n.s.

## A66

**Table 8: Relative performance of pre-release germplasm of medium maturity at different NPK levels of during *Kharif* 2012 in zone III.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			
		Bahraich	Dholi	Ranchi	Varanasi
100:40:30	B 63	4958	4571	5084	7285
	BH41009	4965	4886	3766	5271
	BIO 151	5271	6049	5379	8090
	Bisco 2668	5660	4889	5242	6826
	CMH08-292	4910	5654	4761	8069
	CMH08-350	5542	5469	4954	7285
	KNMH401061	5451	5825	4974	7333
	NMH-1242	5451	6148	4106	7236
	P3396	5583	4101	4567	6549
	S6217	5549	6614	4909	7132
	S6304	5257	5477	5129	7771
	TITAN	5472	4521	3074	6118
	VMH 4106	5313	3888	4431	7222
	X35A173	4590	4540	5017	6465
	YUVRAJ GOLD	4819	4455	4434	6563
	BIO 9637 (C)	5313	4009	4217	7410
PMH 4 (C)	5569	4146	4417	7007	
150:50:40	B 63	5708	5241	5540	6757
	BH41009	5729	4795	4604	5590
	BIO 151	5851	6830	6417	7444
	Bisco 2668	6250	5978	5416	7194
	CMH08-292	5750	8452	5389	7451
	CMH08-350	6056	8565	5811	7215
	KNMH401061	6694	7630	5323	7806
	NMH-1242	6160	7938	4976	8375
	P3396	6472	4864	5161	8347
	S6217	6611	7490	5341	8167
	S6304	5806	6511	6047	6319
	TITAN	6444	5300	3406	6958
	VMH 4106	6181	4277	6296	7299
	X35A173	5813	5853	5700	6708
	YUVRAJ GOLD	5715	5560	4837	6764
	BIO 9637 (C)	6222	6327	5192	6632
PMH 4 (C)	6528	5628	4851	6646	
200:60:50	B 63	6931	6044	5720	7139
	BH41009	6472	5358	4948	6681
	BIO 151	6556	7405	6671	8160
	Bisco 2668	6736	6959	5431	6889
	CMH08-292	6257	8894	5644	7583
	CMH08-350	6708	7130	6187	8146
	KNMH401061	7139	8408	4985	7993
	NMH-1242	6542	9839	5616	8333
	P3396	7083	5566	5684	8069
	S6217	7257	8722	5710	8625
	S6304	6174	6064	5982	7556
	TITAN	6958	6457	4304	6667
	VMH 4106	6889	6560	6637	6347
	X35A173	6493	6930	5278	5618
	YUVRAJ GOLD	6347	7368	5248	6861
	BIO 9637 (C)	6951	8064	5062	7229
PMH 4 (C)	7083	8493	5116	6972	

Cont...

## A67

	Grain yield (kg/ha)			
	Bahraich	Dholi	Ranchi	Varanasi
Location mean	6043.9	6210.6	5156.7	7179.9
C.D.(5%) AiBj-AiBk	235.0	469.3	822.0	1614.4
C.D.(5%) AiBk-AjBk	242.2	497.2	932.4	1659.9
F(5%)	s	s	n.s.	n.s.
100:40:30	5275	5014	4615	7037
150:50:40	6117	6308	5312	7157
200:60:50	6740	7309	5543	7345
C.D.(5%) Ai-Aj	85.0	207.6	500.2	571.7
C.V.(%) Error A	2.6	6.1	17.6	14.5
F(5%)	s	s	s	n.s.
B 63	5866	5286	5448	7060
BH41009	5722	5013	4439	5847
BIO 151	5892	6761	6156	7898
Bisco 2668	6215	5942	5363	6970
CMH08-292	5639	7666	5265	7701
CMH08-350	6102	7055	5651	7549
KNMH401061	6428	7288	5094	7711
NMH-1242	6051	7975	4899	7981
P3396	6380	4844	5138	7655
S6217	6472	7609	5320	7975
S6304	5745	6017	5719	7215
TITAN	6292	5426	3595	6581
VMH 4106	6127	4908	5788	6956
X35A173	5632	5774	5332	6264
YUVRAJ GOLD	5627	5794	4840	6729
BIO 9637 (C)	6162	6133	4823	7090
PMH 4 (C)	6394	6089	4795	6875
C.D.(5%)Bi-Bj	135.7	270.9	474.6	932.1
C.V.(%)ErrorB	2.4	4.7	9.8	13.9
F(5%)	s	s	s	s

Cont...

## A68

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob weight (kg/ha)			
		Bahraich	Dholi	Ranchi	Varanasi
100:40:30	B 63	7083	6639	5963	11181
	BH41009	6910	6583	4611	7917
	BIO 151	7326	8833	6796	12500
	Bisco 2668	7868	6750	5444	9722
	CMH08-292	7028	8278	5426	12292
	CMH08-350	7924	7889	6204	11111
	KNMH401061	8396	8083	5833	11458
	NMH-1242	7799	8139	5278	10694
	P3396	7986	5806	4500	11042
	S6217	7938	9806	6648	10833
	S6304	7521	7722	6315	11736
	TITAN	7833	5861	3463	9167
	VMH 4106	7604	5556	6441	11042
	X35A173	6563	6611	5741	9792
	YUVRAJ GOLD	6903	5972	5352	9861
	BIO 9637 (C)	7604	5667	5352	10833
	PMH 4 (C)	7965	5694	5463	9931
150:50:40	B 63	7931	7611	6426	10417
	BH41009	7965	6944	5259	8264
	BIO 151	8132	10000	7852	11875
	Bisco 2668	8563	8472	7333	11250
	CMH08-292	7993	11806	7519	11806
	CMH08-350	8424	12611	6981	11042
	KNMH401061	8993	11472	6556	12153
	NMH-1242	8563	10722	5685	12569
	P3396	9049	7222	6593	12847
	S6217	9111	11556	6667	12083
	S6304	8076	9417	7148	9583
	TITAN	8882	6972	4796	10486
	VMH 4106	8701	6306	7593	11319
	X35A173	8007	8028	7556	9583
	YUVRAJ GOLD	7944	7306	5963	10208
	BIO 9637 (C)	8701	8861	6056	10278
	PMH 4 (C)	8958	7278	5944	9444
200:60:50	B 63	8938	8694	7181	10972
	BH41009	9000	7889	6500	9653
	BIO 151	9118	11056	8204	12778
	Bisco 2668	9243	10389	6870	10417
	CMH08-292	8590	13222	6352	11667
	CMH08-350	9326	13583	7648	11875
	KNMH401061	9924	12750	6037	12361
	NMH-1242	9097	13833	7000	12361
	P3396	9715	8333	7611	12361
	S6217	9958	13556	6815	12569
	S6304	8590	9028	8463	11458
	TITAN	9681	8778	4907	10069
	VMH 4106	9458	9500	8185	9722
	X35A173	8903	9444	5944	8681
	YUVRAJ GOLD	8708	10278	6648	10278
	BIO 9637 (C)	9681	11583	6593	11181
	PMH 4 (C)	9694	11500	5870	10556

Cont...

## A69

	Cob weight (kg/ha)			
	Bahraich	Dholi	Ranchi	Varanasi
Location mean	8428.8	8939.0	6344.8	10887.8
C.D.(5%) AiBj-AiBk	201.7	672.9	1085.5	2282.8
C.D.(5%) AiBk-AjBk	209.2	712.2	1210.8	2397.4
F(5%)	s	s	s	n.s.
100:40:30	7544	7052	5578	10654
150:50:40	8470	8975	6584	10895
200:60:50	9272	10789	6872	11115
C.D.(5%) Ai-Aj	77.1	295.7	619.0	953.8
C.V.(%) Error A	1.7	6.0	17.7	15.9
F(5%)	s	s	s	n.s.
B 63	7984	7648	6523	10856
BH41009	7958	7139	5457	8611
BIO 151	8192	9963	7617	12384
Bisco 2668	8558	8537	6549	10463
CMH08-292	7870	11102	6432	11921
CMH08-350	8558	11361	6944	11343
KNMH401061	9104	10769	6142	11991
NMH-1242	8486	10898	5988	11875
P3396	8917	7120	6235	12083
S6217	9002	11639	6710	11829
S6304	8063	8722	7309	10926
TITAN	8799	7204	4389	9907
VMH 4106	8588	7120	7406	10694
X35A173	7824	8028	6414	9352
YUVRAJ GOLD	7852	7852	5988	10116
BIO 9637 (C)	8662	8704	6000	10764
PMH 4 (C)	8873	8157	5759	9977
C.D.(5%)Bi-Bj	116.4	388.5	626.7	1318.0
C.V.(%)ErrorB	1.5	4.6	10.5	12.9
F(5%)	s	s	s	s

Cont...



## A70

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plant ('000/ha)			
		Bahraich	Dholi	Ranchi	Varanasi
100:40:30	B 63	82.6	64.4	64.8	63.9
	BH41009	82.6	66.7	64.8	55.6
	BIO 151	81.9	63.1	61.1	61.1
	Bisco 2668	81.9	64.4	66.3	61.1
	CMH08-292	80.6	61.9	67.0	63.9
	CMH08-350	82.6	61.1	59.6	60.4
	KNMH401061	81.9	64.7	65.2	63.9
	NMH-1242	81.3	63.3	63.7	66.0
	P3396	79.9	63.3	64.4	61.1
	S6217	82.6	64.2	66.3	63.9
	S6304	79.9	61.4	63.3	64.6
	TITAN	81.3	61.9	65.2	55.6
	VMH 4106	78.5	65.0	61.9	63.9
	X35A173	81.3	62.8	63.3	57.6
	YUVRAJ GOLD	81.3	62.2	67.4	57.6
	BIO 9637 (C)	82.6	63.1	67.4	63.2
PMH 4 (C)	81.9	62.5	64.4	61.8	
150:50:40	B 63	83.3	63.9	63.0	59.7
	BH41009	81.9	62.8	62.6	52.8
	BIO 151	79.9	62.8	64.8	64.6
	Bisco 2668	81.3	61.7	64.1	63.2
	CMH08-292	81.3	63.1	66.7	61.1
	CMH08-350	82.6	62.5	63.0	59.7
	KNMH401061	81.3	62.5	65.9	63.9
	NMH-1242	82.6	65.6	61.9	64.6
	P3396	81.3	62.5	67.4	63.9
	S6217	81.3	65.8	66.7	63.2
	S6304	81.3	60.6	65.2	63.2
	TITAN	82.6	63.6	61.5	63.2
	VMH 4106	81.9	62.8	65.2	63.9
	X35A173	82.6	65.0	63.7	61.1
	YUVRAJ GOLD	81.3	61.1	68.1	63.9
	BIO 9637 (C)	82.6	61.9	64.4	59.0
PMH 4 (C)	81.3	62.8	70.7	61.1	
200:60:50	B 63	82.6	60.8	65.6	63.2
	BH41009	83.3	61.9	60.4	63.2
	BIO 151	81.3	64.4	63.3	66.7
	Bisco 2668	82.6	60.8	63.3	63.2
	CMH08-292	82.6	61.9	63.0	57.6
	CMH08-350	81.3	63.6	67.8	55.6
	KNMH401061	81.9	57.8	66.7	63.2
	NMH-1242	81.3	64.7	67.0	66.7
	P3396	81.3	65.0	66.3	57.6
	S6217	80.6	63.3	66.7	66.7
	S6304	82.6	64.2	67.8	59.7
	TITAN	81.3	63.3	65.2	61.8
	VMH 4106	81.3	61.1	68.5	56.3
	X35A173	80.6	60.6	66.3	56.9
	YUVRAJ GOLD	81.3	61.4	64.1	60.4
	BIO 9637 (C)	81.3	63.3	67.0	61.8
PMH 4 (C)	81.9	61.7	64.4	65.3	

Cont...

# A71

	No. of plant ('000/ha)			
	Bahraich	Dholi	Ranchi	Varanasi
Location mean	81.6	62.9	65.0	61.6
C.D.(5%) AiBj-AiBk	2.8	4.5	6.3	7.8
C.D.(5%) AiBk-AjBk	2.8	4.6	6.4	7.8
F(5%)	n.s.	n.s.	n.s.	n.s.
100:40:30	81.5	63.3	64.5	61.5
150:50:40	81.8	63.0	65.0	61.9
200:60:50	81.7	62.4	65.5	61.5
C.D.(5%) Ai-Aj	0.7	1.7	2.0	1.7
C.V.(%) Error A	1.5	4.8	5.7	5.1
F(5%)	n.s.	n.s.	n.s.	n.s.
B 63	82.9	63.1	64.4	62.3
BH41009	82.6	63.8	62.6	57.2
BIO 151	81.0	63.4	63.1	64.1
Bisco 2668	81.9	62.3	64.6	62.5
CMH08-292	81.5	62.3	65.6	60.9
CMH08-350	82.2	62.4	63.5	58.6
KNMH401061	81.7	61.7	65.9	63.7
NMH-1242	81.7	64.5	64.2	65.7
P3396	80.8	63.6	66.0	60.9
S6217	81.5	64.4	66.5	64.6
S6304	81.3	62.0	65.4	62.5
TITAN	81.7	63.0	64.0	60.2
VMH 4106	80.6	63.0	65.2	61.3
X35A173	81.5	62.8	64.4	58.6
YUVRAJ GOLD	81.3	61.6	66.5	60.6
BIO 9637 (C)	82.2	62.8	66.3	61.3
PMH 4 (C)	81.7	62.3	66.5	62.7
C.D.(5%)Bi-Bj	1.6	2.6	3.6	4.5
C.V.(%)ErrorB	2.1	4.4	6.0	7.8
F(5%)	n.s.	n.s.	n.s.	s

Cont...

## A72

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			
		Bahraich	Dholi	Ranchi	Varanasi
100:40:30	B 63	85.4	64.7	60.7	66.0
	BH41009	87.5	61.1	50.7	56.3
	BIO 151	93.1	63.1	58.1	62.5
	Bisco 2668	95.1	63.3	62.2	58.3
	CMH08-292	88.2	62.5	61.9	64.6
	CMH08-350	85.4	62.5	56.7	59.7
	KNMH401061	84.0	63.9	56.7	61.8
	NMH-1242	93.1	64.2	56.3	62.5
	P3396	81.9	64.4	59.3	59.7
	S6217	89.6	65.6	62.6	60.4
	S6304	91.0	61.7	61.9	62.5
	TITAN	90.3	62.5	53.7	54.2
	VMH 4106	91.7	64.4	56.7	61.1
	X35A173	87.5	62.5	59.6	58.3
	YUVRAJ GOLD	93.8	62.8	55.9	54.9
	BIO 9637 (C)	93.8	61.7	58.5	63.2
	PMH 4 (C)	92.4	62.8	59.6	62.5
150:50:40	B 63	89.6	65.0	61.9	61.8
	BH41009	90.3	63.3	53.3	54.2
	BIO 151	95.1	64.2	57.4	65.3
	Bisco 2668	97.9	64.2	62.2	63.2
	CMH08-292	93.1	64.2	63.7	59.7
	CMH08-350	92.4	62.5	57.8	59.0
	KNMH401061	91.7	62.8	58.1	65.3
	NMH-1242	95.8	65.6	49.6	61.8
	P3396	90.3	63.1	61.1	68.1
	S6217	95.8	68.6	62.2	63.2
	S6304	93.8	62.5	64.8	60.4
	TITAN	92.4	65.3	58.1	61.8
	VMH 4106	93.8	63.3	61.1	63.9
	X35A173	92.4	64.7	61.1	61.1
	YUVRAJ GOLD	92.4	62.5	65.9	61.1
	BIO 9637 (C)	93.8	62.8	59.3	63.2
	PMH 4 (C)	91.0	65.8	55.6	54.9
200:60:50	B 63	94.4	61.9	60.4	66.0
	BH41009	91.0	63.1	50.4	63.2
	BIO 151	94.4	64.7	60.4	72.2
	Bisco 2668	94.4	63.9	62.6	56.3
	CMH08-292	86.8	63.9	60.7	54.9
	CMH08-350	84.0	65.3	62.2	58.3
	KNMH401061	86.1	61.1	55.2	63.2
	NMH-1242	94.4	66.1	65.2	65.3
	P3396	87.5	65.8	64.4	57.6
	S6217	93.8	66.9	63.7	68.1
	S6304	93.8	62.5	65.9	61.8
	TITAN	93.8	65.0	60.7	60.4
	VMH 4106	88.2	63.6	60.0	52.1
	X35A173	85.4	61.7	60.7	53.5
	YUVRAJ GOLD	89.6	63.3	62.6	59.7
	BIO 9637 (C)	88.9	63.9	61.1	61.8
	PMH 4 (C)	88.2	63.6	58.5	66.0

Cont...

## A73

	No. of cobs ('000/ha)			
	Bahraich	Dholi	Ranchi	Varanasi
Location mean	91.0	63.7	59.6	61.1
C.D.(5%) AiBj-AiBk	4.3	3.7	9.5	9.6
C.D.(5%) AiBk-AjBk	4.6	3.9	9.9	10.2
F(5%)	s	n.s.	n.s.	n.s.
100:40:30	89.6	63.2	58.3	60.5
150:50:40	93.0	64.1	59.6	61.6
200:60:50	90.3	63.9	60.9	61.2
C.D.(5%) Ai-Aj	2.0	1.7	3.8	4.2
C.V.(%) Error A	4.0	4.7	11.7	12.6
F(5%)	s	n.s.	n.s.	n.s.
B 63	89.8	63.9	61.0	64.6
BH41009	89.6	62.5	51.5	57.9
BIO 151	94.2	64.0	58.6	66.7
Bisco 2668	95.8	63.8	62.3	59.3
CMH08-292	89.4	63.5	62.1	59.7
CMH08-350	87.3	63.4	58.9	59.0
KNMH401061	87.3	62.6	56.7	63.4
NMH-1242	94.4	65.3	57.0	63.2
P3396	86.6	64.4	61.6	61.8
S6217	93.1	67.0	62.8	63.9
S6304	92.8	62.2	64.2	61.6
TITAN	92.1	64.3	57.5	58.8
VMH 4106	91.2	63.8	59.3	59.0
X35A173	88.4	63.0	60.5	57.6
YUVRAJ GOLD	91.9	62.9	61.5	58.6
BIO 9637 (C)	92.1	62.8	59.6	62.7
PMH 4 (C)	90.5	64.1	57.9	61.1
C.D.(5%)Bi-Bj	2.5	2.1	5.5	5.5
C.V.(%)ErrorB	2.9	3.6	9.8	9.7
F(5%)	s	s	s	s

Cont...

## A74

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)			
		Bahraich	Dholi	Ranchi	Varanasi
100:40:30	B 63	159.7	145.7	212.7	162.0
	BH41009	161.0	143.8	222.7	173.7
	BIO 151	162.3	128.7	183.7	168.0
	Bisco 2668	164.3	126.9	182.5	163.3
	CMH08-292	165.0	152.5	212.6	209.3
	CMH08-350	164.0	158.3	231.1	212.7
	KNMH401061	157.3	162.1	232.0	215.7
	NMH-1242	162.3	140.3	218.3	176.7
	P3396	157.3	137.1	219.9	189.0
	S6217	162.0	141.1	215.0	183.3
	S6304	168.0	127.3	188.5	168.0
	TITAN	162.3	133.6	191.3	157.0
	VMH 4106	165.7	127.7	203.7	178.3
	X35A173	159.7	140.9	230.8	202.3
	YUVRAJ GOLD	159.7	128.7	204.3	177.3
	BIO 9637 (C)	162.3	147.5	230.3	198.0
PMH 4 (C)	158.7	139.1	223.6	187.7	
150:50:40	B 63	164.7	127.5	211.9	175.7
	BH41009	165.3	139.9	227.9	173.3
	BIO 151	166.7	128.3	230.0	157.3
	Bisco 2668	168.3	131.8	217.0	158.0
	CMH08-292	169.0	174.3	236.6	206.3
	CMH08-350	168.3	166.9	239.0	205.7
	KNMH401061	162.3	159.8	235.6	220.7
	NMH-1242	167.3	147.9	231.4	184.0
	P3396	163.0	133.9	254.4	199.0
	S6217	165.7	137.7	219.2	188.0
	S6304	172.7	130.1	225.4	160.3
	TITAN	166.7	130.6	198.5	155.3
	VMH 4106	169.0	126.5	226.3	174.3
	X35A173	164.7	140.3	248.8	206.3
	YUVRAJ GOLD	164.3	132.7	231.5	168.7
	BIO 9637 (C)	165.3	137.3	235.5	193.0
PMH 4 (C)	164.3	136.2	224.9	180.0	
200:60:50	B 63	172.3	130.4	236.5	175.7
	BH41009	170.3	159.3	238.7	172.7
	BIO 151	173.0	137.1	221.0	152.7
	Bisco 2668	174.7	132.3	221.9	163.7
	CMH08-292	174.3	184.9	251.8	211.7
	CMH08-350	174.7	173.3	236.0	217.7
	KNMH401061	170.3	170.6	229.6	212.0
	NMH-1242	175.0	156.9	233.0	174.0
	P3396	169.0	145.4	233.8	197.7
	S6217	171.3	143.3	227.8	191.0
	S6304	176.0	133.5	235.9	163.0
	TITAN	176.0	138.3	210.2	167.7
	VMH 4106	174.7	148.4	234.6	171.0
	X35A173	170.7	166.1	253.2	207.7
	YUVRAJ GOLD	169.7	146.0	240.3	166.3
	BIO 9637 (C)	172.3	161.1	251.8	199.7
PMH 4 (C)	170.7	146.7	235.7	187.3	

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## A75

	Plant height (cm)			
	Bahraich	Dholi	Ranchi	Varanasi
Location mean	166.9	143.9	225.3	183.5
C.D.(5%) AiBj-AiBk	1.3	15.1	28.4	12.6
C.D.(5%) AiBk-AjBk	1.3	15.3	35.1	13.8
F(5%)	s	n.s.	n.s.	n.s.
100:40:30	161.9	140.1	211.9	183.7
150:50:40	166.3	140.1	229.0	182.7
200:60:50	172.6	151.4	234.8	184.2
C.D.(5%) Ai-Aj	0.4	4.8	22.5	6.7
C.V.(%) Error A	0.5	6.0	18.1	6.6
F(5%)	s	s	n.s.	n.s.
B 63	165.6	134.6	220.4	171.1
BH41009	165.6	147.7	229.8	173.2
BIO 151	167.3	131.4	211.6	159.3
Bisco 2668	169.1	130.3	207.1	161.7
CMH08-292	169.4	170.6	233.7	209.1
CMH08-350	169.0	166.2	235.4	212.0
KNMH401061	163.3	164.2	232.4	216.1
NMH-1242	168.2	148.4	227.6	178.2
P3396	163.1	138.8	236.0	195.2
S6217	166.3	140.7	220.7	187.4
S6304	172.2	130.3	216.6	163.8
TITAN	168.3	134.2	200.0	160.0
VMH 4106	169.8	134.2	221.6	174.6
X35A173	165.0	149.1	244.2	205.4
YUVRAJ GOLD	164.6	135.8	225.4	170.8
BIO 9637 (C)	166.7	148.6	239.2	196.9
PMH 4 (C)	164.6	140.7	228.1	185.0
C.D.(5%)Bi-Bj	0.7	8.7	16.4	7.3
C.V.(%)ErrorB	0.5	6.5	7.8	4.2
F(5%)	s	s	s	s

Cont...

## A76

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)	Days of 50% tasseling		
		Dholi	Dholi	Ranchi	Varanasi
100:40:30	B 63	70.9	58.7	56.0	56.7
	BH41009	64.5	57.7	55.0	53.7
	BIO 151	63.4	57.7	57.0	52.3
	Bisco 2668	55.3	56.3	56.0	54.7
	CMH08-292	79.3	55.3	56.0	54.3
	CMH08-350	77.8	55.7	53.0	55.0
	KNMH401061	72.9	56.7	55.0	57.7
	NMH-1242	45.7	54.7	53.0	50.7
	P3396	58.9	61.0	56.0	55.0
	S6217	63.4	58.0	54.0	54.3
	S6304	59.9	57.0	55.0	53.7
	TITAN	56.8	53.3	55.0	51.3
	VMH 4106	55.0	58.3	56.0	54.3
	X35A173	60.4	57.0	54.0	54.7
	YUVRAJ GOLD	58.6	53.7	55.0	51.7
	150:50:40	BIO 9637 (C)	65.5	56.3	54.0
PMH 4 (C)		54.9	54.3	53.0	51.3
B 63		65.1	58.3	53.7	56.3
BH41009		67.3	58.0	53.7	53.7
BIO 151		58.7	58.0	54.7	54.7
Bisco 2668		64.3	56.0	54.7	53.7
CMH08-292		100.6	54.0	51.7	53.3
CMH08-350		85.6	56.3	50.7	53.7
KNMH401061		70.2	57.7	53.7	55.0
NMH-1242		44.6	53.7	53.7	50.3
P3396		55.3	60.7	55.7	53.7
S6217		62.4	58.0	54.7	51.7
S6304		57.9	56.7	53.7	53.7
TITAN		51.3	52.3	54.7	53.0
VMH 4106		57.2	59.0	56.7	56.7
X35A173		60.2	58.7	55.7	55.0
YUVRAJ GOLD	60.6	53.7	51.7	51.7	
200:60:50	BIO 9637 (C)	58.9	58.0	54.7	54.3
	PMH 4 (C)	50.0	55.0	51.7	50.0
	B 63	62.4	58.0	53.0	55.7
	BH41009	74.9	57.0	52.0	51.0
	BIO 151	67.8	56.3	55.0	53.0
	Bisco 2668	61.1	55.0	54.0	52.7
	CMH08-292	101.8	53.3	51.0	53.0
	CMH08-350	97.8	54.7	51.0	51.0
	KNMH401061	81.3	58.3	54.0	54.3
	NMH-1242	57.5	53.0	52.0	49.0
	P3396	66.2	59.0	54.0	55.7
	S6217	65.3	58.0	53.0	52.7
	S6304	63.1	57.3	56.0	53.7
	TITAN	60.4	51.3	51.0	52.0
	VMH 4106	71.6	57.7	55.0	55.7
	X35A173	70.2	54.3	53.0	53.7
YUVRAJ GOLD	63.4	51.3	52.0	52.3	
BIO 9637 (C)	76.6	55.0	54.0	51.7	
PMH 4 (C)	55.3	53.0	52.0	52.7	

Cont...

## A77

	Ear height (cm)	Days of 50% tasseling		
		Dholi	Ranchi	Varanasi
Location mean	65.3	56.2	53.9	53.4
C.D.(5%) AiBj-AiBk	11.9	2.1	0.9	3.0
C.D.(5%) AiBk-AjBk	12.8	2.1	2.4	3.1
F(5%)	n.s.	n.s.	s	n.s.

100:40:30	62.5	56.6	54.9	53.7
150:50:40	63.0	56.7	53.8	53.5
200:60:50	70.4	55.5	53.1	52.9

C.D.(5%) Ai-Aj	5.6	0.4	2.2	1.1
C.V.(%) Error A	15.7	1.4	7.4	3.7
F(5%)	s	s	n.s.	n.s.

B 63	66.2	58.3	54.2	56.2
BH41009	68.9	57.6	53.6	52.8
BIO 151	63.3	57.3	55.6	53.3
Bisco 2668	60.2	55.8	54.9	53.7
CMH08-292	93.9	54.2	52.9	53.6
CMH08-350	87.1	55.6	51.6	53.2
KNMH401061	74.8	57.6	54.2	55.7
NMH-1242	49.3	53.8	52.9	50.0
P3396	60.1	60.2	55.2	54.8
S6217	63.7	58.0	53.9	52.9
S6304	60.3	57.0	54.9	53.7
TITAN	56.2	52.3	53.6	52.1
VMH 4106	61.3	58.3	55.9	55.6
X35A173	63.6	56.7	54.2	54.4
YUVRAJ GOLD	60.9	52.9	52.9	51.9
BIO 9637 (C)	67.0	56.4	54.2	52.8
PMH 4 (C)	53.4	54.1	52.2	51.3

C.D.(5%)Bi-Bj	6.9	1.2	0.5	1.7
C.V.(%)ErrorB	11.3	2.3	1.1	3.4
F(5%)	s	s	s	s

Cont...



## A78

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days 50% silking			
		Bahraich	Dholi	Ranchi	Varanasi
100:40:30	B 63	57.0	61.7	60.0	62.0
	BH41009	58.0	61.0	59.0	60.3
	BIO 151	57.0	60.3	61.0	57.3
	Bisco 2668	58.0	58.0	60.0	58.7
	CMH08-292	57.0	58.3	60.0	58.0
	CMH08-350	57.0	58.7	57.0	58.3
	KNMH401061	54.0	59.3	59.0	61.7
	NMH-1242	56.0	57.7	57.0	56.3
	P3396	56.0	65.0	60.0	60.3
	S6217	57.0	61.3	58.0	59.0
	S6304	58.0	60.0	59.0	58.3
	TITAN	56.0	56.0	59.0	56.0
	VMH 4106	57.0	61.7	60.0	58.7
	X35A173	56.0	59.0	58.0	59.3
	YUVRAJ GOLD	58.0	56.7	59.0	55.0
	BIO 9637 (C)	57.0	59.3	58.0	57.3
PMH 4 (C)	56.0	57.7	57.0	56.0	
150:50:40	B 63	55.0	61.0	57.3	60.7
	BH41009	54.0	61.0	57.3	59.0
	BIO 151	55.0	60.0	58.3	59.0
	Bisco 2668	54.0	58.3	58.3	58.7
	CMH08-292	54.0	56.7	55.3	57.7
	CMH08-350	52.0	58.7	54.3	58.0
	KNMH401061	50.0	60.0	57.3	59.7
	NMH-1242	52.0	57.0	57.3	55.3
	P3396	52.0	64.7	59.3	58.3
	S6217	54.0	61.0	58.3	56.3
	S6304	55.0	58.3	57.3	58.0
	TITAN	52.0	55.3	58.3	56.7
	VMH 4106	53.0	58.7	60.3	60.7
	X35A173	51.0	61.0	59.3	60.3
	YUVRAJ GOLD	54.0	56.3	55.3	54.7
	BIO 9637 (C)	54.0	61.7	58.3	60.3
PMH 4 (C)	52.0	58.3	55.3	54.3	
200:60:50	B 63	52.0	61.0	56.3	60.3
	BH41009	52.0	59.7	55.3	57.0
	BIO 151	52.0	58.3	58.3	58.7
	Bisco 2668	50.0	57.3	57.3	57.3
	CMH08-292	52.0	55.7	54.3	57.7
	CMH08-350	50.0	57.0	54.3	54.7
	KNMH401061	49.0	61.3	57.3	59.0
	NMH-1242	50.0	56.0	55.3	54.0
	P3396	50.0	62.0	57.3	60.3
	S6217	52.0	60.0	56.3	57.0
	S6304	53.0	59.7	59.3	57.3
	TITAN	50.0	54.3	54.3	56.0
	VMH 4106	50.0	60.3	58.3	60.0
	X35A173	50.0	57.0	56.3	58.0
	YUVRAJ GOLD	52.0	54.3	55.3	55.7
	BIO 9637 (C)	50.0	58.0	57.3	56.3
PMH 4 (C)	50.0	56.3	55.3	58.7	

Cont...

## A79

	Days 50% silking			
	Bahraich	Dholi	Ranchi	Varanasi
Location mean	53.6	59.0	57.6	58.0
C.D.(5%) AiBj-AiBk	0.2	2.4	1.1	3.6
C.D.(5%) AiBk-AjBk	0.2	2.4	3.2	3.7
F(5%)	s	n.s.	s	n.s.

100:40:30	56.8	59.5	58.9	58.4
150:50:40	53.1	59.3	57.5	58.1
200:60:50	50.8	58.1	56.4	57.5

C.D.(5%) Ai-Aj	0.1	0.7	3.1	1.3
C.V.(%) Error A	0.3	2.1	9.6	4.0
F(5%)	s	s	n.s.	n.s.

B 63	54.7	61.2	57.9	61.0
BH41009	54.7	60.6	57.2	58.8
BIO 151	54.7	59.6	59.2	58.3
Bisco 2668	54.0	57.9	58.6	58.2
CMH08-292	54.3	56.9	56.6	57.8
CMH08-350	53.0	58.1	55.2	57.0
KNMH401061	51.0	60.2	57.9	60.1
NMH-1242	52.7	56.9	56.6	55.2
P3396	52.7	63.9	58.9	59.7
S6217	54.3	60.8	57.6	57.4
S6304	55.3	59.3	58.6	57.9
TITAN	52.7	55.2	57.2	56.2
VMH 4106	53.3	60.2	59.6	59.8
X35A173	52.3	59.0	57.9	59.2
YUVRAJ GOLD	54.7	55.8	56.6	55.1
BIO 9637 (C)	53.7	59.7	57.9	58.0
PMH 4 (C)	52.7	57.4	55.9	56.3

C.D.(5%)Bi-Bj	0.1	1.4	0.6	2.1
C.V.(%)ErrorB	0.3	2.5	1.1	3.9
F(5%)	s	s	s	s

Cont...

## A80

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days of 75% Dry husk	No. of barren plant ( <sup>0</sup> 000/ha)	Shelling (%)	Days of germination	Banded leaf & Sheath blight	Maydis
		Dholi	Varanasi	Bahraich	Dholi	Ranchi	Ranchi
100:40:30	B 63	94.0	0.0	70.0	4.7	2.0	1.5
	BH41009	92.0	0.7	72.0	4.7	3.0	2.0
	BIO 151	94.0	0.0	72.0	5.0	2.5	1.5
	Bisco 2668	90.7	2.8	72.0	4.3	2.5	2.0
	CMH08-292	88.0	2.1	70.0	5.0	2.0	1.5
	CMH08-350	89.0	2.1	70.0	4.3	1.0	1.5
	KNMH401061	91.7	2.1	70.0	5.0	3.5	1.5
	NMH-1242	91.0	3.5	70.0	4.3	2.5	1.5
	P3396	99.0	4.2	70.0	4.7	3.0	1.5
	S6217	93.3	4.9	70.0	4.7	2.0	1.0
	S6304	90.3	3.5	70.0	5.0	3.0	1.5
	TITAN	84.0	3.5	70.0	5.0	1.5	2.5
	VMH 4106	94.0	3.5	70.0	4.7	2.5	1.0
	X35A173	93.3	2.8	71.0	4.7	2.5	2.0
	YUVRAJ GOLD	87.7	4.9	70.0	4.7	2.0	2.0
	BIO 9637 (C)	91.3	2.8	70.0	5.0	2.0	1.0
	PMH 4 (C)	86.0	1.4	70.0	4.3	2.0	2.0
150:50:40	B 63	90.7	0.7	72.0	4.7	2.0	1.5
	BH41009	92.0	2.8	72.0	4.7	3.0	2.5
	BIO 151	90.0	1.4	72.0	5.0	3.0	1.5
	Bisco 2668	90.3	0.7	72.0	4.3	3.0	2.0
	CMH08-292	87.7	1.4	72.0	4.7	3.0	1.5
	CMH08-350	87.7	2.1	72.0	4.7	2.5	1.5
	KNMH401061	91.7	1.4	72.0	4.7	2.0	1.5
	NMH-1242	87.7	3.5	71.3	5.0	2.0	1.5
	P3396	100.7	0.7	72.0	4.3	3.0	3.0
	S6217	95.0	3.5	72.7	4.7	2.5	1.0
	S6304	91.0	2.8	72.0	4.7	2.0	2.0
	TITAN	85.3	2.1	72.7	4.3	2.5	2.0
	VMH 4106	94.7	0.0	72.7	4.7	2.0	2.0
	X35A173	95.3	0.7	72.7	4.3	3.5	2.0
	YUVRAJ GOLD	86.7	3.5	72.0	4.7	1.5	2.5
	BIO 9637 (C)	91.0	0.7	71.7	4.3	1.5	2.0
	PMH 4 (C)	88.3	7.6	73.0	4.3	3.0	3.0
200:60:50	B 63	90.7	2.8	72.0	4.7	3.0	2.0
	BH41009	91.3	0.7	72.0	4.7	3.0	3.0
	BIO 151	93.0	0.0	72.0	4.7	2.5	2.0
	Bisco 2668	89.7	6.9	73.0	4.7	3.0	3.0
	CMH08-292	89.0	3.5	73.0	4.3	2.5	3.0
	CMH08-350	87.7	1.4	72.0	4.7	3.0	3.5
	KNMH401061	93.0	1.4	72.0	4.3	3.0	2.5
	NMH-1242	90.7	2.1	72.0	4.7	3.5	1.5
	P3396	99.3	0.7	73.0	4.3	2.0	2.5
	S6217	94.7	0.7	73.0	4.3	3.0	1.5
	S6304	92.3	0.7	72.0	4.3	3.0	2.5
	TITAN	88.3	2.8	73.0	4.3	4.0	2.5
	VMH 4106	94.7	4.2	73.0	4.3	2.5	1.5
	X35A173	91.7	6.3	73.0	4.3	2.5	3.0
	YUVRAJ GOLD	85.7	2.8	73.0	4.7	2.5	3.0
	BIO 9637 (C)	89.7	2.8	73.0	4.3	3.5	3.0
	PMH 4 (C)	85.3	4.2	73.0	5.0	2.5	2.5

Cont...

# A81

		Days of 75% Dry husk	No. of barren plant (*000/ha)	Shelling (%)	Days of germination	Banded leaf & Sheath blight	Maydis
		Dholi	Varanasi	Bahraich	Dholi	Ranchi	Ranchi
Location mean		91.0	2.4	71.7	4.6	2.6	2.0
C.D.(5%) AiBj-AiBk		3.6	4.4	0.3	0.9	0.3	0.2
C.D.(5%) AiBk-AjBk		3.9	4.3	0.3	0.9	1.3	1.3
F(5%)		n.s.	n.s.	s	n.s.	s	s

100:40:30	91.1	2.6	70.4	4.7	2.3	1.6
150:50:40	90.9	2.1	72.2	4.6	2.5	1.9
200:60:50	91.0	2.6	72.6	4.5	2.9	2.5

C.D.(5%) Ai-Aj	1.7	1.0	0.1	0.2	1.3	1.3
C.V.(%) Error A	3.5	76.4	0.3	7.7	89.0	114.6
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.

B 63	91.8	1.2	71.3	4.7	2.3	1.7
BH41009	91.8	1.4	72.0	4.7	3.0	2.5
BIO 151	92.3	0.5	72.0	4.9	2.7	1.7
Bisco 2668	90.2	3.5	72.3	4.4	2.8	2.3
CMH08-292	88.2	2.3	71.7	4.7	2.5	2.0
CMH08-350	88.1	1.9	71.3	4.6	2.2	2.2
KNMH401061	92.1	1.6	71.3	4.7	2.8	1.8
NMH-1242	89.8	3.0	71.1	4.7	2.7	1.5
P3396	99.7	1.9	71.7	4.4	2.7	2.3
S6217	94.3	3.0	71.9	4.6	2.5	1.2
S6304	91.2	2.3	71.3	4.7	2.7	2.0
TITAN	85.9	2.8	71.9	4.6	2.7	2.3
VMH 4106	94.4	2.5	71.9	4.6	2.3	1.5
X35A173	93.4	3.2	72.2	4.4	2.8	2.3
YUVRAJ GOLD	86.7	3.7	71.7	4.7	2.0	2.5
BIO 9637 (C)	90.7	2.1	71.6	4.6	2.3	2.0
PMH 4 (C)	86.6	4.4	72.0	4.6	2.5	2.5

C.D.(5%)Bi-Bj	2.1	2.5	0.2	0.5	0.1	0.1
C.V.(%)ErrorB	2.5	110.7	0.3	11.9	6.1	6.9
F(5%)	s	n.s.	s	n.s.	s	s

## A82

**Table 9: Relative performance of pre-release germplasm of medium maturity at different NPK levels of during *Kharif* 2012 in zone IV.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)				
		Arabhazi	Hyderabad	Karimnagar	Kolhapur	Vagarai
100:40:30	B 63	9092	8359	7614	5389	4895
	BIO 151	9732	8254	8971	5073	6135
	CMH08-292	9380	7042	8740	5422	5019
	CMH08-433	9039	7840	8522	5242	5727
	NMH-1242	9852	10523	8363	4422	5731
	S6217	10106	8108	9832	5922	5163
	S6304	9180	8402	8370	4224	5931
	X35A173	8177	7336	8852	5551	5865
	X35A174	9967	8179	7740	4942	6640
	YUVRAJ GOLD	6121	9301	10042	4951	6518
	BIO 9637 (C)	9200	9284	7255	4738	4955
	PMH 4 (C)	8528	8750	8132	4731	5199
150:50:40	B 63	10331	9026	7991	6002	5308
	BIO 151	10262	8008	9669	6616	7741
	CMH08-292	9158	8468	9198	6702	6068
	CMH08-433	10284	8204	8684	6742	6447
	NMH-1242	10683	10135	8937	6429	6204
	S6217	10748	8394	10926	7807	5205
	S6304	10164	7897	9397	5727	5897
	X35A173	9030	7743	10002	6242	6278
	X35A174	10614	8697	9007	6284	6915
	YUVRAJ GOLD	8127	8512	11209	5916	6853
	BIO 9637 (C)	9994	9149	8227	6060	5337
	PMH 4 (C)	8658	7677	9341	5924	6181
200:60:50	B 63	10923	7536	9319	8220	6027
	BIO 151	11305	8068	10265	7082	8670
	CMH08-292	9697	7893	10152	6864	7233
	CMH08-433	10019	8407	9219	7944	6610
	NMH-1242	10541	7425	9697	7131	5643
	S6217	12111	7826	11124	7964	5781
	S6304	9893	7226	10933	7036	6987
	X35A173	9184	7066	11146	7527	6752
	X35A174	10849	8133	10105	7131	7605
	YUVRAJ GOLD	8262	8545	11515	7249	6852
	BIO 9637 (C)	8967	8818	9234	6842	5033
	PMH 4 (C)	8760	7301	9918	6789	6023

Cont...

## A83

	Grain yield (kg/ha)				
	Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
Location mean	9637.1	8264.7	9379.1	6245.6	6150.8
C.D.(5%) AiBj-AiBk	1121.4	1110.5	1201.5	674.2	437.6
C.D.(5%) AiBk-AjBk	1416.8	1128.3	1184.1	770.3	543.2
F(5%)	n.s.	s	n.s.	s	s

100:40:30	9031	8448	8536	5051	5648
150:50:40	9838	8492	9382	6371	6203
200:60:50	10043	7854	10219	7315	6601

C.D.(5%) Ai-Aj	951.5	392.3	291.8	434.4	356.0
C.V.(%) Error A	15.1	7.3	4.8	10.6	8.8
F(5%)	n.s.	s	s	s	s

B 63	10115	8307	8308	6537	5410
BIO 151	10433	8110	9635	6257	7515
CMH08-292	9412	7801	9364	6330	6107
CMH08-433	9780	8150	8808	6643	6261
NMH-1242	10359	9361	8999	5994	5859
S6217	10988	8109	10627	7231	5383
S6304	9746	7842	9566	5662	6272
X35A173	8797	7381	10000	6440	6299
X35A174	10477	8336	8951	6119	7054
YUVRAJ GOLD	7503	8786	10922	6039	6741
BIO 9637 (C)	9387	9084	8239	5880	5108
PMH 4 (C)	8648	7909	9130	5815	5801

C.D.(5%)Bi-Bj	647.4	641.1	693.7	389.3	252.7
C.V.(%)ErrorB	7.1	8.2	7.9	6.6	4.4
F(5%)	s	s	s	s	s

Cont...

## A84

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
100:40:30	B 63	11333	9385	9596	6573	5865
	BIO 151	12600	9009	10981	6167	7303
	CMH08-292	11600	9452	10985	6593	6112
	CMH08-433	12200	10297	11074	6424	7188
	NMH-1242	12200	11059	10178	5318	6637
	S6217	12689	8705	13004	7247	6144
	S6304	11822	8669	10233	5076	6836
	X35A173	10356	7911	10991	6644	6884
	X35A174	12578	9608	9522	5949	7800
	YUVRAJ GOLD	7667	10172	12363	5971	7628
	BIO 9637 (C)	11600	10331	8818	5678	6035
	PMH 4 (C)	10400	9198	10385	5687	6345
150:50:40	B 63	12667	11125	10004	7318	6303
	BIO 151	12867	11356	11452	7973	8972
	CMH08-292	11511	7842	11319	8140	7528
	CMH08-433	12822	10658	11222	8249	8144
	NMH-1242	13156	11573	10463	7769	7146
	S6217	13578	10612	13822	9467	6308
	S6304	13067	11315	11470	6904	7339
	X35A173	11044	12657	12183	7478	7236
	X35A174	12800	11734	11022	7516	8179
	YUVRAJ GOLD	10089	11570	13515	7082	8037
	BIO 9637 (C)	12400	11808	10385	7231	6338
	PMH 4 (C)	11111	10213	11359	7073	7144
200:60:50	B 63	13244	10301	11085	9951	7197
	BIO 151	14178	10245	12389	8544	10185
	CMH08-292	12000	8118	12218	8378	8646
	CMH08-433	12622	9329	11711	9616	8340
	NMH-1242	13000	12527	11263	8562	7275
	S6217	15444	9731	13718	9691	6894
	S6304	12289	9744	13044	8429	8412
	X35A173	11467	8333	13400	8947	7832
	X35A174	13622	10313	12097	8571	9039
	YUVRAJ GOLD	10622	11232	13659	8656	8157
	BIO 9637 (C)	11222	10693	11474	8218	6313
	PMH 4 (C)	11000	10777	11900	8149	7231

Cont...

## A85

	Cob yield (kg/ha)				
	Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
Location mean	12079.6	10211.1	11508.5	7534.4	7360.3
C.D.(5%) AiBj-AiBk	1359.6	1945.6	1104.3	799.8	411.7
C.D.(5%) AiBk-AjBk	1672.2	2178.3	1122.4	928.8	450.9
F(5%)	n.s.	s	n.s.	s	s

100:40:30	11420	9483	10678	6111	6731
150:50:40	12259	11039	11518	7683	7390
200:60:50	12559	10112	12330	8809	7960

C.D.(5%) Ai-Aj	1081.4	1168.0	391.3	542.8	226.8
C.V.(%) Error A	13.7	17.5	5.2	11.0	4.7
F(5%)	n.s.	n.s.	s	s	s

B 63	12415	10270	10228	7947	6455
BIO 151	13215	10203	11607	7561	8820
CMH08-292	11704	8470	11507	7704	7428
CMH08-433	12548	10094	11336	8096	7890
NMH-1242	12785	11720	10635	7216	7019
S6217	13904	9683	13515	8801	6448
S6304	12393	9909	11583	6803	7529
X35A173	10956	9634	12191	7690	7317
X35A174	13000	10552	10880	7345	8339
YUVRAJ GOLD	9459	10991	13179	7236	7941
BIO 9637 (C)	11741	10944	10226	7042	6228
PMH 4 (C)	10837	10063	11215	6970	6906

C.D.(5%)Bi-Bj	785.0	1123.3	637.5	461.8	237.7
C.V.(%)ErrorB	6.9	11.7	5.9	6.5	3.4
F(5%)	s	s	s	s	s

Cont...



## A86

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Fodder yield (kg/ha)	No. of plants ('000/ha)			
		Arabhavi	Arabhavi	Hyderabad	Kolhapur	Vagarai
100:40:30	B 63	7644	51.3	50.2	60.7	63.2
	BIO 151	8156	55.1	47.6	63.6	63.2
	CMH08-292	10111	48.4	47.8	62.2	63.0
	CMH08-433	8889	50.0	53.8	62.9	64.6
	NMH-1242	5689	58.2	52.4	64.7	65.7
	S6217	6356	59.8	52.4	63.1	64.1
	S6304	8156	53.1	53.3	62.9	63.4
	X35A173	7511	44.2	48.0	65.1	62.0
	X35A174	7733	55.1	48.2	63.3	64.8
	YUVRAJ GOLD	4533	51.8	51.1	64.9	64.1
	BIO 9637 (C)	6756	53.1	48.7	63.6	63.0
	PMH 4 (C)	6200	55.8	49.1	65.8	64.8
150:50:40	B 63	9244	50.4	47.1	66.4	64.4
	BIO 151	8000	53.1	53.3	63.6	64.4
	CMH08-292	11267	49.3	49.1	65.3	64.1
	CMH08-433	10489	53.6	46.0	65.8	62.7
	NMH-1242	7133	55.1	51.3	66.7	63.7
	S6217	6511	57.3	52.9	66.4	64.1
	S6304	8089	55.1	52.9	64.7	64.4
	X35A173	7733	43.8	50.7	63.6	63.7
	X35A174	8400	55.3	55.6	64.4	65.3
	YUVRAJ GOLD	5933	55.6	53.6	66.2	64.1
	BIO 9637 (C)	7689	56.2	55.8	66.2	64.4
	PMH 4 (C)	6311	56.7	47.3	62.7	62.5
200:60:50	B 63	9311	55.6	50.4	65.1	64.4
	BIO 151	9022	52.7	48.4	65.6	65.0
	CMH08-292	10889	50.4	46.9	63.8	64.1
	CMH08-433	10933	50.2	50.0	64.2	63.4
	NMH-1242	6867	56.0	52.9	65.6	63.7
	S6217	7467	55.6	48.9	62.2	63.9
	S6304	8022	54.0	46.7	65.1	63.9
	X35A173	7200	41.3	44.7	64.4	63.7
	X35A174	9311	54.7	54.7	66.7	62.5
	YUVRAJ GOLD	5089	54.9	52.9	64.7	63.7
	BIO 9637 (C)	6978	55.1	54.2	63.1	63.9
	PMH 4 (C)	6667	54.0	52.0	61.6	64.4

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## A87

	Fodder yield (kg/ha)	No. of plants ('000/ha)			
		Arabhavi	Hyderabad	Kolhapur	Vagarai
Location mean	7841.4	53.1	50.6	64.4	63.9
C.D.(5%) AiBj-AiBk	1680.4	5.9	4.7	3.4	2.2
C.D.(5%) AiBk-AjBk	1714.1	5.9	5.1	4.1	2.5
F(5%)	n.s.	n.s.	s	n.s.	n.s.

100:40:30	7311	53.0	50.2	63.6	63.8
150:50:40	8067	53.5	51.3	65.2	64.0
200:60:50	8146	52.9	50.2	64.3	63.9

C.D.(5%) Ai-Aj	614.3	1.9	2.5	2.6	1.4
C.V.(%) Error A	12.0	5.6	7.6	6.1	3.3
F(5%)	s	n.s.	n.s.	n.s.	n.s.

B 63	8733	52.4	49.3	64.1	64.0
BIO 151	8393	53.6	49.8	64.2	64.2
CMH08-292	10756	49.4	47.9	63.8	63.7
CMH08-433	10104	51.3	49.9	64.3	63.6
NMH-1242	6563	56.4	52.2	65.6	64.4
S6217	6778	57.6	51.4	63.9	64.0
S6304	8089	54.1	51.0	64.2	63.9
X35A173	7481	43.1	47.8	64.4	63.1
X35A174	8481	55.0	52.8	64.8	64.2
YUVRAJ GOLD	5185	54.1	52.5	65.3	64.0
BIO 9637 (C)	7141	54.8	52.9	64.3	63.7
PMH 4 (C)	6393	55.5	49.5	63.3	63.9

C.D.(5%)Bi-Bj	970.2	3.4	2.7	2.0	1.3
C.V.(%)ErrorB	13.1	6.8	5.7	3.2	2.1
F(5%)	s	s	s	n.s.	n.s.

Cont...

## A88

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			Single cob weight (g)	Grain weight (g)/cob
		Arabhavi	Hyderabad	Vagarai	Karimnagar	Karimnagar
100:40:30	B 63	54.0	47.8	62.3	132.7	105.0
	BIO 151	58.4	46.9	63.9	185.7	152.0
	CMH08-292	52.4	50.0	59.3	182.7	152.7
	CMH08-433	48.4	49.6	61.1	211.7	162.7
	NMH-1242	60.9	53.3	62.5	188.3	141.7
	S6217	58.9	46.7	62.5	201.3	146.7
	S6304	50.0	48.9	62.3	187.0	125.7
	X35A173	47.1	36.7	60.2	211.7	178.3
	X35A174	55.3	54.0	63.7	191.0	159.3
	YUVRAJ GOLD	52.2	53.8	63.7	228.0	187.7
	BIO 9637 (C)	55.6	48.0	62.3	179.7	158.0
	PMH 4 (C)	56.2	47.3	63.0	172.3	144.7
150:50:40	B 63	51.8	46.9	63.0	148.0	118.0
	BIO 151	54.7	51.3	63.9	200.3	154.0
	CMH08-292	49.8	54.7	63.4	197.0	163.7
	CMH08-433	53.8	47.8	61.1	212.0	166.7
	NMH-1242	56.0	48.9	63.4	195.3	166.7
	S6217	58.7	55.1	64.1	210.3	159.0
	S6304	53.1	55.3	64.4	190.3	155.3
	X35A173	41.8	51.3	62.5	215.3	183.0
	X35A174	57.8	54.9	64.4	205.0	176.0
	YUVRAJ GOLD	55.6	50.0	63.4	239.3	201.7
	BIO 9637 (C)	55.8	53.1	63.2	201.0	164.7
	PMH 4 (C)	58.2	43.1	60.9	197.3	163.0
200:60:50	B 63	54.9	51.6	63.4	174.7	146.7
	BIO 151	54.4	48.7	63.4	209.3	180.7
	CMH08-292	50.2	47.6	62.3	210.3	167.3
	CMH08-433	49.3	49.3	63.2	220.7	168.3
	NMH-1242	58.4	52.0	62.7	251.3	201.0
	S6217	57.3	50.7	63.9	213.3	170.3
	S6304	51.8	46.7	62.3	203.0	171.7
	X35A173	42.4	42.2	64.8	236.3	199.0
	X35A174	57.1	52.9	62.5	230.0	202.3
	YUVRAJ GOLD	57.6	52.7	63.0	245.0	204.0
	BIO 9637 (C)	57.1	49.8	62.3	231.7	171.0
	PMH 4 (C)	53.3	50.7	63.2	222.0	199.7

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## A89

	No. of cobs ('000/ha)			Single cob weight (g)	Grain weight (g)/cob
	Arabhavi	Hyderabad	Vagarai	Karimnagar	Karimnagar
Location mean	53.9	49.7	62.8	203.6	165.8
C.D.(5%) AiBj-AiBk	7.1	4.4	3.8	26.7	18.4
C.D.(5%) AiBk-AjBk	7.2	4.4	4.1	26.8	19.6
F(5%)	n.s.	s	n.s.	n.s.	s
100:40:30	54.1	48.6	62.2	189.3	151.2
150:50:40	53.9	51.0	63.1	200.9	164.3
200:60:50	53.7	49.6	63.1	220.6	181.8
C.D.(5%) Ai-Aj	2.5	1.4	1.9	8.2	8.8
C.V.(%) Error A	7.2	4.2	4.5	6.1	8.1
F(5%)	n.s.	s	n.s.	s	s
B 63	53.6	48.7	62.9	151.8	123.2
BIO 151	55.9	49.0	63.7	198.4	162.2
CMH08-292	50.8	50.7	61.7	196.7	161.2
CMH08-433	50.5	48.9	61.8	214.8	165.9
NMH-1242	58.4	51.4	62.9	211.7	169.8
S6217	58.3	50.8	63.5	208.3	158.7
S6304	51.6	50.3	63.0	193.4	150.9
X35A173	43.8	43.4	62.5	221.1	186.8
X35A174	56.7	53.9	63.5	208.7	179.2
YUVRAJ GOLD	55.1	52.1	63.3	237.4	197.8
BIO 9637 (C)	56.1	50.3	62.6	204.1	164.6
PMH 4 (C)	55.9	47.0	62.3	197.2	169.1
C.D.(5%)Bi-Bj	4.1	2.5	2.2	15.4	10.6
C.V.(%)ErrorB	8.0	5.4	3.7	8.0	6.8
F(5%)	s	s	n.s.	s	s

Cont...

## A90

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
100:40:30	B 63	154.7	174.4	188.7	161.3	151.9
	BIO 151	159.7	151.7	186.3	145.3	136.7
	CMH08-292	165.3	204.5	195.7	178.0	149.2
	CMH08-433	171.5	205.9	216.0	178.7	151.1
	NMH-1242	141.7	349.0	210.7	174.7	152.4
	S6217	153.3	172.2	211.0	161.0	130.7
	S6304	160.0	163.7	192.7	163.7	137.3
	X35A173	166.7	197.8	189.3	182.3	152.2
	X35A174	159.7	179.6	203.0	168.7	143.2
	YUVRAJ GOLD	170.0	169.1	193.3	168.7	149.1
	BIO 9637 (C)	187.7	187.9	223.0	159.3	139.7
	PMH 4 (C)	167.7	163.9	203.7	169.0	140.7
150:50:40	B 63	164.7	177.0	202.0	164.7	152.2
	BIO 151	169.3	155.8	188.0	169.3	153.9
	CMH08-292	170.3	210.2	227.0	187.3	166.6
	CMH08-433	164.7	209.2	233.3	188.7	154.3
	NMH-1242	163.7	181.8	214.0	187.3	153.7
	S6217	154.3	176.4	213.7	182.7	152.5
	S6304	158.0	169.0	195.7	170.3	141.9
	X35A173	173.0	206.2	228.0	203.0	159.5
	X35A174	171.7	187.5	216.7	186.7	145.7
	YUVRAJ GOLD	178.7	175.5	210.7	188.0	148.8
	BIO 9637 (C)	177.0	197.2	227.0	192.0	150.1
	PMH 4 (C)	174.0	169.0	208.3	179.3	165.0
200:60:50	B 63	170.0	182.8	206.3	183.7	156.1
	BIO 151	163.3	165.8	190.0	176.3	170.3
	CMH08-292	162.3	210.1	232.3	204.7	179.1
	CMH08-433	157.7	214.3	242.0	205.3	179.7
	NMH-1242	161.3	181.3	216.0	191.3	180.0
	S6217	144.3	183.7	219.3	190.0	169.7
	S6304	167.7	176.5	204.7	180.0	158.3
	X35A173	157.3	212.6	234.7	210.0	166.0
	X35A174	167.0	189.3	221.7	198.7	150.9
	YUVRAJ GOLD	163.7	177.3	219.3	203.0	150.6
	BIO 9637 (C)	171.3	196.7	230.7	206.3	164.3
	PMH 4 (C)	166.7	189.1	227.0	189.3	164.7

Cont...

# A91

	Plant height (cm)				
	Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
Location mean	164.7	189.3	211.7	181.9	154.7
C.D.(5%) AiBj-AiBk	17.4	86.1	17.1	7.3	7.7
C.D.(5%) AiBk-AjBk	22.1	89.5	18.3	7.4	9.3
F(5%)	n.s.	n.s.	n.s.	s	s

100:40:30	163.2	193.3	201.1	167.6	144.5
150:50:40	168.3	184.6	213.7	183.3	153.7
200:60:50	162.7	190.0	220.3	194.9	165.8

C.D.(5%) Ai-Aj	15.0	36.2	8.3	2.7	5.9
C.V.(%) Error A	13.9	29.3	6.0	2.3	5.8
F(5%)	n.s.	n.s.	s	s	s

B 63	163.1	178.1	199.0	169.9	153.4
BIO 151	164.1	157.8	188.1	163.7	153.6
CMH08-292	166.0	208.3	218.3	190.0	164.9
CMH08-433	164.6	209.8	230.4	190.9	161.7
NMH-1242	155.6	237.4	213.6	184.4	162.0
S6217	150.7	177.4	214.7	177.9	151.0
S6304	161.9	169.7	197.7	171.3	145.8
X35A173	165.7	205.5	217.3	198.4	159.2
X35A174	166.1	185.5	213.8	184.7	146.6
YUVRAJ GOLD	170.8	174.0	207.8	186.6	149.5
BIO 9637 (C)	178.7	193.9	226.9	185.9	151.4
PMH 4 (C)	169.4	174.0	213.0	179.2	156.8

C.D.(5%)Bi-Bj	10.1	49.7	9.9	4.2	4.5
C.V.(%)ErrorB	6.5	27.9	5.0	2.4	3.1
F(5%)	s	n.s.	s	s	s

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## A92

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)				No. of leaves/plant
		Arabhazi	Hyderabad	Karimnagar	Vagarai	Arabhazi
100:40:30	B 63	80.3	88.4	98.0	76.1	12.3
	BIO 151	76.0	72.4	87.3	68.5	12.5
	CMH08-292	77.7	99.2	112.0	76.7	12.6
	CMH08-433	76.7	112.2	104.7	77.1	12.8
	NMH-1242	65.7	61.8	82.7	77.1	12.5
	S6217	73.7	92.1	106.3	64.4	12.8
	S6304	74.3	81.5	91.0	69.4	12.6
	X35A173	78.3	91.8	114.0	76.9	12.7
	X35A174	75.3	86.2	94.3	74.3	12.5
	YUVRAJ GOLD	72.3	86.7	94.0	75.2	11.1
	BIO 9637 (C)	87.3	87.3	100.3	70.1	12.7
	PMH 4 (C)	80.0	69.5	89.3	69.5	11.9
150:50:40	B 63	81.0	88.7	99.3	77.7	12.9
	BIO 151	80.0	82.7	96.0	78.8	12.3
	CMH08-292	84.3	106.7	112.7	80.9	12.1
	CMH08-433	85.0	118.0	113.3	76.0	11.8
	NMH-1242	80.0	71.1	86.3	78.0	12.5
	S6217	83.3	96.3	107.7	76.4	12.5
	S6304	73.0	71.3	93.3	70.5	12.1
	X35A173	78.0	93.0	107.0	79.7	12.0
	X35A174	86.3	95.3	100.7	74.0	11.3
	YUVRAJ GOLD	88.0	94.3	99.3	75.7	12.9
	BIO 9637 (C)	83.0	93.0	100.3	75.7	12.3
	PMH 4 (C)	81.0	74.3	90.0	79.1	12.3
200:60:50	B 63	81.0	87.5	102.7	79.3	12.9
	BIO 151	78.0	78.8	99.7	84.0	12.2
	CMH08-292	78.7	100.5	124.0	89.1	12.3
	CMH08-433	75.0	106.0	118.7	88.5	12.1
	NMH-1242	74.7	64.3	90.7	88.1	12.3
	S6217	69.3	88.1	108.3	86.4	12.2
	S6304	83.7	67.3	94.3	79.7	12.2
	X35A173	71.0	84.7	113.0	83.6	11.6
	X35A174	79.0	85.0	103.7	76.4	12.3
	YUVRAJ GOLD	78.0	84.2	101.7	76.1	12.7
	BIO 9637 (C)	83.7	90.6	100.3	82.7	11.9
	PMH 4 (C)	76.0	86.9	97.0	81.1	11.9

Cont...

## A93

	Ear height (cm)				No. of leaves/plant
	Arabhavi	Hyderabad	Karimnagar	Vagarai	Arabhavi
Location mean	78.6	87.2	100.9	77.6	12.3
C.D.(5%) AiBj-AiBk	10.6	10.5	10.3	4.9	1.2
C.D.(5%) AiBk-AjBk	13.1	11.7	11.4	5.7	1.2
F(5%)	n.s.	n.s.	n.s.	s	n.s.

100:40:30	76.5	85.8	97.8	72.9	12.4
150:50:40	81.9	90.4	100.5	76.9	12.3
200:60:50	77.3	85.3	104.5	82.9	12.2

C.D.(5%) Ai-Aj	8.4	6.2	5.9	3.3	0.4
C.V.(%) Error A	16.4	10.9	8.9	6.4	4.8
F(5%)	n.s.	n.s.	n.s.	s	n.s.

B 63	80.8	88.2	100.0	77.7	12.7
BIO 151	78.0	78.0	94.3	77.1	12.3
CMH08-292	80.2	102.1	116.2	82.2	12.4
CMH08-433	78.9	112.1	112.2	80.5	12.2
NMH-1242	73.4	65.7	86.6	81.1	12.4
S6217	75.4	92.2	107.4	75.8	12.5
S6304	77.0	73.4	92.9	73.2	12.3
X35A173	75.8	89.8	111.3	80.1	12.1
X35A174	80.2	88.9	99.6	74.9	12.0
YUVRAJ GOLD	79.4	88.4	98.3	75.7	12.2
BIO 9637 (C)	84.7	90.3	100.3	76.2	12.3
PMH 4 (C)	79.0	76.9	92.1	76.6	12.0

C.D.(5%)Bi-Bj	6.1	6.1	6.0	2.8	0.7
C.V.(%)ErrorB	8.3	7.4	6.3	3.9	6.1
F(5%)	n.s.	s	s	s	n.s.

Cont...



## A94

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling			
		Arabhavi	Hyderabad	Karimnagar	Vagarai
100:40:30	B 63	60.0	54.3	48.0	52.3
	BIO 151	59.3	56.3	49.7	51.0
	CMH08-292	60.0	56.0	48.0	51.7
	CMH08-433	59.7	54.3	47.0	52.0
	NMH-1242	58.3	54.3	49.3	50.0
	S6217	60.0	54.0	48.0	52.7
	S6304	59.3	55.7	47.3	51.3
	X35A173	59.0	57.0	49.0	52.7
	X35A174	58.7	57.7	47.3	50.0
	YUVRAJ GOLD	58.0	57.7	49.0	51.3
	BIO 9637 (C)	59.7	58.3	48.3	50.7
	PMH 4 (C)	57.7	56.3	47.7	49.0
150:50:40	B 63	59.3	55.3	49.0	52.0
	BIO 151	60.3	56.3	49.3	53.0
	CMH08-292	60.3	57.3	48.3	52.0
	CMH08-433	59.0	55.3	47.3	53.3
	NMH-1242	59.0	54.0	48.0	50.0
	S6217	58.3	54.7	47.7	52.3
	S6304	58.7	57.0	47.7	53.0
	X35A173	58.7	57.7	49.7	52.3
	X35A174	58.7	57.7	48.3	50.3
	YUVRAJ GOLD	59.7	58.0	49.0	51.7
	BIO 9637 (C)	59.0	58.7	46.7	50.3
	PMH 4 (C)	58.7	57.7	48.3	49.3
200:60:50	B 63	57.7	56.0	46.7	53.3
	BIO 151	60.3	57.0	47.7	50.7
	CMH08-292	59.7	57.7	49.3	51.7
	CMH08-433	59.7	58.0	48.3	53.0
	NMH-1242	58.3	57.0	49.3	49.0
	S6217	60.0	57.3	48.0	52.0
	S6304	58.3	57.3	47.3	54.0
	X35A173	60.3	56.0	46.7	53.3
	X35A174	60.3	58.0	50.0	51.7
	YUVRAJ GOLD	60.7	57.7	48.0	50.7
	BIO 9637 (C)	58.7	58.0	48.7	49.7
	PMH 4 (C)	59.0	56.3	48.0	49.0

Cont...

## A95

	Days to 50% tasseling			
	Arabhavi	Hyderabad	Karimnagar	Vagarai
Location mean	59.2	56.6	48.2	51.5
C.D.(5%) AiBj-AiBk	1.6	1.0	2.6	2.2
C.D.(5%) AiBk-AjBk	1.6	1.1	3.1	2.9
F(5%)	s	s	n.s.	n.s.

100:40:30	59.1	56.0	48.2	51.2
150:50:40	59.1	56.6	48.3	51.6
200:60:50	59.4	57.2	48.2	51.5

C.D.(5%) Ai-Aj	0.5	0.6	1.9	2.0
C.V.(%) Error A	1.2	1.6	6.1	6.0
F(5%)	n.s.	s	n.s.	n.s.

B 63	59.0	55.2	47.9	52.6
BIO 151	60.0	56.6	48.9	51.6
CMH08-292	60.0	57.0	48.6	51.8
CMH08-433	59.4	55.9	47.6	52.8
NMH-1242	58.6	55.1	48.9	49.7
S6217	59.4	55.3	47.9	52.3
S6304	58.8	56.7	47.4	52.8
X35A173	59.3	56.9	48.4	52.8
X35A174	59.2	57.8	48.6	50.7
YUVRAJ GOLD	59.4	57.8	48.7	51.2
BIO 9637 (C)	59.1	58.3	47.9	50.2
PMH 4 (C)	58.4	56.8	48.0	49.1

C.D.(5%)Bi-Bj	0.9	0.6	1.5	1.3
C.V.(%)ErrorB	1.6	1.1	3.3	2.7
F(5%)	s	s	n.s.	s

Cont...

## A96

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking				1000 seed weight (g)	
		Arabhavi	Hyderabad	Kolhapur	Vagarai	Hyderabad	Karimnagar
100:40:30	B 63	61.0	56.3	63.7	55.7	396.7	360.0
	BIO 151	60.3	58.7	64.7	54.7	400.0	296.7
	CMH08-292	60.0	58.0	61.0	53.7	420.0	343.3
	CMH08-433	62.0	56.3	61.7	54.3	420.0	346.7
	NMH-1242	60.3	56.3	62.0	55.3	386.7	270.0
	S6217	60.7	56.0	64.3	55.0	380.0	283.3
	S6304	60.3	57.7	61.7	55.7	440.0	296.7
	X35A173	59.3	58.3	63.7	55.3	386.7	343.3
	X35A174	59.7	59.3	60.7	54.3	366.7	333.3
	YUVRAJ GOLD	59.7	59.0	63.3	54.3	393.3	366.7
	BIO 9637 (C)	60.7	60.0	63.0	53.7	400.0	380.0
	PMH 4 (C)	60.0	58.3	59.7	53.0	393.3	323.3
150:50:40	B 63	61.7	57.0	62.7	54.7	433.3	376.7
	BIO 151	61.0	58.3	62.7	56.7	373.3	313.3
	CMH08-292	60.7	59.3	60.3	55.0	433.3	360.0
	CMH08-433	59.0	58.0	61.3	56.7	426.7	340.0
	NMH-1242	60.7	56.7	59.3	55.3	386.7	300.0
	S6217	60.0	56.7	62.7	55.7	393.3	316.7
	S6304	60.3	59.0	61.3	55.7	466.7	273.3
	X35A173	60.7	59.0	61.0	55.0	433.3	350.0
	X35A174	59.0	59.7	59.3	54.7	413.3	336.7
	YUVRAJ GOLD	59.0	59.3	59.0	55.0	453.3	373.3
	BIO 9637 (C)	59.3	60.3	60.0	52.7	453.3	390.0
	PMH 4 (C)	59.3	59.7	59.3	53.0	436.7	350.0
200:60:50	B 63	58.0	58.3	59.0	55.3	446.7	380.0
	BIO 151	61.3	58.7	62.3	54.3	400.0	310.0
	CMH08-292	60.0	58.7	60.3	55.0	390.0	363.3
	CMH08-433	59.3	59.0	60.3	55.0	413.3	360.0
	NMH-1242	58.7	59.0	59.3	54.3	386.7	336.7
	S6217	60.3	59.3	61.7	55.7	380.0	333.3
	S6304	59.7	59.3	60.3	57.0	463.3	343.3
	X35A173	61.0	58.3	61.3	57.0	393.3	353.3
	X35A174	61.3	59.7	60.0	55.3	400.0	350.0
	YUVRAJ GOLD	60.3	59.3	59.3	54.7	470.0	423.3
	BIO 9637 (C)	60.0	60.3	58.7	52.7	453.3	396.7
	PMH 4 (C)	60.0	58.7	57.7	52.3	426.7	356.7

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## A97

	Days to 50% silking				1000 seed weight (g)	
	Arabhavi	Hyderabad	Kolhapur	Vagarai	Hyderabad	Karimnagar
Location mean	60.1	58.5	61.1	54.8	414.2	342.5
C.D.(5%) AiBj-AiBk	1.8	1.4	1.3	2.4	38.9	39.3
C.D.(5%) AiBk-AjBk	2.0	1.4	1.2	2.8	38.7	43.8
F(5%)	s	s	s	n.s.	s	n.s.

100:40:30	60.3	57.9	62.4	54.6	398.6	328.6
150:50:40	60.1	58.6	60.8	55.0	425.3	340.0
200:60:50	60.0	59.1	60.0	54.9	418.6	358.9

C.D.(5%) Ai-Aj	0.9	0.3	0.3	1.7	10.7	23.2
C.V.(%) Error A	2.4	0.7	0.7	4.8	4.0	10.4
F(5%)	n.s.	s	s	n.s.	s	n.s.

B 63	60.2	57.2	61.8	55.2	425.6	372.2
BIO 151	60.9	58.6	63.2	55.2	391.1	306.7
CMH08-292	60.2	58.7	60.6	54.6	414.4	355.6
CMH08-433	60.1	57.8	61.1	55.3	420.0	348.9
NMH-1242	59.9	57.3	60.2	55.0	386.7	302.2
S6217	60.3	57.3	62.9	55.4	384.4	311.1
S6304	60.1	58.7	61.1	56.1	456.7	304.4
X35A173	60.3	58.6	62.0	55.8	404.4	348.9
X35A174	60.0	59.6	60.0	54.8	393.3	340.0
YUVRAJ GOLD	59.7	59.2	60.6	54.7	438.9	387.8
BIO 9637 (C)	60.0	60.2	60.6	53.0	435.6	388.9
PMH 4 (C)	59.8	58.9	58.9	52.8	418.9	343.3

C.D.(5%)Bi-Bj	1.1	0.8	0.7	1.4	22.5	22.7
C.V.(%)ErrorB	1.9	1.5	1.3	2.6	5.8	7.0
F(5%)	n.s.	s	s	s	s	s

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## A98

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Shelling (%)				Moisture (%)
		Arabhavi	Hyderabad	Karimnagar	Vagarai	Arabhavi
100:40:30	B 63	80.2	74.4	79.3	83.4	23.2
	BIO 151	77.3	79.8	81.6	84.0	24.4
	CMH08-292	80.9	74.6	79.7	82.0	22.5
	CMH08-433	74.1	76.9	76.9	79.7	22.3
	NMH-1242	80.7	82.2	82.1	86.4	23.1
	S6217	79.5	79.3	75.8	84.0	22.2
	S6304	77.6	72.7	81.8	86.8	23.8
	X35A173	79.0	75.0	80.6	85.3	22.1
	X35A174	79.3	74.0	81.3	85.2	22.3
	YUVRAJ GOLD	79.7	74.7	81.3	85.5	21.1
	BIO 9637 (C)	79.4	80.3	82.3	82.1	22.2
	PMH 4 (C)	82.0	81.2	78.4	81.9	19.1
150:50:40	B 63	81.6	81.1	79.9	84.2	22.3
	BIO 151	79.8	71.1	84.4	86.3	23.5
	CMH08-292	79.6	76.7	81.3	80.5	23.0
	CMH08-433	80.5	77.5	77.4	79.2	23.1
	NMH-1242	81.2	83.5	85.5	86.9	24.3
	S6217	79.2	79.4	78.9	82.6	23.2
	S6304	77.8	70.7	82.1	80.3	22.2
	X35A173	81.8	61.2	82.1	86.8	22.3
	X35A174	83.1	73.9	81.7	84.6	22.4
	YUVRAJ GOLD	80.6	74.2	82.9	85.3	19.7
	BIO 9637 (C)	80.5	78.5	79.3	84.2	22.4
	PMH 4 (C)	77.9	75.2	82.2	86.5	21.3
200:60:50	B 63	82.4	73.8	84.0	83.7	22.4
	BIO 151	79.6	79.0	82.7	85.1	23.4
	CMH08-292	80.8	74.7	83.1	83.6	21.6
	CMH08-433	79.4	75.3	78.7	79.3	23.7
	NMH-1242	81.1	81.3	86.1	77.8	23.8
	S6217	78.3	69.7	81.1	83.9	21.1
	S6304	80.6	74.2	83.7	83.0	21.8
	X35A173	80.1	75.0	83.2	86.2	22.2
	X35A174	79.6	75.1	83.4	84.2	21.9
	YUVRAJ GOLD	77.8	76.5	84.3	84.0	19.3
	BIO 9637 (C)	79.9	78.7	80.6	79.8	21.6
	PMH 4 (C)	79.7	77.7	83.2	83.3	19.7

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## A99

	Shelling (%)				Moisture (%)
	Arabhavi	Hyderabad	Karimnagar	Vagarai	Arabhavi
Location mean	79.8	76.1	81.5	83.5	22.2
C.D.(5%) AiBj-AiBk	4.4	9.0	5.7	4.9	2.0
C.D.(5%) AiBk-AjBk	4.5	9.2	6.1	5.6	2.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	79.1	77.1	80.1	83.9	22.3
150:50:40	80.3	75.3	81.5	83.9	22.5
200:60:50	80.0	75.9	82.8	82.8	21.9

C.D.(5%) Ai-Aj	1.7	3.4	2.7	3.2	0.7
C.V.(%) Error A	3.3	6.9	5.1	5.8	4.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

B 63	81.4	76.4	81.1	83.8	22.6
BIO 151	78.9	76.6	82.9	85.1	23.8
CMH08-292	80.5	75.3	81.3	82.1	22.4
CMH08-433	78.0	76.6	77.7	79.4	23.0
NMH-1242	81.0	82.4	84.6	83.7	23.7
S6217	79.0	76.1	78.6	83.5	22.2
S6304	78.6	72.5	82.5	83.4	22.6
X35A173	80.3	70.4	81.9	86.1	22.2
X35A174	80.7	74.3	82.1	84.6	22.2
YUVRAJ GOLD	79.4	75.1	82.8	84.9	20.0
BIO 9637 (C)	79.9	79.2	80.7	82.0	22.1
PMH 4 (C)	79.9	78.0	81.2	83.9	20.0

C.D.(5%)Bi-Bj	2.5	5.2	3.3	2.8	1.2
C.V.(%)ErrorB	3.3	7.2	4.3	3.6	5.6
F(5%)	n.s.	s	s	s	s

Cont...

## A100

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)			Cob girth (cm)	Cob width (cm)	
		Arab havi	Hyderabad	Karimnagar	Arabhavi	Hyderabad	Karimnagar
100:40:30	B 63	15.8	18.0	15.8	4.9	16.1	14.8
	BIO 151	14.2	20.3	18.0	4.4	15.2	15.1
	CMH08-292	16.8	20.3	17.9	4.8	15.2	15.5
	CMH08-433	17.7	20.9	18.6	4.9	16.0	14.5
	NMH-1242	14.6	19.2	16.5	4.7	16.2	16.1
	S6217	16.4	18.7	16.8	4.8	15.4	14.5
	S6304	15.7	17.4	17.6	4.2	15.9	14.8
	X35A173	17.8	17.7	17.3	5.0	15.4	14.8
	X35A174	16.2	17.5	17.5	4.7	16.2	16.4
	YUVRAJ GOLD	14.5	18.3	17.4	4.8	16.0	16.0
	BIO 9637 (C)	14.7	20.7	16.0	4.7	15.9	15.5
	PMH 4 (C)	15.7	15.9	16.5	5.0	15.9	15.7
150:50:40	B 63	15.2	19.0	16.4	5.0	15.8	15.4
	BIO 151	17.2	21.1	18.6	5.0	16.0	15.3
	CMH08-292	18.0	21.2	18.7	4.7	16.1	15.8
	CMH08-433	15.3	21.3	18.8	4.6	15.4	15.4
	NMH-1242	14.7	20.3	16.6	4.5	16.5	16.4
	S6217	16.1	20.9	17.4	5.0	15.2	15.4
	S6304	16.8	20.3	18.0	4.9	15.8	15.3
	X35A173	16.5	20.2	18.9	5.2	16.1	15.3
	X35A174	16.8	19.5	17.6	5.0	15.9	16.7
	YUVRAJ GOLD	15.4	18.5	18.7	4.8	17.0	16.7
	BIO 9637 (C)	13.7	21.0	19.3	4.8	16.0	16.0
	PMH 4 (C)	15.4	18.5	17.3	5.0	15.6	16.1
200:60:50	B 63	14.2	20.3	17.3	4.9	16.4	16.4
	BIO 151	17.0	21.6	18.5	4.7	15.2	15.6
	CMH08-292	16.0	22.5	19.4	4.9	15.2	16.0
	CMH08-433	16.4	20.6	19.8	4.7	15.0	15.9
	NMH-1242	14.8	20.9	18.0	4.5	17.5	17.1
	S6217	16.5	20.3	19.0	4.8	15.7	15.8
	S6304	16.5	20.9	18.8	4.6	15.2	15.7
	X35A173	17.1	18.8	18.8	5.0	15.5	15.6
	X35A174	16.2	20.2	17.7	5.0	15.8	17.0
	YUVRAJ GOLD	17.6	20.0	18.6	4.9	16.3	16.7
	BIO 9637 (C)	17.2	19.9	19.3	5.2	15.9	16.3
	PMH 4 (C)	18.3	19.9	19.0	4.9	16.4	16.3

Cont...

# A101

	Cob length (cm)			Cob girth (cm)	Cob width (cm)		
	Arabhazi	Hyderabad	Karimnagar	Arabhazi	Hyderabad	Karimnagar	
Location mean	16.1	19.8	18.0	4.8	15.9	15.8	
C.D.(5%) AiBj-AiBk	2.8	1.6	1.2	0.5	0.8	1.0	
C.D.(5%) AiBk-AjBk	3.3	1.6	1.3	0.6	0.9	1.2	
F(5%)	n.s.	s	s	n.s.	s	n.s.	

100:40:30	15.8	18.7	17.2	4.7	15.8	15.3
150:50:40	15.9	20.2	18.0	4.9	15.9	15.8
200:60:50	16.5	20.5	18.7	4.8	15.8	16.2

C.D.(5%) Ai-Aj	2.0	0.5	0.5	0.3	0.5	0.7
C.V.(%) Error A	18.6	3.9	4.3	9.9	4.5	7.0
F(5%)	n.s.	s	s	n.s.	n.s.	n.s.

B 63	15.1	19.1	16.5	4.9	16.1	15.5
BIO 151	16.2	21.0	18.4	4.7	15.5	15.3
CMH08-292	16.9	21.3	18.7	4.8	15.5	15.8
CMH08-433	16.5	21.0	19.1	4.8	15.5	15.3
NMH-1242	14.7	20.1	17.0	4.6	16.7	16.5
S6217	16.4	20.0	17.7	4.8	15.4	15.3
S6304	16.3	19.5	18.1	4.6	15.6	15.3
X35A173	17.1	18.9	18.3	5.1	15.7	15.2
X35A174	16.4	19.1	17.6	4.9	16.0	16.7
YUVRAJ GOLD	15.8	19.0	18.2	4.9	16.4	16.5
BIO 9637 (C)	15.2	20.5	18.2	4.9	16.0	15.9
PMH 4 (C)	16.5	18.1	17.6	5.0	16.0	16.0

C.D.(5%)Bi-Bj	1.6	0.9	0.7	0.3	0.4	0.6
C.V.(%)ErrorB	10.8	5.0	4.2	6.3	2.9	4.0
F(5%)	n.s.	s	s	s	s	s

**Cont...**



## A102

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. grains/kernel row			No. of kernel rows/cob		
		Arabhavi	Hyderabad	Karimnagar	Arabhavi	Hyderabad	Karimnagar
100:40:30	B 63	13.7	13.1	11.9	37.9	34.0	32.2
	BIO 151	13.9	13.5	13.4	34.6	39.6	28.8
	CMH08-292	15.2	13.6	13.5	39.6	38.0	33.6
	CMH08-433	14.9	14.4	14.0	37.3	36.8	25.9
	NMH-1242	16.0	16.5	16.8	37.9	38.2	28.1
	S6217	14.7	14.1	13.6	35.7	36.1	28.7
	S6304	15.7	12.9	12.9	37.5	31.1	23.8
	X35A173	14.5	14.7	14.1	39.0	39.1	34.8
	X35A174	15.5	16.3	16.9	32.3	33.4	29.3
	YUVRAJ GOLD	14.9	13.2	13.3	38.9	35.3	30.4
	BIO 9637 (C)	14.5	13.5	12.7	34.4	34.9	27.2
	PMH 4 (C)	15.1	14.5	14.1	33.4	32.3	32.3
150:50:40	B 63	13.9	14.7	12.3	33.7	38.0	33.9
	BIO 151	16.0	13.7	13.7	36.7	42.2	29.6
	CMH08-292	14.8	13.5	13.7	37.5	39.0	34.3
	CMH08-433	14.3	13.5	14.6	36.5	38.9	29.8
	NMH-1242	14.8	17.9	17.5	33.0	38.0	31.3
	S6217	13.9	15.7	14.3	32.7	38.7	29.0
	S6304	13.7	14.1	13.3	38.4	37.6	27.5
	X35A173	15.7	15.3	14.3	37.5	37.7	34.8
	X35A174	14.9	14.7	16.4	33.5	36.3	31.2
	YUVRAJ GOLD	14.1	13.9	13.5	34.4	37.5	32.8
	BIO 9637 (C)	14.1	13.6	13.3	35.6	40.1	29.0
	PMH 4 (C)	15.1	13.8	15.0	32.7	37.7	33.1
200:60:50	B 63	12.8	13.7	12.8	35.2	36.2	34.3
	BIO 151	13.6	14.5	14.2	38.4	41.5	31.8
	CMH08-292	14.5	14.5	14.0	36.5	34.0	35.1
	CMH08-433	15.2	14.1	14.7	34.9	34.5	30.7
	NMH-1242	15.5	15.6	17.8	33.7	36.1	34.8
	S6217	15.1	13.7	14.4	35.5	38.5	30.0
	S6304	14.5	13.3	14.0	38.3	36.3	33.7
	X35A173	15.1	14.5	15.2	38.6	35.1	35.7
	X35A174	14.4	14.0	16.4	35.7	37.4	32.9
	YUVRAJ GOLD	14.8	14.0	13.7	38.1	38.3	33.5
	BIO 9637 (C)	14.3	16.3	13.8	35.8	37.3	30.4
	PMH 4 (C)	14.7	15.3	15.2	38.4	36.6	35.5

Cont...

## A103

	No. grains row/cob			No. of grains/row		
	Arabhavi	Hyderabad	Karimnagar	Arabhavi	Hyderabad	Karimnagar
Location mean	14.7	14.4	14.3	36.1	37.0	31.4
C.D.(5%) AiBj-AiBk	2.0	1.6	1.1	5.9	2.7	4.6
C.D.(5%) AiBk-AjBk	2.1	1.5	1.0	6.2	2.7	4.4
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

100:40:30	14.9	14.2	13.9	36.5	35.7	29.6
150:50:40	14.6	14.5	14.3	35.2	38.5	31.4
200:60:50	14.5	14.5	14.7	36.6	36.8	33.2

C.D.(5%) Ai-Aj	0.9	0.2	0.2	2.5	0.9	0.7
C.V.(%) Error A	9.6	1.7	2.6	10.4	3.7	3.4
F(5%)	n.s.	s	s	n.s.	s	s

B 63	13.5	13.8	12.3	35.6	36.1	33.5
BIO 151	14.5	13.9	13.8	36.6	41.1	30.1
CMH08-292	14.8	13.9	13.7	37.9	37.0	34.3
CMH08-433	14.8	14.0	14.4	36.2	36.7	28.8
NMH-1242	15.4	16.7	17.3	34.9	37.4	31.4
S6217	14.5	14.5	14.1	34.6	37.7	29.2
S6304	14.7	13.5	13.4	38.1	35.0	28.3
X35A173	15.1	14.8	14.5	38.4	37.3	35.1
X35A174	14.9	15.0	16.6	33.8	35.7	31.1
YUVRAJ GOLD	14.6	13.7	13.5	37.1	37.0	32.2
BIO 9637 (C)	14.3	14.4	13.3	35.3	37.4	28.9
PMH 4 (C)	14.9	14.6	14.8	34.8	35.5	33.6

C.D.(5%)Bi-Bj	1.2	0.9	0.6	3.4	1.6	2.6
C.V.(%)ErrorB	8.5	6.8	4.5	10.1	4.5	9.0
F(5%)	n.s.	s	s	n.s.	s	s

# A104

**Table 10: Relative performance of pre-release germplasm of medium maturity at different NPK levels of during *Kharif* 2012 in zone V.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
100:40:30	B 63	4556	3156	5311	5602	5149	3530
	BH41009	4917	3067	3989	3493	3771	3030
	BIO 151	5583	3200	5467	4533	4302	4125
	CMH08-292	4000	2756	4800	5136	4641	3363
	CMH08-350	4417	2689	5122	4773	5117	2595
	CMH08-433	4556	2867	5089	4427	5194	2735
	EC-3161	3750	2667	3822	3558	3686	2323
	NMH-1242	4361	3822	3856	5187	3987	3428
	PFMH-96 N 46	3944	3467	5067	5053	4140	2520
	S6217	5806	3267	5489	5378	3835	4215
	X35A174	5111	3733	4900	4787	3829	3835
	YUVRAJ GOLD	4639	3022	4022	4898	4635	4330
	BIO 9637 (C)	5639	2644	4356	6880	4711	2928
	PMH 4 (C)	5000	3689	4967	5207	4070	2655
150:50:40	B 63	5111	4067	5567	6809	5508	3730
	BH41009	4972	3844	4200	3873	5441	3235
	BIO 151	5833	3911	6226	5833	5663	4330
	CMH08-292	5556	3556	6000	6507	5184	3508
	CMH08-350	4667	3600	5289	6400	6737	2830
	CMH08-433	4778	3956	5511	6342	6876	2923
	EC-3161	4889	3444	4611	4969	3849	2510
	NMH-1242	5778	4911	5456	6673	4829	3623
	PFMH-96 N 46	5056	4156	5611	6984	4844	2745
	S6217	6861	4111	6233	7364	4324	4423
	X35A174	5306	4667	5844	6404	4311	4115
	YUVRAJ GOLD	4806	3800	4378	6698	5562	4510
	BIO 9637 (C)	5722	3444	5089	6389	5778	3150
	PMH 4 (C)	5333	4756	5644	5716	4184	2828
200:60:50	B 63	5608	4133	6144	5689	5524	3825
	BH41009	5306	3800	5067	4956	5060	3330
	BIO 151	5944	4400	7133	7400	5340	4455
	CMH08-292	5639	3733	6289	6769	6083	3640
	CMH08-350	5667	3978	6067	6869	6514	2950
	CMH08-433	6389	4156	5867	5989	6349	3030
	EC-3161	6194	3800	4756	3922	3600	2638
	NMH-1242	7111	5267	6544	7531	4451	3750
	PFMH-96 N 46	5972	4356	6422	6360	4679	2838
	S6217	7250	4289	7244	6953	4552	4515
	X35A174	6056	5089	6244	7438	4254	4130
	YUVRAJ GOLD	6361	4089	4500	5404	4908	4625
	BIO 9637 (C)	7167	3978	5311	5171	4762	3248
	PMH 4 (C)	6139	5178	6400	3298	4654	2900

Cont...

## A105

	Grain yield (kg/ha)					
	Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
Location mean	5422.6	3821.7	5378.7	5705.3	4878.3	3427.1
C.D.(5%) AiBj-AiBk	1264.4	544.5	906.1	2233.5	697.9	487.4
C.D.(5%) AiBk-AjBk	1297.7	542.0	978.4	2650.5	730.7	487.3
F(5%)	n.s.	n.s.	n.s.	n.s.	s	s

100:40:30	4734	3146	4733	4922	4362	3258
150:50:40	5333	4016	5404	6212	5221	3461
200:60:50	6200	4303	5999	5982	5052	3562

C.D.(5%) Ai-Aj	464.3	141.3	457.7	1597.1	296.7	132.5
C.V.(%) Error A	14.1	6.1	14.0	46.2	10.0	8.4
F(5%)	s	s	s	n.s.	s	s

B 63	5092	3785	5674	6033	5394	3695
BH41009	5065	3570	4419	4107	4758	3198
BIO 151	5787	3837	6275	5922	5102	4303
CMH08-292	5065	3348	5696	6137	5303	3503
CMH08-350	4917	3422	5493	6014	6123	2792
CMH08-433	5241	3659	5489	5586	6140	2896
EC-3161	4944	3304	4396	4150	3711	2490
NMH-1242	5750	4667	5285	6464	4422	3600
PFMH-96 N 46	4991	3993	5700	6133	4554	2701
S6217	6639	3889	6322	6565	4237	4384
X35A174	5491	4496	5663	6210	4131	4027
YUVRAJ GOLD	5269	3637	4300	5667	5035	4488
BIO 9637 (C)	6176	3356	4919	6147	5084	3108
PMH 4 (C)	5491	4541	5670	4740	4303	2794

C.D.(5%)Bi-Bj	730.0	314.4	523.1	1289.5	402.9	281.4
C.V.(%)ErrorB	14.3	8.8	10.3	24.0	8.8	10.2
F(5%)	s	s	s	s	s	s

Cont...

## A106

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			Fodder yield (kg/ha)	No. of PFSR affected plant ( <sup>'000</sup> /ha)
		Ambikapur	Banswara	Jhabua	Godhra	Udaipur
100:40:30	B 63	5500	4022	6370	4500	1.3
	BH41009	5833	4044	4676	1667	3.0
	BIO 151	6583	4467	5451	3111	1.0
	CMH08-292	4889	3689	5571	6111	1.0
	CMH08-350	5306	3578	6089	5667	4.0
	CMH08-433	5583	3733	6121	7222	5.3
	EC-3161	4556	3400	4416	3500	1.8
	NMH-1242	5056	4911	4784	5111	3.8
	PFMH-96 N 46	4722	4378	5147	5667	5.0
	S6217	6833	4400	5095	5111	1.0
	X35A174	5917	4778	4927	4444	4.5
	YUVRAJ GOLD	5500	3978	5765	3667	4.3
	BIO 9637 (C)	6556	3400	5714	5444	2.8
	PMH 4 (C)	5972	4667	4952	4778	6.0
150:50:40	B 63	6111	5089	6749	7889	2.3
	BH41009	6028	4867	6724	4167	7.5
	BIO 151	6833	5000	7102	4611	3.3
	CMH08-292	6528	4378	6291	7889	2.8
	CMH08-350	5556	4333	7994	8111	2.8
	CMH08-433	5778	4867	8054	8111	7.3
	EC-3161	5972	4444	4578	5222	3.8
	NMH-1242	6667	5733	5806	5778	6.0
	PFMH-96 N 46	6000	5156	6044	6833	6.0
	S6217	8222	5111	5546	5444	2.8
	X35A174	5972	5844	5546	5722	7.5
	YUVRAJ GOLD	5722	4556	6962	4500	6.5
	BIO 9637 (C)	6833	4400	6997	5944	5.5
	PMH 4 (C)	6639	5667	5083	6278	7.8
200:60:50	B 63	6778	5200	6813	6167	3.3
	BH41009	6306	4911	6276	4500	7.5
	BIO 151	7111	5756	6695	5222	4.5
	CMH08-292	6806	4733	7473	7333	4.0
	CMH08-350	6750	5222	7733	7000	7.3
	CMH08-433	7833	5356	7543	6111	7.8
	EC-3161	7250	4933	4378	3722	4.5
	NMH-1242	8139	6489	5343	5444	5.5
	PFMH-96 N 46	7028	5444	5768	4722	7.5
	S6217	8611	5444	5946	4222	3.8
	X35A174	7111	6178	5502	5889	7.5
	YUVRAJ GOLD	7583	4956	6213	3444	7.8
	BIO 9637 (C)	8583	4889	5717	4222	6.0
	PMH 4 (C)	7389	6200	5619	4000	8.5

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## A107

	Cob yield (kg/ha)			Fodder yield (kg/ha)	No. of PFSR affected plant ('000/ha)
	Ambikapur	Banswara	Jhabua	Godhra	Udaipur
Location mean	6451.1	4823.8	5989.8	5345.2	4.8
C.D.(5%) AiBj-AiBk	1532.7	677.5	837.9	2489.8	1.0
C.D.(5%) AiBk-AjBk	1562.4	671.7	867.2	2505.3	1.1
F(5%)	n.s.	n.s.	s	n.s.	s

100:40:30	5629	4103	5363	4714	3.2
150:50:40	6347	4960	6391	6179	5.1
200:60:50	7377	5408	6216	5143	6.1

C.D.(5%) Ai-Aj	529.8	164.4	328.6	750.4	0.4
C.V.(%) Error A	13.6	5.6	9.1	23.2	17.8
F(5%)	s	s	s	s	s

B 63	6130	4770	6644	6185	2.3
BH41009	6056	4607	5892	3444	6.0
BIO 151	6843	5074	6416	4315	2.9
CMH08-292	6074	4267	6445	7111	2.6
CMH08-350	5870	4378	7272	6926	4.7
CMH08-433	6398	4652	7239	7148	6.8
EC-3161	5926	4259	4457	4148	3.3
NMH-1242	6620	5711	5311	5444	5.1
PFMH-96 N 46	5917	4993	5653	5741	6.2
S6217	7889	4985	5529	4926	2.5
X35A174	6333	5600	5325	5352	6.5
YUVRAJ GOLD	6269	4496	6313	3870	6.2
BIO 9637 (C)	7324	4230	6143	5204	4.8
PMH 4 (C)	6667	5511	5218	5019	7.4

C.D.(5%)Bi-Bj	884.9	391.1	483.8	1437.5	0.6
C.V.(%)ErrorB	14.6	8.6	8.6	28.6	15.2
F(5%)	s	s	s	s	s

Cont...

## A108

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plants ('000/ha)					
		Ambikapur	Banswara	Chhindwara	*Godhra	Jhabua	Udaipur
100:40:30	B 63	65.6	65.8	57.4	13.8	67.9	54.7
	BH41009	63.1	65.1	59.3	7.3	66.0	56.8
	BIO 151	64.4	66.7	58.5	12.0	65.4	57.3
	CMH08-292	65.8	64.0	62.6	23.1	65.1	56.7
	CMH08-350	66.7	65.1	59.6	26.4	65.4	56.7
	CMH08-433	64.7	65.3	54.1	30.9	64.1	57.3
	EC-3161	65.3	63.8	55.2	37.3	62.9	58.7
	NMH-1242	65.0	66.2	60.7	34.4	64.4	59.5
	PFMH-96 N 46	63.1	66.2	61.9	41.6	63.2	56.7
	S6217	65.8	63.8	60.7	40.2	64.8	57.3
	X35A174	65.3	66.2	59.6	39.8	63.8	56.7
	YUVRAJ GOLD	65.6	64.4	63.0	34.7	64.4	60.0
	BIO 9637 (C)	65.6	64.9	60.7	26.2	65.4	56.7
PMH 4 (C)	65.8	66.2	60.4	40.2	63.8	57.3	
150:50:40	B 63	65.0	66.7	59.3	27.6	68.3	54.8
	BH41009	63.3	64.2	61.9	30.4	66.3	57.5
	BIO 151	64.4	65.8	60.7	27.8	65.4	57.7
	CMH08-292	63.9	64.7	63.7	44.9	65.4	56.8
	CMH08-350	66.1	65.8	61.5	42.2	66.0	56.8
	CMH08-433	63.6	66.2	55.2	45.1	65.1	57.5
	EC-3161	66.4	66.0	59.3	54.4	63.2	58.8
	NMH-1242	65.3	65.8	63.3	45.3	65.4	59.2
	PFMH-96 N 46	65.8	66.2	65.2	44.7	64.8	56.7
	S6217	68.1	65.1	62.6	56.4	64.8	57.5
	X35A174	66.4	66.2	61.5	52.9	63.8	56.8
	YUVRAJ GOLD	64.2	66.2	64.1	57.6	66.0	60.0
	BIO 9637 (C)	66.7	63.8	62.6	50.9	64.8	56.7
PMH 4 (C)	65.0	66.4	61.5	51.1	64.4	57.5	
200:60:50	B 63	65.6	65.6	63.7	54.9	68.3	54.7
	BH41009	66.4	65.8	63.3	46.2	66.3	57.3
	BIO 151	65.8	66.2	62.6	33.8	65.7	57.3
	CMH08-292	64.4	64.4	64.8	59.8	66.3	56.7
	CMH08-350	66.9	65.8	63.0	49.3	65.1	56.7
	CMH08-433	65.8	65.6	59.3	54.0	64.8	57.3
	EC-3161	66.9	65.8	61.5	49.6	63.2	58.8
	NMH-1242	65.3	66.2	64.8	48.0	64.4	59.3
	PFMH-96 N 46	65.8	66.0	65.9	47.8	63.8	56.7
	S6217	66.4	64.9	65.2	50.0	64.8	57.3
	X35A174	64.2	66.7	64.1	48.9	63.5	56.7
	YUVRAJ GOLD	64.2	66.2	65.9	44.0	66.0	60.0
	BIO 9637 (C)	66.7	66.2	65.2	41.8	65.7	56.7
PMH 4 (C)	66.4	66.7	64.8	35.8	64.8	57.3	

Cont...

## A109

	No. of plants ('000/ha)					
	Ambikapur	Banswara	Chhindwara	*Godhra	Jhabua	Udaipur
Location mean	65.4	65.6	61.7	40.6	65.1	57.4
C.D.(5%) AiBj-AiBk	2.8	2.2	4.5	17.5	2.2	3.1
C.D.(5%) AiBk-AjBk	2.9	2.2	4.6	18.6	2.1	3.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

100:40:30	65.1	65.3	59.6	29.1	64.8	57.3
150:50:40	65.3	65.7	61.6	45.1	65.3	57.5
200:60:50	65.8	65.9	63.9	47.4	65.2	57.3

C.D.(5%) Ai-Aj	1.0	0.7	1.5	8.2	0.3	2.1
C.V.(%) Error A	2.5	1.7	3.9	33.5	0.7	8.1
F(5%)	n.s.	n.s.	s	s	s	n.s.

B 63	65.4	66.0	60.1	32.1	68.1	54.7
BH41009	64.3	65.0	61.5	28.0	66.2	57.2
BIO 151	64.9	66.2	60.6	24.5	65.5	57.4
CMH08-292	64.7	64.4	63.7	42.6	65.6	56.7
CMH08-350	66.6	65.6	61.4	39.3	65.5	56.7
CMH08-433	64.7	65.7	56.2	43.3	64.7	57.4
EC-3161	66.2	65.2	58.6	47.1	63.1	58.8
NMH-1242	65.2	66.1	63.0	42.6	64.8	59.3
PFMH-96 N 46	64.9	66.1	64.3	44.7	63.9	56.7
S6217	66.8	64.6	62.8	48.9	64.8	57.4
X35A174	65.3	66.4	61.7	47.2	63.7	56.7
YUVRAJ GOLD	64.6	65.6	64.3	45.4	65.5	60.0
BIO 9637 (C)	66.3	65.0	62.8	39.6	65.3	56.7
PMH 4 (C)	65.7	66.4	62.2	42.4	64.3	57.4

C.D.(5%)Bi-Bj	1.6	1.3	2.6	10.1	1.3	1.8
C.V.(%)ErrorB	2.6	2.1	4.5	26.5	2.0	3.9
F(5%)	s	s	s	s	s	s

Cont...



## A110

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)				
		Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
100:40:30	B 63	66.9	58.9	55.2	69.5	54.0
	BH41009	64.7	59.3	51.9	63.8	54.0
	BIO 151	66.1	62.9	57.4	67.0	56.0
	CMH08-292	68.3	57.8	56.7	64.1	55.3
	CMH08-350	68.3	59.6	57.4	67.9	53.3
	CMH08-433	68.1	59.8	58.1	64.4	53.3
	EC-3161	66.9	58.2	55.2	62.2	50.0
	NMH-1242	66.7	63.8	56.3	64.8	54.7
	PFMH-96 N 46	64.7	61.6	58.1	63.5	52.7
	S6217	70.3	59.3	57.0	65.4	56.0
	X35A174	66.9	63.3	59.3	62.5	53.3
	YUVRAJ GOLD	68.3	59.3	60.7	66.0	56.7
	BIO 9637 (C)	68.6	59.8	56.7	64.1	54.0
	PMH 4 (C)	68.6	63.8	60.0	63.5	52.0
150:50:40	B 63	66.7	64.0	56.3	70.8	54.7
	BH41009	65.0	61.3	52.2	65.7	54.0
	BIO 151	66.7	66.2	60.4	69.2	56.0
	CMH08-292	65.6	62.9	62.2	65.1	55.3
	CMH08-350	68.6	63.6	58.1	67.6	53.3
	CMH08-433	64.7	64.7	51.9	67.6	53.3
	EC-3161	69.4	64.2	55.9	62.9	50.0
	NMH-1242	68.3	67.1	60.0	65.1	54.7
	PFMH-96 N 46	67.5	66.2	60.7	66.0	53.0
	S6217	69.7	64.9	59.3	64.8	56.7
	X35A174	69.7	66.4	60.4	62.9	53.3
	YUVRAJ GOLD	65.8	64.2	61.9	66.3	56.7
	BIO 9637 (C)	69.7	62.9	58.1	65.4	54.0
	PMH 4 (C)	67.2	67.1	61.1	64.1	52.0
200:60:50	B 63	66.9	67.3	61.1	70.2	54.3
	BH41009	70.0	66.2	57.0	65.4	54.0
	BIO 151	69.4	68.4	65.2	68.9	56.0
	CMH08-292	66.1	65.6	63.0	69.2	55.3
	CMH08-350	68.1	66.2	58.9	67.3	53.3
	CMH08-433	67.5	65.8	52.2	65.4	53.3
	EC-3161	70.6	66.2	57.4	62.9	50.0
	NMH-1242	66.9	70.0	61.1	65.7	54.7
	PFMH-96 N 46	67.5	67.1	61.1	64.8	52.7
	S6217	69.4	68.0	61.9	64.8	56.7
	X35A174	66.7	68.7	63.0	63.2	53.3
	YUVRAJ GOLD	64.7	65.8	64.8	65.7	56.7
	BIO 9637 (C)	70.0	66.2	62.6	65.1	54.0
	PMH 4 (C)	68.6	68.4	63.7	66.7	52.0

Cont...

# A111

	No. of cobs ('000/ha)				
	Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
Location mean	67.6	64.1	58.8	65.7	54.0
C.D.(5%) AiBj-AiBk	3.6	2.2	6.0	3.9	2.9
C.D.(5%) AiBk-AjBk	3.7	2.2	6.3	3.8	3.4
F(5%)	n.s.	n.s.	n.s.	n.s.	s

100:40:30	67.4	60.5	57.1	64.9	54.0
150:50:40	67.5	64.7	58.5	66.0	54.1
200:60:50	68.0	67.1	60.9	66.1	54.0

C.D.(5%) Ai-Aj	1.3	0.5	2.5	0.6	2.0
C.V.(%) Error A	3.3	1.3	7.0	1.6	8.1
F(5%)	n.s.	s	s	s	n.s.

B 63	66.9	63.4	57.5	70.2	54.3
BH41009	66.6	62.3	53.7	65.0	54.0
BIO 151	67.4	65.9	61.0	68.4	56.0
CMH08-292	66.7	62.1	60.6	66.1	55.3
CMH08-350	68.3	63.1	58.1	67.6	53.3
CMH08-433	66.8	63.4	54.1	65.8	53.3
EC-3161	69.0	62.9	56.2	62.6	50.0
NMH-1242	67.3	67.0	59.1	65.2	54.7
PFMH-96 N 46	66.6	65.0	60.0	64.8	52.8
S6217	69.8	64.1	59.4	65.0	56.4
X35A174	67.8	66.1	60.9	62.9	53.3
YUVRAJ GOLD	66.3	63.1	62.5	66.0	56.7
BIO 9637 (C)	69.4	63.0	59.1	64.9	54.0
PMH 4 (C)	68.1	66.4	61.6	64.8	52.0

C.D.(5%)Bi-Bj	2.1	1.3	3.5	2.2	1.7
C.V.(%)ErrorB	3.2	2.1	6.3	3.6	3.8
F(5%)	s	s	s	s	s

Cont...

## A112

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
100:40:30	B 63	214.3	205.0	184.7	186.7	181.9	228.0
	BH41009	222.2	204.0	206.3	209.3	194.5	221.0
	BIO 151	203.0	185.0	185.3	206.0	170.7	218.0
	CMH08-292	230.4	191.0	217.0	212.3	204.2	258.3
	CMH08-350	241.2	203.0	213.7	247.7	203.3	257.0
	CMH08-433	250.4	218.3	219.0	213.3	191.0	249.0
	EC-3161	213.6	204.7	199.0	188.3	161.6	216.3
	NMH-1242	216.5	219.0	194.0	183.3	176.2	241.3
	PFMH-96 N 46	213.6	194.7	194.7	189.0	181.2	207.0
	S6217	219.3	195.0	204.0	216.0	176.2	236.0
	X35A174	221.5	212.7	210.3	197.7	182.9	237.0
	YUVRAJ GOLD	213.5	201.7	204.0	189.3	169.0	229.3
	BIO 9637 (C)	238.3	191.7	206.3	195.0	187.3	233.0
PMH 4 (C)	218.9	198.3	194.7	206.0	171.3	229.8	
150:50:40	B 63	223.7	213.0	192.0	181.7	186.1	232.0
	BH41009	227.5	212.7	211.3	218.3	199.8	224.8
	BIO 151	208.5	200.0	189.7	201.7	178.4	222.0
	CMH08-292	242.0	205.3	223.7	206.7	208.6	262.0
	CMH08-350	248.2	204.3	220.7	211.7	215.8	260.0
	CMH08-433	251.5	226.0	221.3	223.3	216.3	252.0
	EC-3161	221.9	214.0	195.0	185.0	169.2	220.0
	NMH-1242	228.5	227.7	201.0	208.3	186.0	245.0
	PFMH-96 N 46	227.1	202.7	197.3	211.7	184.3	210.3
	S6217	222.1	203.3	208.0	216.7	183.5	239.5
	X35A174	228.7	226.7	211.3	205.0	192.5	240.3
	YUVRAJ GOLD	230.5	211.7	207.7	204.3	185.3	232.0
	BIO 9637 (C)	248.1	201.0	210.3	198.3	201.4	236.0
PMH 4 (C)	234.0	208.0	202.3	196.7	176.9	233.0	
200:60:50	B 63	231.8	217.0	196.7	198.3	184.9	233.0
	BH41009	233.9	216.7	212.7	215.0	200.1	226.0
	BIO 151	212.3	205.0	194.7	203.3	177.1	224.3
	CMH08-292	267.1	210.0	225.7	203.3	216.0	263.0
	CMH08-350	261.8	209.7	221.0	218.3	208.4	260.8
	CMH08-433	265.1	231.0	224.7	218.3	213.3	252.3
	EC-3161	228.1	215.7	202.0	181.7	163.6	220.3
	NMH-1242	239.1	231.7	213.7	183.3	181.2	246.0
	PFMH-96 N 46	229.0	208.3	207.3	173.3	182.7	213.0
	S6217	228.1	210.0	216.0	198.3	190.9	240.3
	X35A174	234.5	233.3	214.0	186.7	187.8	240.0
	YUVRAJ GOLD	251.6	216.7	209.7	191.7	178.1	233.0
	BIO 9637 (C)	260.9	208.7	212.0	190.0	196.7	237.0
PMH 4 (C)	238.9	216.7	205.3	180.0	173.0	234.0	

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## A113

	Plant height (cm)					
	Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
Location mean	231.9	209.8	206.7	201.2	187.8	235.5
C.D.(5%) AiBj-AiBk	22.2	13.2	13.1	23.1	8.9	5.2
C.D.(5%) AiBk-AjBk	22.4	13.2	13.8	23.3	9.0	12.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s
100:40:30	222.6	201.7	202.4	202.9	182.2	232.9
150:50:40	231.6	211.2	206.5	205.0	191.7	236.3
200:60:50	241.6	216.5	211.1	195.8	189.5	237.3

C.D.(5%) Ai-Aj	7.0	3.8	5.7	7.1	2.7	11.1
C.V.(%) Error A	5.0	3.0	4.6	5.8	2.4	10.2
F(5%)	s	s	s	s	s	n.s.

B 63	223.3	211.7	191.1	188.9	184.3	231.0
BH41009	227.9	211.1	210.1	214.2	198.1	223.9
BIO 151	207.9	196.7	189.9	203.7	175.4	221.4
CMH08-292	246.5	202.1	222.1	207.4	209.6	261.1
CMH08-350	250.4	205.7	218.4	225.9	209.2	259.3
CMH08-433	255.7	225.1	221.7	218.3	206.9	251.1
EC-3161	221.2	211.4	198.7	185.0	164.8	218.8
NMH-1242	228.0	226.1	202.9	191.7	181.1	244.1
PFMH-96 N 46	223.2	201.9	199.8	191.3	182.7	210.1
S6217	223.2	202.8	209.3	210.3	183.6	238.6
X35A174	228.2	224.2	211.9	196.4	187.7	239.1
YUVRAJ GOLD	231.9	210.0	207.1	195.1	177.5	231.4
BIO 9637 (C)	249.1	200.4	209.6	194.4	195.1	235.3
PMH 4 (C)	230.6	207.7	200.8	194.2	173.7	232.3

C.D.(5%)Bi-Bj	12.8	7.6	7.6	13.3	5.1	3.0
C.V.(%)ErrorB	5.9	3.9	3.9	7.0	2.9	1.6
F(5%)	s	s	s	s	s	s

Cont...

## A114

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling			Days to 50% flowering	Shelling (%)
		Ambikapur	Jhabua	Udaipur	Godhra	Jhabua
100:40:30	B 63	51.3	51.0	46.0	55.7	80.7
	BH41009	50.3	48.7	48.8	55.3	80.7
	BIO 151	51.3	51.3	48.0	53.7	78.9
	CMH08-292	51.3	51.0	48.0	53.0	83.3
	CMH08-350	50.0	51.3	48.0	52.3	84.1
	CMH08-433	50.7	51.0	47.5	54.7	84.8
	EC-3161	50.0	48.0	44.0	50.3	83.6
	NMH-1242	50.0	49.7	45.0	54.7	83.4
	PFMH-96 N 46	49.3	47.0	48.0	53.3	80.6
	S6217	51.3	52.7	48.0	52.7	75.3
	X35A174	50.0	51.3	47.0	53.3	77.7
	YUVRAJ GOLD	50.7	50.0	46.0	53.7	80.4
	BIO 9637 (C)	50.3	49.7	45.0	53.3	82.5
	PMH 4 (C)	50.0	47.3	46.0	51.3	82.5
150:50:40	B 63	50.7	50.3	45.0	53.3	81.6
	BH41009	48.7	49.3	48.0	53.3	80.9
	BIO 151	50.0	51.3	47.0	53.3	79.6
	CMH08-292	50.0	50.3	47.0	51.0	82.4
	CMH08-350	50.0	50.3	47.0	52.7	84.2
	CMH08-433	50.3	51.7	46.0	53.7	85.4
	EC-3161	48.7	47.3	43.0	47.7	84.1
	NMH-1242	49.3	49.3	44.0	51.7	83.2
	PFMH-96 N 46	48.3	47.0	47.0	48.7	80.2
	S6217	51.0	52.3	47.0	53.3	78.0
	X35A174	49.7	50.3	46.0	51.0	77.8
	YUVRAJ GOLD	50.7	50.0	45.0	51.7	79.9
	BIO 9637 (C)	50.0	48.3	44.0	51.3	82.8
	PMH 4 (C)	49.0	47.3	45.0	50.0	82.5
200:60:50	B 63	50.3	50.3	45.0	52.3	81.0
	BH41009	48.7	49.3	48.0	52.3	80.6
	BIO 151	50.3	52.0	47.0	53.0	79.5
	CMH08-292	49.7	50.0	47.0	53.0	81.4
	CMH08-350	50.3	50.7	47.0	53.3	84.2
	CMH08-433	50.7	51.7	46.0	54.0	84.2
	EC-3161	48.0	47.3	42.0	48.7	82.0
	NMH-1242	49.0	48.3	43.5	51.3	83.4
	PFMH-96 N 46	48.0	47.0	47.0	51.7	81.3
	S6217	49.7	50.7	47.0	55.0	76.5
	X35A174	49.3	50.3	46.0	52.7	77.3
	YUVRAJ GOLD	50.0	49.7	45.0	50.0	79.1
	BIO 9637 (C)	49.7	48.3	44.0	55.0	83.3
	PMH 4 (C)	48.3	47.3	45.0	55.0	82.8

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## A115

	Days to 50% tasseling			Days to 50% flowering	Shelling (%)
	Ambikapur	Jhabua	Udaipur	Godhra	Jhabua
Location mean	49.9	49.7	46.1	52.6	81.4
C.D.(5%) AiBj-AiBk	1.2	1.1	3.2	0.8	3.2
C.D.(5%) AiBk-AjBk	1.2	1.1	3.4	0.8	3.8
F(5%)	n.s.	n.s.	s	s	n.s.

100:40:30	50.5	50.0	46.8	53.4	81.3
150:50:40	49.7	49.7	45.8	51.6	81.6
200:60:50	49.4	49.5	45.7	52.7	81.2

C.D.(5%) Ai-Aj	0.4	0.3	1.6	0.3	2.2
C.V.(%) Error A	1.3	1.1	7.6	0.8	4.6
F(5%)	s	s	n.s.	s	n.s.

B 63	50.8	50.6	45.3	53.8	81.1
BH41009	49.2	49.1	48.3	53.7	80.7
BIO 151	50.6	51.6	47.3	53.3	79.4
CMH08-292	50.3	50.4	47.3	52.3	82.4
CMH08-350	50.1	50.8	47.3	52.8	84.2
CMH08-433	50.6	51.4	46.5	54.1	84.8
EC-3161	48.9	47.6	43.0	48.9	83.2
NMH-1242	49.4	49.1	44.2	52.6	83.3
PFMH-96 N 46	48.6	47.0	47.3	51.2	80.7
S6217	50.7	51.9	47.3	53.7	76.6
X35A174	49.7	50.7	46.3	52.3	77.6
YUVRAJ GOLD	50.4	49.9	45.3	51.8	79.8
BIO 9637 (C)	50.0	48.8	44.3	53.2	82.9
PMH 4 (C)	49.1	47.3	45.3	52.1	82.6

C.D.(5%)Bi-Bj	0.7	0.6	1.8	0.5	1.8
C.V.(%)ErrorB	1.5	1.3	4.9	0.9	2.4
F(5%)	s	s	s	s	s

Cont...

## A116

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking				
		Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
100:40:30	B 63	54.0	48.0	57.3	53.3	51.0
	BH41009	53.0	49.7	57.7	52.3	52.0
	BIO 151	53.7	48.3	57.7	54.7	53.0
	CMH08-292	54.0	47.3	56.3	53.7	53.0
	CMH08-350	53.3	50.0	56.3	54.3	52.0
	CMH08-433	54.0	49.0	56.3	52.7	52.0
	EC-3161	52.7	46.7	56.7	53.0	48.0
	NMH-1242	52.7	47.4	57.7	54.0	49.0
	PFMH-96 N 46	52.0	46.7	56.0	50.0	51.0
	S6217	54.0	49.7	57.7	56.0	52.0
	X35A174	52.7	49.0	57.7	54.7	52.0
	YUVRAJ GOLD	53.7	51.7	56.3	53.3	50.0
	BIO 9637 (C)	53.0	52.3	57.7	51.3	50.0
	PMH 4 (C)	52.7	47.7	55.7	51.7	51.0
150:50:40	B 63	53.3	46.3	57.3	52.3	50.0
	BH41009	52.3	48.3	57.3	52.7	51.0
	BIO 151	53.3	47.0	57.3	54.7	52.0
	CMH08-292	53.3	46.0	55.3	53.3	52.0
	CMH08-350	53.3	47.3	55.7	52.3	51.0
	CMH08-433	53.7	48.0	56.0	53.7	51.0
	EC-3161	51.3	46.3	56.7	51.7	47.0
	NMH-1242	52.0	47.0	57.0	53.0	48.0
	PFMH-96 N 46	51.0	46.0	55.3	50.7	50.0
	S6217	53.7	47.7	56.7	55.3	51.0
	X35A174	52.3	48.3	57.3	53.3	50.0
	YUVRAJ GOLD	53.3	50.7	56.0	52.7	49.0
	BIO 9637 (C)	52.7	49.3	57.3	51.0	49.0
	PMH 4 (C)	51.7	47.3	55.0	51.0	50.0
200:60:50	B 63	53.0	45.0	55.3	52.3	50.0
	BH41009	51.3	47.0	56.3	53.3	51.0
	BIO 151	53.0	46.0	56.7	54.7	52.0
	CMH08-292	52.3	45.3	55.3	52.7	52.0
	CMH08-350	53.0	47.3	55.0	52.3	51.0
	CMH08-433	53.3	47.3	55.3	53.7	51.0
	EC-3161	50.7	45.7	56.0	51.0	47.0
	NMH-1242	51.7	46.3	56.7	52.0	48.0
	PFMH-96 N 46	50.7	45.3	55.0	51.0	50.0
	S6217	52.3	47.3	56.7	54.0	51.0
	X35A174	51.7	47.0	56.7	53.3	50.0
	YUVRAJ GOLD	52.7	49.3	55.0	52.7	49.0
	BIO 9637 (C)	52.3	48.3	57.0	51.0	48.8
	PMH 4 (C)	51.0	46.0	54.7	50.3	50.0

Cont...

# A117

	Days to 50% silking				
	Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
Location mean	52.7	47.7	56.4	52.8	50.4
C.D.(5%) AiBj-AiBk	1.3	1.7	1.0	1.2	3.0
C.D.(5%) AiBk-AjBk	1.3	1.8	1.1	1.2	3.4
F(5%)	n.s.	n.s.	n.s.	s	s

100:40:30	53.2	48.8	56.9	53.2	51.1
150:50:40	52.7	47.5	56.5	52.7	50.1
200:60:50	52.1	46.7	55.8	52.5	50.1

C.D.(5%) Ai-Aj	0.4	0.7	0.4	0.3	1.9
C.V.(%) Error A	1.3	2.4	1.3	1.0	8.1
F(5%)	s	s	s	s	n.s.

B 63	53.4	46.4	56.7	52.7	50.3
BH41009	52.2	48.3	57.1	52.8	51.3
BIO 151	53.3	47.1	57.2	54.7	52.3
CMH08-292	53.2	46.2	55.7	53.2	52.3
CMH08-350	53.2	48.2	55.7	53.0	51.3
CMH08-433	53.7	48.1	55.9	53.3	51.3
EC-3161	51.6	46.2	56.4	51.9	47.3
NMH-1242	52.1	46.9	57.1	53.0	48.3
PFMH-96 N 46	51.2	46.0	55.4	50.6	50.3
S6217	53.3	48.2	57.0	55.1	51.3
X35A174	52.2	48.1	57.2	53.8	50.7
YUVRAJ GOLD	53.2	50.6	55.8	52.9	49.3
BIO 9637 (C)	52.7	50.0	57.3	51.1	49.3
PMH 4 (C)	51.8	47.0	55.1	51.0	50.3

C.D.(5%)Bi-Bj	0.7	1.0	0.6	0.7	1.7
C.V.(%)ErrorB	1.5	2.2	1.1	1.4	4.2
F(5%)	s	s	s	s	s



# A118

**Table 11: Relative performance of pre-release germplasm of early maturity at different NPK levels of during *Kharif* 2012 in zone I.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			Cob yield (kg/ha)
		Almora	Bajaura	Kangra	Almora
100:40:30	FH 3513	5573	8640	4945	7580
	HKH-317	7221	8173	3808	9985
	SUN VAAMAN	6094	8393	5784	8677
	Prakash (C)	5844	7453	2316	8116
	JH 3459(C)	5664	6000	4067	7886
150:50:40	FH 3513	6412	9650	5342	8770
	HKH-317	7614	8727	3107	10420
	SUN VAAMAN	6769	10540	6116	9570
	Prakash (C)	6239	7943	2189	7491
	JH 3459(C)	5974	6737	4347	8035
200:60:50	FH 3513	7679	9577	6264	10780
	HKH-317	7994	9490	3428	10923
	SUN VAAMAN	7441	10503	5805	10267
	Prakash (C)	6450	8233	2298	9052
	JH 3459(C)	6108	6590	4065	8198

Location mean	6605.1	8443.3	4258.7	9050.0
C.D.(5%) AiBj-AiBk	699.2	1163.3	604.6	1036.4
C.D.(5%) AiBk-AjBk	684.5	1090.7	606.7	1085.7
F(5%)	n.s.	n.s.	s	s

100:40:30	6079	7732	4184	8449
150:50:40	6602	8719	4220	8857
200:60:50	7134	8879	4372	9844

C.D.(5%) Ai-Aj	286.7	337.8	283.2	581.2
C.V.(%) Error A	4.3	3.9	6.6	6.3
F(5%)	s	s	n.s.	s

FH 3513	6555	9289	5517	9044
HKH-317	7610	8797	3448	10443
SUN VAAMAN	6768	9812	5902	9505
Prakash (C)	6178	7877	2267	8220
JH 3459(C)	5915	6442	4160	8040

C.D.(5%)Bi-Bj	403.7	671.6	349.1	598.4
C.V.(%)ErrorB	6.3	8.2	8.4	6.8
F(5%)	s	s	s	s

Cont...

# A119

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plant ('000/ha)			No. of cobs ('000/ha)		
		Almora	Bajaura	Kangra	Almora	Bajaura	Kangra
100:40:30	FH 3513	66.7	81.5	72.5	66.7	78.7	59.7
	HKH-317	66.7	77.8	75.1	66.7	73.6	48.4
	SUN VAAMAN	66.7	70.6	76.1	66.7	66.2	61.7
	Prakash (C)	66.7	81.0	55.6	67.7	76.9	15.4
	JH 3459(C)	66.7	61.0	71.5	68.1	57.4	60.7
150:50:40	FH 3513	66.7	80.1	73.6	66.7	75.0	59.7
	HKH-317	66.7	78.3	73.6	66.7	73.6	48.4
	SUN VAAMAN	66.7	74.2	75.1	66.7	70.0	64.8
	Prakash (C)	66.7	76.9	46.8	67.2	75.5	17.5
	JH 3459(C)	66.7	64.7	75.6	66.7	62.0	62.8
200:60:50	FH 3513	66.7	78.3	74.6	66.7	74.1	59.2
	HKH-317	66.7	77.8	73.6	66.7	74.0	53.5
	SUN VAAMAN	66.7	66.7	73.6	66.7	61.9	63.8
	Prakash (C)	66.7	78.5	50.4	68.1	76.9	19.0
	JH 3459(C)	66.7	63.9	75.1	66.7	59.0	64.8

Location mean	66.7	74.1	69.5	67.0	70.3	50.6
C.D.(5%) AiBj-AiBk	0.6	5.0	6.2	1.7	5.6	5.5
C.D.(5%) AiBk-AjBk	0.7	4.7	6.4	2.1	6.6	5.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	66.7	74.4	70.2	67.2	70.6	49.2
150:50:40	66.7	74.8	68.9	66.8	71.2	50.6
200:60:50	66.7	73.0	69.4	67.0	69.2	52.1

C.D.(5%) Ai-Aj	0.4	1.5	3.2	1.5	4.3	1.5
C.V.(%) Error A	0.6	2.1	4.6	2.1	6.1	2.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

FH 3513	66.7	79.9	73.6	66.7	75.9	59.5
HKH-317	66.7	78.0	74.1	66.7	73.7	50.1
SUN VAAMAN	66.7	70.5	74.9	66.7	66.0	63.4
Prakash (C)	66.7	78.8	50.9	67.7	76.4	17.3
JH 3459(C)	66.7	63.2	74.1	67.2	59.5	62.8

C.D.(5%)Bi-Bj	0.4	2.9	3.6	1.0	3.2	3.2
C.V.(%)ErrorB	0.6	4.0	5.3	1.5	4.7	6.5
F(5%)	n.s.	s	s	n.s.	s	s

Cont...

## A120

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)			Ear height (cm)	Lodging (%)
		Almora	Bajaura	Kangra	Kangra	Kangra
100:40:30	FH 3513	184.5	204.5	213.0	91.3	12.6
	HKH-317	204.7	209.8	192.7	83.3	3.4
	SUN VAAMAN	194.0	200.8	228.3	94.7	5.5
	Prakash (C)	213.3	220.9	226.0	107.0	65.4
	JH 3459(C)	206.3	185.2	200.7	93.3	10.0
150:50:40	FH 3513	199.9	208.3	214.3	94.7	9.9
	HKH-317	211.3	214.8	221.3	92.0	8.3
	SUN VAAMAN	203.7	203.7	219.7	94.0	2.7
	Prakash (C)	205.0	222.2	251.7	112.3	33.5
	JH 3459(C)	199.7	193.8	197.7	92.7	8.1
200:60:50	FH 3513	203.3	212.1	208.7	93.3	9.7
	HKH-317	219.7	215.0	214.0	89.0	5.7
	SUN VAAMAN	224.0	213.8	223.0	86.7	6.3
	Prakash (C)	207.7	226.6	239.3	110.3	39.4
	JH 3459(C)	193.7	197.3	187.7	87.7	2.8

Location mean	204.7	208.6	215.9	94.8	14.9
C.D.(5%) AiBj-AiBk	20.4	6.9	18.1	11.1	9.5
C.D.(5%) AiBk-AjBk	22.8	6.6	17.8	11.0	9.3
F(5%)	n.s.	n.s.	n.s.	n.s.	s

100:40:30	200.6	204.2	212.1	93.9	19.4
150:50:40	203.9	208.6	220.9	97.1	12.5
200:60:50	209.7	213.0	214.5	93.4	12.8

C.D.(5%) Ai-Aj	14.0	2.6	7.8	5.0	3.9
C.V.(%) Error A	6.7	1.2	3.6	5.2	26.2
F(5%)	n.s.	s	n.s.	n.s.	s

FH 3513	195.9	208.3	212.0	93.1	10.8
HKH-317	211.9	213.2	209.3	88.1	5.8
SUN VAAMAN	207.2	206.1	223.7	91.8	4.8
Prakash (C)	208.7	223.2	239.0	109.9	46.1
JH 3459(C)	199.9	192.1	195.3	91.2	7.0

C.D.(5%)Bi-Bj	11.8	4.0	10.4	6.4	5.5
C.V.(%)ErrorB	5.9	2.0	5.0	6.9	37.7
F(5%)	n.s.	s	s	s	s

Cont...

# A121

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling		Days to 50% silking		Turcicum Leaf Blight (1-5 scale score)
		Almora	Kangra	Almora	Kangra	Almora
100:40:30	FH 3513	53.0	49.3	55.0	53.7	1.7
	HKH-317	50.7	44.7	52.7	49.0	3.0
	SUN VAAMAN	52.3	46.3	54.3	50.7	2.0
	Prakash (C)	49.0	43.7	51.0	48.3	4.0
	JH 3459(C)	51.3	48.7	53.3	52.3	3.7
150:50:40	FH 3513	52.3	49.7	54.3	53.0	1.8
	HKH-317	50.7	45.3	52.7	49.7	2.3
	SUN VAAMAN	50.7	48.3	52.7	51.3	2.0
	Prakash (C)	49.3	45.0	51.3	48.7	4.3
	JH 3459(C)	52.0	49.7	54.0	52.7	4.0
200:60:50	FH 3513	51.7	50.3	53.7	54.0	1.5
	HKH-317	50.3	46.7	52.3	50.7	2.5
	SUN VAAMAN	52.3	49.0	54.3	52.7	2.0
	Prakash (C)	49.0	45.7	51.0	50.3	3.8
	JH 3459(C)	52.7	49.3	54.7	52.3	3.8

Location mean	51.2	47.4	53.2	51.3	2.8
C.D.(5%) AiBj-AiBk	1.4	1.0	1.4	0.8	0.6
C.D.(5%) AiBk-AjBk	2.1	0.9	2.1	0.9	0.6
F(5%)	n.s.	n.s.	n.s.	s	n.s.

100:40:30	51.3	46.5	53.3	50.8	2.9
150:50:40	51.0	47.6	53.0	51.1	2.9
200:60:50	51.2	48.2	53.2	52.0	2.7

C.D.(5%) Ai-Aj	1.8	0.3	1.8	0.5	0.3
C.V.(%) Error A	3.5	0.6	3.3	1.0	11.6
F(5%)	n.s.	s	n.s.	s	n.s.

FH 3513	52.3	49.8	54.3	53.6	1.7
HKH-317	50.6	45.6	52.6	49.8	2.6
SUN VAAMAN	51.8	47.9	53.8	51.6	2.0
Prakash (C)	49.1	44.8	51.1	49.1	4.1
JH 3459(C)	52.0	49.2	54.0	52.4	3.8

C.D.(5%)Bi-Bj	0.8	0.6	0.8	0.5	0.4
C.V.(%)ErrorB	1.6	1.2	1.5	1.0	12.9
F(5%)	s	s	s	s	s

## A122

**Table 12: Relative performance of pre-release germplasm of early maturity at different NPK levels of during *Kharif* 2012 in zone II.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			
		Delhi	Karnal	Ludhiana	Pantnagar
100:40:30	31Y45	7156	5276	8353	5735
	X8F984	6138	4638	7286	5709
	KDMH 755	5294	3243	7717	6085
	Prakash (C)	5654	3574	7569	5111
	JH 3459 (C)	5190	3013	3658	4966
150:50:40	31Y45	7659	5289	9153	4863
	X8F984	7160	4226	8394	5812
	KDMH 755	6919	3043	7853	6111
	Prakash (C)	6568	4060	7625	3718
	JH 3459 (C)	4884	3004	4747	4342
200:65:50	31Y45	6736	4737	8989	5179
	X8F984	7328	3894	9142	5350
	KDMH 755	6889	3430	8325	5368
	Prakash (C)	6188	3442	7639	4897
	JH 3459 (C)	4993	3726	4236	5239

Location mean	6317.0	3906.4	7379.1	5232.5
C.D.(5%) AiBj-AiBk	1383.5	766.4	747.8	844.6
C.D.(5%) AiBk-AjBk	1345.5	730.8	844.8	956.6
F(5%)	n.s.	n.s.	s	s

100:40:30	5886	3949	6917	5521
150:50:40	6638	3924	7554	4969
200:65:50	6427	3846	7666	5207

C.D.(5%) Ai-Aj	544.7	261.2	529.2	601.7
C.V.(%) Error A	8.5	6.6	7.1	11.3
F(5%)	s	n.s.	s	n.s.

31Y45	7184	5100	8831	5259
X8F984	6876	4253	8274	5624
KDMH 755	6367	3239	7965	5855
Prakash (C)	6137	3692	7611	4575
JH 3459 (C)	5022	3248	4214	4849

C.D.(5%)Bi-Bj	798.8	442.5	431.8	487.6
C.V.(%)ErrorB	13.0	11.6	6.0	9.6
F(5%)	s	s	s	s

Cont...

## A123

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			No. of plants ('000/ha)		
		Delhi	Karnal	Pantnagar	Delhi	Ludhiana	Pantnagar
100:40:30	31Y45	8444	6463	7393	66.7	65.6	59.8
	X8F984	7235	5814	7308	64.7	63.3	57.3
	KDMH 755	6198	4180	7692	63.7	63.6	64.1
	Prakash (C)	6691	4620	6496	67.7	65.6	58.1
	JH 3459 (C)	6025	4200	6197	59.3	42.5	61.5
150:50:40	31Y45	8914	6558	6111	64.7	64.7	57.3
	X8F984	8444	5192	7265	65.2	58.1	53.8
	KDMH 755	8198	3934	7607	64.7	65.6	58.1
	Prakash (C)	7679	5052	4658	65.2	66.1	55.6
	JH 3459 (C)	5778	3755	5470	58.3	54.4	54.7
200:65:50	31Y45	7829	5836	6624	66.2	64.2	60.7
	X8F984	8691	4868	6709	67.2	62.5	62.4
	KDMH 755	8148	4379	6752	64.7	64.4	65.0
	Prakash (C)	7160	4450	6068	63.2	66.4	53.8
	JH 3459 (C)	5877	4969	6752	56.8	42.5	61.5

Location mean	7420.7	4951.3	6606.8	63.9	60.6	58.9
C.D.(5%) AiBj-AiBk	1616.2	962.7	1064.6	3.2	5.3	7.3
C.D.(5%) AiBk-AjBk	1564.4	916.7	1230.1	5.1	5.9	7.9
F(5%)	n.s.	n.s.	s	n.s.	s	n.s.

100:40:30	6919	5055	7017	64.4	60.1	60.2
150:50:40	7802	4898	6222	63.6	61.8	55.9
200:65:50	7541	4900	6581	63.6	60.0	60.7

C.D.(5%) Ai-Aj	616.7	324.4	797.9	4.3	3.6	4.5
C.V.(%) Error A	8.2	6.5	11.9	6.7	5.9	7.5
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.

31Y45	8396	6286	6709	65.8	64.8	59.3
X8F984	8123	5291	7094	65.7	61.3	57.8
KDMH 755	7514	4164	7350	64.4	64.5	62.4
Prakash (C)	7177	4707	5741	65.3	66.0	55.8
JH 3459 (C)	5893	4308	6140	58.1	46.5	59.3

C.D.(5%)Bi-Bj	933.1	555.8	614.6	1.8	3.0	4.2
C.V.(%)ErrorB	12.9	11.5	9.6	2.9	5.1	7.4
F(5%)	s	s	s	s	s	n.s.

Cont...

## A124

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			No. of grains/row	Moisture (%)	100 grain weight (g)
		Delhi	Ludhiana	Pantnagar	Delhi	Delhi	Delhi
100:40:30	31Y45	67.7	65.6	59.8	34.1	13.9	28.0
	X8F984	64.7	63.3	59.0	31.7	14.3	24.5
	KDMH 755	63.7	63.1	65.8	31.3	15.0	19.5
	Prakash (C)	70.1	74.7	60.7	29.7	14.2	24.3
	JH 3459 (C)	65.2	39.4	60.7	28.9	14.1	19.9
150:50:40	31Y45	65.2	63.9	58.1	34.9	14.0	29.9
	X8F984	66.2	55.8	56.4	33.9	13.9	27.4
	KDMH 755	65.7	58.9	58.1	35.6	14.9	26.4
	Prakash (C)	67.7	72.2	56.4	33.7	14.3	27.4
	JH 3459 (C)	64.2	46.1	65.0	30.3	14.6	19.2
200:65:50	31Y45	66.7	63.3	68.4	32.6	13.8	27.0
	X8F984	72.1	61.7	58.1	34.3	14.7	25.5
	KDMH 755	65.7	61.1	61.5	32.7	14.3	23.1
	Prakash (C)	63.2	72.2	56.4	31.1	14.4	26.3
	JH 3459 (C)	62.7	42.5	64.1	29.5	13.8	19.7

Location mean	66.0	60.3	60.6	32.3	14.3	24.5
C.D.(5%) AiBj-AiBk	7.5	7.5	8.3	3.0	0.6	5.6
C.D.(5%) AiBk-AjBk	8.3	7.7	8.4	2.8	0.7	5.8
F(5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:40:30	66.3	61.2	61.2	31.1	14.3	23.2
150:50:40	65.8	59.4	58.8	33.7	14.3	26.1
200:65:50	66.1	60.2	61.7	32.0	14.2	24.3

C.D.(5%) Ai-Aj	5.1	3.9	4.0	0.8	0.4	3.1
C.V.(%) Error A	7.6	6.4	6.5	2.3	3.1	12.4
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

31Y45	66.5	64.3	62.1	33.9	13.9	28.3
X8F984	67.7	60.3	57.8	33.3	14.3	25.8
KDMH 755	65.0	61.0	61.8	33.2	14.8	23.0
Prakash (C)	67.0	73.1	57.8	31.5	14.3	26.0
JH 3459 (C)	64.0	42.7	63.2	29.6	14.2	19.6

C.D.(5%)Bi-Bj	4.3	4.3	4.8	1.7	0.4	3.2
C.V.(%)ErrorB	6.7	7.4	8.2	5.5	2.7	13.5
F(5%)	n.s.	s	n.s.	s	s	s

Cont...

## A125

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				Ear height (cm)	
		Delhi	Karnal	Ludhiana	Pantnagar	Karnal	Ludhiana
100:40:30	31Y45	170.0	191.7	199.7	160.3	90.0	95.3
	X8F984	166.4	195.0	200.3	174.0	88.3	103.3
	KDMH 755	159.2	185.0	190.0	177.3	95.0	93.7
	Prakash (C)	163.4	161.7	194.3	166.0	81.7	101.3
	JH 3459 (C)	150.8	170.0	177.3	153.0	76.7	90.7
150:50:40	31Y45	174.3	203.3	197.3	175.0	98.3	104.7
	X8F984	179.1	198.3	192.3	169.7	93.3	95.0
	KDMH 755	166.5	201.7	193.3	171.7	115.0	107.3
	Prakash (C)	173.0	186.7	201.3	155.3	98.3	103.7
	JH 3459 (C)	147.7	165.0	188.3	163.0	83.3	102.7
200:65:50	31Y45	164.7	198.3	199.7	177.3	86.7	99.3
	X8F984	172.7	198.3	203.0	171.7	91.7	101.3
	KDMH 755	171.0	193.3	191.7	175.3	108.3	105.7
	Prakash (C)	185.1	185.0	191.3	169.0	88.3	100.0
	JH 3459 (C)	151.1	166.7	192.0	176.3	80.0	97.0

Location mean	166.3	186.7	194.1	169.0	91.7	100.1
C.D.(5%) AiBj-AiBk	11.9	18.4	13.9	19.0	11.2	10.2
C.D.(5%) AiBk-AjBk	12.0	18.4	20.0	20.1	11.7	12.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	162.0	180.7	192.3	166.1	86.3	96.9
150:50:40	168.1	191.0	194.5	166.9	97.7	102.7
200:65:50	168.9	188.3	195.5	173.9	91.0	100.7

C.D.(5%) Ai-Aj	5.8	8.6	16.0	10.9	6.3	8.4
C.V.(%) Error A	3.5	4.5	8.1	6.4	6.8	8.3
F(5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.

31Y45	169.7	197.8	198.9	170.9	91.7	99.8
X8F984	172.7	197.2	198.6	171.8	91.1	99.9
KDMH 755	165.6	193.3	191.7	174.8	106.1	102.2
Prakash (C)	173.8	177.8	195.7	163.4	89.4	101.7
JH 3459 (C)	149.9	167.2	185.9	164.1	80.0	96.8

C.D.(5%)Bi-Bj	6.9	10.6	8.0	11.0	6.5	5.9
C.V.(%)ErrorB	4.2	5.8	4.2	6.7	7.2	6.0
F(5%)	s	s	s	n.s.	s	n.s.

Cont...



## A126

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling			Days to 50% Silking		
		Karnal	Ludhiana	Pantnagar	Karnal	Ludhiana	Pantnagar
100:40:30	31Y45	46.3	58.0	49.0	48.7	60.3	53.0
	X8F984	46.7	52.0	48.7	49.0	54.0	52.0
	KDMH 755	50.0	56.7	50.7	53.0	58.7	53.7
	Prakash (C)	45.7	51.3	45.3	48.7	53.3	48.3
	JH 3459 (C)	46.3	54.3	49.3	50.0	56.3	52.0
150:50:40	31Y45	48.3	55.0	48.3	50.7	57.0	52.0
	X8F984	47.3	53.7	48.3	49.3	55.7	52.3
	KDMH 755	48.3	55.7	50.3	51.0	57.3	53.0
	Prakash (C)	46.0	51.3	46.0	48.3	53.3	49.0
	JH 3459 (C)	47.7	52.7	48.0	50.3	54.7	51.3
200:65:50	31Y45	46.3	55.7	50.3	48.3	57.7	53.0
	X8F984	46.3	53.7	47.3	49.0	57.3	50.0
	KDMH 755	47.7	57.0	50.3	50.0	58.7	52.3
	Prakash (C)	46.7	51.7	44.3	49.0	53.7	48.3
	JH 3459 (C)	47.0	54.3	47.0	49.3	56.3	49.3

Location mean	47.1	54.2	48.2	49.6	56.3	51.3
C.D.(5%) AiBj-AiBk	1.8	2.1	2.5	2.4	2.2	2.4
C.D.(5%) AiBk-AjBk	2.1	3.3	2.4	2.4	3.4	2.4
F(5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:40:30	47.0	54.5	48.6	49.9	56.5	51.8
150:50:40	47.5	53.7	48.2	49.9	55.6	51.5
200:65:50	46.8	54.5	47.9	49.1	56.7	50.6

C.D.(5%) Ai-Aj	1.4	2.8	0.9	1.1	2.8	1.2
C.V.(%) Error A	2.9	5.1	1.8	2.1	5.0	2.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

31Y45	47.0	56.2	49.2	49.2	58.3	52.7
X8F984	46.8	53.1	48.1	49.1	55.7	51.4
KDMH 755	48.7	56.4	50.4	51.3	58.2	53.0
Prakash (C)	46.1	51.4	45.2	48.7	53.4	48.6
JH 3459 (C)	47.0	53.8	48.1	49.9	55.8	50.9

C.D.(5%)Bi-Bj	1.0	1.2	1.4	1.4	1.3	1.4
C.V.(%)ErrorB	2.3	2.3	3.1	2.8	2.3	2.7
F(5%)	s	s	s	s	s	s

Cont...

# A127

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)		Cob diameter (cm)	No. of rows/cob		Days 75% husk brown
		Delhi	Ludhiana	Ludhiana	Delhi	Ludhiana	Ludhiana
100:40:30	31Y45	15.7	17.2	4.5	14.4	13.2	95.0
	X8F984	14.0	18.5	4.3	14.5	13.9	92.0
	KDMH 755	13.1	16.0	4.3	16.8	13.5	92.3
	Prakash (C)	14.2	18.0	4.4	12.8	12.8	92.0
	JH 3459 (C)	13.5	16.7	4.2	16.5	13.5	94.3
150:50:40	31Y45	15.9	16.6	4.5	14.1	13.7	92.3
	X8F984	15.3	18.9	4.6	14.0	13.5	92.3
	KDMH 755	16.1	18.4	4.4	16.1	13.9	91.3
	Prakash (C)	15.9	16.0	4.0	12.0	13.5	92.0
	JH 3459 (C)	13.1	18.4	4.3	16.5	13.3	94.0
200:65:50	31Y45	14.9	18.3	4.3	14.1	13.6	93.0
	X8F984	15.3	18.1	4.4	13.5	13.7	92.3
	KDMH 755	14.4	18.3	4.5	16.9	13.6	91.3
	Prakash (C)	15.5	18.8	4.4	11.9	13.5	91.0
	JH 3459 (C)	13.7	19.0	4.4	15.7	13.7	93.3

Location mean	14.7	17.8	4.4	14.7	13.5	92.6
C.D.(5%) AiBj-AiBk	1.3	1.9	0.3	2.0	0.7	1.9
C.D.(5%) AiBk-AjBk	1.3	1.8	0.4	2.2	0.7	2.6
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.

100:40:30	14.1	17.3	4.3	15.0	13.4	93.1
150:50:40	15.3	17.6	4.4	14.6	13.6	92.4
200:65:50	14.8	18.5	4.4	14.4	13.6	92.2

C.D.(5%) Ai-Aj	0.5	0.6	0.3	1.3	0.3	2.1
C.V.(%) Error A	3.0	3.3	5.8	8.7	2.4	2.2
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.

31Y45	15.5	17.4	4.4	14.2	13.5	93.4
X8F984	14.8	18.5	4.4	14.0	13.7	92.2
KDMH 755	14.6	17.6	4.4	16.6	13.6	91.7
Prakash (C)	15.2	17.6	4.3	12.2	13.2	91.7
JH 3459 (C)	13.4	18.0	4.3	16.3	13.5	93.9

C.D.(5%)Bi-Bj	0.8	1.1	0.2	1.2	0.4	1.1
C.V.(%)ErrorB	5.4	6.5	4.5	8.2	3.2	1.2
F(5%)	s	n.s.	n.s.	s	n.s.	s

## A128

**Table 13: Relative performance of pre-release germplasm of early maturity at different NPK levels of during *Kharif* 2012 in zone III.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	31Y45	5799	4089	5187	9944
	REH 2009-12	5764	4409	4287	6861
	Prakash (C)	5000	3980	3840	6285
	JH 3459 (C)	4792	3898	3514	5708
150:50:40	31Y45	6181	4287	5611	10313
	REH 2009-12	6181	4693	5221	7868
	Prakash (C)	5451	4574	4753	6813
	JH 3459 (C)	5347	5019	3973	5979
200:60:50	31Y45	5938	5593	6511	10063
	REH 2009-12	5660	5489	5423	10278
	Prakash (C)	5313	4637	4869	6729
	JH 3459 (C)	5139	5083	4048	6201

Location mean	5546.9	4645.9	4769.7	7753.5
C.D.(5%) AiBj-AiBk	870.3	347.7	845.7	2456.7
C.D.(5%) AiBk-AjBk	830.5	382.0	884.4	3035.2
F(5%)	n.s.	s	n.s.	n.s.

100:40:30	5339	4094	4207	7200
150:50:40	5790	4643	4889	7743
200:60:50	5512	5201	5213	8318

C.D.(5%) Ai-Aj	358.2	240.3	507.6	2205.4
C.V.(%) Error A	5.7	4.6	9.4	25.1
F(5%)	n.s.	s	s	n.s.

31Y45	5972	4656	5770	10106
REH 2009-12	5868	4864	4977	8336
Prakash (C)	5255	4397	4487	6609
JH 3459 (C)	5093	4667	3845	5963

C.D.(5%)Bi-Bj	502.5	200.8	488.3	1418.4
C.V.(%)ErrorB	9.1	4.4	10.3	18.5
F(5%)	s	s	s	s

Cont...

## A129

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	31Y45	7361	5750	6370	14653
	REH 2009-12	7222	6056	5296	10417
	Prakash (C)	6424	6028	4704	9306
	JH 3459 (C)	6111	5389	4222	8681
150:50:40	31Y45	7951	6028	7185	15139
	REH 2009-12	7778	6778	6037	11944
	Prakash (C)	7049	6917	5852	9792
	JH 3459 (C)	6806	6806	4815	9028
200:60:50	31Y45	7535	7833	7407	14792
	REH 2009-12	7153	7917	6815	11389
	Prakash (C)	6944	6972	6000	9792
	JH 3459 (C)	6563	6972	5130	9375

Location mean	7074.7	6620.4	5819.4	11192.1
C.D.(5%) AiBj-AiBk	1040.7	507.5	1104.5	1301.4
C.D.(5%) AiBk-AjBk	998.1	550.9	1170.2	1572.2
F(5%)	n.s.	s	n.s.	n.s.

100:40:30	6780	5806	5148	10764
150:50:40	7396	6632	5972	11476
200:60:50	7049	7424	6338	11337

C.D.(5%) Ai-Aj	440.4	339.8	689.9	1117.5
C.V.(%) Error A	5.5	4.5	10.5	8.8
F(5%)	s	s	s	n.s.

31Y45	7616	6537	6988	14861
REH 2009-12	7384	6917	6049	11250
Prakash (C)	6806	6639	5519	9630
JH 3459 (C)	6493	6389	4722	9028

C.D.(5%)Bi-Bj	600.8	293.0	637.7	751.3
C.V.(%)ErrorB	8.6	4.5	11.1	6.8
F(5%)	s	s	s	s

Cont...

## A130

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plants ('000/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	31Y45	68.8	62.8	68.1	65.3
	REH 2009-12	67.7	64.7	64.1	61.8
	Prakash (C)	69.1	65.0	63.3	61.8
	JH 3459 (C)	68.1	65.0	65.2	64.6
150:50:40	31Y45	68.8	65.0	68.9	66.7
	REH 2009-12	68.8	65.0	65.2	62.5
	Prakash (C)	68.1	66.4	64.8	59.7
	JH 3459 (C)	66.7	63.9	65.9	64.6
200:60:50	31Y45	68.1	63.6	67.0	66.7
	REH 2009-12	66.7	64.2	65.9	62.5
	Prakash (C)	68.8	66.1	67.0	61.1
	JH 3459 (C)	66.0	65.6	67.4	63.9

Location mean	67.9	64.8	66.1	63.4
C.D.(5%) AiBj-AiBk	2.8	3.3	4.9	6.1
C.D.(5%) AiBk-AjBk	3.0	3.4	5.0	6.5
F(5%)	n.s.	n.s.	n.s.	n.s.

100:40:30	68.4	64.4	65.2	63.4
150:50:40	68.1	65.1	66.2	63.4
200:60:50	67.4	64.9	66.9	63.5

C.D.(5%) Ai-Aj	1.8	1.8	2.7	3.9
C.V.(%) Error A	2.3	2.5	3.6	5.4
F(5%)	n.s.	n.s.	n.s.	n.s.

31Y45	68.5	63.8	68.0	66.2
REH 2009-12	67.7	64.6	65.1	62.3
Prakash (C)	68.6	65.8	65.1	60.9
JH 3459 (C)	66.9	64.8	66.2	64.4

C.D.(5%)Bi-Bj	1.6	1.9	2.8	3.5
C.V.(%)ErrorB	2.4	3.0	4.3	5.6
F(5%)	n.s.	n.s.	n.s.	s

Cont...

## A131

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No of cobs ('000/ha)			
		Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	31Y45	67.7	61.4	65.9	68.06
	REH 2009-12	66.7	63.9	60.7	59.72
	Prakash (C)	67.7	66.4	63.7	65.28
	JH 3459 (C)	66.0	67.2	59.6	65.28
150:50:40	31Y45	67.7	67.5	66.3	72.92
	REH 2009-12	67.7	64.7	61.1	70.14
	Prakash (C)	67.4	67.5	64.1	63.89
	JH 3459 (C)	65.6	65.3	65.6	69.44
200:60:50	31Y45	67.4	65.3	67.4	65.97
	REH 2009-12	66.3	65.0	66.3	63.19
	Prakash (C)	68.4	68.1	65.2	59.72
	JH 3459 (C)	65.6	65.8	61.5	67.36

Location mean	67.0	65.7	64.0	65.91
C.D.(5%) AiBj-AiBk	2.5	2.8	6.4	9.44
C.D.(5%) AiBk-AjBk	2.3	2.6	6.4	10.7
F(5%)	n.s.	s	n.s.	n.s.

100:40:30	67.0	64.7	62.5	64.6
150:50:40	67.1	66.3	64.3	69.1
200:60:50	66.9	66.0	65.1	64.1

C.D.(5%) Ai-Aj	1.0	0.9	3.4	7.0
C.V.(%) Error A	1.3	1.2	4.7	9.3
F(5%)	n.s.	s	n.s.	n.s.

31Y45	67.6	64.7	66.5	69.0
REH 2009-12	66.9	64.5	62.7	64.4
Prakash (C)	67.8	67.3	64.3	63.0
JH 3459 (C)	65.7	66.1	62.2	67.4

C.D.(5%)Bi-Bj	1.4	1.6	3.7	5.5
C.V.(%)ErrorB	2.1	2.5	5.8	8.4
F(5%)	s	s	n.s.	n.s.

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## A132

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				Maydis
		Bhubaneswar	Dholi	Ranchi	Varanasi	Ranchi
100:40:30	31Y45	170.3	129.0	246.9	189.67	2.0
	REH 2009-12	174.7	137.9	251.4	201.67	2.5
	Prakash (C)	155.1	118.8	230.9	176.00	2.0
	JH 3459 (C)	147.0	99.1	210.2	165.00	2.0
150:50:40	31Y45	169.5	145.4	256.9	191.00	2.5
	REH 2009-12	169.4	144.8	261.9	196.33	2.0
	Prakash (C)	158.1	113.9	242.2	166.00	3.0
	JH 3459 (C)	160.8	109.8	212.0	158.00	2.0
200:60:50	31Y45	167.6	135.2	266.8	191.00	2.5
	REH 2009-12	162.5	144.5	250.9	207.00	2.0
	Prakash (C)	165.1	126.9	244.6	174.00	3.5
	JH 3459 (C)	161.5	116.7	229.4	163.33	3.0

Location mean	163.5	126.8	242.0	181.58	2.4
C.D.(5%) AiBj-AiBk	7.4	22.7	23.4	12.69	0.2
C.D.(5%) AiBk-AjBk	7.3	23.7	21.6	14.7	0.3
F(5%)	s	n.s.	n.s.	n.s.	s

100:40:30	161.8	121.2	234.9	183.1	2.1
150:50:40	164.5	128.5	243.2	177.8	2.4
200:60:50	164.2	130.9	247.9	183.8	2.8

C.D.(5%) Ai-Aj	3.5	13.5	7.7	10.0	0.2
C.V.(%) Error A	1.9	9.4	2.8	4.9	6.0
F(5%)	n.s.	n.s.	s	n.s.	s

31Y45	169.1	136.5	256.9	190.6	2.3
REH 2009-12	168.9	142.4	254.7	201.7	2.2
Prakash (C)	159.4	119.9	239.2	172.0	2.8
JH 3459 (C)	156.4	108.5	217.2	162.1	2.3

C.D.(5%)Bi-Bj	4.3	13.1	13.5	7.3	0.1
C.V.(%)ErrorB	2.6	10.4	5.6	4.1	6.0
F(5%)	s	s	s	s	s

Cont...

## A133

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)		Days of 50% tasseling		
		Bhubaneswar	Dholi	Dholi	Ranchi	Varanasi
100:40:30	31Y45	72.0	53.1	56.3	49.0	51.00
	REH 2009-12	79.5	58.5	57.7	51.0	50.33
	Prakash (C)	66.1	50.6	50.7	49.0	45.00
	JH 3459 (C)	67.7	43.0	55.3	49.0	48.00
150:50:40	31Y45	70.1	54.1	56.3	49.0	50.00
	REH 2009-12	74.9	62.8	56.3	48.0	48.67
	Prakash (C)	71.7	47.0	50.7	48.0	45.00
	JH 3459 (C)	74.4	44.8	55.7	50.0	47.33
200:60:50	31Y45	75.7	53.8	54.3	50.0	49.33
	REH 2009-12	75.2	65.7	55.7	48.0	49.00
	Prakash (C)	69.5	54.8	49.7	46.0	44.67
	JH 3459 (C)	74.1	51.8	52.7	48.0	46.67

Location mean	72.6	53.3	54.3	48.8	47.92
C.D.(5%) AiBj-AiBk	3.8	11.6	1.7	1.0	1.75
C.D.(5%) AiBk-AjBk	4.1	10.6	2.3	2.5	1.9
F(5%)	s	n.s.	n.s.	s	n.s.

100:40:30	71.3	51.3	55.0	49.5	48.6
150:50:40	72.8	52.2	54.8	48.8	47.8
200:60:50	73.6	56.5	53.1	48.0	47.4

C.D.(5%) Ai-Aj	2.5	3.4	1.8	2.4	1.2
C.V.(%) Error A	3.1	5.6	3.0	4.3	2.1
F(5%)	n.s.	s	n.s.	n.s.	n.s.

31Y45	72.6	53.6	55.7	49.3	50.1
REH 2009-12	76.5	62.3	56.6	49.0	49.3
Prakash (C)	69.1	50.8	50.3	47.7	44.9
JH 3459 (C)	72.1	46.5	54.6	49.0	47.3

C.D.(5%)Bi-Bj	2.2	6.7	1.0	0.6	1.0
C.V.(%)ErrorB	3.1	12.7	1.8	1.2	2.1
F(5%)	s	s	s	s	s

Cont...



# A134

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking				Banded leaf & Sheath blight
		Bhubaneswar	Dholi	Ranchi	Varanasi	Ranchi
100:40:30	31Y45	50.0	59.3	53.0	54.00	2.5
	REH 2009-12	51.3	60.7	55.0	55.00	2.0
	Prakash (C)	48.3	53.3	53.0	48.33	2.0
	JH 3459 (C)	48.0	58.3	53.0	52.00	2.3
150:50:40	31Y45	49.0	59.0	52.7	53.67	2.5
	REH 2009-12	51.7	59.3	51.7	53.00	2.0
	Prakash (C)	47.0	55.3	51.7	48.67	2.0
	JH 3459 (C)	48.0	58.0	53.7	51.00	3.0
200:60:50	31Y45	47.3	57.3	53.3	53.00	3.0
	REH 2009-12	50.3	59.3	51.3	53.67	2.0
	Prakash (C)	48.0	52.3	49.3	47.33	3.0
	JH 3459 (C)	47.3	56.0	51.3	51.00	3.0

Location mean	48.9	57.4	52.4	51.72	2.4
C.D.(5%) AiBj-AiBk	1.8	2.4	1.0	2.32	0.4
C.D.(5%) AiBk-AjBk	1.9	2.6	2.0	2.3	0.5
F(5%)	n.s.	n.s.	s	n.s.	s

100:40:30	49.4	57.9	53.5	52.3	2.2
150:50:40	48.9	57.9	52.4	51.6	2.4
200:60:50	48.3	56.3	51.3	51.3	2.8

C.D.(5%) Ai-Aj	1.0	1.6	1.9	1.1	0.4
C.V.(%) Error A	1.8	2.4	3.1	2.0	13.0
F(5%)	n.s.	n.s.	n.s.	n.s.	s

31Y45	48.8	58.6	53.0	53.6	2.7
REH 2009-12	51.1	59.8	52.7	53.9	2.0
Prakash (C)	47.8	53.7	51.3	48.1	2.3
JH 3459 (C)	47.8	57.4	52.7	51.3	2.8

C.D.(5%)Bi-Bj	1.1	1.4	0.6	1.3	0.2
C.V.(%)ErrorB	2.2	2.5	1.1	2.6	8.4
F(5%)	s	s	s	s	s

Cont...

## A135

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% pollen shed	Days to 75% dry husk		Days of germination	No. of barren plant ( <sup>'000</sup> /ha)
		Bhubaneswar	Dholi	Dholi	Varanasi	
100:40:30	31Y45	49.0	84.0	88.3	4.3	1.4
	REH 2009-12	50.0	86.0	90.3	4.3	2.1
	Prakash (C)	47.0	85.3	82.0	4.7	2.8
	JH 3459 (C)	46.0	84.0	89.0	4.7	0.0
150:50:40	31Y45	47.3	84.7	89.3	4.3	0.0
	REH 2009-12	50.0	84.0	92.0	4.0	0.7
	Prakash (C)	45.7	85.0	83.3	4.7	4.9
	JH 3459 (C)	46.0	84.0	89.7	4.7	0.0
200:60:50	31Y45	46.0	83.0	88.3	4.3	1.4
	REH 2009-12	48.0	86.0	90.7	4.3	0.0
	Prakash (C)	46.0	84.0	82.3	4.3	4.2
	JH 3459 (C)	45.7	85.3	86.0	4.3	2.1

Location mean	47.2	84.6	87.6	4.4	1.6
C.D.(5%) AiBj-AiBk	1.8	1.5	3.1	1.0	3.6
C.D.(5%) AiBk-AjBk	1.9	2.3	3.4	1.0	3.5
F(5%)	n.s.	s	n.s.	n.s.	n.s.

100:40:30	48.0	84.8	87.4	4.5	1.6
150:50:40	47.3	84.4	88.6	4.4	1.4
200:60:50	46.4	84.6	86.8	4.3	1.9

C.D.(5%) Ai-Aj	1.2	1.9	2.2	0.6	1.8
C.V.(%) Error A	2.2	2.0	2.2	12.2	97.0
F(5%)	s	n.s.	n.s.	n.s.	n.s.

31Y45	47.4	83.9	88.7	4.3	0.9
REH 2009-12	49.3	85.3	91.0	4.2	0.9
Prakash (C)	46.2	84.8	82.6	4.6	3.9
JH 3459 (C)	45.9	84.4	88.2	4.6	0.7

C.D.(5%)Bi-Bj	1.0	0.9	1.8	0.6	2.1
C.V.(%)ErrorB	2.2	1.0	2.1	13.1	128.6
F(5%)	s	s	s	n.s.	s

Cont...

## A136

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Shelling (%)	100 grain wt. (gm)	Cob length (cm)	No of grain rows/cob	No of grains/row	Moisture (%)
100:40:30	31Y45	78.6	28.3	17.9	14.1	36.4	18.7
	REH 2009-12	79.7	30.4	16.6	13.9	27.8	18.7
	Prakash (C)	77.6	29.1	16.3	12.4	30.3	18.6
	JH 3459 (C)	78.5	30.5	17.1	15.4	31.7	18.2
150:50:40	31Y45	78.0	30.3	18.9	18.3	34.7	19.3
	REH 2009-12	79.6	30.1	17.6	14.9	33.9	18.8
	Prakash (C)	77.5	31.5	18.4	13.8	32.9	19.4
	JH 3459 (C)	78.5	30.9	19.7	14.7	40.9	17.9
200:60:50	31Y45	78.5	29.4	16.9	16.5	32.7	19.4
	REH 2009-12	78.9	32.2	16.8	13.9	32.6	19.1
	Prakash (C)	77.3	30.6	17.1	14.4	28.1	18.7
	JH 3459 (C)	79.0	31.3	18.3	13.9	37.9	18.6

Location mean	78.5	30.4	17.7	14.7	33.3	18.8
C.D.(5%) AiBj-AiBk	1.2	1.8	1.8	1.8	3.5	1.2
C.D.(5%) AiBk-AjBk	1.4	1.8	1.5	1.7	3.3	1.1
F(5%)	n.s.	n.s.	n.s.	s	s	n.s.

100:40:30	78.6	29.6	17.0	13.9	31.5	18.6
150:50:40	78.4	30.7	18.7	15.4	35.6	18.8
200:60:50	78.4	30.9	17.3	14.7	32.8	19.0

C.D.(5%) Ai-Aj	0.9	1.0	0.2	0.6	1.5	0.2
C.V.(%) Error A	1.0	2.9	0.9	3.5	3.9	1.1
F(5%)	n.s.	s	s	s	s	s

31Y45	78.4	29.4	17.9	16.3	34.6	19.1
REH 2009-12	79.4	30.9	17.0	14.2	31.4	18.8
Prakash (C)	77.5	30.4	17.3	13.5	30.4	18.9
JH 3459 (C)	78.7	30.9	18.4	14.6	36.8	18.2

C.D.(5%)Bi-Bj	0.7	1.0	1.0	1.1	2.0	0.7
C.V.(%)ErrorB	0.9	3.4	5.8	7.3	6.0	3.7
F(5%)	s	s	s	s	s	n.s.

# A137

**Table 14: Relative performance of pre-release germplasm of early maturity at different NPK levels of during *Kharif* 2012 in zone IV.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)				
		Arabhazi	Hyderabad	Karimnagar	Kolhapur	Vagarai
100:40:30	SUN VAAMAN	6705	5784	7224	4907	6325
	FH 3513	7144	6561	6235	6313	5271
	Prakash (C)	3269	6778	5929	3429	4785
	JH 3459 (C)	3355	6492	4705	2787	5121
150:50:40	SUN VAAMAN	7887	6426	8571	6329	6509
	FH 3513	8391	7201	8086	6851	5369
	Prakash (C)	5058	6882	6887	4618	5191
	JH 3459 (C)	4204	7039	5974	4091	4916
200:60:50	SUN VAAMAN	8414	7017	9260	7282	6785
	FH 3513	8448	7426	8567	8067	5460
	Prakash (C)	5881	7073	7396	5140	5215
	JH 3459 (C)	4528	7107	6825	4800	4931

Location mean	6107.0	6815.4	7138.1	5384.4	5489.7
C.D.(5%) AiBj-AiBk	1308.7	596.7	778.0	1327.0	175.4
C.D.(5%) AiBk-AjBk	1467.1	666.1	745.3	1217.1	257.5
F(5%)	n.s.	n.s.	n.s.	n.s.	s

100:40:30	5118	6404	6023	4359	5375
150:50:40	6385	6887	7379	5472	5496
200:60:50	6818	7156	8012	6322	5597

C.D.(5%) Ai-Aj	951.8	429.5	327.2	412.3	210.9
C.V.(%) Error A	13.8	5.6	4.0	6.8	3.4
F(5%)	s	s	s	s	n.s.

SUN VAAMAN	7669	6409	8351	6173	6540
FH 3513	7995	7063	7629	7077	5367
Prakash (C)	4736	6911	6737	4396	5064
JH 3459 (C)	4029	6879	5835	3893	4989

C.D.(5%)Bi-Bj	755.6	344.5	449.2	766.1	101.3
C.V.(%)ErrorB	12.5	5.1	6.4	14.4	1.9
F(5%)	s	s	s	s	s

Cont...

# A138

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
100:40:30	SUN VAAMAN	8489	8954	8889	5820	7477
	FH 3513	8733	8895	7574	7698	6403
	Prakash (C)	3867	8470	7254	4040	5912
	JH 3459 (C)	4044	8519	6033	3271	5993
150:50:40	SUN VAAMAN	9711	10304	10435	7544	7831
	FH 3513	10244	9941	9612	8107	6538
	Prakash (C)	5911	8331	8309	5438	6119
	JH 3459 (C)	5156	8885	7481	4869	5881
200:60:50	SUN VAAMAN	10289	10623	11160	8211	8106
	FH 3513	10356	11038	10076	9751	6479
	Prakash (C)	7111	9521	8781	6036	6138
	JH 3459 (C)	5533	9487	8163	5656	5776

Location mean	7453.7	9414.0	8647.3	6370.0	6554.4
C.D.(5%) AiBj-AiBk	1528.0	875.4	817.1	1624.5	145.7
C.D.(5%) AiBk-AjBk	1734.1	1141.0	793.4	1495.2	167.9
F(5%)	n.s.	n.s.	n.s.	n.s.	s

100:40:30	6283	8709	7438	5207	6446
150:50:40	7756	9365	8960	6489	6592
200:60:50	8322	10167	9545	7413	6625

C.D.(5%) Ai-Aj	1144.6	867.6	368.5	520.6	113.0
C.V.(%) Error A	13.6	8.1	3.8	7.2	1.5
F(5%)	s	s	s	s	s

SUN VAAMAN	9496	9960	10161	7192	7805
FH 3513	9778	9958	9087	8519	6473
Prakash (C)	5630	8774	8115	5171	6056
JH 3459 (C)	4911	8964	7226	4599	5883

C.D.(5%)Bi-Bj	882.2	505.4	471.7	937.9	84.1
C.V.(%)ErrorB	11.9	5.4	5.5	14.9	1.3
F(5%)	s	s	s	s	s

Cont...

## A139

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Fodder yield (kg/ha)	No. of plants ('000/ha)			
			Arabhavi	Arabhavi	Hyderabad	Kolhapur
100:40:30	SUN VAAMAN	3556	52.4	44.4	69.8	62.5
	FH 3513	4267	49.3	46.4	74.4	62.3
	Prakash (C)	2178	46.7	47.6	76.0	63.4
	JH 3459 (C)	2089	44.9	44.2	81.1	62.0
150:50:40	SUN VAAMAN	5356	51.3	45.6	76.2	63.2
	FH 3513	4311	51.3	47.6	76.7	62.7
	Prakash (C)	2844	53.1	45.8	77.8	63.2
	JH 3459 (C)	2356	44.2	44.9	79.3	63.2
200:60:50	SUN VAAMAN	4756	50.4	44.9	74.9	63.7
	FH 3513	5422	49.1	45.3	74.2	63.2
	Prakash (C)	4067	51.8	45.3	76.7	63.9
	JH 3459 (C)	2578	48.7	44.9	76.0	62.7

Location mean	3648.1	49.4	45.6	76.1	63.0
C.D.(5%) AiBj-AiBk	991.5	6.2	2.9	8.8	2.4
C.D.(5%) AiBk-AjBk	1009.5	7.4	7.1	10.5	2.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	3022	48.3	45.7	75.3	62.6
150:50:40	3717	50.0	45.9	77.5	63.1
200:60:50	4206	50.0	45.1	75.4	63.4

C.D.(5%) Ai-Aj	544.1	5.2	6.6	7.3	1.3
C.V.(%) Error A	13.2	9.3	12.9	8.4	1.8
F(5%)	s	n.s.	n.s.	n.s.	n.s.

SUN VAAMAN	4556	51.4	45.0	73.6	63.1
FH 3513	4667	49.9	46.4	75.1	62.7
Prakash (C)	3030	50.5	46.2	76.8	63.5
JH 3459 (C)	2341	45.9	44.7	78.8	62.7

C.D.(5%)Bi-Bj	572.4	3.6	1.7	5.1	1.4
C.V.(%)ErrorB	15.8	7.3	3.7	6.8	2.2
F(5%)	s	s	n.s.	n.s.	n.s.

Cont...

## A140

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)			1000 seed wt (g)	
		Arabhavi	Hyderabad	Vagarai	Hyderabad	Karimnagar
100:40:30	SUN VAAMAN	49.6	40.0	59.3	333.3	330.0
	FH 3513	51.1	44.2	60.0	380.0	310.0
	Prakash (C)	51.1	44.0	60.9	286.7	276.7
	JH 3459 (C)	43.8	42.9	59.3	286.7	263.3
150:50:40	SUN VAAMAN	53.1	44.7	60.2	393.3	353.3
	FH 3513	57.8	44.4	59.5	386.7	330.0
	Prakash (C)	57.3	41.8	59.1	340.0	320.0
	JH 3459 (C)	45.8	42.7	58.8	293.3	283.3
200:60:50	SUN VAAMAN	50.7	46.9	60.6	413.3	373.3
	FH 3513	52.9	47.1	60.7	400.0	340.0
	Prakash (C)	53.8	45.3	61.6	366.7	335.0
	JH 3459 (C)	47.8	46.7	60.2	360.0	313.3

Location mean	51.2	44.2	60.0	353.3	319.0
C.D.(5%) AiBj-AiBk	6.0	3.1	2.5	55.4	37.9
C.D.(5%) AiBk-AjBk	6.2	3.5	2.3	50.1	36.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	48.9	42.8	59.8	321.7	295.0
150:50:40	53.5	43.4	59.4	353.3	321.7
200:60:50	51.3	46.5	60.8	385.0	340.4

C.D.(5%) Ai-Aj	3.5	2.4	0.9	14.6	16.2
C.V.(%) Error A	6.0	4.7	1.3	3.7	4.5
F(5%)	n.s.	s	s	s	s

SUN VAAMAN	51.1	43.9	60.0	380.0	352.2
FH 3513	53.9	45.3	60.1	388.9	326.7
Prakash (C)	54.1	43.7	60.5	331.1	310.6
JH 3459 (C)	45.8	44.1	59.4	313.3	286.7

C.D.(5%)Bi-Bj	3.5	1.8	1.4	32.0	21.9
C.V.(%)ErrorB	6.9	4.0	2.4	9.1	6.9
F(5%)	s	n.s.	n.s.	s	s

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# A141

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				
		Arabhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
100:40:30	SUN VAAMAN	151.7	119.7	180.8	161.0	118.5
	FH 3513	141.3	117.3	165.4	147.3	110.2
	Prakash (C)	154.3	117.3	205.7	160.7	128.9
	JH 3459 (C)	150.3	120.7	193.3	150.0	128.4
150:50:40	SUN VAAMAN	146.3	124.3	187.1	171.0	123.8
	FH 3513	152.7	132.7	181.2	155.0	113.0
	Prakash (C)	151.0	132.0	210.7	176.0	131.0
	JH 3459 (C)	153.7	118.0	196.9	166.7	127.3
200:60:50	SUN VAAMAN	153.7	135.0	193.3	184.7	127.1
	FH 3513	155.7	140.0	185.1	167.0	115.3
	Prakash (C)	151.0	152.0	219.6	180.0	133.6
	JH 3459 (C)	147.7	139.7	197.8	170.3	125.5

Location mean	150.8	129.1	193.1	165.8	123.6
C.D.(5%) AiBj-AiBk	12.7	10.2	9.1	14.4	4.1
C.D.(5%) AiBk-AjBk	11.8	14.7	10.0	13.5	4.6
F(5%)	n.s.	s	n.s.	n.s.	s

100:40:30	149.4	118.8	186.3	154.8	121.5
150:50:40	150.9	126.8	194.0	167.2	123.8
200:60:50	152.0	141.7	198.9	175.5	125.4

C.D.(5%) Ai-Aj	4.5	11.9	6.3	5.1	2.9
C.V.(%) Error A	2.6	8.2	2.9	2.7	2.1
F(5%)	n.s.	s	s	s	s

SUN VAAMAN	150.6	126.3	187.1	172.2	123.1
FH 3513	149.9	130.0	177.3	156.4	112.8
Prakash (C)	152.1	133.8	212.0	172.2	131.2
JH 3459 (C)	150.6	126.1	196.0	162.3	127.1

C.D.(5%)Bi-Bj	7.3	5.9	5.3	8.3	2.4
C.V.(%)ErrorB	4.9	4.6	2.8	5.1	2.0
F(5%)	n.s.	s	s	s	s

Cont...



## A142

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)				Moisture (%)
		Arabhavi	Hyderabad	Karimnagar	Vagarai	Arabhavi
100:40:30	SUN VAAMAN	73.0	48.8	73.0	58.5	21.2
	FH 3513	63.9	48.3	77.0	58.4	20.0
	Prakash (C)	77.7	49.2	91.3	66.2	17.0
	JH 3459 (C)	67.0	57.5	94.0	70.9	21.9
150:50:40	SUN VAAMAN	70.3	49.6	75.3	56.1	20.9
	FH 3513	70.0	51.8	81.3	59.5	21.2
	Prakash (C)	72.7	60.7	100.0	70.4	16.9
	JH 3459 (C)	70.0	52.0	94.3	65.4	21.2
200:60:50	SUN VAAMAN	72.3	57.7	81.7	55.6	20.3
	FH 3513	75.3	62.9	84.3	59.7	21.8
	Prakash (C)	69.3	68.9	102.0	67.1	17.2
	JH 3459 (C)	67.0	59.5	94.0	63.5	21.1

Location mean	70.7	55.6	87.4	62.6	20.1
C.D.(5%) AiBj-AiBk	7.9	9.6	12.2	8.7	1.9
C.D.(5%) AiBk-AjBk	7.3	11.6	11.1	9.2	2.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	70.4	51.0	83.8	63.5	20.0
150:50:40	70.8	53.5	87.8	62.9	20.1
200:60:50	71.0	62.3	90.5	61.5	20.1

C.D.(5%) Ai-Aj	2.5	8.2	3.4	5.5	1.4
C.V.(%) Error A	3.2	13.1	3.5	7.7	6.2
F(5%)	n.s.	s	s	n.s.	n.s.

SUN VAAMAN	71.9	52.0	76.7	56.7	20.8
FH 3513	69.8	54.3	80.9	59.2	21.0
Prakash (C)	73.2	59.6	97.8	67.9	17.1
JH 3459 (C)	68.0	56.3	94.1	66.6	21.4

C.D.(5%)Bi-Bj	4.6	5.5	7.0	5.0	1.1
C.V.(%)ErrorB	6.5	10.1	8.1	8.1	5.6
F(5%)	n.s.	n.s.	s	s	s

Cont...

# A143

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling				No. of leaves/plant
		Arabhazi	Hyderabad	Karimnagar	Vagarai	Arabhazi
100:40:30	SUN VAAMAN	56.7	47.0	43.3	49.3	11.3
	FH 3513	57.3	49.3	43.7	49.0	10.5
	Prakash (C)	57.0	47.3	43.0	50.0	12.0
	JH 3459 (C)	57.7	47.0	43.3	50.0	11.7
150:50:40	SUN VAAMAN	56.3	48.0	43.0	49.7	11.5
	FH 3513	57.3	51.0	43.3	49.0	11.5
	Prakash (C)	56.7	49.3	42.3	48.0	11.2
	JH 3459 (C)	57.7	48.3	43.0	49.7	11.4
200:60:50	SUN VAAMAN	56.7	50.0	43.7	49.0	11.1
	FH 3513	56.7	52.0	43.3	49.0	11.7
	Prakash (C)	56.0	50.0	43.3	49.3	11.2
	JH 3459 (C)	56.3	49.3	42.7	49.7	12.2

Location mean	56.9	49.1	43.2	49.3	11.4
C.D.(5%) AiBj-AiBk	1.7	1.5	1.3	1.1	1.2
C.D.(5%) AiBk-AjBk	1.9	1.6	1.4	1.4	1.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	57.2	47.7	43.3	49.6	11.4
150:50:40	57.0	49.2	42.9	49.1	11.4
200:60:50	56.4	50.3	43.3	49.3	11.5

C.D.(5%) Ai-Aj	1.2	1.0	0.8	1.1	1.1
C.V.(%) Error A	1.9	1.8	1.7	2.0	8.2
F(5%)	n.s.	s	n.s.	n.s.	n.s.

SUN VAAMAN	56.6	48.3	43.3	49.3	11.3
FH 3513	57.1	50.8	43.4	49.0	11.2
Prakash (C)	56.6	48.9	42.9	49.1	11.5
JH 3459 (C)	57.2	48.2	43.0	49.8	11.8

C.D.(5%)Bi-Bj	1.0	0.9	0.7	0.6	0.7
C.V.(%)ErrorB	1.7	1.8	1.7	1.3	6.2
F(5%)	n.s.	s	n.s.	n.s.	n.s.

Cont...

# A144

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking				Single cob weight (g)
		Arabhavi	Hyderabad	Kolhapur	Vagarai	Karimnagar
100:40:30	SUN VAAMAN	57.0	49.0	58.0	51.3	198.7
	FH 3513	58.0	51.3	58.7	50.7	163.3
	Prakash (C)	57.0	49.3	54.3	51.0	149.0
	JH 3459 (C)	58.0	49.0	56.3	51.3	151.7
150:50:40	SUN VAAMAN	56.7	50.0	56.3	51.7	216.0
	FH 3513	57.7	53.0	56.7	51.0	178.3
	Prakash (C)	57.3	51.3	53.3	49.0	158.0
	JH 3459 (C)	57.7	50.3	56.0	51.0	165.3
200:60:50	SUN VAAMAN	57.0	52.0	56.0	51.7	237.0
	FH 3513	57.7	53.7	56.0	50.7	193.3
	Prakash (C)	56.0	51.0	52.3	50.3	172.7
	JH 3459 (C)	57.0	51.3	55.0	50.7	185.7

Location mean	57.3	50.9	55.8	50.9	180.8
C.D.(5%) AiBj-AiBk	1.2	1.4	1.2	1.5	23.7
C.D.(5%) AiBk-AjBk	1.2	1.6	1.4	1.8	22.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	57.5	49.7	56.8	51.1	165.7
150:50:40	57.3	51.2	55.6	50.7	179.4
200:60:50	56.9	52.0	54.8	50.8	197.2

C.D.(5%) Ai-Aj	0.5	1.0	1.0	1.3	8.5
C.V.(%) Error A	0.7	1.8	1.6	2.3	4.1
F(5%)	n.s.	s	s	n.s.	s

SUN VAAMAN	56.9	50.3	56.8	51.6	217.2
FH 3513	57.8	52.7	57.1	50.8	178.3
Prakash (C)	56.8	50.6	53.3	50.1	159.9
JH 3459 (C)	57.6	50.2	55.8	51.0	167.6

C.D.(5%)Bi-Bj	0.7	0.8	0.7	0.9	13.7
C.V.(%)ErrorB	1.3	1.6	1.3	1.7	7.6
F(5%)	s	s	s	s	s

Cont...

# A145

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Shelling (%)				Cob girth (cm)
		Arabhavi	Hyderabad	Karimnagar	Vagarai	Arabhavi
100:40:30	SUN VAAMAN	79.0	64.7	81.2	84.6	4.8
	FH 3513	81.9	74.3	82.3	82.3	4.3
	Prakash (C)	84.6	80.6	81.7	81.0	4.2
	JH 3459 (C)	83.1	76.6	77.6	85.4	4.4
150:50:40	SUN VAAMAN	81.2	62.8	82.2	83.1	4.4
	FH 3513	81.9	72.5	84.1	82.1	4.4
	Prakash (C)	85.6	83.0	82.9	84.8	4.4
	JH 3459 (C)	81.6	79.2	79.7	83.6	4.4
200:60:50	SUN VAAMAN	81.7	66.4	82.9	83.7	4.4
	FH 3513	81.6	67.5	85.0	84.3	4.5
	Prakash (C)	82.5	74.3	84.2	85.0	4.3
	JH 3459 (C)	81.8	75.1	83.6	85.4	4.5

Location mean	82.2	73.1	82.3	83.8	4.4
C.D.(5%) AiBj-AiBk	2.7	10.9	3.8	3.2	0.3
C.D.(5%) AiBk-AjBk	2.7	13.8	4.4	4.5	0.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	82.1	74.1	80.7	83.3	4.4
150:50:40	82.6	74.4	82.2	83.4	4.4
200:60:50	81.9	70.8	84.0	84.6	4.4

C.D.(5%) Ai-Aj	1.3	10.3	2.9	3.5	0.3
C.V.(%) Error A	1.4	12.5	3.1	3.7	6.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

SUN VAAMAN	80.6	64.6	82.1	83.8	4.5
FH 3513	81.8	71.4	83.8	82.9	4.4
Prakash (C)	84.2	79.3	82.9	83.6	4.3
JH 3459 (C)	82.2	77.0	80.3	84.8	4.4

C.D.(5%)Bi-Bj	1.6	6.3	2.2	1.9	0.2
C.V.(%)ErrorB	1.9	8.7	2.7	2.3	4.4
F(5%)	s	s	s	n.s.	n.s.

Cont...

## A146

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob length (cm)			Cob width (cm)	
		Arabhavi	Hyderabad	Karimnagar	Hyderabad	Karimnagar
100:40:30	SUN VAAMAN	18.3	15.8	16.9	13.5	14.5
	FH 3513	17.1	15.2	16.7	13.1	13.6
	Prakash (C)	16.5	14.8	16.1	12.0	12.6
	JH 3459 (C)	17.0	15.1	15.7	12.5	13.9
150:50:40	SUN VAAMAN	17.6	16.8	17.5	14.2	15.1
	FH 3513	17.0	16.6	17.7	14.0	14.4
	Prakash (C)	17.1	16.7	17.0	13.9	13.0
	JH 3459 (C)	17.2	16.5	16.7	13.7	14.6
200:60:50	SUN VAAMAN	16.7	16.0	19.3	13.2	15.6
	FH 3513	17.4	16.5	18.2	13.4	15.2
	Prakash (C)	17.3	17.3	17.6	12.6	13.8
	JH 3459 (C)	16.4	15.3	17.2	13.1	14.9

Location mean	17.1	16.1	17.2	13.3	14.3
C.D.(5%) AiBj-AiBk	2.0	1.7	2.0	0.9	1.3
C.D.(5%) AiBk-AjBk	2.5	1.6	1.9	1.2	1.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	17.2	15.3	16.3	12.8	13.6
150:50:40	17.2	16.7	17.3	13.9	14.3
200:60:50	17.0	16.3	18.1	13.1	14.9

C.D.(5%) Ai-Aj	1.8	0.7	0.8	0.9	0.2
C.V.(%) Error A	9.3	3.9	4.1	5.9	1.0
F(5%)	n.s.	s	s	s	s

SUN VAAMAN	17.5	16.2	17.9	13.6	15.1
FH 3513	17.2	16.1	17.5	13.5	14.4
Prakash (C)	17.0	16.3	16.9	12.8	13.1
JH 3459 (C)	16.9	15.6	16.5	13.1	14.4

C.D.(5%)Bi-Bj	1.2	1.0	1.2	0.5	0.7
C.V.(%)ErrorB	6.9	6.1	6.8	4.1	5.2
F(5%)	n.s.	n.s.	n.s.	s	s

Cont...

# A147

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. grains/kernel row			No. of kernel rows/cob		
		Arabhavi	Hyderabad	Karimnagar	Arabhavi	Hyderabad	Karimnagar
100:40:30	SUN VAAMAN	15.1	14.0	13.5	39.4	33.7	32.4
	FH 3513	14.5	14.6	13.5	40.9	36.2	29.0
	Prakash (C)	15.2	13.3	12.5	39.2	34.7	32.7
	JH 3459 (C)	14.5	14.9	14.9	38.4	33.1	31.7
150:50:40	SUN VAAMAN	14.8	14.2	14.2	41.2	36.9	34.1
	FH 3513	14.3	14.5	14.6	39.8	39.2	30.6
	Prakash (C)	14.9	13.9	13.1	40.7	36.7	34.2
	JH 3459 (C)	13.5	15.6	16.1	41.1	35.1	32.6
200:60:50	SUN VAAMAN	14.5	14.1	14.8	40.3	37.8	36.0
	FH 3513	14.0	15.3	14.9	41.5	40.5	34.1
	Prakash (C)	14.0	13.6	13.6	40.5	39.3	34.8
	JH 3459 (C)	15.3	14.9	16.4	38.8	37.8	34.1

Location mean	14.6	14.4	14.3	40.2	36.8	33.0
C.D.(5%) AiBj-AiBk	2.2	1.9	1.0	4.3	3.1	3.9
C.D.(5%) AiBk-AjBk	1.9	2.4	0.9	4.3	3.7	3.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	14.8	14.2	13.6	39.5	34.4	31.5
150:50:40	14.4	14.6	14.5	40.7	37.0	32.9
200:60:50	14.5	14.5	14.9	40.3	38.9	34.8

C.D.(5%) Ai-Aj	0.4	1.8	0.2	2.2	2.6	1.3
C.V.(%) Error A	2.7	11.3	1.2	4.9	6.2	3.4
F(5%)	n.s.	n.s.	s	n.s.	s	s

SUN VAAMAN	14.8	14.1	14.1	40.3	36.1	34.2
FH 3513	14.3	14.8	14.3	40.7	38.6	31.2
Prakash (C)	14.7	13.6	13.1	40.2	36.9	33.9
JH 3459 (C)	14.4	15.2	15.8	39.4	35.3	32.8

C.D.(5%)Bi-Bj	1.3	1.1	0.6	2.5	1.8	2.2
C.V.(%)ErrorB	8.7	7.5	4.1	6.2	4.9	6.8
F(5%)	n.s.	s	s	n.s.	s	s

# A148

**Table 15: Relative performance of pre-release germplasm of early maturity at different NPK levels of during *Kharif* 2012 in zone V.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
100:40:30	FH 3513	4156	4289	3311	3804	4274	4320
	REH 2009-12	4044	4200	4600	4000	4037	3727
	31Y45	4533	4467	4844	2252	5385	2338
	Prakash (C)	3956	3533	4044	2999	5119	3344
	JH 3459 (C)	3311	2844	3267	2056	3985	3450
150:50:40	FH 3513	4489	5222	3667	3487	4511	4424
	REH 2009-12	5044	5044	5000	4258	4663	3840
	31Y45	5578	5667	5400	3081	6289	2433
	Prakash (C)	4467	4533	4744	4169	5252	3444
	JH 3459 (C)	4062	3556	3511	2041	4522	3517
200:60:50	FH 3513	5000	5511	4089	2163	4615	4424
	REH 2009-12	5556	5333	5600	3799	4548	3845
	31Y45	5644	6044	6033	5102	5800	2428
	Prakash (C)	4533	4756	5844	3567	4889	3419
	JH 3459 (C)	4622	4089	4067	2456	4259	3716

Location mean	4599.7	4605.9	4534.8	3282.4	4809.9	3511.2
C.D.(5%) AiBj-AiBk	1069.0	782.1	645.9	729.7	547.7	250.7
C.D.(5%) AiBk-AjBk	1025.5	726.5	583.3	768.3	648.3	400.0
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

100:40:30	4000	3867	4013	3022	4560	3436
150:50:40	4728	4804	4464	3407	5047	3531
200:60:50	5071	5147	5127	3417	4822	3566

C.D.(5%) Ai-Aj	382.4	202.6	83.4	416.6	434.8	333.2
C.V.(%) Error A	8.2	4.3	1.8	12.5	8.9	12.3
F(5%)	s	s	s	n.s.	n.s.	n.s.

FH 3513	4548	5007	3689	3152	4467	4389
REH 2009-12	4881	4859	5067	4019	4416	3804
31Y45	5252	5393	5426	3479	5825	2400
Prakash (C)	4319	4274	4878	3578	5086	3402
JH 3459 (C)	3999	3496	3615	2185	4256	3561

C.D.(5%)Bi-Bj	617.2	451.6	372.9	421.3	316.2	144.7
C.V.(%)ErrorB	13.8	10.1	8.5	13.2	6.8	5.0
F(5%)	s	s	s	s	s	s

Cont...

## A149

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob yield (kg/ha)			Fodder yield (kg/ha)
		Ambikapur	Banswara	Jhabua	Godhra
100:40:30	FH 3513	4978	5222	5542	4148
	REH 2009-12	5022	5489	4885	6074
	31Y45	5289	5689	6690	3111
	Prakash (C)	4556	4978	6522	3230
	JH 3459 (C)	3911	4044	4656	2222
150:50:40	FH 3513	5489	6289	5919	3259
	REH 2009-12	6244	6111	5685	5985
	31Y45	6400	6822	7708	4000
	Prakash (C)	5244	5444	6833	3259
	JH 3459 (C)	4822	4644	5219	1926
200:60:50	FH 3513	5978	7000	5978	2222
	REH 2009-12	7022	6800	5589	7111
	31Y45	6556	7756	7130	4296
	Prakash (C)	5333	6044	6556	4296
	JH 3459 (C)	5467	5489	4993	2311

Location mean	5487.4	5854.8	5993.6	3830.1
C.D.(5%) AiBj-AiBk	1231.7	937.7	647.3	1021.3
C.D.(5%) AiBk-AjBk	1193.1	863.4	773.7	1155.9
F(5%)	n.s.	n.s.	n.s.	s

100:40:30	4751	5084	5659	3757
150:50:40	5640	5862	6273	3686
200:60:50	6071	6618	6049	4047

C.D.(5%) Ai-Aj	472.5	211.8	525.2	726.2
C.V.(%) Error A	8.5	3.6	8.6	18.7
F(5%)	s	s	n.s.	n.s.

FH 3513	5481	6170	5813	3210
REH 2009-12	6096	6133	5386	6390
31Y45	6081	6756	7176	3802
Prakash (C)	5044	5489	6637	3595
JH 3459 (C)	4733	4726	4956	2153

C.D.(5%)Bi-Bj	711.1	541.4	373.7	589.7
C.V.(%)ErrorB	13.3	9.5	6.4	15.8
F(5%)	s	s	s	s

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## A150

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plants ('000/ha)					
		Ambikapur	Banswara	Chhindwara	*Godhra	Jhabua	Udaipur
100:40:30	FH 3513	64.4	65.6	58.5	41.5	64.4	60.0
	REH 2009-12	66.7	65.3	62.2	46.8	63.0	56.7
	31Y45	67.1	65.8	58.9	35.0	64.1	53.3
	Prakash (C)	66.2	65.6	58.5	41.5	65.6	58.7
	JH 3459 (C)	67.3	58.4	56.7	19.3	61.9	53.0
150:50:40	FH 3513	65.3	65.8	59.3	44.1	64.1	60.0
	REH 2009-12	65.8	66.2	63.7	51.3	62.6	57.5
	31Y45	66.2	66.7	62.2	34.1	64.8	53.3
	Prakash (C)	66.2	65.8	61.1	43.0	66.7	58.7
	JH 3459 (C)	65.1	63.8	61.5	18.4	61.9	54.7
200:60:50	FH 3513	65.8	66.7	64.8	25.2	64.8	60.0
	REH 2009-12	68.0	64.4	64.4	48.3	63.3	57.5
	31Y45	65.6	66.7	64.1	36.7	65.2	53.3
	Prakash (C)	67.1	66.2	63.7	41.5	64.4	59.0
	JH 3459 (C)	66.4	66.2	62.2	15.4	63.7	54.7

Location mean	66.2	65.3	61.5	36.1	64.0	56.7
C.D.(5%) AiBj-AiBk	2.6	3.9	3.5	7.9	3.3	5.0
C.D.(5%) AiBk-AjBk	2.6	3.9	4.0	7.6	4.1	5.6
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

100:40:30	66.4	64.1	59.0	36.8	63.8	56.3
150:50:40	65.7	65.6	61.6	38.2	64.0	56.8
200:60:50	66.6	66.0	63.9	33.4	64.3	56.9

C.D.(5%) Ai-Aj	1.3	1.7	2.6	2.8	3.0	3.4
C.V.(%) Error A	2.0	2.6	4.2	7.6	4.6	7.9
F(5%)	n.s.	n.s.	s	s	n.s.	n.s.

FH 3513	65.2	66.0	60.9	36.9	64.4	60.0
REH 2009-12	66.8	65.3	63.5	48.8	63.0	57.2
31Y45	66.3	66.4	61.7	35.3	64.7	53.3
Prakash (C)	66.5	65.9	61.1	42.0	65.6	58.8
JH 3459 (C)	66.3	62.8	60.1	17.7	62.5	54.1

C.D.(5%)Bi-Bj	1.5	2.3	2.0	4.6	1.9	2.9
C.V.(%)ErrorB	2.3	3.6	3.4	13.0	3.0	6.2
F(5%)	n.s.	s	s	s	s	s

Cont...

# A151

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)				
		Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur
100:40:30	FH 3513	64.9	64.0	57.0	62.6	53.3
	REH 2009-12	66.2	64.2	57.4	60.7	50.0
	31Y45	65.6	64.7	62.6	64.4	40.0
	Prakash (C)	72.4	62.2	61.9	65.9	45.3
	JH 3459 (C)	66.4	56.2	53.7	61.5	48.0
150:50:40	FH 3513	65.3	65.3	58.5	64.4	54.7
	REH 2009-12	66.9	65.1	59.3	61.1	51.3
	31Y45	66.2	68.0	58.1	66.3	41.3
	Prakash (C)	71.8	64.7	63.0	68.1	47.2
	JH 3459 (C)	66.0	60.4	56.7	62.2	49.7
200:60:50	FH 3513	66.4	66.2	60.0	64.4	54.7
	REH 2009-12	65.1	66.0	60.4	61.1	51.3
	31Y45	65.8	68.7	62.2	64.4	41.3
	Prakash (C)	71.6	66.0	63.3	64.4	46.7
	JH 3459 (C)	66.7	65.8	60.7	61.9	49.3

Location mean	67.2	64.5	59.7	63.6	48.3
C.D.(5%) AiBj-AiBk	3.5	5.2	4.0	3.5	2.9
C.D.(5%) AiBk-AjBk	3.7	5.2	4.2	4.0	3.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	67.1	62.3	58.5	63.0	47.3
150:50:40	67.2	64.7	59.1	64.4	48.8
200:60:50	67.1	66.5	61.3	63.3	48.7

C.D.(5%) Ai-Aj	2.1	2.4	2.1	2.6	2.3
C.V.(%) Error A	3.1	3.7	3.5	4.0	6.0
F(5%)	n.s.	s	s	n.s.	n.s.

FH 3513	65.6	65.2	58.5	63.8	54.2
REH 2009-12	66.1	65.1	59.0	61.0	50.9
31Y45	65.9	67.1	61.0	65.1	40.9
Prakash (C)	71.9	64.3	62.7	66.2	46.4
JH 3459 (C)	66.4	60.8	57.0	61.9	49.0

C.D.(5%)Bi-Bj	2.0	3.0	2.3	2.0	1.7
C.V.(%)ErrorB	3.1	4.7	4.0	3.2	4.2
F(5%)	s	s	s	s	s

Cont...

## A152

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)					
		Ambikapur	Banswara	Chhindwara	Godhra	Jhabua	Udaipur
100:40:30	FH 3513	177.9	168.3	151.7	138.7	145.3	181.0
	REH 2009-12	208.0	205.0	203.3	184.3	196.5	239.3
	31Y45	233.9	208.3	202.7	179.7	190.4	230.0
	Prakash (C)	197.4	186.7	189.3	166.7	164.8	203.0
	JH 3459 (C)	170.7	178.3	177.3	148.7	150.4	192.0
150:50:40	FH 3513	177.0	182.3	157.7	142.3	150.0	182.0
	REH 2009-12	240.5	215.7	207.0	185.7	199.9	240.0
	31Y45	224.7	233.3	203.3	176.7	192.8	231.3
	Prakash (C)	196.3	204.3	193.0	158.7	173.5	204.0
	JH 3459 (C)	165.7	205.3	178.7	148.0	155.4	193.0
200:60:50	FH 3513	177.5	188.3	164.3	137.3	147.3	182.0
	REH 2009-12	241.5	230.0	212.7	187.0	197.8	240.0
	31Y45	232.3	244.0	207.0	178.7	193.3	231.0
	Prakash (C)	188.9	211.7	196.0	159.3	170.9	204.0
	JH 3459 (C)	179.3	212.3	179.3	151.0	152.1	193.0

Location mean	200.8	204.9	188.2	162.8	172.0	209.7
C.D.(5%) AiBj-AiBk	22.1	10.8	11.3	8.2	6.4	7.1
C.D.(5%) AiBk-AjBk	22.3	11.2	13.3	13.7	7.9	8.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:40:30	197.6	189.3	184.9	163.6	169.5	209.1
150:50:40	200.9	208.2	187.9	162.3	174.3	210.1
200:60:50	203.9	217.3	191.9	162.7	172.3	210.0

C.D.(5%) Ai-Aj	10.7	5.9	8.8	11.7	5.5	5.0
C.V.(%) Error A	5.3	2.8	4.6	7.1	3.2	3.1
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.

FH 3513	177.5	179.7	157.9	139.4	147.6	181.7
REH 2009-12	230.0	216.9	207.7	185.7	198.0	239.8
31Y45	230.3	228.6	204.3	178.3	192.2	230.8
Prakash (C)	194.2	200.9	192.8	161.6	169.7	203.7
JH 3459 (C)	171.9	198.7	178.4	149.2	152.6	192.7

C.D.(5%)Bi-Bj	12.8	6.2	6.5	4.7	3.7	4.1
C.V.(%)ErrorB	6.5	3.1	3.6	3.0	2.2	2.4
F(5%)	s	s	s	s	s	s

Cont...

## A153

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling			Days to 50% flowering	No of PFSR affected plant (*000/ha)
		Ambikapur	Jhabua	Udaipur	Godhra	Udaipur
100:40:30	FH 3513	48.3	50.0	42.0	53.7	85.1
	REH 2009-12	49.7	53.7	46.0	54.7	82.3
	31Y45	50.7	53.7	45.0	58.3	83.3
	Prakash (C)	49.0	47.3	38.0	51.7	86.1
	JH 3459 (C)	48.0	48.0	43.0	53.7	83.2
150:50:40	FH 3513	48.0	49.7	41.0	52.3	84.2
	REH 2009-12	49.3	52.0	45.0	53.0	82.2
	31Y45	49.7	52.3	44.0	54.3	83.3
	Prakash (C)	48.0	47.0	37.0	50.3	86.2
	JH 3459 (C)	46.0	48.3	42.0	52.7	84.7
200:60:50	FH 3513	49.0	49.7	41.0	52.3	84.2
	REH 2009-12	48.0	51.3	45.0	54.7	82.3
	31Y45	48.0	52.7	44.0	54.3	83.3
	Prakash (C)	44.7	47.0	37.0	49.3	86.2
	JH 3459 (C)	46.3	48.3	42.0	52.3	83.1

Location mean	48.2	50.1	42.1	53.2	84.0
C.D.(5%) AiBj-AiBk	1.5	1.4	2.7	0.9	4.0
C.D.(5%) AiBk-AjBk	1.6	1.8	2.9	0.9	4.3
F(5%)	s	n.s.	n.s.	s	n.s.

100:40:30	49.1	50.5	42.8	54.4	84.0
150:50:40	48.2	49.9	41.8	52.5	84.1
200:60:50	47.2	49.8	41.8	52.6	83.8

C.D.(5%) Ai-Aj	1.0	1.2	1.7	0.5	2.3
C.V.(%) Error A	2.0	2.4	5.2	0.9	3.6
F(5%)	s	n.s.	n.s.	s	n.s.

FH 3513	48.4	49.8	41.3	52.8	84.5
REH 2009-12	49.0	52.3	45.3	54.1	82.2
31Y45	49.4	52.9	44.3	55.7	83.3
Prakash (C)	47.2	47.1	37.3	50.4	86.1
JH 3459 (C)	46.8	48.2	42.3	52.9	83.6

C.D.(5%)Bi-Bj	0.9	0.8	1.6	0.5	2.3
C.V.(%)ErrorB	1.8	1.7	4.4	1.0	3.3
F(5%)	s	s	s	s	s

Cont...

# A154

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% silking					Shelling (%)	
		Ambikapur	Banswara	Chhindwara	Jhabua	Udaipur	Jhabua	Udaipur
100:40:30	FH 3513	51.7	47.7	54.3	52.3	47.0	77.3	7.0
	REH 2009-12	52.3	47.7	58.3	53.7	51.0	82.6	8.0
	31Y45	53.7	50.0	58.3	53.7	50.0	80.5	16.0
	Prakash (C)	52.0	44.7	57.7	49.3	44.0	78.5	15.5
	JH 3459 (C)	51.0	47.7	56.7	51.3	48.0	85.5	4.8
150:50:40	FH 3513	50.7	47.0	55.3	52.0	46.5	76.2	9.0
	REH 2009-12	52.0	48.0	51.3	53.3	50.0	82.0	10.5
	31Y45	52.0	49.0	57.7	53.3	49.0	81.6	18.0
	Prakash (C)	50.3	45.3	51.7	49.0	43.8	76.8	18.3
	JH 3459 (C)	48.7	47.3	55.3	51.0	47.0	86.7	7.8
200:60:50	FH 3513	51.3	47.0	54.7	51.7	46.5	77.2	11.0
	REH 2009-12	50.3	48.0	58.0	53.0	50.0	81.3	11.8
	31Y45	51.0	49.0	57.0	53.0	49.0	81.4	20.5
	Prakash (C)	47.3	45.7	51.0	48.7	43.3	74.5	21.3
	JH 3459 (C)	48.3	47.7	54.3	51.0	46.8	85.4	8.8

Location mean	50.8	47.4	55.4	51.8	47.5	80.5	12.5
C.D.(5%) AiBj-AiBk	1.3	1.4	1.1	2.0	3.1	3.0	2.2
C.D.(5%) AiBk-AjBk	1.3	1.5	1.1	2.0	4.1	3.1	2.8
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.	n.s.

100:40:30	52.1	47.5	57.1	52.1	48.0	80.9	10.3
150:50:40	50.7	47.3	54.3	51.7	47.3	80.7	12.7
200:60:50	49.7	47.5	55.0	51.5	47.1	79.9	14.7

C.D.(5%) Ai-Aj	0.6	0.8	0.5	1.1	3.0	1.6	2.0
C.V.(%) Error A	1.2	1.7	0.9	2.0	8.3	2.0	20.9
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.	s

FH 3513	51.2	47.2	54.8	52.0	46.7	76.9	9.0
REH 2009-12	51.6	47.9	55.9	53.3	50.3	82.0	10.1
31Y45	52.2	49.3	57.7	53.3	49.3	81.2	18.2
Prakash (C)	49.9	45.2	53.4	49.0	43.7	76.6	18.3
JH 3459 (C)	49.3	47.6	55.4	51.1	47.3	85.9	7.1

C.D.(5%)Bi-Bj	0.7	0.8	0.6	1.1	1.8	1.7	1.3
C.V.(%)ErrorB	1.5	1.7	1.2	2.2	4.6	2.2	12.4
F(5%)	s	s	s	s	s	s	s

## A155

**Table 16: Relative performance of pre-release germplasm of extra early maturity at different NPK levels of during *Kharif* 2012 in zone I.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)			Cob yield (kg/ha)
		Almora	Bajaura	Kangra	Almora
100:40:30	FH 3525	9718	8930	4876	13033
	KH-9888	9733	6813	3181	12983
	FH 3510	9118	5740	4622	11967
	Vivek Hybrid 9 (C)	8668	7933	1148	11785
	Vivek QPM 9 (C)	10280	6893	742	13599
150:50:40	FH 3525	10851	9417	5814	14803
	KH-9888	10154	7007	3104	14062
	FH 3510	9802	6273	5390	13130
	Vivek Hybrid 9 (C)	9891	8303	1343	13085
	Vivek QPM 9 (C)	11081	7903	909	14538
200:60:50	FH 3525	11546	9213	5455	15559
	KH-9888	11086	7143	2451	15088
	FH 3510	10667	6423	5106	14488
	Vivek Hybrid 9 (C)	10857	8517	1032	14646
	Vivek QPM 9 (C)	11554	8373	1138	15519

Location mean	10333.7	7658.9	3087.5	13885.6
C.D.(5%) AiBj-AiBk	1009.0	501.3	476.6	1380.4
C.D.(5%) AiBk-AjBk	982.3	465.8	468.6	1522.2
F(5%)	n.s.	n.s.	s	n.s.

140:40:30	9503	7262	2914	12673
150:50:40	10356	7781	3312	13924
200:60:50	11142	7934	3037	15060

C.D.(5%) Ai-Aj	399.9	130.5	200.5	913.8
C.V.(%) Error A	3.8	1.7	6.4	6.5
F(5%)	s	s	s	s

FH 3525	10705	9187	5382	14465
KH-9888	10324	6988	2912	14044
FH 3510	9862	6146	5040	13195
Vivek Hybrid 9 (C)	9805	8251	1174	13172
Vivek QPM 9 (C)	10972	7723	930	14552

C.D.(5%)Bi-Bj	582.6	289.4	275.2	796.9
C.V.(%)ErrorB	5.8	3.9	9.2	5.9
F(5%)	s	s	s	s

Cont...

## A156

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plant ('000/ha)			No. of cobs ('000/ha)		
		Almora	Bajaura	Kangra	Almora	Bajaura	Kangra
100:40:30	FH 3525	83.3	83.2	75.1	84.0	78.7	61.7
	KH-9888	83.3	80.1	72.0	89.5	75.9	23.7
	FH 3510	83.3	82.9	73.6	83.3	80.1	62.2
	Vivek Hybrid 9 (C)	83.3	81.0	56.6	83.3	79.6	8.7
	Vivek QPM 9 (C)	83.3	80.5	33.4	83.3	76.9	8.2
150:50:40	FH 3525	83.3	82.4	74.1	85.2	79.7	58.1
	KH-9888	83.3	81.5	74.1	98.8	78.3	44.2
	FH 3510	83.3	82.0	73.0	83.3	80.1	65.3
	Vivek Hybrid 9 (C)	83.3	81.5	57.1	83.3	78.7	10.8
	Vivek QPM 9 (C)	83.3	81.5	41.2	84.0	78.7	5.7
200:60:50	FH 3525	83.3	82.9	74.6	88.9	80.6	65.3
	KH-9888	83.3	80.1	75.1	89.5	75.5	30.9
	FH 3510	83.3	77.8	73.6	83.3	76.4	65.3
	Vivek Hybrid 9 (C)	83.3	79.2	52.5	83.3	75.0	11.3
	Vivek QPM 9 (C)	83.3	81.0	44.2	83.3	78.3	6.7

Location mean	83.3	81.2	63.3	85.8	78.2	35.2
C.D.(5%) AiBj-AiBk	0.8	3.1	5.2	6.0	3.9	5.2
C.D.(5%) AiBk-AjBk	0.9	3.2	5.8	6.4	4.2	5.3
F(5%)	n.s.	n.s.	s	n.s.	n.s.	s

140:40:30	83.3	81.6	62.1	84.7	78.3	32.9
150:50:40	83.3	81.8	63.9	86.9	79.1	36.8
200:60:50	83.3	80.2	64.0	85.7	77.1	35.9

C.D.(5%) Ai-Aj	0.5	1.6	3.5	3.7	2.4	2.5
C.V.(%) Error A	0.6	2.0	5.4	4.2	3.0	7.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

FH 3525	83.3	82.8	74.6	86.0	79.7	61.7
KH-9888	83.3	80.6	73.7	92.6	76.6	32.9
FH 3510	83.3	80.9	73.4	83.3	78.9	64.3
Vivek Hybrid 9 (C)	83.3	80.6	55.4	83.3	77.8	10.3
Vivek QPM 9 (C)	83.3	81.0	39.6	83.5	78.0	6.9

C.D.(5%)Bi-Bj	0.5	1.8	3.0	3.5	2.2	3.0
C.V.(%)ErrorB	0.6	2.2	4.9	4.1	2.9	8.8
F(5%)	n.s.	n.s.	s	s	n.s.	s

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# A157

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)			Ear height (cm)	Lodging (%)
		Almora	Bajaura	Kangra	Kangra	Kangra
100:40:30	FH 3525	226.8	217.1	221.7	86.3	11.0
	KH-9888	236.9	225.0	227.0	104.7	65.8
	FH 3510	196.0	174.4	187.3	87.0	11.9
	Vivek Hybrid 9 (C)	225.5	205.5	196.3	94.0	81.2
	Vivek QPM 9 (C)	229.8	213.3	224.3	96.7	64.1
150:50:40	FH 3525	229.7	222.7	223.3	92.3	17.3
	KH-9888	230.7	237.7	227.7	117.0	33.5
	FH 3510	203.4	182.6	194.0	84.7	7.1
	Vivek Hybrid 9 (C)	220.1	217.2	214.7	94.0	77.2
	Vivek QPM 9 (C)	225.1	222.5	234.7	100.0	76.5
200:60:50	FH 3525	229.4	227.1	218.7	89.7	11.0
	KH-9888	236.0	223.1	245.3	117.3	50.7
	FH 3510	201.4	195.0	203.0	84.3	7.7
	Vivek Hybrid 9 (C)	229.0	225.2	219.0	93.7	67.9
	Vivek QPM 9 (C)	235.7	227.9	234.0	94.7	77.2

Location mean	223.7	214.4	218.1	95.8	44.0
C.D.(5%) AiBj-AiBk	15.7	6.0	20.3	8.7	11.2
C.D.(5%) AiBk-AjBk	18.5	6.9	19.6	9.9	11.2
F(5%)	n.s.	s	n.s.	n.s.	s

140:40:30	223.0	207.1	211.3	93.7	46.8
150:50:40	221.8	216.5	218.9	97.6	42.3
200:60:50	226.3	219.7	224.0	95.9	42.9

C.D.(5%) Ai-Aj	12.2	4.5	7.6	6.3	5.1
C.V.(%) Error A	5.4	2.1	3.4	6.5	11.3
F(5%)	n.s.	s	s	n.s.	n.s.

FH 3525	228.6	222.3	221.2	89.4	13.1
KH-9888	234.5	228.6	233.3	113.0	50.0
FH 3510	200.3	184.0	194.8	85.3	8.9
Vivek Hybrid 9 (C)	224.9	215.9	210.0	93.9	75.4
Vivek QPM 9 (C)	230.2	221.2	231.0	97.1	72.6

C.D.(5%)Bi-Bj	9.1	3.5	11.7	5.0	6.5
C.V.(%)ErrorB	4.2	1.7	5.5	5.4	15.1
F(5%)	s	s	s	s	s

Cont...



# A158

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 50% tasseling		Days to 50% silking		Turcicum Leaf Blight (1-5 scale score)
		Almora	Kangra	Almora	Kangra	Almora
100:40:30	FH 3525	50.0	45.3	52.0	49.7	2.5
	KH-9888	48.7	46.3	50.7	50.3	4.0
	FH 3510	47.7	43.7	49.7	47.7	2.0
	Vivek Hybrid 9 (C)	46.0	41.3	48.0	45.3	2.0
	Vivek QPM 9 (C)	46.0	42.0	48.0	45.7	2.5
150:50:40	FH 3525	49.3	47.7	50.7	51.0	2.3
	KH-9888	48.3	48.3	50.3	51.7	2.8
	FH 3510	47.3	46.0	49.3	49.7	1.5
	Vivek Hybrid 9 (C)	45.0	43.0	47.0	47.7	1.8
	Vivek QPM 9 (C)	44.7	42.7	46.7	46.3	2.0
200:60:50	FH 3525	49.0	48.7	51.0	52.3	1.8
	KH-9888	48.7	50.0	50.7	52.3	3.0
	FH 3510	48.3	49.0	50.3	52.3	1.7
	Vivek Hybrid 9 (C)	45.3	44.7	47.3	48.3	1.5
	Vivek QPM 9 (C)	45.0	44.7	47.0	47.7	1.8

Location mean	47.3	45.6	49.2	49.2	2.2
C.D.(5%) AiBj-AiBk	1.3	0.8	1.3	0.8	0.4
C.D.(5%) AiBk-AjBk	1.5	1.0	1.5	0.8	0.5
F(5%)	n.s.	s	n.s.	s	s

140:40:30	47.7	43.7	49.7	47.7	2.6
150:50:40	46.9	45.5	48.8	49.3	2.1
200:60:50	47.3	47.4	49.3	50.6	2.0

C.D.(5%) Ai-Aj	0.9	0.7	1.0	0.4	0.3
C.V.(%) Error A	1.9	1.5	2.1	0.7	15.2
F(5%)	n.s.	s	n.s.	s	s

FH 3525	49.4	47.2	51.2	51.0	2.2
KH-9888	48.6	48.2	50.6	51.4	3.3
FH 3510	47.8	46.2	49.8	49.9	1.7
Vivek Hybrid 9 (C)	45.4	43.0	47.4	47.1	1.8
Vivek QPM 9 (C)	45.2	43.1	47.2	46.6	2.1

C.D.(5%)Bi-Bj	0.7	0.5	0.8	0.5	0.2
C.V.(%)ErrorB	1.6	1.1	1.6	1.0	11.1
F(5%)	s	s	s	s	s

## A159

**Table 17: Relative performance of pre-release germplasm of extra early maturity at different NPK levels of during *Kharif* 2012 in zone III.**

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Grain yield (kg/ha)				
		Bahraich	Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	4535	4757	3934	4267	7313
	FH 3525	4361	4340	3405	5537	6840
	FH 3510	4688	4132	3946	3695	4375
	Vivek Hybrid 9 (C)	4882	3819	3385	3728	6465
	Vivek QPM 9 (C)	4993	3750	3300	4169	6396
150:50:40	KH-9888	5042	5208	3854	4972	7368
	FH 3525	4979	4757	4131	5923	7597
	FH 3510	5132	4826	4449	4414	5188
	Vivek Hybrid 9 (C)	5493	4444	4401	4504	5944
	Vivek QPM 9 (C)	5500	3958	4666	5682	6028
200:60:50	KH-9888	5681	4826	4925	5179	6889
	FH 3525	5813	4549	4956	6550	6799
	FH 3510	5618	4375	4776	4682	5236
	Vivek Hybrid 9 (C)	5771	4271	4666	4673	6729
	Vivek QPM 9 (C)	5896	3819	4699	5883	6535

Location mean	5225.5	4388.9	4232.8	4923.7	6380.1
C.D.(5%) AiBj-AiBk	91.1	889.8	260.3	831.7	1099.4
C.D.(5%) AiBk-AjBk	84.1	859.6	311.9	954.1	1372.6
F(5%)	s	n.s.	s	n.s.	n.s.

100:40:30	4692	4160	3594	4279	6278
150:50:40	5229	4639	4300	5099	6425
200:60:50	5756	4368	4804	5393	6438

C.D.(5%) Ai-Aj	21.4	335.0	212.3	612.3	978.6
C.V.(%) Error A	0.4	7.5	4.9	12.3	15.1
F(5%)	s	s	s	s	n.s.

KH-9888	5086	4931	4238	4806	7190
FH 3525	5051	4549	4164	6003	7079
FH 3510	5146	4444	4390	4264	4933
Vivek Hybrid 9 (C)	5382	4178	4151	4301	6380
Vivek QPM 9 (C)	5463	3843	4222	5245	6319

C.D.(5%)Bi-Bj	52.6	513.7	150.3	480.2	634.8
C.V.(%)ErrorB	1.0	12.0	3.6	10.0	10.2
F(5%)	s	s	s	s	s

Cont...

## A160

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Cob weight (kg/ha)				
		Bahraich	Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	6306	5972	5606	5352	10764
	FH 3525	6069	5486	5083	6741	10417
	FH 3510	6521	5417	5556	4000	6250
	Vivek Hybrid 9 (C)	6785	4861	4917	4333	9444
	Vivek QPM 9 (C)	6951	4826	4722	4815	9375
150:50:40	KH-9888	6924	6563	5514	6093	10625
	FH 3525	6840	6007	6194	8037	11458
	FH 3510	7139	6181	4917	5019	7431
	Vivek Hybrid 9 (C)	7653	5660	6306	5463	9097
	Vivek QPM 9 (C)	7660	5035	6667	6111	8889
200:60:50	KH-9888	7799	6181	7028	6815	10208
	FH 3525	8000	5764	7472	8333	10139
	FH 3510	7813	5590	6861	5556	7569
	Vivek Hybrid 9 (C)	8021	5521	6667	5559	10347
	Vivek QPM 9 (C)	8215	4931	6833	6519	9514

Location mean	7246.3	5599.5	6022.8	5916.3	9435.2
C.D.(5%) AiBj-AiBk	123.7	1102.7	1001.9	1012.3	1709.0
C.D.(5%) AiBk-AjBk	116.7	1067.0	1078.7	979.4	2154.8
F(5%)	s	n.s.	s	n.s.	n.s.

100:40:30	6526	5313	5177	5048	9250
150:50:40	7243	5889	5919	6144	9500
200:60:50	7969	5597	6972	6556	9556

C.D.(5%) Ai-Aj	38.3	420.0	616.8	385.3	1551.7
C.V.(%) Error A	0.5	7.4	10.1	6.4	16.2
F(5%)	s	s	s	s	n.s.

KH-9888	7009	6238	6049	6086	10532
FH 3525	6970	5752	6250	7704	10671
FH 3510	7157	5729	5778	4858	7083
Vivek Hybrid 9 (C)	7486	5347	5963	5119	9630
Vivek QPM 9 (C)	7609	4931	6074	5815	9259

C.D.(5%)Bi-Bj	71.4	636.6	578.4	584.4	986.7
C.V.(%)ErrorB	1.0	11.7	9.9	10.2	10.7
F(5%)	s	s	n.s.	s	s

Cont...

# A161

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of plant ('000/ha)				
		Bahraich	Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	81.3	68.4	65.8	64.4	63.9
	FH 3525	81.3	68.8	66.4	66.3	66.0
	FH 3510	79.2	66.7	67.5	66.3	59.0
	Vivek Hybrid 9 (C)	79.9	64.9	66.9	67.4	66.0
	Vivek QPM 9 (C)	79.2	67.4	67.2	64.4	62.5
150:50:40	KH-9888	81.3	69.4	65.3	65.6	63.9
	FH 3525	79.2	68.4	62.2	67.4	66.0
	FH 3510	81.3	65.6	66.7	67.0	61.1
	Vivek Hybrid 9 (C)	79.2	65.3	66.9	68.5	63.2
	Vivek QPM 9 (C)	82.6	66.7	67.5	64.8	66.0
200:60:50	KH-9888	82.6	67.0	66.7	67.4	62.5
	FH 3525	81.3	65.6	66.7	68.1	60.4
	FH 3510	81.3	64.6	66.9	67.8	61.1
	Vivek Hybrid 9 (C)	80.6	66.7	65.0	66.3	61.8
	Vivek QPM 9 (C)	81.3	65.3	65.8	67.0	65.3

Location mean	80.7	66.7	66.2	66.6	63.2
C.D.(5%) AiBj-AiBk	3.4	3.1	1.9	4.0	7.6
C.D.(5%) AiBk-AjBk	3.3	3.6	2.2	4.4	8.1
F(5%)	n.s.	n.s.	s	n.s.	n.s.

100:40:30	80.1	67.2	66.8	65.8	63.5
150:50:40	80.7	67.1	65.7	66.7	64.0
200:60:50	81.4	65.8	66.2	67.3	62.2

C.D.(5%) Ai-Aj	1.3	2.4	1.4	2.6	4.4
C.V.(%) Error A	1.6	3.5	2.1	3.8	6.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

KH-9888	81.7	68.3	65.9	65.8	63.4
FH 3525	80.6	67.6	65.1	67.3	64.1
FH 3510	80.6	65.6	67.0	67.0	60.4
Vivek Hybrid 9 (C)	79.9	65.6	66.3	67.4	63.7
Vivek QPM 9 (C)	81.0	66.4	66.9	65.4	64.6

C.D.(5%)Bi-Bj	2.0	1.8	1.1	2.3	4.4
C.V.(%)ErrorB	2.5	2.7	1.7	3.6	7.2
F(5%)	n.s.	s	s	n.s.	n.s.

Cont...

## A162

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	No. of cobs ('000/ha)				
		Bahraich	Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	79.9	68.4	63.9	60.7	70.14
	FH 3525	81.3	68.4	65.3	63.3	67.36
	FH 3510	77.1	66.0	66.7	60.0	59.72
	Vivek Hybrid 9 (C)	79.2	64.9	66.9	67.0	68.75
	Vivek QPM 9 (C)	76.4	68.8	64.4	58.1	65.97
150:50:40	KH-9888	78.5	68.8	65.3	57.0	65.97
	FH 3525	78.5	68.1	61.9	71.9	68.06
	FH 3510	79.2	64.2	66.1	66.3	61.11
	Vivek Hybrid 9 (C)	78.5	64.6	65.8	65.6	66.67
	Vivek QPM 9 (C)	79.9	66.0	66.7	59.3	78.47
200:60:50	KH-9888	79.9	66.3	67.5	64.1	68.06
	FH 3525	79.2	65.3	66.4	64.4	68.75
	FH 3510	79.2	64.2	66.4	58.9	60.42
	Vivek Hybrid 9 (C)	79.9	66.3	64.2	63.7	64.58
	Vivek QPM 9 (C)	80.6	64.6	67.2	65.2	65.28

Location mean	79.1	66.3	65.6	63.0	66.6
C.D.(5%) AiBj-AiBk	3.4	2.9	1.8	8.1	13.7
C.D.(5%) AiBk-AjBk	3.5	3.2	2.2	8.7	12.7
F(5%)	n.s.	n.s.	s	n.s.	n.s.

100:40:30	78.8	67.3	65.4	61.9	66.4
150:50:40	78.9	66.3	65.2	64.0	68.1
200:60:50	79.7	65.3	66.3	63.3	65.4

C.D.(5%) Ai-Aj	1.7	1.9	1.5	5.0	3.2
C.V.(%) Error A	2.1	2.8	2.3	7.8	4.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

KH-9888	79.4	67.8	65.6	60.6	68.1
FH 3525	79.6	67.2	64.5	66.5	68.1
FH 3510	78.5	64.8	66.4	61.7	60.4
Vivek Hybrid 9 (C)	79.2	65.3	65.6	65.4	66.7
Vivek QPM 9 (C)	78.9	66.4	66.1	60.9	69.9

C.D.(5%)Bi-Bj	2.0	1.7	1.0	4.6	7.9
C.V.(%)ErrorB	2.6	2.6	1.6	7.6	12.2
F(5%)	n.s.	s	s	s	n.s.

Cont...

## A163

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Plant height (cm)				
		Bahraich	Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	149.7	142.3	120.3	223.4	163.00
	FH 3525	155.0	131.3	115.2	224.2	160.67
	FH 3510	156.7	123.3	88.1	206.8	140.00
	Vivek Hybrid 9 (C)	156.7	129.5	130.0	222.1	168.67
	Vivek QPM 9 (C)	155.7	140.3	132.2	207.0	170.00
150:50:40	KH-9888	153.3	148.1	117.2	242.8	174.33
	FH 3525	159.0	137.8	113.6	220.0	163.00
	FH 3510	160.7	132.1	68.3	213.7	145.00
	Vivek Hybrid 9 (C)	162.3	139.0	126.4	227.1	176.33
	Vivek QPM 9 (C)	161.7	143.5	126.3	239.2	169.67
200:60:50	KH-9888	156.7	150.8	121.1	255.2	165.00
	FH 3525	164.0	136.8	124.5	226.2	154.33
	FH 3510	163.3	129.9	92.5	200.0	143.00
	Vivek Hybrid 9 (C)	164.3	145.3	141.7	251.3	171.33
	Vivek QPM 9 (C)	166.3	143.0	133.3	244.9	162.00

Location mean	159.0	138.2	116.7	226.9	161.8
C.D.(5%) AiBj-AiBk	1.4	4.3	13.6	30.4	17.1
C.D.(5%) AiBk-AjBk	1.5	5.2	18.3	29.0	20.3
F(5%)	s	s	n.s.	n.s.	n.s.

100:40:30	154.7	133.3	117.2	216.7	160.5
150:50:40	159.4	140.1	110.4	228.6	165.7
200:60:50	162.9	141.1	122.6	235.5	159.1

C.D.(5%) Ai-Aj	0.9	3.6	13.9	10.5	13.7
C.V.(%) Error A	0.6	2.5	11.7	4.6	8.4
F(5%)	s	s	n.s.	s	n.s.

KH-9888	153.2	147.0	119.5	240.5	167.4
FH 3525	159.3	135.3	117.8	223.5	159.3
FH 3510	160.2	128.4	83.0	206.8	142.7
Vivek Hybrid 9 (C)	161.1	137.9	132.7	233.5	172.1
Vivek QPM 9 (C)	161.2	142.3	130.6	230.4	167.2

C.D.(5%)Bi-Bj	0.8	2.5	7.9	17.5	9.9
C.V.(%)ErrorB	0.5	1.9	6.9	7.9	6.3
F(5%)	s	s	s	s	s

Cont...

# A164

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Ear height (cm)		Days of 50% tasseling		
		Bhubaneswar	Dholi	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	64.7	47.4	49.3	45.0	43.33
	FH 3525	53.4	31.3	50.0	46.0	46.33
	FH 3510	55.0	31.0	47.3	46.0	44.33
	Vivek Hybrid 9 (C)	52.3	47.3	49.0	47.0	43.67
	Vivek QPM 9 (C)	59.1	44.1	49.0	46.0	44.33
150:50:40	KH-9888	71.3	45.1	50.0	45.7	46.00
	FH 3525	50.9	31.3	50.0	45.7	47.67
	FH 3510	56.6	23.0	49.0	45.7	45.67
	Vivek Hybrid 9 (C)	57.3	45.2	49.0	44.7	46.00
	Vivek QPM 9 (C)	61.5	45.2	49.0	44.7	45.67
200:60:50	KH-9888	75.7	53.3	49.0	44.7	46.00
	FH 3525	54.8	32.2	49.7	45.7	46.33
	FH 3510	59.8	31.5	46.7	44.7	44.00
	Vivek Hybrid 9 (C)	63.1	49.5	49.0	45.7	45.33
	Vivek QPM 9 (C)	62.1	48.3	49.3	44.7	44.67

Location mean	59.8	40.4	49.0	45.4	45.3
C.D.(5%) AiBj-AiBk	6.1	7.6	1.0	0.9	1.8
C.D.(5%) AiBk-AjBk	6.9	13.0	1.4	3.0	3.3
F(5%)	n.s.	n.s.	s	s	n.s.

100:40:30	56.9	40.2	48.9	46.0	44.4
150:50:40	59.5	38.0	49.4	45.3	46.2
200:60:50	63.1	43.0	48.7	45.1	45.3

C.D.(5%) Ai-Aj	4.4	11.2	1.0	2.9	2.9
C.V.(%) Error A	7.3	27.3	2.1	6.3	6.4
F(5%)	s	n.s.	n.s.	n.s.	n.s.

KH-9888	70.6	48.6	49.4	45.1	45.1
FH 3525	53.0	31.6	49.9	45.8	46.8
FH 3510	57.1	28.5	47.7	45.4	44.7
Vivek Hybrid 9 (C)	57.6	47.4	49.0	45.8	45.0
Vivek QPM 9 (C)	60.9	45.9	49.1	45.1	44.9

C.D.(5%)Bi-Bj	3.5	4.4	0.6	0.5	1.1
C.V.(%)ErrorB	6.0	11.2	1.2	1.1	2.4
F(5%)	s	s	s	s	s

Cont...

## A165

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days 50% silking				
		Bahraich	Bhubaneswar	Dholi	Ranchi	Varanasi
100:40:30	KH-9888	54.0	45.0	53.7	49.0	47.67
	FH 3525	54.7	45.3	53.0	50.0	51.33
	FH 3510	55.0	44.7	51.0	50.0	47.67
	Vivek Hybrid 9 (C)	53.0	45.7	51.3	51.0	48.33
	Vivek QPM 9 (C)	54.0	44.7	51.3	50.0	48.33
150:50:40	KH-9888	51.0	44.3	52.0	49.3	49.00
	FH 3525	51.0	45.0	52.7	49.3	53.00
	FH 3510	54.0	44.7	52.0	49.3	48.67
	Vivek Hybrid 9 (C)	51.0	44.7	51.0	48.3	50.00
	Vivek QPM 9 (C)	53.0	43.3	51.0	48.3	50.00
200:60:50	KH-9888	50.0	44.0	51.0	48.0	50.00
	FH 3525	50.0	45.3	52.3	49.0	50.00
	FH 3510	52.0	44.0	50.7	48.0	49.67
	Vivek Hybrid 9 (C)	51.0	44.0	51.7	49.0	49.33
	Vivek QPM 9 (C)	50.0	44.0	51.7	48.0	48.33

Location mean	52.2	44.6	51.8	49.1	49.4
C.D.(5%) AiBj-AiBk	0.7	1.5	1.8	0.9	2.6
C.D.(5%) AiBk-AjBk	0.7	2.3	2.0	2.6	3.9
F(5%)	s	n.s.	n.s.	s	n.s.

100:40:30	54.1	45.1	52.1	50.0	48.7
150:50:40	52.0	44.4	51.7	48.9	50.1
200:60:50	50.6	44.3	51.5	48.4	49.5

C.D.(5%) Ai-Aj	0.4	1.9	1.2	2.5	3.2
C.V.(%) Error A	0.8	4.1	2.3	5.1	6.3
F(5%)	s	n.s.	n.s.	n.s.	n.s.

KH-9888	51.7	44.4	52.2	48.8	48.9
FH 3525	51.9	45.2	52.7	49.4	51.4
FH 3510	53.7	44.4	51.2	49.1	48.7
Vivek Hybrid 9 (C)	51.7	44.8	51.3	49.4	49.2
Vivek QPM 9 (C)	52.3	44.0	51.3	48.8	48.9

C.D.(5%)Bi-Bj	0.4	0.9	1.0	0.5	1.5
C.V.(%)ErrorB	0.8	2.1	2.0	1.1	3.2
F(5%)	s	n.s.	s	s	s

Cont...



## A166

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days to 75% dry husk		Days to 50% pollen shed	Shelling (%)	
		Dholi	Bhubaneswar		Bahraich	
100:40:30	KH-9888	80.7	83.0	43.0	79.6	72.0
	FH 3525	80.0	83.3	43.0	77.0	72.0
	FH 3510	80.7	81.7	42.7	76.6	72.0
	Vivek Hybrid 9 (C)	81.0	81.0	43.7	78.9	72.0
	Vivek QPM 9 (C)	80.7	80.7	42.7	78.0	72.0
150:50:40	KH-9888	81.7	82.0	42.3	79.3	73.0
	FH 3525	80.3	81.0	42.7	79.2	73.0
	FH 3510	80.7	79.3	42.3	78.2	72.0
	Vivek Hybrid 9 (C)	80.7	80.0	42.7	79.1	72.0
	Vivek QPM 9 (C)	82.3	80.3	41.7	79.1	72.0
200:60:50	KH-9888	77.7	81.0	42.3	78.2	73.0
	FH 3525	80.7	81.7	44.7	79.4	73.0
	FH 3510	80.3	80.3	41.7	78.1	72.0
	Vivek Hybrid 9 (C)	81.3	80.3	42.0	77.3	72.0
	Vivek QPM 9 (C)	79.7	81.3	42.0	77.7	72.0

Location mean	80.6	81.1	42.6	78.4	72.3
C.D.(5%) AiBj-AiBk	2.3	1.8	1.5	0.9	0.4
C.D.(5%) AiBk-AjBk	2.6	2.3	2.0	0.9	0.5
F(5%)	n.s.	n.s.	n.s.	s	s

100:40:30	80.6	81.9	43.0	78.0	72.0
150:50:40	81.1	80.5	42.3	79.0	72.4
200:60:50	79.9	80.9	42.5	78.2	72.4

C.D.(5%) Ai-Aj	1.7	1.7	1.5	0.4	0.3
C.V.(%) Error A	2.1	2.1	3.5	0.5	0.4
F(5%)	n.s.	n.s.	n.s.	s	s

KH-9888	80.0	82.0	42.6	79.0	72.7
FH 3525	80.3	82.0	43.4	78.5	72.7
FH 3510	80.6	80.4	42.2	77.6	72.0
Vivek Hybrid 9 (C)	81.0	80.4	42.8	78.5	72.0
Vivek QPM 9 (C)	80.9	80.8	42.1	78.3	72.0

C.D.(5%)Bi-Bj	1.3	1.1	0.8	0.5	0.3
C.V.(%)ErrorB	1.7	1.3	2.0	0.7	0.4
F(5%)	n.s.	s	s	s	s

Cont...

# A167

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Moisture (%)	100 grain wt. (gm)	Cob length (cm)	No of grain rows/cob	No of grains/row
100:40:30	KH-9888	19.6	32.6	15.2	12.8	26.7
	FH 3525	19.7	31.8	14.6	13.4	26.5
	FH 3510	19.8	29.5	15.7	12.8	30.9
	Vivek Hybrid 9 (C)	19.7	27.1	14.8	15.6	30.4
	Vivek QPM 9 (C)	19.7	24.1	14.0	15.4	30.4
150:50:40	KH-9888	19.7	33.1	14.7	13.4	30.0
	FH 3525	19.2	31.3	13.9	13.3	26.5
	FH 3510	20.0	30.2	15.7	11.9	29.6
	Vivek Hybrid 9 (C)	19.9	26.2	13.6	13.6	23.6
	Vivek QPM 9 (C)	19.6	22.7	12.2	13.6	24.5
200:60:50	KH-9888	19.8	25.0	14.4	12.8	27.6
	FH 3525	19.2	24.7	14.5	13.2	27.9
	FH 3510	20.0	31.2	15.8	11.7	32.5
	Vivek Hybrid 9 (C)	19.7	32.3	15.4	10.9	30.6
	Vivek QPM 9 (C)	19.7	28.6	13.4	13.7	26.2

Location mean	19.7	28.7	14.5	13.2	28.2
C.D.(5%) AiBj-AiBk	0.9	1.6	1.4	1.4	1.7
C.D.(5%) AiBk-AjBk	0.8	1.9	1.6	1.3	1.8
F(5%)	n.s.	s	n.s.	s	s

100:40:30	19.7	29.0	14.9	14.0	29.0
150:50:40	19.7	28.7	14.0	13.2	26.8
200:60:50	19.7	28.4	14.7	12.5	28.9

C.D.(5%) Ai-Aj	0.4	1.2	1.0	0.4	1.0
C.V.(%) Error A	1.8	4.2	6.7	3.1	3.6
F(5%)	n.s.	n.s.	n.s.	s	s

KH-9888	19.7	30.3	14.7	13.0	28.1
FH 3525	19.4	29.3	14.3	13.3	26.9
FH 3510	19.9	30.3	15.7	12.1	31.0
Vivek Hybrid 9 (C)	19.8	28.5	14.6	13.4	28.2
Vivek QPM 9 (C)	19.7	25.1	13.2	14.2	27.0

C.D.(5%)Bi-Bj	0.5	0.9	0.8	0.8	1.0
C.V.(%)ErrorB	2.6	3.4	5.8	6.1	3.6
F(5%)	n.s.	s	s	s	s

Cont...

# A168

N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O (kg/ha)	Germplasm	Days of germination	Banded leaf & Sheath blight	Maydis	No. of barren plant ( <sup>'000</sup> /ha)
		Dholi	Ranchi	Ranchi	Varanasi
100:40:30	KH-9888	4.7	3.5	2.5	0.7
	FH 3525	4.3	2.0	2.2	0.0
	FH 3510	4.0	3.0	2.0	0.0
	Vivek Hybrid 9 (C)	4.7	3.0	2.2	1.4
	Vivek QPM 9 (C)	4.7	3.0	2.8	0.7
150:50:40	KH-9888	4.7	3.0	2.7	0.0
	FH 3525	4.3	3.0	2.7	1.4
	FH 3510	4.3	3.0	3.0	0.0
	Vivek Hybrid 9 (C)	4.7	3.0	3.5	0.0
	Vivek QPM 9 (C)	4.3	3.0	3.2	0.0
200:60:50	KH-9888	4.7	3.0	2.5	1.4
	FH 3525	4.7	3.5	2.8	0.0
	FH 3510	4.3	3.0	3.0	0.7
	Vivek Hybrid 9 (C)	4.7	3.0	3.5	0.0
	Vivek QPM 9 (C)	4.3	3.5	3.5	0.0

Location mean	4.5	3.0	2.8	0.4
C.D.(5%) AiBj-AiBk	1.0	0.2	0.3	2.0
C.D.(5%) AiBk-AjBk	1.0	0.8	0.4	2.3
F(5%)	n.s.	s	s	n.s.

100:40:30	4.5	2.9	2.3	0.6
150:50:40	4.5	3.0	3.0	0.3
200:60:50	4.5	3.2	3.1	0.4

C.D.(5%) Ai-Aj	0.5	0.7	0.2	1.5
C.V.(%) Error A	10.5	23.7	7.3	365.1
F(5%)	n.s.	n.s.	s	n.s.

KH-9888	4.7	3.2	2.6	0.7
FH 3525	4.4	2.8	2.6	0.5
FH 3510	4.2	3.0	2.7	0.2
Vivek Hybrid 9 (C)	4.7	3.0	3.1	0.5
Vivek QPM 9 (C)	4.4	3.2	3.2	0.2

C.D.(5%)Bi-Bj	0.6	0.1	0.2	1.2
C.V.(%)ErrorB	13.0	4.3	7.3	283.8
F(5%)	n.s.	s	s	n.s.



# A170

**Table 19: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Bajaura.**

Date of sowing	Hybrids	Grain yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
D <sub>1</sub>	H <sub>1</sub>	6293	76.4	70.9	193.9
	H <sub>2</sub>	7373	78.6	72.2	197.7
	H <sub>3</sub>	7883	78.6	74.7	224.0
	H <sub>4</sub>	7430	76.7	67.5	223.6
D <sub>2</sub>	H <sub>1</sub>	7830	73.6	66.1	190.3
	H <sub>2</sub>	7720	79.1	74.8	183.5
	H <sub>3</sub>	11193	77.5	73.9	212.7
	H <sub>4</sub>	12503	76.1	69.5	236.9
D <sub>3</sub>	H <sub>1</sub>	8733	82.8	80.3	212.1
	H <sub>2</sub>	9817	80.8	76.6	223.2
	H <sub>3</sub>	11197	77.8	74.4	228.4
	H <sub>4</sub>	12567	82.5	77.2	240.9
D <sub>4</sub>	H <sub>1</sub>	9453	81.7	77.2	159.4
	H <sub>2</sub>	10153	82.5	75.8	221.5
	H <sub>3</sub>	9473	79.2	74.4	232.6
	H <sub>4</sub>	10290	81.4	74.5	230.6

Location mean	9369.4	79.1	73.8	213.2
C.D.(5%) AiBj-AiBk	723.1	3.8	5.3	51.2
C.D.(5%) AiBk-AjBk	745.4	3.7	5.3	52.7
F(5%)	s	n.s.	s	n.s.

D <sub>1</sub>	7245	77.6	71.3	209.8
D <sub>2</sub>	9812	76.6	71.1	205.8
D <sub>3</sub>	10578	81.0	77.1	226.2
D <sub>4</sub>	9843	81.2	75.5	211.0

C.D.(5%) Ai-Aj	408.1	1.8	2.8	28.7
C.V.(%) Error A	4.4	2.2	3.8	13.5
F(5%)	s	s	s	n.s.

H <sub>1</sub>	8078	78.6	73.6	188.9
H <sub>2</sub>	8766	80.3	74.9	206.5
H <sub>3</sub>	9937	78.3	74.4	224.4
H <sub>4</sub>	10698	79.2	72.2	233.0

C.D.(5%)Bi-Bj	361.5	1.9	2.6	25.6
C.V.(%)ErrorB	4.6	2.9	4.2	14.2
F(5%)	s	n.s.	n.s.	s

**Treatment Details:**

**Main plots: Sowing date**

D <sub>1</sub>	(10 Days advance NDS) 06.06.2012
D <sub>2</sub>	(Normal date of sowing) 16.06.2012
D <sub>3</sub>	(10 Days delayed to NDS) 26.06.2012
D <sub>4</sub>	(20 Days delayed to NDS) 05.07.2012

**Sub plots: Genotypes**

H <sub>1</sub>	VIVEK QPM 9 (EE)
H <sub>2</sub>	KH121 (E)
H <sub>3</sub>	KH 9451 (M)
H <sub>4</sub>	DHM 117 (L)

Cont....

# A171

Date of sowing	Hybrids	Days to 50% silking	Cob length (cm)	100 seed weight	Barrenness (%)	Lodging (%)
D <sub>1</sub>	H <sub>1</sub>	58.3	28.2	45.4	6.1	1.2
	H <sub>2</sub>	66.7	28.2	35.5	0.0	7.1
	H <sub>3</sub>	51.7	23.2	30.5	3.7	5.1
	H <sub>4</sub>	60.7	25.9	34.3	4.3	5.0
D <sub>2</sub>	H <sub>1</sub>	55.7	27.9	44.2	10.0	14.4
	H <sub>2</sub>	62.0	26.4	35.8	7.4	11.8
	H <sub>3</sub>	52.0	23.4	23.0	6.6	16.1
	H <sub>4</sub>	61.0	26.5	32.3	16.4	15.1
D <sub>3</sub>	H <sub>1</sub>	56.0	27.6	42.8	10.2	5.1
	H <sub>2</sub>	62.0	26.6	35.4	8.4	11.7
	H <sub>3</sub>	53.0	22.1	20.7	4.5	24.8
	H <sub>4</sub>	62.0	21.7	32.4	11.9	8.0
D <sub>4</sub>	H <sub>1</sub>	53.0	24.9	35.0	10.5	25.3
	H <sub>2</sub>	61.0	27.6	27.8	6.1	18.1
	H <sub>3</sub>	53.0	15.9	21.5	12.0	19.2
	H <sub>4</sub>	57.0	18.9	31.4	22.3	4.8

Location mean	57.8	24.7	33.0	8.8	12.1
C.D.(5%) AiBj-AiBk	0.6	1.6	3.1	4.6	7.3
C.D.(5%) AiBk-AjBk	0.5	1.8	3.2	5.2	6.8
F(5%)	s	s	s	s	s

D <sub>1</sub>	59.3	26.4	36.4	3.5	4.6
D <sub>2</sub>	57.7	26.0	33.8	10.1	14.3
D <sub>3</sub>	58.3	24.5	32.8	8.7	12.4
D <sub>4</sub>	56.0	21.8	28.9	12.7	16.9

C.D.(5%) Ai-Aj	0.2	1.1	1.7	3.4	2.7
C.V.(%) Error A	0.3	4.5	5.1	38.7	22.2
F(5%)	s	s	s	s	s

H <sub>1</sub>	55.8	27.1	41.9	9.2	11.5
H <sub>2</sub>	62.9	27.2	33.6	5.5	12.2
H <sub>3</sub>	52.4	21.2	23.9	6.7	16.3
H <sub>4</sub>	60.2	23.3	32.6	13.7	8.2

C.D.(5%)Bi-Bj	0.3	0.8	1.6	2.3	3.6
C.V.(%)ErrorB	0.6	3.9	5.6	30.9	35.9
F(5%)	s	s	s	s	s

# A172

**Table 20: Performance of maize hybrids to adopt rainfall changes and climatic aberration at Kangra.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Plant stand/ha	No. of cobs/ha	Plant height (cm)	Days to 50% tasseling
D <sub>1</sub>	H <sub>1</sub>	7862	42181	39094	271.7	55.7
	H <sub>2</sub>	11365	70987	65843	297.0	64.0
	H <sub>3</sub>	6693	69444	63271	245.3	46.0
	H <sub>4</sub>	9448	72016	65329	259.0	58.3
D <sub>2</sub>	H <sub>1</sub>	3616	41666	31378	240.7	52.0
	H <sub>2</sub>	6298	69958	57613	276.3	57.0
	H <sub>3</sub>	3904	54526	41666	220.7	49.0
	H <sub>4</sub>	4559	65329	44753	243.3	56.0
D <sub>3</sub>	H <sub>1</sub>	5455	50411	42181	250.0	52.0
	H <sub>2</sub>	6440	74074	59156	277.0	58.0
	H <sub>3</sub>	3681	68415	42181	217.3	49.0
	H <sub>4</sub>	4148	65329	50926	220.0	55.0
D <sub>4</sub>	H <sub>1</sub>	2775	48868	30350	216.0	49.0
	H <sub>2</sub>	4776	67901	51440	252.0	56.0
	H <sub>3</sub>	3043	64300	44238	185.7	47.0
	H <sub>4</sub>	4546	64300	46296	196.7	49.0
Location mean		5538.0	61856.6	48482.2	241.8	53.3
C.D.(5%) AiBj-AiBk		618.0	5286.4	4323.6	17.3	0.6
C.D.(5%) AiBk-AjBk		776.8	5396.2	4745.7	18.0	0.6
F(5%)		s	s	s	n.s.	s
D <sub>1</sub>		8842	63657	58384	268.3	56.0
D <sub>2</sub>		4594	57870	43853	245.3	53.5
D <sub>3</sub>		4931	64557	48611	241.1	53.5
D <sub>4</sub>		3785	61342	43081	212.6	50.3
C.D.(5%) Ai-Aj		566.8	2884.1	2940.8	10.0	0.2
C.V.(%) Error A		10.2	4.7	6.1	4.2	0.5
F(5%)		s	s	s	s	s
H <sub>1</sub>		4927	45782	35751	244.6	52.2
H <sub>2</sub>		7220	70730	58513	275.6	58.8
H <sub>3</sub>		4330	64171	47839	217.3	47.8
H <sub>4</sub>		5675	66743	51826	229.8	54.6
C.D.(5%)Bi-Bj		309.0	2643.2	2161.8	8.7	0.3
C.V.(%)ErrorB		6.6	5.1	5.3	4.3	0.6
F(5%)		s	s	s	s	s

**Treatment Details:**

**Main plots: Sowing date**

D<sub>1</sub> 10 days advanced NDS (08.06.2012)  
D<sub>2</sub> Normal date of sowing (18.06.2012)  
D<sub>3</sub> 10 days delayed to NDS (28.06.2012)  
D<sub>4</sub> 20 days delayed to NDS (06.07.2012)

**Sub plots: Genotypes**

H<sub>1</sub> BISCO 855 (Medium)  
H<sub>2</sub> PAC 740 (Late)  
H<sub>3</sub> Bajaura Makka (Early)  
H<sub>4</sub> HQPM-1 (Late)

Cont...

# A173

Date of sowing	Hybrids	Days to 50% silking	Cob length (cm)	100seed weight	Barrenness (%)	Lodging (%)
D <sub>1</sub>	H <sub>1</sub>	58.3	28.2	45.4	6.1	1.2
	H <sub>2</sub>	66.7	28.2	35.5	0.0	7.1
	H <sub>3</sub>	51.7	23.2	30.5	3.7	5.1
	H <sub>4</sub>	60.7	25.9	34.3	4.3	5.0
D <sub>2</sub>	H <sub>1</sub>	55.7	27.9	44.2	10.0	14.4
	H <sub>2</sub>	62.0	26.4	35.8	7.4	11.8
	H <sub>3</sub>	52.0	23.4	23.0	6.6	16.1
	H <sub>4</sub>	61.0	26.5	32.3	16.4	15.1
D <sub>3</sub>	H <sub>1</sub>	56.0	27.6	42.8	10.2	5.1
	H <sub>2</sub>	62.0	26.6	35.4	8.4	11.7
	H <sub>3</sub>	53.0	22.1	20.7	4.5	24.8
	H <sub>4</sub>	62.0	21.7	32.4	11.9	8.0
D <sub>4</sub>	H <sub>1</sub>	53.0	24.9	35.0	10.5	25.3
	H <sub>2</sub>	61.0	27.6	27.8	6.1	18.1
	H <sub>3</sub>	53.0	15.9	21.5	12.0	19.2
	H <sub>4</sub>	57.0	18.9	31.4	22.3	4.8

Location mean	57.8	24.7	33.0	8.8	12.1
C.D.(5%) AiBj-AiBk	0.6	1.6	3.1	4.6	7.3
C.D.(5%) AiBk-AjBk	0.5	1.8	3.2	5.2	6.8
F(5%)	s	s	s	s	s

D <sub>1</sub>	59.3	26.4	36.4	3.5	4.6
D <sub>2</sub>	57.7	26.0	33.8	10.1	14.3
D <sub>3</sub>	58.3	24.5	32.8	8.7	12.4
D <sub>4</sub>	56.0	21.8	28.9	12.7	16.9

C.D.(5%) Ai-Aj	0.2	1.1	1.7	3.4	2.7
C.V.(%) Error A	0.3	4.5	5.1	38.7	22.2
F(5%)	s	s	s	s	s

H <sub>1</sub>	55.8	27.1	41.9	9.2	11.5
H <sub>2</sub>	62.9	27.2	33.6	5.5	12.2
H <sub>3</sub>	52.4	21.2	23.9	6.7	16.3
H <sub>4</sub>	60.2	23.3	32.6	13.7	8.2

C.D.(5%)Bi-Bj	0.3	0.8	1.6	2.3	3.6
C.V.(%)ErrorB	0.6	3.9	5.6	30.9	35.9
F(5%)	s	s	s	s	s



# A174

**Table 21: 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)	No. of plant ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
D <sub>1</sub>	H <sub>1</sub>	5733	6850	69.7	79.5	205.7	70.3	73.7
	H <sub>2</sub>	6083	7283	67.8	78.3	210.3	75.0	78.7
	H <sub>3</sub>	6533	7700	69.2	80.0	222.3	71.3	75.7
	H <sub>4</sub>	7150	8600	72.0	82.7	216.3	78.3	82.0
D <sub>2</sub>	H <sub>1</sub>	5717	6633	69.3	79.7	210.0	70.7	75.0
	H <sub>2</sub>	5817	7017	68.3	79.8	212.7	73.7	77.7
	H <sub>3</sub>	6550	7883	69.7	80.3	222.0	72.3	76.3
	H <sub>4</sub>	7133	8250	68.8	79.5	207.7	79.7	84.0
D <sub>3</sub>	H <sub>1</sub>	5100	6017	68.2	79.5	199.3	65.3	70.3
	H <sub>2</sub>	5167	6250	70.8	81.7	201.0	67.3	70.7
	H <sub>3</sub>	5750	6767	68.0	78.7	207.3	69.7	73.3
	H <sub>4</sub>	6450	7633	70.7	80.5	206.7	74.3	78.3
D <sub>4</sub>	H <sub>1</sub>	4333	5283	71.3	81.5	194.0	63.3	66.0
	H <sub>2</sub>	4617	5633	68.3	79.0	201.7	63.7	67.7
	H <sub>3</sub>	5550	6650	69.0	80.3	210.0	69.3	73.0
	H <sub>4</sub>	6117	7333	71.2	81.7	204.7	72.0	75.0
Mean of location		5862.5	6986.5	69.5	80.2	208.2	71.0	74.8
C.D. at (5%)		1174.9	1197.3	3.4	3.8	9.2	4.0	4.6
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		6375	7608	69.7	80.1	213.7	73.8	77.5
D <sub>2</sub>		6304	7446	69.0	79.8	213.1	74.1	78.3
D <sub>3</sub>		5617	6667	69.4	80.1	203.6	69.2	73.2
D <sub>4</sub>		5154	6225	70.0	80.6	202.6	67.1	70.4
C.D. at (5%)		587.4	598.6	1.7	1.9	4.6	2.0	2.3
F (5%)		s	s	n.s.	n.s.	s	s	s
H <sub>1</sub>		5221	6196	69.6	80.0	202.3	67.4	71.3
H <sub>2</sub>		5421	6546	68.8	79.7	206.4	69.9	73.7
H <sub>3</sub>		6096	7250	69.0	79.8	215.4	70.7	74.6
H <sub>4</sub>		6713	7954	70.7	81.1	208.8	76.1	79.8
C.D. at (5%)		587.4	598.6	1.7	1.9	4.6	2.0	2.3
C.V. (%)		12.0	10.3	2.9	2.8	2.7	3.4	3.7
F (5%)		s	s	n.s.	n.s.	s	s	s

**Treatment Details:**

**Main plots: Sowing date**

D<sub>1</sub> 10 days advanced from NDS (15.04.2012)  
D<sub>2</sub> Normal date of Sowing (NDS) (25.04.2012)  
D<sub>3</sub> 10 days delay from NDS (05.05.2012)  
D<sub>4</sub> 20 days delay from NDS (15.05.2012)

**Sub plots: Genotypes**

H<sub>1</sub> H-17  
H<sub>2</sub> Shalimar Maize hybrid-1  
H<sub>3</sub> DHM-117  
H<sub>4</sub> NK 6607

# A175

**Table 22: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Karnal.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
D <sub>1</sub>	H <sub>1</sub>	5104	7157	181.3	83.0	52.0	54.0
	H <sub>2</sub>	5437	7644	199.7	99.3	53.0	55.7
	H <sub>3</sub>	4656	6656	181.3	96.3	49.0	51.3
	H <sub>4</sub>	5563	7742	177.3	98.3	52.0	54.0
D <sub>2</sub>	H <sub>1</sub>	5193	7283	178.3	92.3	55.0	57.0
	H <sub>2</sub>	5446	7757	199.3	98.0	55.0	57.3
	H <sub>3</sub>	4517	6597	177.3	94.0	51.0	53.3
	H <sub>4</sub>	5524	7760	177.0	95.0	53.3	55.7
D <sub>3</sub>	H <sub>1</sub>	4646	6586	175.0	89.7	56.3	58.7
	H <sub>2</sub>	4710	6778	192.7	93.0	57.0	59.0
	H <sub>3</sub>	4682	6755	177.7	89.3	53.0	55.3
	H <sub>4</sub>	4739	6777	169.0	91.0	55.0	58.0
D <sub>4</sub>	H <sub>1</sub>	3356	4866	169.0	82.7	59.0	61.7
	H <sub>2</sub>	3574	5318	183.3	89.7	60.0	62.3
	H <sub>3</sub>	3545	5339	162.7	85.3	56.0	58.0
	H <sub>4</sub>	3007	4263	155.0	87.3	57.7	60.0
Location mean		4606.1	6579.8	178.5	91.5	54.6	57.0
C.D.(5%) AiBj-AiBk		181.2	198.0	6.2	9.7	2.4	2.6
C.D.(5%) AiBk-AjBk		180.9	210.0	8.5	9.2	2.5	2.5
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		5190	7300	184.9	94.3	51.5	53.8
D <sub>2</sub>		5170	7349	183.0	94.8	53.6	55.8
D <sub>3</sub>		4694	6724	178.6	90.8	55.3	57.8
D <sub>4</sub>		3370	4946	167.5	86.3	58.2	60.5
C.D.(5%) Ai-Aj		90.9	122.3	6.6	3.9	1.3	1.1
C.V.(%) Error A		2.0	1.9	3.7	4.3	2.4	2.0
F(5%)		s	s	s	s	s	s
H <sub>1</sub>		4575	6473	175.9	86.9	55.6	57.8
H <sub>2</sub>		4792	6874	193.8	95.0	56.3	58.6
H <sub>3</sub>		4350	6337	174.8	91.3	52.3	54.5
H <sub>4</sub>		4708	6635	169.6	92.9	54.5	56.9
C.D.(5%)Bi-Bj		90.6	99.0	3.1	4.8	1.2	1.3
C.V.(%)ErrorB		2.3	1.8	2.0	6.3	2.6	2.7
F(5%)		s	s	s	s	s	s

**Treatment Details:**

**Main plots: Sowing date**

D<sub>1</sub> 10 days advanced from NDS (26.06.2012)  
D<sub>2</sub> Normal date of Sowing (NDS) (06.07.2012)  
D<sub>3</sub> 10 days delay from NDS (16.07.2012)  
D<sub>4</sub> 20 days delay from NDS (26.07.2012)

**Sub plots: Genotypes**

H<sub>1</sub> HQPM-1  
H<sub>2</sub> HQPM-7  
H<sub>3</sub> HM-4  
H<sub>4</sub> HM-5

# A176

**Table 23: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Ludhiana.**

Date of sowing	Hybrids	Grain yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days 50% tasseling
D <sub>1</sub>	H <sub>1</sub>	7776	64.3	68.0	213.7	111.3	48.3
	H <sub>2</sub>	8578	65.9	69.6	223.0	116.3	50.0
	H <sub>3</sub>	9652	62.4	63.0	219.7	119.7	54.7
D <sub>2</sub>	H <sub>1</sub>	7313	64.6	66.5	221.3	120.3	45.7
	H <sub>2</sub>	9441	65.2	62.6	219.7	114.0	45.0
	H <sub>3</sub>	9411	65.4	62.0	229.7	128.7	49.7
D <sub>3</sub>	H <sub>1</sub>	8209	66.5	67.6	212.3	113.0	42.7
	H <sub>2</sub>	8867	64.4	68.0	207.0	108.7	45.7
	H <sub>3</sub>	9287	65.7	68.5	229.7	124.3	50.3
D <sub>4</sub>	H <sub>1</sub>	7900	65.7	70.6	213.0	107.7	42.7
	H <sub>2</sub>	9404	63.3	65.7	210.3	109.3	45.0
	H <sub>3</sub>	8681	63.3	57.8	225.3	117.3	50.3
Location mean		8709.9	64.7	65.8	218.7	115.9	47.5
C.D.(5%) AiBj-AiBk		1105.6	2.6	4.6	12.8	8.1	1.2
C.D.(5%) AiBk-AjBk		971.3	2.5	6.0	20.2	16.8	1.7
F(5%)		n.s.	n.s.	s	n.s.	n.s.	s
D <sub>1</sub>		8669	64.2	66.9	218.8	115.8	51.0
D <sub>2</sub>		8722	65.1	63.7	223.6	121.0	46.8
D <sub>3</sub>		8788	65.6	68.0	216.3	115.3	46.2
D <sub>4</sub>		8662	64.1	64.7	216.2	111.4	46.0
C.D.(5%) Ai-Aj		361.4	1.4	4.6	17.3	15.4	1.4
C.V.(%) Error A		3.6	1.8	6.1	6.9	11.5	2.6
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	s
H <sub>1</sub>		7800	65.3	68.1	215.1	113.1	44.8
H <sub>2</sub>		9072	64.7	66.5	215.0	112.1	46.4
H <sub>3</sub>		9258	64.2	62.8	226.1	122.5	51.3
C.D.(5%)Bi-Bj		552.8	1.3	2.3	6.4	4.1	0.6
C.V.(%)ErrorB		7.3	2.3	4.1	3.4	4.1	1.4
F(5%)		s	n.s.	s	s	s	s

**Treatment details:**

**Main plot (Date of sowing)**

	Sowing	Harvesting
D <sub>1</sub> 15 days' advance from normal date of sowing	01.6.2012	15.9.2012
D <sub>2</sub> Normal date of sowing	15.6.2012	25.9.2012
D <sub>3</sub> 15 days delayed from normal date of sowing	30.6.2012	15.10.2012
D <sub>4</sub> 30 days delayed from normal date of sowing	15.7.2012	31.10.2012

**Sub plot (Hybrids)**

H <sub>1</sub>	Parkash (Early)
H <sub>2</sub>	PMH 4 (Medium)
H <sub>3</sub>	PMH 1 (Late) l

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# A177

Date of sowing	Hybrids	Days 50% silking	Days 75% husk brown	Cob length (cm)	Cob diameter (cm)	No. of grain rows/cob
D <sub>1</sub>	H <sub>1</sub>	50.3	86.3	18.6	4.4	13.7
	H <sub>2</sub>	52.3	89.0	18.7	4.2	13.7
	H <sub>3</sub>	56.7	91.7	19.1	4.4	14.4
D <sub>2</sub>	H <sub>1</sub>	47.3	80.0	18.6	4.2	13.2
	H <sub>2</sub>	47.0	82.7	17.5	4.1	14.1
	H <sub>3</sub>	51.7	86.3	18.8	4.3	13.9
D <sub>3</sub>	H <sub>1</sub>	44.7	82.0	18.2	4.2	13.2
	H <sub>2</sub>	47.7	85.7	18.3	4.3	13.5
	H <sub>3</sub>	52.3	89.3	19.3	4.6	13.9
D <sub>4</sub>	H <sub>1</sub>	44.7	85.0	17.6	4.1	13.1
	H <sub>2</sub>	47.0	87.3	17.0	4.3	13.5
	H <sub>3</sub>	52.7	92.7	18.2	4.5	13.6

Location mean	49.5	86.5	18.3	4.3	13.6
C.D.(5%) AiBj-AiBk	1.2	1.0	2.1	0.5	0.8
C.D.(5%) AiBk-AjBk	1.9	1.0	1.9	0.6	1.0
F(5%)	s	s	n.s.	n.s.	n.s.

D <sub>1</sub>	53.1	89.0	18.8	4.3	14.0
D <sub>2</sub>	48.7	83.0	18.3	4.2	13.7
D <sub>3</sub>	48.2	85.7	18.6	4.4	13.5
D <sub>4</sub>	48.1	88.3	17.6	4.3	13.4

C.D.(5%) Ai-Aj	1.6	0.5	0.8	0.3	0.8
C.V.(%) Error A	2.8	0.5	3.9	6.8	5.2
F(5%)	s	s	s	n.s.	n.s.

H <sub>1</sub>	46.8	83.3	18.3	4.2	13.3
H <sub>2</sub>	48.5	86.2	17.9	4.2	13.7
H <sub>3</sub>	53.3	90.0	18.8	4.5	13.9

C.D.(5%)Bi-Bj	0.6	0.5	1.1	0.3	0.4
C.V.(%)ErrorB	1.4	0.7	6.7	7.2	3.4
F(5%)	s	s	n.s.	n.s.	s

# A178

**Table 24: Performance of maize hybrids to adapt rainfall changes and climatic aberrations during *kharif* 2012 at Pantnagar.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob weight (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
D <sub>1</sub>	H <sub>1</sub>	2632	3419	65.0	64.1	143.3	50.3	54.7
	H <sub>2</sub>	3726	4829	59.8	59.8	168.3	51.0	56.3
	H <sub>3</sub>	3735	4675	58.1	56.4	107.7	50.3	55.3
	H <sub>4</sub>	4274	5308	58.1	55.6	138.3	54.3	57.7
D <sub>2</sub>	H <sub>1</sub>	4658	5855	66.7	67.5	143.7	46.0	51.3
	H <sub>2</sub>	4239	5342	65.8	65.0	160.3	48.7	54.7
	H <sub>3</sub>	5385	6650	66.7	67.5	135.3	47.3	51.0
	H <sub>4</sub>	4829	6154	62.4	63.2	153.0	54.0	57.0
D <sub>3</sub>	H <sub>1</sub>	4376	5470	60.7	60.7	135.3	45.7	50.0
	H <sub>2</sub>	3299	4145	64.1	56.4	149.0	47.7	51.7
	H <sub>3</sub>	4179	5291	63.2	62.4	116.3	44.3	48.0
	H <sub>4</sub>	4214	5231	52.1	59.8	133.3	53.0	57.0
D <sub>4</sub>	H <sub>1</sub>	3077	3846	58.1	62.4	129.7	44.0	48.3
	H <sub>2</sub>	2949	3744	60.7	60.7	148.0	46.3	50.3
	H <sub>3</sub>	3632	4598	65.0	59.8	109.3	44.3	48.0
	H <sub>4</sub>	2256	2906	63.2	60.7	150.3	48.0	51.7
Location mean		3841.3	4841.3	61.9	61.4	138.8	48.5	52.7
C.D.(5%) AiBj-AiBk		985.8	1244.9	6.0	7.0	21.4	1.5	1.7
C.D.(5%) AiBk-AjBk		953.4	1246.3	5.4	6.5	20.6	1.7	2.1
F(5%)		s	s	s	n.s.	n.s.	s	s
D <sub>1</sub>		3592	4558	60.3	59.0	139.4	51.5	56.0
D <sub>2</sub>		4778	6000	65.4	65.8	148.1	49.0	53.5
D <sub>3</sub>		4017	5034	60.0	59.8	133.5	47.7	51.7
D <sub>4</sub>		2979	3774	61.8	60.9	134.3	45.7	49.6
C.D.(5%) Ai-Aj		428.9	631.5	1.7	2.3	9.3	1.1	1.6
C.V.(%) Error A		11.2	13.1	2.8	3.7	6.7	2.3	3.0
F(5%)		s	s	s	s	s	s	s
H <sub>1</sub>		3685.9	4647.4	62.6	63.7	138.0	46.5	51.1
H <sub>2</sub>		3553.4	4515.0	62.6	60.5	156.4	48.4	53.3
H <sub>3</sub>		4232.9	5303.4	63.2	61.5	117.2	46.6	50.6
H <sub>4</sub>		3893.2	4899.6	59.0	59.8	143.8	52.3	55.8
C.D.(5%)Bi-Bj		492.9	622.5	3.0	3.5	10.7	0.7	0.8
C.V.(%)ErrorB		15.2	15.3	5.7	6.8	9.1	1.8	1.9
F(5%)		s	n.s.	s	n.s.	s	s	s

**Treatment details:**

**A. Sowing date (main plots): 04**

D<sub>1</sub> 15 days' advance from NDS: (date of sowing:22.06.12)  
D<sub>2</sub> Normal date of sowing (NDS): (07.07.12)  
D<sub>3</sub> 15 days delayed from NDS: (date of sowing: 22.07.12)  
D<sub>4</sub> 30 days delayed from NDS: (date of sowing: 07.08.12)

**B. Hybrids (sub plot): 04**

H<sub>1</sub> Vivek 25 (Extra Early)  
H<sub>2</sub> PEHM 2 (Early)  
H<sub>3</sub> Vivek 43 (Medium)  
H<sub>4</sub> HQPM 1 (Late)

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## A179

Date of sowing	Hybrids	Cost of cultivation Rs./ha	Gross return Rs./ha	Net return Rs./ha	B:C ratio (over gross return)
D <sub>1</sub>	H <sub>1</sub>	20568	30932	10364	1.5
	H <sub>2</sub>	20568	43786	23218	2.1
	H <sub>3</sub>	20568	43887	23319	2.1
	H <sub>4</sub>	20568	50214	29646	2.4
D <sub>2</sub>	H <sub>1</sub>	20568	54733	34165	2.7
	H <sub>2</sub>	20568	49812	29244	2.4
	H <sub>3</sub>	20568	63269	42701	3.1
	H <sub>4</sub>	20568	56741	36173	2.8
D <sub>3</sub>	H <sub>1</sub>	20568	51419	30851	2.5
	H <sub>2</sub>	20568	38765	18197	1.9
	H <sub>3</sub>	20568	49109	28541	2.4
	H <sub>4</sub>	20568	49511	28943	2.4
D <sub>4</sub>	H <sub>1</sub>	20568	36154	15586	1.8
	H <sub>2</sub>	20568	34647	14079	1.7
	H <sub>3</sub>	20568	42682	22114	2.1
	H <sub>4</sub>	20568	26513	5945	1.3

Location mean	20568.0	45135.8	24567.8	2.2
C.D.(5%) AiBj-AiBk	0.8	11582.9	11582.9	0.6
C.D.(5%) AiBk-AjBk	0.9	11202.2	11202.2	0.5
F(5%)	n.s.	s	s	s

D <sub>1</sub>	20568	42205	21637	2.1
D <sub>2</sub>	20568	56139	35571	2.7
D <sub>3</sub>	20568	47201	26633	2.3
D <sub>4</sub>	20568	34999	14431	1.7

C.D.(5%) Ai-Aj	0.5	5039.3	5039.3	0.2
C.V.(%) Error A	0.0	11.2	20.5	11.2
F(5%)	n.s.	s	s	s

H <sub>1</sub>	20568	43309	22741	2.1
H <sub>2</sub>	20568	41753	21185	2.0
H <sub>3</sub>	20568	49737	29169	2.4
H <sub>4</sub>	20568	45745	25177	2.2

C.D.(5%)Bi-Bj	0.4	5791.4	5791.4	0.3
C.V.(%)ErrorB	0.0	15.2	28.0	15.2
F(5%)	n.s.	s	s	s

# A180

**Table 25: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Ranchi.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net Return (Rs/ha)	B:C ratio
D <sub>1</sub>	H <sub>1</sub>	4599	5679	63.5	61.5	215.3	45.7	49.3	26666	1.2
	H <sub>2</sub>	5460	6716	68.4	61.0	220.3	47.3	51.3	35554	1.6
	H <sub>3</sub>	5900	7133	66.2	61.0	226.7	51.3	55.3	40055	1.9
	H <sub>4</sub>	4948	6049	68.1	58.8	216.8	53.3	56.7	30379	1.4
D <sub>2</sub>	H <sub>1</sub>	4187	5210	57.3	55.6	178.0	45.7	49.7	22488	1.0
	H <sub>2</sub>	5033	6173	59.3	53.6	205.4	48.0	52.0	31094	1.4
	H <sub>3</sub>	5365	6519	58.8	52.1	210.2	52.0	56.0	34665	1.6
	H <sub>4</sub>	4624	5667	59.5	53.3	184.3	53.7	57.7	26993	1.3
D <sub>3</sub>	H <sub>1</sub>	5108	6267	66.4	60.2	218.8	46.0	50.3	31787	1.5
	H <sub>2</sub>	6062	7333	64.2	61.2	224.2	49.0	53.3	41798	1.9
	H <sub>3</sub>	6566	7827	65.7	64.7	229.0	52.3	56.7	47083	2.2
	H <sub>4</sub>	5388	6568	68.1	62.2	224.3	54.0	58.0	34677	1.6
D <sub>4</sub>	H <sub>1</sub>	4981	6123	66.9	61.0	223.2	46.7	51.0	30678	1.4
	H <sub>2</sub>	5704	6938	64.9	59.5	226.4	48.3	52.7	38207	1.8
	H <sub>3</sub>	6123	7432	65.9	63.7	231.8	53.0	57.3	42433	2.0
	H <sub>4</sub>	5220	6370	65.2	60.5	227.2	55.0	59.3	32902	1.5
Mean of location		5329.3	6500.3	64.3	59.4	216.4	50.1	54.2	34216.6	1.6
C.D. at (5%)		804.3	1038.7	6.6	6.2	25.1	1.6	1.5	7805.8	0.4
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		5227	6394	66.5	60.6	219.8	49.4	53.2	33163	1.5
D <sub>2</sub>		4802	5892	58.7	53.6	194.5	49.8	53.8	28810	1.3
D <sub>3</sub>		5781	6999	66.1	62.1	224.1	50.3	54.6	38836	1.8
D <sub>4</sub>		5507	6716	65.7	61.2	227.2	50.8	55.1	36055	1.7
C.D. at (5%)		402.1	519.4	3.3	3.1	12.5	0.8	0.7	3902.9	0.2
F (5%)		s	s	s	s	s	s	s	s	s
H <sub>1</sub>		4719	5820	63.5	59.6	208.8	46.0	50.1	27904	1.3
H <sub>2</sub>		5565	6790	64.2	58.8	219.1	48.2	52.3	36663	1.7
H <sub>3</sub>		5989	7228	64.1	60.4	224.4	52.2	56.3	41059	1.9
H <sub>4</sub>		5045	6164	65.2	58.7	213.2	54.0	57.9	31238	1.4
C.D. at (5%)		402.1	519.4	3.3	3.1	12.5	0.8	0.7	3902.9	0.2
C.V. (%)		9.1	9.6	6.1	6.2	7.0	1.9	1.6	13.7	13.7
F (5%)		s	s	n.s.	n.s.	n.s.	s	s	s	s

**Treatment details:**

**Main plot: Sowing date**

- D<sub>1</sub> 15 days' advance from NDS
- D<sub>2</sub> Normal Date of sowing
- D<sub>3</sub> 15 Days delayed from NDS
- D<sub>4</sub> 30 Days delayed from NDS

**Sub plot: hybrids of different maturity**

- H<sub>1</sub> Vivek Hybrid-9
- H<sub>2</sub> Bisco maize
- H<sub>3</sub> Malviya Makka-2
- H<sub>4</sub> HQPM-1

# A181

**Table 26: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Arabhavi.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Fodder yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)
D <sub>1</sub>	H <sub>1</sub>	4473	5671	4630	65.3	60.9	165.0	81.3
	H <sub>2</sub>	7891	9861	10185	72.0	68.8	167.0	75.0
	H <sub>3</sub>	12749	15741	15741	75.9	74.8	155.0	70.0
	H <sub>4</sub>	11347	14005	14352	76.9	75.9	150.0	68.3
D <sub>2</sub>	H <sub>1</sub>	5444	7037	6204	73.1	69.4	182.0	90.3
	H <sub>2</sub>	8884	10903	7986	73.1	70.8	172.0	83.0
	H <sub>3</sub>	13065	15833	13056	73.8	75.5	164.0	75.7
	H <sub>4</sub>	13083	16065	12338	75.7	76.2	159.0	73.0
D <sub>3</sub>	H <sub>1</sub>	4021	4977	6435	60.0	62.5	157.0	74.3
	H <sub>2</sub>	9308	11412	8935	66.2	69.7	151.0	69.7
	H <sub>3</sub>	12457	15556	12361	68.5	72.0	145.7	68.3
	H <sub>4</sub>	11313	13634	10810	67.6	71.5	166.3	78.7
D <sub>4</sub>	H <sub>1</sub>	2777	3565	4722	48.8	45.1	146.7	59.3
	H <sub>2</sub>	4854	5787	5694	57.9	56.5	139.3	56.3
	H <sub>3</sub>	5510	6736	8102	68.5	70.6	148.7	60.0
	H <sub>4</sub>	4141	5093	6111	59.3	59.5	164.0	80.7
Mean of location		8207.4	10117.2	9228.9	67.7	67.5	158.3	72.8
C.D. at (5%)		1656.2	1854.9	1755.0	5.5	7.3	15.5	9.8
F (5%)		s	s	s	s	s	s	s
D <sub>1</sub>		9115	11319	11227	72.5	70.1	159.3	73.7
D <sub>2</sub>		10119	12459	9896	74.0	73.0	169.3	80.5
D <sub>3</sub>		9275	11395	9635	65.6	68.9	155.0	72.8
D <sub>4</sub>		4320	5295	6157	58.6	57.9	149.7	64.1
C.D. at (5%)		828.1	927.4	877.5	2.7	3.6	7.7	4.9
F (5%)		s	s	s	s	s	s	s
H <sub>1</sub>		4179	5313	5498	61.8	59.5	162.7	76.3
H <sub>2</sub>		7734	9491	8200	67.3	66.4	157.3	71.0
H <sub>3</sub>		10945	13466	12315	71.7	73.2	153.3	68.5
H <sub>4</sub>		9971	12199	10903	69.8	70.8	159.8	75.2
C.D. at (5%)		828.1	927.4	877.5	2.7	3.6	7.7	4.9
C.V. (%)		12.1	11.0	11.4	4.9	6.5	5.9	8.1
F (5%)		s	s	s	s	s	n.s.	s

Treatment details:

**Main plot: sowing dates**

D<sub>1</sub> 15 days' advance from NDS (26.06.2012)  
D<sub>2</sub> Normal Date of Sowing NDS (12.07.2012)  
D<sub>3</sub> 15 days delayed from NDS (31.07.2012)  
D<sub>4</sub> 30 days delayed from NDS (15.08.2012)

**Sub plots: Hybrids of different maturity**

H<sub>1</sub> Renuka  
H<sub>2</sub> Arjun  
H<sub>3</sub> NK 6240  
H<sub>4</sub> 900 m Gold

Cont...



## A182

Date of sowing	Hybrids	Shelling (%)	Moisture (%)	No. of leaves/plant	Cob length (cm)	Cob girth (cm)	No. grains/row	No. of rows/cob
D <sub>1</sub>	H <sub>1</sub>	79.0	24.7	10.0	12.8	3.7	26.0	12.0
	H <sub>2</sub>	80.0	25.6	11.0	13.8	4.5	30.0	13.0
	H <sub>3</sub>	81.0	29.2	11.5	13.5	4.2	31.0	14.1
	H <sub>4</sub>	81.0	31.3	12.0	14.0	4.1	33.0	15.0
D <sub>2</sub>	H <sub>1</sub>	77.4	15.1	10.9	13.1	3.8	27.9	13.2
	H <sub>2</sub>	81.5	18.6	11.1	14.3	4.8	32.1	15.3
	H <sub>3</sub>	82.4	22.1	11.1	14.9	4.4	33.4	14.7
	H <sub>4</sub>	81.5	23.1	10.7	15.0	4.6	36.8	15.1
D <sub>3</sub>	H <sub>1</sub>	80.8	20.0	11.3	13.5	3.8	31.8	12.9
	H <sub>2</sub>	81.7	22.6	11.1	15.3	4.5	32.5	13.2
	H <sub>3</sub>	80.0	25.4	10.3	13.8	4.7	27.5	14.3
	H <sub>4</sub>	82.8	26.3	11.4	14.8	4.6	36.8	14.8
D <sub>4</sub>	H <sub>1</sub>	77.9	19.4	11.2	12.7	3.8	26.9	12.1
	H <sub>2</sub>	83.9	23.7	10.5	12.4	4.5	27.1	15.9
	H <sub>3</sub>	81.8	25.7	11.1	13.3	4.4	25.7	15.5
	H <sub>4</sub>	81.3	27.7	11.2	13.3	4.6	31.1	16.3

Mean of location	80.9	23.8	11.0	13.8	4.3	30.6	14.2
C.D. at (5%)	3.5	2.7	1.2	2.3	0.5	5.9	1.1
F (5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

D <sub>1</sub>	80.3	27.7	11.1	13.5	4.1	30.0	13.5
D <sub>2</sub>	80.7	19.7	11.0	14.3	4.4	32.5	14.6
D <sub>3</sub>	81.3	23.6	11.0	14.3	4.4	32.2	13.8
D <sub>4</sub>	81.2	24.1	11.0	12.9	4.3	27.7	14.9

C.D. at (5%)	1.7	1.4	0.6	1.2	0.3	3.0	0.6
F (5%)	n.s.	s	n.s.	n.s.	n.s.	s	s

H <sub>1</sub>	78.8	19.8	10.8	13.0	3.8	28.1	12.6
H <sub>2</sub>	81.8	22.6	10.9	14.0	4.6	30.4	14.4
H <sub>3</sub>	81.3	25.6	11.0	13.9	4.4	29.4	14.6
H <sub>4</sub>	81.6	27.1	11.3	14.3	4.5	34.4	15.3

C.D. at (5%)	1.7	1.4	0.6	1.2	0.3	3.0	0.6
C.V. (%)	2.6	6.9	6.8	10.1	7.0	11.6	4.7
F (5%)	s	s	n.s.	n.s.	s	s	s

# A183

**Table 27: Performance of maize hybrids to adopt rain fall changes and climatic aberrations at Hyderabad.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling
D <sub>1</sub>	H <sub>1</sub>	5460	6633	36.1	33.0	158.1	74.4	49.0
	H <sub>2</sub>	5627	6778	35.2	33.5	140.5	72.1	49.7
	H <sub>3</sub>	6572	8514	35.6	34.6	184.3	93.2	60.0
	H <sub>4</sub>	6841	9368	37.0	38.1	181.7	78.7	62.7
D <sub>2</sub>	H <sub>1</sub>	6107	7102	37.4	36.5	156.2	81.5	48.7
	H <sub>2</sub>	6163	7888	36.3	33.7	142.5	72.9	50.0
	H <sub>3</sub>	7311	9834	35.0	34.4	181.7	89.5	60.0
	H <sub>4</sub>	7513	9248	36.1	36.9	184.4	75.3	62.3
D <sub>3</sub>	H <sub>1</sub>	6207	8411	35.7	37.0	160.0	65.5	49.3
	H <sub>2</sub>	6639	8314	33.1	33.1	145.0	69.4	51.0
	H <sub>3</sub>	7674	11107	33.7	33.3	191.1	99.4	58.0
	H <sub>4</sub>	7819	11050	35.7	37.4	173.9	72.8	60.0
D <sub>4</sub>	H <sub>1</sub>	5866	7506	38.3	38.3	166.7	80.6	49.0
	H <sub>2</sub>	6155	8106	39.3	38.7	155.6	81.1	50.3
	H <sub>3</sub>	7085	9583	40.0	37.2	192.8	85.0	58.7
	H <sub>4</sub>	7231	9448	38.0	38.1	195.0	82.2	60.7
Mean of location		6641.8	8680.6	36.4	35.9	169.4	79.6	55.0
C.D. at (5%)		868.0	1344.5	4.4	4.1	18.1	13.5	1.9
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		6125	7823	36.0	34.8	166.2	79.6	55.3
D <sub>2</sub>		6773	8518	36.2	35.4	166.2	79.8	55.3
D <sub>3</sub>		7085	9721	34.6	35.2	167.5	76.8	54.6
D <sub>4</sub>		6584	8661	38.9	38.1	177.5	82.2	54.7
C.D. at (5%)		434.0	672.2	2.2	2.1	9.1	6.7	0.9
F (5%)		s	s	s	s	s	n.s.	n.s.
H <sub>1</sub>		5910	7413	36.9	36.2	160.3	75.5	49.0
H <sub>2</sub>		6146	7772	36.0	34.8	145.9	73.9	50.3
H <sub>3</sub>		7160	9759	36.1	34.9	187.5	91.8	59.2
H <sub>4</sub>		7351	9779	36.7	37.6	183.7	77.2	61.4
C.D. at (5%)		434.0	672.2	2.2	2.1	9.1	6.7	0.9
C.V. (%)		7.8	9.3	7.2	6.9	6.4	10.2	2.1
F (5%)		s	s	n.s.	s	s	s	s

**Treatment details:**

**Main plot: Sowing date**

D<sub>1</sub> 15 days' advance from Normal date (June 10)  
D<sub>2</sub> Normal date of sowing (June 25)  
D<sub>3</sub> 15 days delay from Normal date (July 10)  
D<sub>4</sub> 30 days' advance from Normal date (June 25)

**Sub plot: Maize Hybrids**

H<sub>1</sub> Extra early - Vivek QPM  
H<sub>2</sub> Early – DHM-115  
H<sub>3</sub> Medium – DHM-117  
H<sub>4</sub> Late - 30v92

Cont...

# A184

Date of sowing	Hybrids	Days to 50% silking	Cob length (cm)	Cob width (cm)	No. of grains row/cob	No. of grain/row	Shelling (%)	100 Seed weight
D <sub>1</sub>	H <sub>1</sub>	51.3	15.4	15.6	16.9	34.0	83.3	30.7
	H <sub>2</sub>	53.3	16.1	13.8	12.6	32.1	84.1	34.0
	H <sub>3</sub>	62.0	16.4	15.5	15.3	36.7	77.6	34.7
	H <sub>4</sub>	65.0	16.3	14.8	14.4	36.8	73.0	35.3
D <sub>2</sub>	H <sub>1</sub>	50.0	16.0	15.0	15.8	33.7	86.6	30.3
	H <sub>2</sub>	51.0	16.6	14.2	13.4	36.3	78.0	30.3
	H <sub>3</sub>	62.3	16.2	16.2	14.4	38.1	74.8	36.7
	H <sub>4</sub>	64.7	15.7	15.6	14.0	38.9	81.4	35.3
D <sub>3</sub>	H <sub>1</sub>	48.7	15.6	15.4	15.9	37.0	74.2	33.3
	H <sub>2</sub>	52.3	14.6	14.4	14.2	37.4	81.0	33.3
	H <sub>3</sub>	59.7	16.9	16.8	14.4	38.3	68.9	42.0
	H <sub>4</sub>	62.0	15.7	15.8	14.3	39.6	70.8	40.0
D <sub>4</sub>	H <sub>1</sub>	50.7	15.1	15.8	15.2	33.5	79.8	32.0
	H <sub>2</sub>	53.3	18.3	14.4	14.1	34.5	76.5	36.7
	H <sub>3</sub>	63.0	18.5	16.4	14.3	36.5	74.0	38.7
	H <sub>4</sub>	64.3	19.6	15.8	15.1	41.1	76.9	36.7

Mean of location	57.1	16.4	15.3	14.6	36.5	77.6	35.0
C.D. at (5%)	2.4	1.5	1.2	1.2	3.8	16.1	3.0
F (5%)	n.s.	s	n.s.	s	n.s.	n.s.	s

D <sub>1</sub>	57.9	16.0	14.9	14.8	34.9	79.5	33.7
D <sub>2</sub>	57.0	16.1	15.2	14.4	36.8	80.2	33.2
D <sub>3</sub>	55.7	15.7	15.6	14.7	38.1	73.8	37.2
D <sub>4</sub>	57.8	17.9	15.6	14.7	36.4	76.8	36.0

C.D. at (5%)	1.2	0.7	0.6	0.6	1.9	8.1	1.5
F (5%)	s	s	n.s.	n.s.	s	n.s.	s

H <sub>1</sub>	50.2	15.5	15.5	15.9	34.6	81.0	31.6
H <sub>2</sub>	52.5	16.4	14.2	13.6	35.1	79.9	33.6
H <sub>3</sub>	61.8	17.0	16.2	14.6	37.4	73.8	38.0
H <sub>4</sub>	64.0	16.8	15.5	14.4	39.1	75.5	36.8

C.D. at (5%)	1.2	0.7	0.6	0.6	1.9	8.1	1.5
C.V. (%)	2.5	5.4	4.8	4.8	6.2	12.5	5.1
F (5%)	s	s	s	s	s	n.s.	s

# A185

**Table 28: Performance of maize hybrids to adopt rainfall changes and climatic aberrations in Karimnagar.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Ear height (cm)	Cob length (cm)	Cob girth (cm)	No. of grains row/cob	No. of grains/row	Shelling (%)
D <sub>1</sub>	H <sub>1</sub>	6797	8126	204.7	95.3	17.9	15.5	15.3	35.4	83.7
	H <sub>2</sub>	7094	8586	176.0	81.7	18.9	14.4	14.5	31.9	82.7
	H <sub>3</sub>	8334	10371	210.7	93.7	17.2	15.8	14.3	35.1	80.4
	H <sub>4</sub>	10083	12012	168.7	71.0	18.3	15.5	14.0	36.8	84.0
D <sub>2</sub>	H <sub>1</sub>	6990	8251	197.7	95.0	17.7	15.8	15.1	34.3	84.7
	H <sub>2</sub>	7518	9163	183.3	90.3	17.5	14.3	14.3	32.1	82.1
	H <sub>3</sub>	8557	10874	215.0	97.0	20.9	16.7	14.7	39.3	78.6
	H <sub>4</sub>	9713	11618	203.7	73.7	17.9	14.6	14.1	33.4	83.5
D <sub>3</sub>	H <sub>1</sub>	6371	7571	212.7	83.0	18.1	15.6	14.8	38.3	84.2
	H <sub>2</sub>	6749	8241	192.3	77.0	18.7	14.4	13.9	32.8	81.9
	H <sub>3</sub>	7561	9505	218.0	87.0	19.2	16.4	14.4	35.9	79.5
	H <sub>4</sub>	7587	8978	221.3	83.7	17.8	14.6	13.7	34.3	84.5
D <sub>4</sub>	H <sub>1</sub>	4205	5170	206.3	70.3	15.9	14.6	14.5	30.1	81.3
	H <sub>2</sub>	4285	5380	204.3	74.0	17.8	13.9	14.0	29.7	79.7
	H <sub>3</sub>	5126	6501	218.7	90.7	17.7	15.5	14.3	31.1	78.7
	H <sub>4</sub>	5217	6590	231.8	82.3	19.5	14.1	14.1	32.3	79.2
Mean of location		7011.7	8558.6	204.1	84.1	18.2	15.1	14.4	33.9	187.5
C.D. at (5%)		907.0	1082.9	26.1	16.6	2.5	0.9	1.1	6.7	36.4
F (5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s
D <sub>1</sub>		8077	9774	190.0	85.4	18.1	15.3	14.6	34.8	187.3
D <sub>2</sub>		8195	9977	199.9	89.0	18.5	15.3	14.5	34.8	225.2
D <sub>3</sub>		7067	8574	211.1	82.7	18.5	15.3	14.2	35.3	199.2
D <sub>4</sub>		4708	5910	215.3	79.3	17.7	14.5	14.2	30.8	138.4
C.D. at (5%)		453.5	541.5	13.1	8.3	1.3	0.5	0.5	3.3	18.2
F (5%)		s	s	s	n.s.	n.s.	s	n.s.	s	s
H <sub>1</sub>		6091	7280	205.3	85.9	17.4	15.4	14.9	34.5	175.4
H <sub>2</sub>		6411	7843	189.0	80.8	18.2	14.2	14.2	31.6	170.3
H <sub>3</sub>		7394	9313	215.6	92.1	18.7	16.1	14.4	35.4	221.0
H <sub>4</sub>		8150	9800	206.4	77.7	18.4	14.7	14.0	34.2	183.3
C.D. at (5%)		453.5	541.5	13.1	8.3	1.3	0.5	0.5	3.3	18.2
C.V. (%)		7.8	7.6	7.7	11.8	8.4	3.7	4.5	11.8	11.6
F (5%)		s	s	s	s	n.s.	s	s	n.s.	s

**Treatment details:**

**A) Main plot: Date of sowing**

- D<sub>1</sub> 15 days' advance from normal date of sowing, June 20th 2012.
- D<sub>2</sub> Normal date of sowing, July 5th 2012.
- D<sub>3</sub> 15 days delayed from normal date of sowing, July 20th 2012.
- D<sub>4</sub> 30 days delayed from normal date of sowing, August 5th 2012.

**B) Sub plot: Hybrids of different maturity (4)**

- H<sub>1</sub> Extra early - QPM 9
- H<sub>2</sub> Early - DHM 115
- H<sub>3</sub> Medium - DHM 117
- H<sub>4</sub> Full season - 30v92

# A186

**Table 29: Performance of maize hybrids to adopt rainfall changes and climatic aberrations under rainfed conditions at Kolhapur.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	Days to 50% Silking	Plant height (cm)
D <sub>1</sub>	H <sub>1</sub>	5118	6251	60.7	61.7	179.0
	H <sub>2</sub>	3949	4784	59.3	63.3	154.3
	H <sub>3</sub>	5071	6047	57.8	62.0	177.7
	H <sub>4</sub>	5273	6362	58.0	63.3	171.7
D <sub>2</sub>	H <sub>1</sub>	5693	6916	63.3	61.7	184.0
	H <sub>2</sub>	4771	5760	63.6	63.0	158.7
	H <sub>3</sub>	5829	6996	62.7	62.0	181.3
	H <sub>4</sub>	6236	7449	63.1	63.3	176.7
D <sub>3</sub>	H <sub>1</sub>	4009	4904	64.4	58.7	179.7
	H <sub>2</sub>	3520	4289	64.7	59.3	158.3
	H <sub>3</sub>	3744	4580	63.3	58.7	179.7
	H <sub>4</sub>	5093	6218	65.3	58.3	187.3
D <sub>4</sub>	H <sub>1</sub>	3940	4456	64.4	55.7	206.3
	H <sub>2</sub>	3309	4044	64.7	57.0	170.0
	H <sub>3</sub>	3740	4611	62.4	55.3	194.0
	H <sub>4</sub>	3951	4882	64.9	56.7	198.0
Mean of location		4577.9	5534.3	62.7	60.0	178.5
C.D. at (5%)		896.4	1098.8	2.7	1.3	10.6
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		4853	5861	58.9	62.6	170.7
D <sub>2</sub>		5632	6780	63.2	62.5	175.2
D <sub>3</sub>		4092	4998	64.4	58.8	176.3
D <sub>4</sub>		3735	4498	64.1	56.2	192.1
C.D. at (5%)		448.2	549.4	1.3	0.7	5.3
F (5%)		s	s	s	s	s
H <sub>1</sub>		4690	5632	63.2	59.4	187.3
H <sub>2</sub>		3887	4719	63.1	60.7	160.3
H <sub>3</sub>		4596	5558	61.6	59.5	183.2
H <sub>4</sub>		5138	6228	62.8	60.4	183.4
C.D. at (5%)		448.2	549.4	1.3	0.7	5.3
C.V. (%)		11.7	11.9	2.5	1.3	3.5
F (5%)		s	s	n.s.	s	s

**Treatment details:**

**Main plot: Sowing date**

D<sub>1</sub> 15 days' advance from Normal date (25.06.2012)  
 D<sub>2</sub> Normal date of sowing (10.07.2012)  
 D<sub>3</sub> 15 days delayed from NDS (25.07.2012)  
 D<sub>4</sub> 30 days delayed from NDS (10.08.2012)

**Sub plot: Maize Hybrids**

H<sub>1</sub> BIO-9637 (L)  
 H<sub>2</sub> Rajarshi (M)  
 H<sub>3</sub> P-3570 (E)  
 H<sub>4</sub> P-3377 (M)

# A187

**Table 30: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Ambikapur.**

Date of sowing	Varieties	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	B:C ratio
D <sub>1</sub>	H <sub>1</sub>	4867	5956	64.7	66.2	234.2	46.0	47.7	27738	1.5
	H <sub>2</sub>	5022	6156	65.6	66.9	227.3	47.7	49.7	29186	1.6
	H <sub>3</sub>	6022	7111	67.8	67.8	241.9	51.7	53.7	38327	2.0
	H <sub>4</sub>	6533	7800	66.2	68.0	211.1	53.7	55.0	43332	2.3
D <sub>2</sub>	H <sub>1</sub>	4956	5956	65.3	65.3	217.7	44.7	46.7	28356	1.5
	H <sub>2</sub>	5111	6378	66.4	68.0	202.7	47.0	49.0	30409	1.6
	H <sub>3</sub>	6600	7822	65.8	68.2	216.7	51.0	53.0	43998	2.3
	H <sub>4</sub>	7267	8756	65.1	68.0	217.5	52.7	54.7	50298	2.7
D <sub>3</sub>	H <sub>1</sub>	4756	5978	63.8	63.8	208.4	43.7	45.7	26834	1.4
	H <sub>2</sub>	4800	6022	65.3	65.3	212.3	46.7	48.7	27145	1.4
	H <sub>3</sub>	5889	7333	64.9	64.9	218.5	50.0	52.0	37453	2.0
	H <sub>4</sub>	5311	6311	64.4	64.4	211.9	51.7	53.3	31701	1.7
D <sub>4</sub>	H <sub>1</sub>	3111	4067	63.8	63.8	221.5	42.0	44.0	11260	0.6
	H <sub>2</sub>	3778	4867	65.8	66.0	209.7	43.7	45.7	17514	0.9
	H <sub>3</sub>	4200	5444	64.7	64.7	236.9	48.3	50.3	21584	1.2
	H <sub>4</sub>	4044	5156	64.0	62.7	219.0	50.3	52.3	19961	1.1
Mean of location		5141.7	6319.4	65.2	65.9	219.2	48.2	50.1	30318.4	1.6
C.D. at (5%)		755.9	947.1	1.6	2.6	15.0	1.6	1.5	7249.1	0.4
F (5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	s	s
D <sub>1</sub>		5611	6756	66.1	67.2	228.7	49.8	51.5	34646	1.8
D <sub>2</sub>		5983	7228	65.7	67.4	213.7	48.8	50.8	38265	2.0
D <sub>3</sub>		5189	6411	64.6	64.6	212.8	48.0	49.9	30783	1.6
D <sub>4</sub>		3783	4883	64.6	64.3	221.8	46.1	48.1	17580	0.9
C.D. at (5%)		378.0	473.5	0.8	1.3	7.5	0.8	0.7	3624.6	0.2
F (5%)		s	s	s	s	s	s	s	s	s
H <sub>1</sub>		4422	5489	64.4	64.8	220.5	44.1	46.0	23547	1.3
H <sub>2</sub>		4678	5856	65.8	66.6	213.0	46.3	48.3	26064	1.4
H <sub>3</sub>		5678	6928	65.8	66.4	228.5	50.3	52.3	35340	1.9
H <sub>4</sub>		5789	7006	64.9	65.8	214.9	52.1	53.8	36323	1.9
C.D. at (5%)		378.0	473.5	0.8	1.3	7.5	0.8	0.7	3624.6	0.2
C.V. (%)		8.8	9.0	1.5	2.4	4.1	2.0	1.8	14.3	14.3
F (5%)		s	s	s	s	s	s	s	s	s

**Treatment details:**

**Main plot: sowing date**

- D<sub>1</sub> 15 days' advance from NDS 25.06.2012
- D<sub>2</sub> Normal date of sowing 07.07.2012
- D<sub>3</sub> 15 days delayed from NDS 22.07.2012
- D<sub>4</sub> 30 days delayed from NDS 05.08.2012

**Sub plot: varieties**

- H<sub>1</sub> Bisco champion (Extra Early)
- H<sub>2</sub> Bisco Kohinoor Deluxe (Early)
- H<sub>3</sub> Bisco Bhim (Medium)
- H<sub>4</sub> Bisco 97 Gold (Late)

# A188

**Table 31: Performance of maize hybrids to adopt rainfall changes and climate aberrations at Banswara.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
D <sub>1</sub>	H <sub>1</sub>	3911	4822	66.2	75.8	230.0
	H <sub>2</sub>	3733	4866	65.3	73.1	210.0
	H <sub>3</sub>	5511	6733	66.0	76.7	255.0
	H <sub>4</sub>	5089	6222	66.0	75.6	245.0
D <sub>2</sub>	H <sub>1</sub>	3600	4422	65.8	70.9	226.7
	H <sub>2</sub>	3467	4379	64.9	69.8	208.3
	H <sub>3</sub>	5289	6556	65.8	72.2	250.0
	H <sub>4</sub>	4889	6133	65.6	71.6	238.3
D <sub>3</sub>	H <sub>1</sub>	2911	3711	65.6	66.2	220.0
	H <sub>2</sub>	2822	3711	65.1	65.1	206.0
	H <sub>3</sub>	4489	5756	64.9	65.6	236.7
	H <sub>4</sub>	4000	5178	65.3	66.0	226.7
D <sub>4</sub>	H <sub>1</sub>	2044	2622	62.2	59.1	210.0
	H <sub>2</sub>	1867	2533	62.9	59.6	202.3
	H <sub>3</sub>	2644	3511	62.4	61.1	223.7
	H <sub>4</sub>	2689	3644	62.4	60.0	217.7
Location mean		3684.7	4675.0	64.8	68.0	225.4
C.D.(5%) AiBj-AiBk		281.0	341.6	2.4	3.1	8.2
C.D.(5%) AiBk-AjBk		257.6	323.3	2.7	2.9	7.4
F(5%)		s	s	n.s.	n.s.	s
D <sub>1</sub>		4561	5661	65.9	75.3	235.0
D <sub>2</sub>		4311	5372	65.5	71.1	230.8
D <sub>3</sub>		3556	4589	65.2	65.7	222.3
D <sub>4</sub>		2311	3078	62.5	59.9	213.4
C.D.(5%) Ai-Aj		85.4	131.9	1.7	1.3	2.0
C.V.(%) Error A		2.3	2.8	2.6	1.9	0.9
F(5%)		s	s	s	s	s
H <sub>1</sub>		3117	3894	64.9	68.0	221.7
H <sub>2</sub>		2972	3872	64.6	66.9	206.7
H <sub>3</sub>		4483	5639	64.8	68.9	241.3
H <sub>4</sub>		4167	5294	64.8	68.3	231.9
C.D.(5%)Bi-Bj		140.5	170.8	1.2	1.5	4.1
C.V.(%)ErrorB		4.5	4.3	2.2	2.7	2.2
F(5%)		s	s	n.s.	n.s.	s

Treatment details:

**Main plot: sowing date**

- D<sub>1</sub> 15 days' advance from NDS- 25 June, 2012
- D<sub>2</sub> Normal date of sowing - 12 July, 2012
- D<sub>3</sub> 15 days delayed from NDS - 27 July, 2012
- D<sub>4</sub> 30 days delayed from NDS - 12 Aug., 2012

**Sub plot: maize hybrids**

- H<sub>1</sub> Pratap hybrid-1
- H<sub>2</sub> PEHM-5
- H<sub>3</sub> DHM-117
- H<sub>4</sub> HQPM-1

# A189

**Table 32: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Godhra.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Fodder yield (kg/ha)	*No. of plants ('000/ha)	Plant height (cm)	Days to 50% flowering
D <sub>1</sub>	H <sub>1</sub>	3889	4333	63.8	161.7	44.7
	H <sub>2</sub>	3402	8667	45.1	176.7	50.3
	H <sub>3</sub>	4869	6667	66.4	176.7	55.3
	H <sub>4</sub>	5038	6778	60.4	171.7	59.3
D <sub>2</sub>	H <sub>1</sub>	4704	4667	55.1	166.7	47.7
	H <sub>2</sub>	5169	6444	50.7	154.0	51.3
	H <sub>3</sub>	5189	6778	62.0	158.3	57.0
	H <sub>4</sub>	5996	6444	60.4	186.7	61.3
Mean of location		4781.9	6347.2	58.0	169.0	53.4
C.D. at 5 (%)		1894.9	1398.4	9.4	31.6	1.0
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		4299	6611	58.9	171.7	52.4
D <sub>2</sub>		5264	6083	57.1	166.4	54.3
C.D. at (5%)		947.5	699.2	4.7	15.8	0.5
F (5%)		s	n.s.	n.s.	n.s.	s
H <sub>1</sub>		4297	4500	59.4	164.2	46.2
H <sub>2</sub>		4286	7556	47.9	165.3	50.8
H <sub>3</sub>		5029	6722	64.2	167.5	56.2
H <sub>4</sub>		5517	6611	60.4	179.2	60.3
C.D. at (5%)		1339.9	988.8	6.6	22.4	0.7
C.V. (%)		22.6	12.6	9.2	10.7	1.1
F (5%)		n.s.	s	s	n.s.	s

**Treatment details:**

**Main plot (Date of sowing)**

D <sub>1</sub>	15 days' advance from NDS - 26.06.2012
D <sub>2</sub>	Normal date of sowing - 09.07.2012
D <sub>3</sub>	15 days delayed from NDS - 24.07.2012
D <sub>4</sub>	30 days delayed from NDS - 08.08.2012

**Sub plot (Hybrids)**

H <sub>1</sub>	Vivek-HY-17 (EE)
H <sub>2</sub>	GWH-0503 (E)
H <sub>3</sub>	HQPM-1 (M)
H <sub>4</sub>	DHM-117 (L)

**Note:\*** In 3rd (D<sub>3</sub>) and 4th (D<sub>4</sub>) Date of sowing there was not proper seed setting in the cobs due to moisture stress condition at milking stage so, there was no recording of observations of D<sub>3</sub> & D<sub>4</sub> so, This trial was consider as viciated.



# A190

**Table 33: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Udaipur.**

Date of sowing	Hybrids	Grain yield (kg/ha)	Stover yield (kg/ha)	No. plant ('000/ha)	No of cobs ('000/ha)	Plant height (cm)
D <sub>1</sub>	H <sub>1</sub>	4443	6937	64.0	62.7	198.2
	H <sub>2</sub>	3227	5030	62.7	61.3	184.2
	H <sub>3</sub>	3123	4503	62.0	60.7	178.3
	H <sub>4</sub>	3033	4433	62.0	60.7	184.3
D <sub>2</sub>	H <sub>1</sub>	4220	6493	64.7	62.7	194.3
	H <sub>2</sub>	3020	4657	63.3	61.3	180.3
	H <sub>3</sub>	3017	4330	62.7	61.3	174.3
	H <sub>4</sub>	2837	4153	62.7	61.3	180.3
D <sub>3</sub>	H <sub>1</sub>	3827	5737	63.3	62.0	188.9
	H <sub>2</sub>	2837	4263	62.0	60.7	174.2
	H <sub>3</sub>	2840	4337	61.3	60.0	173.2
	H <sub>4</sub>	2603	3757	61.3	60.0	176.9
D <sub>4</sub>	H <sub>1</sub>	2510	3633	53.3	52.0	179.2
	H <sub>2</sub>	1630	2353	52.0	50.7	164.3
	H <sub>3</sub>	1637	2360	52.0	50.7	163.2
	H <sub>4</sub>	1447	2227	50.0	47.6	168.1
Mean of location		2890.6	4325.2	60.0	58.5	178.9
C.D. at (5%)		396.9	512.8	3.7	3.6	8.4
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.
D <sub>1</sub>		3457	5226	62.7	61.3	186.3
D <sub>2</sub>		3273	4908	63.3	61.7	182.3
D <sub>3</sub>		3027	4523	62.0	60.7	178.3
D <sub>4</sub>		1806	2643	51.8	50.2	168.7
C.D. at (5%)		198.5	256.4	1.8	1.8	4.2
F(5%)		s	s	s	s	s
H <sub>1</sub>		3750	5700	61.3	59.8	190.2
H <sub>2</sub>		2678	4076	60.0	58.5	175.7
H <sub>3</sub>		2654	3883	59.5	58.2	172.3
H <sub>4</sub>		2480	3643	59.0	57.4	177.4
C.D. at (5%)		198.5	256.4	1.8	1.8	4.2
C.V. (%)		8.2	7.1	3.7	3.7	2.8
F(5%)		s	s	n.s.	n.s.	s

**Treatment details:**

**Main plot (Date of sowing)**

D<sub>1</sub> 10 Days early from NDA (20th June)  
 D<sub>2</sub> Normal date of sowing (1 July)  
 D<sub>3</sub> 10 Days late from NDS (11 July)  
 D<sub>4</sub> 20 Days from NDS (20 July)

**Sub plot (Varieties)**

H<sub>1</sub> HQPM-5  
 H<sub>2</sub> PH-1  
 H<sub>3</sub> PEHM-2  
 H<sub>4</sub> PM-5

# A191

**Table 34: Nutrient Requirement of maize hybrids in maize-wheat cropping system at Bajaura.**

Nutrient level	Hybrids	Grain yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
F <sub>1</sub>	H <sub>1</sub>	6713	80.2	74.5	218.0
	H <sub>2</sub>	8610	74.5	67.8	231.3
	H <sub>3</sub>	8187	79.6	76.5	246.3
	H <sub>4</sub>	6547	78.4	73.8	219.3
F <sub>2</sub>	H <sub>1</sub>	9373	81.5	77.8	221.4
	H <sub>2</sub>	11533	74.0	70.2	259.5
	H <sub>3</sub>	9467	75.3	72.2	249.1
	H <sub>4</sub>	10203	80.6	76.2	232.1
F <sub>3</sub>	H <sub>1</sub>	9803	80.4	75.3	228.7
	H <sub>2</sub>	9580	72.0	68.9	261.7
	H <sub>3</sub>	10580	76.7	73.3	1062.0
	H <sub>4</sub>	8977	78.7	74.0	243.0

Location mean	9131.1	77.7	73.4	306.0
C.D.(5%) AiBj-AiBk	1503.9	3.8	4.6	688.1
C.D.(5%) AiBk-AjBk	1731.3	4.1	4.9	744.4
F(5%)	n.s.	n.s.	n.s.	n.s.

F <sub>1</sub>	7514	78.2	73.1	228.7
F <sub>2</sub>	10144	77.9	74.1	240.5
F <sub>3</sub>	9735	77.0	72.9	448.8

C.D.(5%) Ai-Aj	1164.6	2.6	2.9	456.2
C.V.(%) Error A	11.3	2.9	3.5	131.5
F(5%)	s	n.s.	n.s.	n.s.

H <sub>1</sub>	8630	80.7	75.9	222.7
H <sub>2</sub>	9908	73.5	69.0	250.8
H <sub>3</sub>	9411	77.2	74.0	519.1
H <sub>4</sub>	8576	79.2	74.6	231.5

C.D.(5%)Bi-Bj	868.3	2.2	2.7	397.3
C.V.(%)ErrorB	9.6	2.8	3.7	131.1
F(5%)	s	s	s	n.s.

**Treatments details:**

**A. Main Plots: Nutrient management**

F <sub>1</sub>	50 % RDF
F <sub>2</sub>	SSNM based on nutrient expert (150+64+53)
F <sub>3</sub>	100 % RDF

**B. Sub Plots: Hybrids**

H <sub>1</sub>	HQPM 1
H <sub>2</sub>	PMH 3
H <sub>3</sub>	PMH 1
H <sub>4</sub>	DHM 117
H <sub>5</sub>	HM 5 (No germination)

# A192

**Table 35: Nutrient requirement of maize genotypes under different cropping systems at Srinagar.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
F <sub>1</sub>	H <sub>1</sub>	6833	8467	69.3	82.7	205.0	72.7	76.0
	H <sub>2</sub>	6650	8283	66.8	77.5	207.0	77.3	81.3
	H <sub>3</sub>	5850	7533	69.2	83.2	215.3	74.7	78.3
	H <sub>4</sub>	6167	7617	70.7	83.8	212.3	80.7	84.3
	H <sub>5</sub>	5467	6783	69.7	82.5	211.0	74.0	77.7
F <sub>2</sub>	H <sub>1</sub>	6383	7983	67.8	79.0	212.7	76.7	80.7
	H <sub>2</sub>	6617	8233	68.7	76.0	208.3	75.0	78.0
	H <sub>3</sub>	5417	6750	69.2	81.7	206.0	82.7	86.3
	H <sub>4</sub>	5600	7033	68.7	81.2	205.0	69.0	72.7
	H <sub>5</sub>	4983	6183	70.0	81.3	209.0	69.0	72.3
F <sub>3</sub>	H <sub>1</sub>	3367	4192	67.3	76.7	206.0	73.0	77.3
	H <sub>2</sub>	3767	4683	70.5	83.8	201.0	76.7	80.3
	H <sub>3</sub>	3417	4267	70.7	78.0	197.7	64.3	68.7
	H <sub>4</sub>	3583	4500	68.7	79.0	202.0	66.3	69.7
	H <sub>5</sub>	2883	3600	70.2	81.0	200.3	72.0	76.0
Mean of location		5132.2	6407.2	69.2	80.5	206.6	73.6	77.3
C.D. at (5%)		660.2	849.7	3.2	4.7	6.8	4.6	4.2
F (5%)		n.s.	n.s.	n.s.	s	s	s	s
F <sub>1</sub>		6193	7737	69.1	81.9	210.1	75.9	79.5
F <sub>2</sub>		5800	7237	68.9	79.8	208.2	74.5	78.0
F <sub>3</sub>		3403	4248	69.5	79.7	201.4	70.5	74.4
C.D. at (5%)		295.3	380.0	1.4	2.1	3.0	2.0	1.9
F (5%)		s	s	n.s.	n.s.	s	s	s
H <sub>1</sub>		5528	6881	68.2	79.4	207.9	74.1	78.0
H <sub>2</sub>		5678	7067	68.7	79.1	205.4	76.3	79.9
H <sub>3</sub>		4894	6183	69.7	80.9	206.3	73.9	77.8
H <sub>4</sub>		5117	6383	69.3	81.3	206.4	72.0	75.6
H <sub>5</sub>		4444	5522	69.9	81.6	206.8	71.7	75.3
C.D. at (5%)		381.2	490.6	1.8	2.7	3.9	2.6	2.4
C.V. (%)		7.7	7.9	2.8	3.5	2.0	3.7	3.3
F (5%)		s	s	n.s.	n.s.	n.s.	s	s

**Treatment Detail:**

**(A) Nutrient management**

- F<sub>1</sub> 100% RDF
- F<sub>2</sub> SSNM based on nutrient expert
- F<sub>3</sub> Farmer's fertilizer practice

**(B) Genotypes: (Hybrids)**

- H<sub>1</sub> NK 6607
- H<sub>2</sub> DHM-117
- H<sub>3</sub> HQPM-1
- H<sub>4</sub> Pinnacle
- H<sub>5</sub> Kawari

# A193

**Table 36: Nutrient Requirement of Maize genotypes under different cropping systems at Udhampur.**

Nutrient level	Hybrids	Grain weight (kg/ha)	Cob weight (kg/ha)	Stover yield (kg/ha)	Plant stand ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	B : C ratio
F <sub>1</sub>	H <sub>1</sub>	2608	3625	7997	40.8	187.7	45.7	50.0	10300	1.4
	H <sub>2</sub>	3333	4643	10646	43.0	213.7	54.7	58.7	18992	1.8
	H <sub>3</sub>	2619	3676	7641	40.4	208.4	51.3	55.3	10424	1.4
	H <sub>4</sub>	1858	2714	5580	32.4	212.8	51.0	54.7	1410	0.7
F <sub>2</sub>	H <sub>1</sub>	2633	3693	7991	38.3	183.6	46.0	50.3	10433	1.4
	H <sub>2</sub>	3920	5547	12076	47.1	218.5	54.3	59.0	26036	2.0
	H <sub>3</sub>	2857	4082	8493	41.3	214.2	51.7	56.0	13121	1.5
	H <sub>4</sub>	2560	3640	7728	35.3	243.7	50.7	54.7	8882	1.3
F <sub>3</sub>	H <sub>1</sub>	4579	6277	13888	48.5	212.3	45.7	50.3	33920	2.5
	H <sub>2</sub>	5249	7291	15586	52.2	237.7	54.7	59.3	42020	2.7
	H <sub>3</sub>	4395	7112	13272	47.8	233.3	52.7	56.7	31744	2.3
	H <sub>4</sub>	2889	3995	8437	43.3	253.0	51.0	54.7	17108	1.5
Mean of location		3291.6	4691.3	9944.4	42.5	218.2	50.8	55.0	18699.4	1.7
C.D. at (5%)		636.8	702.0	2015.0	5.0	22.6	0.9	1.0	8793.9	0.5
F (5%)		s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F <sub>1</sub>		2604	3665	7966	39.2	205.6	50.7	54.7	10281	1.3
F <sub>2</sub>		2993	4240	9072	40.5	215.0	50.7	55.0	14618	1.6
F <sub>3</sub>		4278	6169	12796	47.9	234.1	51.0	55.3	31198	2.2
C.D. at (5%)		318.4	351.0	1007.5	2.5	11.3	0.4	0.5	4397.0	0.2
F (5%)		s	s	s	s	s	n.s.	n.s.	s	s
H <sub>1</sub>		3273	4532	9959	42.5	194.5	45.8	50.2	18217	1.7
H <sub>2</sub>		4167	5827	12769	47.4	223.3	54.6	59.0	29016	2.2
H <sub>3</sub>		3290	4957	9802	43.2	218.6	51.9	56.0	18429	1.7
H <sub>4</sub>		2435	3450	7248	37.0	236.5	50.9	54.7	9133	1.2
C.D. at (5%)		367.6	405.3	1163.3	2.9	13.0	0.5	0.6	5077.2	0.3
C.V. (%)		11.4	8.8	12.0	6.9	6.1	1.0	1.1	27.8	15.9
F (5%)		s	s	s	s	s	s	s	s	s

**Treatment details :**

**Main plot: Nutrient level**

F<sub>1</sub> Farmer's Practice  
 F<sub>2</sub> Recommended Dose  
 F<sub>3</sub> SSNM

**Sub plot: Varieties**

H<sub>1</sub> JH3459  
 H<sub>2</sub> DHM117  
 H<sub>3</sub> UJALLA BISCO  
 H<sub>4</sub> UDHM105  
 H<sub>5</sub> PMH1

**Note:** Due to very less germination in the H<sub>5</sub> plots the data of the same is not presented

# A194

**Table 37: Nutrient requirement of maize genotypes under maize-wheat cropping system at Ludhiana.**

Nutrient level	Hybrids	Grain yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days 50% tasseling
F <sub>1</sub>	H <sub>1</sub>	7017	58.3	51.0	225.7	130.3	49.3
	H <sub>2</sub>	7267	61.1	60.1	219.3	112.0	45.0
	H <sub>3</sub>	8594	64.6	70.8	217.7	117.3	46.3
	H <sub>4</sub>	6066	60.1	60.1	213.7	110.3	49.3
	H <sub>5</sub>	7083	59.7	57.6	219.3	113.0	49.0
F <sub>2</sub>	H <sub>1</sub>	8663	61.8	62.8	230.7	129.3	52.0
	H <sub>2</sub>	7417	63.9	68.4	214.7	136.7	44.3
	H <sub>3</sub>	8635	64.6	71.5	210.3	115.3	46.0
	H <sub>4</sub>	8233	64.2	69.4	208.0	106.7	47.3
	H <sub>5</sub>	8476	62.5	65.6	219.3	117.0	48.3
F <sub>3</sub>	H <sub>1</sub>	8240	64.6	66.0	233.7	138.0	49.3
	H <sub>2</sub>	7007	64.2	67.0	224.0	120.7	44.0
	H <sub>3</sub>	9330	63.2	69.1	215.7	115.3	46.0
	H <sub>4</sub>	6694	62.8	66.7	206.3	112.0	47.7
	H <sub>5</sub>	8267	61.1	60.1	214.7	112.3	47.0

Location mean	7799.3	62.5	64.4	218.2	119.1	47.4
C.D.(5%) AiBj-AiBk	774.8	2.7	2.8	14.6	8.8	1.9
C.D.(5%) AiBk-AjBk	760.9	3.4	4.2	15.4	11.0	2.6
F(5%)	s	s	s	n.s.	s	n.s.

F <sub>1</sub>	7206	60.8	59.9	219.1	116.6	47.8
F <sub>2</sub>	8285	63.4	67.6	216.6	121.0	47.6
F <sub>3</sub>	7908	63.2	65.8	218.9	119.7	46.8

C.D.(5%) Ai-Aj	323.9	2.5	3.5	8.3	7.9	2.0
C.V.(%) Error A	4.1	3.9	5.3	3.8	6.6	4.1
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.

H <sub>1</sub>	7973	61.6	60.0	230.0	132.6	50.2
H <sub>2</sub>	7230	63.1	65.2	219.3	123.1	44.4
H <sub>3</sub>	8853	64.1	70.5	214.6	116.0	46.1
H <sub>4</sub>	6998	62.4	65.4	209.3	109.7	48.1
H <sub>5</sub>	7942	61.1	61.1	217.8	114.1	48.1

C.D.(5%)Bi-Bj	447.3	1.5	1.6	8.4	5.1	1.1
C.V.(%)ErrorB	5.9	2.5	2.6	4.0	4.4	2.3
F(5%)	s	s	s	s	s	s

**Treatment details :**

**Main plot: Nutrient level**

F<sub>1</sub> 50% RDF  
 F<sub>2</sub> SSNM  
 F<sub>3</sub> 100% RDF

**Sub plot: Varieties**

H<sub>1</sub> PMH 1  
 H<sub>2</sub> Parkash  
 H<sub>3</sub> PMH 4  
 H<sub>4</sub> JH 3956  
 H<sub>5</sub> JH 31244

Cont...

# A195

Nutrient level	Hybrids	Days 50% silking	Days 75% husk brown	Cob length (cm)	Cob diameter (cm)	No. of grain rows/cob
F <sub>1</sub>	H <sub>1</sub>	51.3	84.0	15.4	3.8	13.5
	H <sub>2</sub>	47.0	82.3	17.3	4.6	13.5
	H <sub>3</sub>	48.7	84.0	15.9	3.9	13.1
	H <sub>4</sub>	51.7	81.7	15.7	3.9	12.8
	H <sub>5</sub>	51.0	83.7	18.0	3.7	13.2
F <sub>2</sub>	H <sub>1</sub>	54.0	86.3	16.0	4.4	13.9
	H <sub>2</sub>	46.3	82.3	17.4	4.4	13.3
	H <sub>3</sub>	49.0	81.7	15.9	4.1	13.2
	H <sub>4</sub>	49.3	82.7	16.8	4.1	12.9
	H <sub>5</sub>	50.3	84.0	17.9	4.1	13.3
F <sub>3</sub>	H <sub>1</sub>	51.7	84.0	16.5	4.1	13.3
	H <sub>2</sub>	46.3	82.7	14.9	4.4	13.1
	H <sub>3</sub>	48.7	83.3	16.6	3.9	13.3
	H <sub>4</sub>	49.7	81.7	17.4	4.4	13.1
	H <sub>5</sub>	49.7	84.7	17.7	3.9	13.5

Location mean	49.6	83.3	16.6	4.1	13.3
C.D.(5%) AiBj-AiBk	1.9	2.9	1.0	0.4	0.5
C.D.(5%) AiBk-AjBk	2.5	4.8	1.2	0.4	0.7
F(5%)	n.s.	n.s.	s	s	n.s.

F <sub>1</sub>	49.9	83.1	16.5	4.0	13.2
F <sub>2</sub>	49.8	83.4	16.8	4.2	13.3
F <sub>3</sub>	49.2	83.3	16.6	4.1	13.3

C.D.(5%) Ai-Aj	1.9	4.2	0.9	0.2	0.5
C.V.(%) Error A	3.7	4.9	5.2	4.5	3.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

H <sub>1</sub>	52.3	84.8	16.0	4.1	13.6
H <sub>2</sub>	46.6	82.4	16.5	4.5	13.3
H <sub>3</sub>	48.8	83.0	16.2	4.0	13.2
H <sub>4</sub>	50.2	82.0	16.6	4.1	12.9
H <sub>5</sub>	50.3	84.1	17.9	3.9	13.3

C.D.(5%)Bi-Bj	1.1	1.7	0.6	0.2	0.3
C.V.(%)ErrorB	2.3	2.0	3.6	5.5	2.2
F(5%)	s	s	s	s	s

# A196

**Table 38: Nutrient requirement of maize genotypes under different cropping systems at Ranchi.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net Return (Rs/ha)	B:C ratio
F <sub>1</sub>	V <sub>1</sub>	3650	4840	68.4	65.2	219.7	53.7	58.3	19485	1.1
	V <sub>2</sub>	4906	6049	65.9	60.5	226.2	53.7	58.3	33813	1.8
	V <sub>3</sub>	4617	4716	68.1	66.2	204.4	54.7	59.3	30573	1.7
	V <sub>4</sub>	4893	6123	67.9	59.3	230.1	53.7	58.3	33392	1.8
F <sub>2</sub>	V <sub>1</sub>	7783	8765	70.4	63.7	243.2	52.0	55.7	57756	2.4
	V <sub>2</sub>	8035	9370	64.9	66.9	261.0	52.7	56.3	60449	2.6
	V <sub>3</sub>	6406	7938	68.1	61.0	231.0	52.7	56.3	43179	1.8
	V <sub>4</sub>	7900	9395	65.2	66.9	252.3	51.7	55.3	59180	2.5
F <sub>3</sub>	V <sub>1</sub>	6879	8296	62.7	66.2	250.7	52.0	56.0	51816	2.4
	V <sub>2</sub>	6951	8173	66.4	63.7	245.4	53.0	57.0	51052	2.4
	V <sub>3</sub>	5666	7309	67.2	65.4	230.6	54.0	58.0	38275	1.8
	V <sub>4</sub>	7451	8444	68.1	61.5	246.3	53.0	57.0	56386	2.6
Location mean		6261.4	7451.6	67.0	63.9	236.7	53.1	57.2	44613.5	2.1
C.D.(5%) AiBj-AiBk		945.6	1272.7	4.6	5.6	20.4	1.7	1.7	9647.7	0.5
C.D.(5%) AiBk-AjBk		1136.7	1236.7	6.4	7.0	27.2	2.7	3.3	11603.1	0.6
F(5%)		s	n.s.	n.s.	s	n.s.	n.s.	n.s.	s	s
F <sub>1</sub>		4517	5432	67.6	62.8	220.1	53.9	58.6	29316	1.6
F <sub>2</sub>		7531	8867	67.2	64.6	246.9	52.3	55.9	55141	2.3
F <sub>3</sub>		6737	8056	66.1	64.2	243.3	53.0	57.0	49382	2.3
C.D.(5%) Ai-Aj		803.8	575.8	5.0	5.1	21.0	2.3	3.0	8209.1	0.4
C.V.(%) Error A		11.3	6.8	6.6	7.1	7.8	3.8	4.6	16.2	16.8
F(5%)		s	s	n.s.	n.s.	s	n.s.	n.s.	s	s
V <sub>1</sub>		6104	7300	67.2	65.0	237.9	52.6	56.7	43019	2.0
V <sub>2</sub>		6631	7864	65.8	63.7	244.2	53.1	57.2	48438	2.3
V <sub>3</sub>		5563	6654	67.8	64.2	222.0	53.8	57.9	37342	1.8
V <sub>4</sub>		6748	7988	67.1	62.6	242.9	52.8	56.9	49653	2.3
C.D.(5%)Bi-Bj		546.0	734.8	2.7	3.2	11.8	1.0	1.0	5570.1	0.3
C.V.(%)ErrorB		8.8	10.0	4.0	5.1	5.0	1.9	1.7	12.6	13.6
F(5%)		s	s	n.s.	n.s.	s	n.s.	n.s.	s	s

**Main plot: Nutrient management**

F<sub>1</sub> 50% RDF

F<sub>2</sub> SSNM based on nutrient expert

F<sub>3</sub> 100% RDF

\*SSNM dose :170 :67:86 kg NPK/ha

\*150:60:40 kg NPK/ha as RDF

**Sub plot: varieties**

V<sub>1</sub> PMH-1

V<sub>2</sub> PMH-3

V<sub>3</sub> HQPM-1

V<sub>4</sub> DHM-117

**Note:** Variety HM-5 failed to germinate

# A197

**Table 39: Nutrient requirement of maize genotypes under different cropping systems at Arabhavi.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Fodder yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling
F <sub>1</sub>	H <sub>1</sub>	8291	10639	5194	65.6	66.7	155.3	75.7	63.3
	H <sub>2</sub>	8104	9778	5583	65.0	63.6	164.7	78.0	63.3
	H <sub>3</sub>	7881	9639	4972	66.7	65.6	167.3	78.7	63.0
	H <sub>4</sub>	9143	11194	7000	61.7	63.3	160.3	78.7	62.7
	H <sub>5</sub>	3583	4611	4111	38.6	36.9	157.7	70.0	63.0
F <sub>2</sub>	H <sub>1</sub>	8455	10861	5417	70.6	69.7	149.3	75.3	63.3
	H <sub>2</sub>	7710	9500	5833	63.3	62.5	167.3	81.3	62.7
	H <sub>3</sub>	8599	10361	5167	61.7	60.0	168.7	80.3	63.3
	H <sub>4</sub>	9124	11167	7111	61.7	63.9	160.7	78.7	63.3
	H <sub>5</sub>	3513	4639	3528	32.2	32.5	154.7	73.3	63.0
F <sub>3</sub>	H <sub>1</sub>	9210	11639	5472	65.3	67.2	159.0	76.7	64.7
	H <sub>2</sub>	7496	9417	5972	65.3	63.9	171.7	83.3	64.0
	H <sub>3</sub>	8423	10361	5278	58.9	60.8	165.3	79.0	63.3
	H <sub>4</sub>	9429	11639	7167	66.9	66.4	165.0	77.3	64.0
	H <sub>5</sub>	4440	5528	4222	34.4	33.6	158.0	73.0	64.3
Location mean		7560.2	9398.1	5468.5	58.5	58.4	161.7	77.3	63.4
C.D.(5%) AiBj-AiBk		1353.8	1501.1	860.4	7.7	9.3	18.4	9.5	1.5
C.D.(5%) AiBk-AjBk		1439.6	1632.5	1052.3	7.1	8.6	19.8	14.6	2.1
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F <sub>1</sub>		7400	9172	5372	59.5	59.2	161.1	76.2	63.1
F <sub>2</sub>		7481	9306	5411	57.9	57.7	160.1	77.8	63.1
F <sub>3</sub>		7800	9717	5622	58.2	58.4	163.8	77.9	64.1
C.D.(5%) Ai-Aj		800.2	953.5	733.9	1.8	2.3	11.4	12.0	1.7
C.V.(%) Error A		10.4	10.0	13.2	3.1	4.0	6.9	15.3	2.7
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
H <sub>1</sub>		8652	11046	5361	67.1	67.9	154.6	75.9	63.8
H <sub>2</sub>		7770	9565	5796	64.5	63.3	167.9	80.9	63.3
H <sub>3</sub>		8301	10120	5139	62.4	62.1	167.1	79.3	63.2
H <sub>4</sub>		9232	11333	7093	63.4	64.5	162.0	78.2	63.3
H <sub>5</sub>		3846	4926	3954	35.1	34.4	156.8	72.1	63.4
C.D.(5%)Bi-Bj		781.6	866.7	496.7	4.4	5.4	10.6	5.5	0.8
C.V.(%)ErrorB		10.6	9.5	9.3	7.8	9.4	6.8	7.3	1.4
F(5%)		s	s	s	s	s	n.s.	s	n.s.

**Treatment details:**

**Main plot: Nutrient management**

F<sub>1</sub> 50% RDF (75:37.5:18.75 kg NPK/ha)

F<sub>2</sub> SSNM based on nutrient expert

F<sub>3</sub> 100% RDF (150:75:37.5 kg NPK/ha)

**Sub-plot: Five best recommended hybrids**

H<sub>1</sub> DHM 117

H<sub>2</sub> HQPM 1

H<sub>3</sub> PMH 3

H<sub>4</sub> PMH 1

H<sub>5</sub> Arjun (local check)

Cont....



# A198

Nutrient level	Hybrids	Days to 50% silking	Shelling (%)	Moisture (%)	No. of leaves/plant	Cob length (cm)	Cob girth (cm)	No. grains/row	No. of grain rows/cob
F <sub>1</sub>	H <sub>1</sub>	71.0	78.0	22.6	11.9	13.0	5.1	29.7	14.3
	H <sub>2</sub>	64.0	82.9	23.6	10.8	14.5	4.3	32.7	13.7
	H <sub>3</sub>	64.0	81.8	24.5	11.4	18.1	4.7	38.9	14.1
	H <sub>4</sub>	63.7	81.7	23.7	11.5	14.7	4.7	29.7	14.1
	H <sub>5</sub>	64.3	77.6	24.6	10.6	14.1	4.6	30.1	13.7
F <sub>2</sub>	H <sub>1</sub>	64.3	77.8	21.2	11.1	13.6	5.1	30.4	14.7
	H <sub>2</sub>	64.0	81.2	24.0	10.9	15.0	4.5	28.5	13.9
	H <sub>3</sub>	65.0	82.9	24.8	11.1	15.4	4.6	30.1	14.0
	H <sub>4</sub>	64.3	81.8	23.8	11.7	14.4	4.6	29.1	14.0
	H <sub>5</sub>	63.3	75.8	23.6	11.0	13.8	4.5	33.0	13.8
F <sub>3</sub>	H <sub>1</sub>	65.7	79.1	20.7	11.2	12.5	5.0	27.7	14.0
	H <sub>2</sub>	64.3	79.6	23.1	11.5	14.1	4.4	29.9	14.3
	H <sub>3</sub>	65.0	81.1	24.1	11.4	16.6	4.5	35.3	13.7
	H <sub>4</sub>	65.0	80.8	23.1	11.3	15.2	4.6	29.9	13.7
	H <sub>5</sub>	65.3	80.5	23.8	11.5	13.5	4.5	29.2	14.4
Location mean		64.9	80.2	23.4	11.3	14.6	4.6	31.0	14.0
C.D.(5%) AiBj-AiBk		5.4	3.3	1.6	1.0	4.0	0.4	7.3	1.7
C.D.(5%) AiBk-AjBk		5.7	3.9	2.0	0.9	3.9	0.5	7.3	1.7
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F <sub>1</sub>		65.4	80.4	23.8	11.2	14.9	4.7	32.2	14.0
F <sub>2</sub>		64.2	79.9	23.5	11.2	14.4	4.6	30.2	14.1
F <sub>3</sub>		65.1	80.2	23.0	11.4	14.4	4.6	30.4	14.0
C.D.(5%) Ai-Aj		3.1	2.5	1.5	0.4	1.6	0.3	3.4	0.9
C.V.(%) Error A		4.7	3.1	6.4	3.3	11.0	6.7	10.7	6.3
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
H <sub>1</sub>		67.0	78.3	21.5	11.4	13.0	5.1	29.3	14.3
H <sub>2</sub>		64.1	81.2	23.6	11.1	14.5	4.4	30.4	14.0
H <sub>3</sub>		64.7	81.9	24.4	11.3	16.7	4.6	34.8	14.0
H <sub>4</sub>		64.3	81.4	23.5	11.5	14.8	4.6	29.6	14.0
H <sub>5</sub>		64.3	77.9	24.0	11.0	13.8	4.5	30.8	14.0
C.D.(5%)Bi-Bj		3.1	1.9	0.9	0.6	2.3	0.2	4.2	1.0
C.V.(%)ErrorB		5.0	2.5	4.0	5.0	16.1	5.4	14.1	7.0
F(5%)		n.s.	s	s	n.s.	s	s	n.s.	n.s.

# A199

**Table 40: Nutrient management of maize genotypes under different cropping systems at Hyderabad.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling
F <sub>1</sub>	H <sub>1</sub>	8057	10356	58.0	50.9	197.3	97.8	66.0
	H <sub>2</sub>	6235	8152	52.4	43.6	162.6	82.3	61.7
	H <sub>3</sub>	7025	8972	54.0	48.9	172.2	87.3	65.7
	H <sub>4</sub>	8232	10717	59.3	51.8	182.7	82.9	67.7
	H <sub>5</sub>	5781	7734	51.1	46.7	160.9	77.7	62.7
F <sub>2</sub>	H <sub>1</sub>	7081	8903	56.9	50.9	175.7	92.4	66.7
	H <sub>2</sub>	7271	8832	59.3	52.9	180.9	78.4	64.3
	H <sub>3</sub>	4723	7145	51.6	44.2	158.2	68.5	61.3
	H <sub>4</sub>	6462	8523	58.2	50.2	172.7	78.0	64.7
	H <sub>5</sub>	6509	8668	58.4	53.3	169.5	68.9	64.0
F <sub>3</sub>	H <sub>1</sub>	4163	7211	50.9	46.2	144.8	60.3	61.0
	H <sub>2</sub>	6534	8380	56.4	50.9	167.7	70.8	64.0
	H <sub>3</sub>	6189	7760	54.4	52.9	164.6	80.7	64.0
	H <sub>4</sub>	4131	6781	54.2	41.6	151.7	72.2	61.7
	H <sub>5</sub>	6134	7657	54.0	50.0	162.9	73.8	63.7
Location mean		6301.7	8386.1	55.3	49.0	168.3	78.1	63.9
C.D.(5%) AiBj-AiBk		641.8	840.2	3.8	6.0	18.0	11.9	1.3
C.D.(5%) AiBk-AjBk		758.5	813.1	5.7	6.4	17.8	13.5	1.6
F(5%)		s	s	s	s	s	s	s
F <sub>1</sub>		7066	9186	55.0	48.4	175.1	85.6	64.7
F <sub>2</sub>		6409	8414	56.9	50.3	171.4	77.3	64.2
F <sub>3</sub>		5430	7558	54.0	48.3	158.4	71.6	62.9
C.D.(5%) Ai-Aj		507.6	320.0	4.6	3.7	7.9	8.5	1.1
C.V.(%) Error A		7.9	3.8	8.2	7.4	4.6	10.7	1.7
F(5%)		s	s	n.s.	n.s.	s	s	s
H <sub>1</sub>		6434	8823	55.3	49.3	172.6	83.5	64.6
H <sub>2</sub>		6680	8455	56.1	49.1	170.4	77.2	63.3
H <sub>3</sub>		5979	7959	53.3	48.7	165.0	78.9	63.7
H <sub>4</sub>		6275	8674	57.3	47.9	169.0	77.7	64.7
H <sub>5</sub>		6141	8020	54.5	50.0	164.4	73.4	63.4
C.D.(5%)Bi-Bj		370.5	485.1	2.2	3.4	10.4	6.9	0.7
C.V.(%)ErrorB		6.0	5.9	4.1	7.2	6.3	9.1	1.2
F(5%)		s	s	s	n.s.	n.s.	n.s.	s

**Treatment details:**

**Main plots - Nutrient management**

F<sub>1</sub> 100% RDF  
 F<sub>2</sub> SSNM based on nutrient expert  
 F<sub>3</sub> 50% RDF

**Sub-plots- Maize Hybrids**

H<sub>1</sub> DHM117  
 H<sub>2</sub> HQPM-1  
 H<sub>3</sub> PMH-1  
 H<sub>4</sub> PMH-3  
 H<sub>5</sub> KNMH-1

Cont...

## A200

Nutrient level	Hybrids	Days to 50% silking	Cob length (cm)	Cob width (cm)	No. of grains row/cob	No. of grain/row	Shelling (%)	100 Seed weight
F <sub>1</sub>	H <sub>1</sub>	68.0	17.8	15.9	14.9	38.5	78.1	41.1
	H <sub>2</sub>	63.3	16.0	15.3	13.6	31.5	76.4	33.2
	H <sub>3</sub>	67.7	17.1	16.2	14.3	36.4	78.3	37.7
	H <sub>4</sub>	69.7	20.0	14.9	14.1	40.7	77.1	44.7
	H <sub>5</sub>	64.3	17.9	14.0	14.0	34.6	74.7	34.5
F <sub>2</sub>	H <sub>1</sub>	68.7	18.7	14.5	14.1	37.4	79.7	39.6
	H <sub>2</sub>	66.7	18.0	15.1	14.3	39.2	82.4	38.8
	H <sub>3</sub>	63.0	16.6	14.3	13.3	32.9	66.5	30.6
	H <sub>4</sub>	66.3	17.7	14.7	13.3	38.9	76.0	36.0
	H <sub>5</sub>	67.0	18.6	15.4	15.1	36.1	75.3	39.4
F <sub>3</sub>	H <sub>1</sub>	62.3	16.4	14.4	14.3	32.4	57.9	32.2
	H <sub>2</sub>	66.0	18.0	15.4	14.1	35.7	78.2	36.9
	H <sub>3</sub>	66.0	16.7	14.2	14.1	35.1	79.9	35.7
	H <sub>4</sub>	64.0	15.0	13.9	13.5	31.4	60.9	30.4
	H <sub>5</sub>	65.7	16.6	14.6	13.7	34.1	81.4	34.7
Location mean		65.9	17.4	14.9	14.1	35.7	74.8	36.4
C.D.(5%) AiBj-AiBk		1.2	0.7	0.9	0.8	2.6	11.9	1.4
C.D.(5%) AiBk-AjBk		1.1	1.0	0.9	1.0	2.9	13.6	1.3
F(5%)		s	s	s	s	s	s	s
F <sub>1</sub>		66.6	17.7	15.3	14.2	36.3	76.9	38.2
F <sub>2</sub>		66.3	17.9	14.8	14.0	36.9	76.0	36.9
F <sub>3</sub>		64.8	16.6	14.5	13.9	33.7	71.7	34.0
C.D.(5%) Ai-Aj		0.4	0.7	0.4	0.6	1.8	8.7	0.5
C.V.(%) Error A		0.5	4.2	3.0	4.4	4.9	11.5	1.3
F(5%)		s	s	s	n.s.	s	n.s.	s
H <sub>1</sub>		66.3	17.6	14.9	14.5	36.1	71.9	37.7
H <sub>2</sub>		65.3	17.3	15.3	14.0	35.5	79.0	36.3
H <sub>3</sub>		65.6	16.8	14.9	13.9	34.8	74.9	34.7
H <sub>4</sub>		66.7	17.6	14.5	13.6	37.0	71.3	37.0
H <sub>5</sub>		65.7	17.7	14.7	14.2	34.9	77.1	36.2
C.D.(5%)Bi-Bj		0.7	0.4	0.5	0.5	1.5	6.9	0.8
C.V.(%)ErrorB		1.1	2.4	3.6	3.5	4.3	9.4	2.3
F(5%)		s	s	n.s.	s	s	n.s.	s

# A201

**Table 41: Nutrient requirement of maize genotypes under different cropping systems in Karimnagar.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Ear height (cm)	Cob length (cm)	Cob girth (cm)	No. of grains row/cob	No. of grains /row	Single cob weight (g)	Shelling (%)
F <sub>1</sub>	H <sub>1</sub>	6966	8614	182.7	77.3	17.1	14.9	14.3	26.5	164.7	80.9
	H <sub>2</sub>	5878	7110	197.0	68.7	16.3	13.8	13.5	27.2	155.0	82.7
	H <sub>3</sub>	5586	6768	229.0	78.7	15.4	14.5	13.5	26.5	138.0	82.5
	H <sub>4</sub>	8305	10206	224.3	93.7	17.9	14.2	14.0	31.7	191.0	81.4
	H <sub>5</sub>	7541	9135	227.0	100.0	15.4	15.0	14.2	30.4	160.3	82.6
F <sub>2</sub>	H <sub>1</sub>	8411	10251	202.7	89.0	18.7	16.0	15.4	33.0	199.0	82.0
	H <sub>2</sub>	7197	8809	229.0	76.3	18.6	15.7	15.5	35.9	186.3	81.7
	H <sub>3</sub>	7379	8837	233.7	83.7	18.6	15.1	14.5	31.3	167.0	83.5
	H <sub>4</sub>	9630	11371	238.7	108.7	20.6	15.7	14.5	37.4	229.3	84.7
	H <sub>5</sub>	9681	11664	241.0	108.0	20.5	15.8	16.0	36.5	222.3	83.0
F <sub>3</sub>	H <sub>1</sub>	8822	10625	211.0	88.3	18.9	16.2	15.5	33.0	209.7	83.0
	H <sub>2</sub>	7307	9005	197.7	73.3	17.8	15.1	14.7	35.6	185.0	81.2
	H <sub>3</sub>	7063	8464	233.7	83.7	19.5	15.5	14.4	34.3	180.0	83.5
	H <sub>4</sub>	9208	10928	236.7	105.0	21.0	15.7	14.9	38.7	231.0	84.2
	H <sub>5</sub>	9334	11249	230.7	103.3	21.0	16.0	15.3	34.1	203.3	83.0
Location mean		7887.1	9535.8	221.0	89.2	18.5	15.3	14.7	32.8	188.1	82.7
C.D.(5%) AiBj-AiBk		842.5	1022.2	16.4	8.8	2.0	1.1	1.0	3.5	20.2	1.1
C.D.(5%) AiBk-AjBk		805.2	1013.4	17.1	9.6	2.5	1.1	1.2	3.7	23.4	1.4
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s
F <sub>1</sub>		6855	8367	212.0	83.7	16.4	14.5	13.9	28.5	161.8	82.0
F <sub>2</sub>		8459	10186	229.0	93.1	19.4	15.6	15.2	34.8	200.8	83.0
F <sub>3</sub>		8347	10054	221.9	90.7	19.6	15.7	15.0	35.1	201.8	83.0
C.D.(5%) Ai-Aj		292.9	450.3	9.0	5.6	1.7	0.5	0.8	2.0	15.1	1.0
C.V.(%) Error A		3.7	4.7	4.0	6.2	9.3	3.3	5.3	6.0	7.9	1.2
F(5%)		s	s	s	s	s	s	s	s	s	n.s.
H <sub>1</sub>		8066	9830	198.8	84.9	18.2	15.7	15.0	30.8	191.1	82.0
H <sub>2</sub>		6794	8308	207.9	72.8	17.6	14.8	14.6	32.9	175.4	81.8
H <sub>3</sub>		6676	8023	232.1	82.0	17.8	15.0	14.2	30.7	161.7	83.2
H <sub>4</sub>		9047	10835	233.2	102.4	19.9	15.2	14.5	35.9	217.1	83.4
H <sub>5</sub>		8852	10683	232.9	103.8	19.0	15.6	15.2	33.7	195.3	82.8
C.D.(5%)Bi-Bj		486.4	590.2	9.5	5.1	1.2	0.6	0.6	2.0	11.7	0.7
C.V.(%)ErrorB		6.3	6.4	4.4	5.9	6.6	4.2	4.1	6.2	6.4	0.8
F(5%)		s	s	s	s	s	s	s	s	s	s

**Treatment details:**

**A) Main plots: Nutrient management (3)**

F<sub>1</sub> 50% RDF = 100-30-25 kg NPK/ ha  
 F<sub>2</sub> SSNM based nutrient expert for different hybrids (kg NPK/ ha)  
 F<sub>3</sub> 100 % RDF - 200-60-50 kg NPK/ ha  
 DHM 117 = 170-47-86 kg NPK/ha  
 HQPM 1 = 170-34-86 kg NPK/ha  
 PMH 3 & PMH 1 = 180-61-135 kg NPK/ha  
 30v92 = 160-22-81 kg NPK/ha

**B) Sub plots: hybrids (5)**

H<sub>1</sub> DHM 117  
 H<sub>2</sub> HQPM 1  
 H<sub>3</sub> 30v92  
 H<sub>4</sub> PMH 3  
 H<sub>5</sub> PMH 1  
 (Popular private hybrid, as HM 5 supplied did not germinate, it was replaced by this)

## A202

**Table 42: Nutrient requirement of maize genotypes under different cropping systems at Ambikapur.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	B:C ratio
F <sub>1</sub>	H <sub>1</sub>	4133	4889	64.4	65.3	240.9	53.0	56.0	22050	1.3
	H <sub>2</sub>	3044	3511	64.9	64.2	226.3	51.7	55.0	11580	0.7
	H <sub>3</sub>	5511	6356	64.0	64.2	253.8	52.7	55.7	34963	2.0
	H <sub>4</sub>	5622	6644	65.3	67.1	232.9	53.0	56.3	36109	2.1
F <sub>2</sub>	H <sub>1</sub>	7867	9511	65.3	66.2	255.5	51.3	54.3	53347	2.4
	H <sub>2</sub>	5622	6533	65.1	66.7	233.0	51.0	53.7	31591	1.5
	H <sub>3</sub>	8911	10222	66.0	66.9	258.3	51.7	54.3	62374	2.9
	H <sub>4</sub>	7000	7911	65.8	67.3	260.4	52.0	54.7	44347	2.1
F <sub>3</sub>	H <sub>1</sub>	6111	7267	66.0	66.7	248.8	52.3	55.3	38520	2.0
	H <sub>2</sub>	4244	5156	65.3	64.4	230.1	51.0	54.0	20906	1.0
	H <sub>3</sub>	6489	7378	65.8	66.0	250.5	52.0	55.0	41645	2.1
	H <sub>4</sub>	7022	8400	65.3	66.9	253.6	52.0	54.7	47136	2.4
Location mean		5964.8	6981.5	65.3	66.0	245.3	52.0	54.9	37047.4	1.9
C.D.(5%) AiBj-AiBk		1052.8	1260.6	1.5	4.5	23.1	1.6	1.1	9956.4	0.5
C.D.(5%) AiBk-AjBk		1198.6	1315.6	2.1	5.3	22.4	1.4	1.1	11224.8	0.6
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	s	s
F <sub>1</sub>		4578	5350	64.7	65.2	238.5	52.6	55.8	26175	1.5
F <sub>2</sub>		7350	8544	65.6	66.8	251.8	51.5	54.3	47915	2.2
F <sub>3</sub>		5967	7050.0	65.6	66.0	245.8	51.8	54.8	37052	1.9
C.D.(5%) Ai-Aj		794.6	751.8	1.6	3.6	10.3	0.5	0.5	7341.7	0.4
C.V.(%) Error A		11.8	9.5	2.2	4.8	3.7	0.8	0.8	17.5	18.1
F(5%)		s	s	n.s.	n.s.	n.s.	s	s	s	s
H <sub>1</sub>		6037	7222	65.3	66.1	248.4	52.2	55.2	37972	1.9
H <sub>2</sub>		4304	5067	65.1	65.1	229.8	51.2	54.2	21359	1.1
H <sub>3</sub>		6970	7985	65.3	65.7	254.2	52.1	55.0	46327	2.3
H <sub>4</sub>		6548	7652	65.5	67.1	249.0	52.3	55.2	42531	2.2
C.D.(5%)Bi-Bj		607.8	727.8	0.9	2.6	13.4	0.9	0.6	5748.3	0.3
C.V.(%)ErrorB		10.3	10.5	1.4	4.0	5.5	1.8	1.2	15.7	15.8
F(5%)		s	s	n.s.	n.s.	s	n.s.	s	s	s

Treatment details:

Main plot: Fertility levels

Sub plot: genotypes

F<sub>1</sub> 50% RDF (75: 30: 20)

H<sub>1</sub> DHM 117

F<sub>2</sub> SSNM dose (170:67:86)

H<sub>2</sub> HQPM 1

F<sub>3</sub> 100% RDF (150: 60: 40)

H<sub>3</sub> PMH 3

H<sub>4</sub> PMH 1

## A203

**Table 43: Nutrient requirement of maize genotypes under maize-wheat cropping system at Banswara.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
F <sub>1</sub>	H <sub>1</sub>	2756	3622	63.3	49.3	210.7
	H <sub>2</sub>	2556	3400	64.0	48.2	203.0
	H <sub>3</sub>	1422	2000	46.2	28.0	174.0
	H <sub>4</sub>	2667	3467	63.8	46.2	227.7
	H <sub>5</sub>	2622	3578	62.9	44.7	185.7
F <sub>2</sub>	H <sub>1</sub>	5489	6444	66.2	70.4	257.3
	H <sub>2</sub>	5044	5933	66.2	71.3	243.7
	H <sub>3</sub>	3067	4000	48.2	38.7	180.7
	H <sub>4</sub>	3978	4867	66.2	68.4	267.7
	H <sub>5</sub>	3511	4511	65.6	65.1	202.3
F <sub>3</sub>	H <sub>1</sub>	5067	6178	65.8	67.6	245.7
	H <sub>2</sub>	4244	5289	65.6	68.7	230.3
	H <sub>3</sub>	2200	3000	46.0	36.4	164.3
	H <sub>4</sub>	3044	3733	64.9	66.2	266.7
	H <sub>5</sub>	2689	3489	64.4	59.3	196.0
Location mean		3357.0	4234.1	61.3	55.2	217.0
C.D.(5%) AiBj-AiBk		374.7	486.1	4.9	4.3	5.8
C.D.(5%) AiBk-AjBk		353.7	479.2	5.1	4.7	7.5
F(5%)		s	s	n.s.	s	s
N <sub>1</sub>		2404	3213	60.0	43.3	200.2
N <sub>2</sub>		4218	5151	62.5	62.8	230.3
N <sub>3</sub>		3449	4338	61.3	59.6	220.6
C.D.(5%) Ai-Aj		116.8	207.8	2.7	2.9	5.6
C.V.(%) Error A		3.4	4.8	4.4	5.1	2.5
F(5%)		s	s	n.s.	s	s
H <sub>1</sub>		4437	5415	65.1	62.4	237.9
H <sub>2</sub>		3948	4874	65.3	62.7	225.7
H <sub>3</sub>		2230	3000	46.8	34.4	173.0
H <sub>4</sub>		3230	4022	65.0	60.3	254.0
H <sub>5</sub>		2941	3859	64.3	56.4	194.7
C.D.(5%)Bi-Bj		216.3	280.6	2.8	2.5	3.3
C.V.(%)ErrorB		6.6	6.8	4.7	4.6	1.6
F(5%)		s	s	s	s	s

Treatment details:

**Main plot: Nutrient management**

F<sub>1</sub> 50% of RDF

F<sub>2</sub> SSNM based on nutrient expert

F<sub>3</sub> 100%RDF

**Sub plot: Maize genotypes**

H<sub>1</sub> DHM-117

H<sub>2</sub> HQPM-1

H<sub>3</sub> PMH-3

H<sub>4</sub> PHM-1

H<sub>5</sub> HM-5

## A204

**Table 44: SSNM based nutrient requirement of different maize genotypes at Jhabua.**

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Shelling (%)
F <sub>1</sub>	H <sub>1</sub>	3089	3878	66.9	67.7	180.7	56.3	58.3	79.7
	H <sub>2</sub>	2383	3167	64.3	64.6	155.3	48.3	51.7	75.2
	H <sub>3</sub>	4495	5529	65.1	66.1	175.0	55.0	57.3	81.3
	H <sub>4</sub>	4823	5728	68.8	68.0	186.4	53.0	55.3	84.2
	H <sub>5</sub>	3751	4571	61.1	62.4	159.6	52.3	55.3	82.1
F <sub>2</sub>	H <sub>1</sub>	3678	4622	68.3	69.0	191.2	55.0	56.7	79.5
	H <sub>2</sub>	3152	4001	64.0	65.1	169.0	47.7	50.3	78.7
	H <sub>3</sub>	5167	6347	66.9	68.3	190.0	53.3	55.7	81.4
	H <sub>4</sub>	5712	6926	69.0	68.5	199.0	52.7	54.7	82.4
	H <sub>5</sub>	4808	5815	61.6	63.8	169.8	51.3	54.0	82.7
F <sub>3</sub>	H <sub>1</sub>	3179	3995	68.0	68.5	186.9	55.3	57.3	79.6
	H <sub>2</sub>	2614	3675	64.8	65.1	162.2	48.0	50.7	71.3
	H <sub>3</sub>	5093	6288	67.7	68.8	188.2	53.3	55.7	81.0
	H <sub>4</sub>	4733	5817	69.3	68.3	190.7	52.7	55.0	81.4
	H <sub>5</sub>	4387	5312	61.4	62.7	169.4	51.7	54.7	82.5
Location mean		4070.7	5044.7	65.8	66.5	178.2	52.4	54.8	80.2
C.D.(5%) AiBj-AiBk		530.0	608.0	4.5	4.0	7.7	1.0	1.3	3.4
C.D.(5%) AiBk-AjBk		495.2	569.7	4.2	3.8	8.5	1.1	1.3	3.6
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F <sub>1</sub>		3708	4575	65.2	65.8	171.4	53.0	55.6	80.5
F <sub>2</sub>		4503	5542	66.0	66.9	183.8	52.0	54.3	80.9
F <sub>3</sub>		4001	5017	66.2	66.7	179.5	52.2	54.7	79.2
C.D.(5%) Ai-Aj		147.8	175.3	1.2	1.4	5.2	0.7	0.5	2.0
C.V.(%) Error A		3.6	3.4	1.8	2.1	2.9	1.3	0.9	2.4
F(5%)		s	s	n.s.	n.s.	s	s	s	n.s.
H <sub>1</sub>		3315	4165	67.7	68.4	186.3	55.6	57.4	79.6
H <sub>2</sub>		2716	3614	64.4	64.9	162.2	48.0	50.9	75.1
H <sub>3</sub>		4918	6055	66.6	67.7	184.4	53.9	56.2	81.3
H <sub>4</sub>		5089	6157	69.0	68.3	192.0	52.8	55.0	82.6
H <sub>5</sub>		4315	5233	61.4	63.0	166.2	51.8	54.7	82.4
C.D.(5%)Bi-Bj		306.0	351.0	2.6	2.3	4.4	0.6	0.8	1.9
C.V.(%)ErrorB		7.7	7.2	4.1	3.6	2.6	1.1	1.5	2.5
F(5%)		s	s	s	s	s	s	s	s

### A. Main plots- Nutrient Management

F<sub>1</sub> 50% RDF (60:30:20)  
 F<sub>2</sub> SSNM based on nutrient expert (140:60:60)  
 F<sub>3</sub> 100% RDF (120:60:40)

### B. Sub-plots- hybrids

H<sub>1</sub> DHM-117    H<sub>4</sub> PHM-1  
 H<sub>2</sub> PHM-2    H<sub>5</sub> Bio-9637  
 H<sub>3</sub> PHM-3

## A205

**Table 45: Nutrient management of maize genotype under different cropping sequence at Udaipur.**

Nutrient level	Hybrids	Grain yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Shelling (%)
F <sub>1</sub>	H <sub>1</sub>	3507	57.3	56.7	49.0	54.0	180.0	77.1
	H <sub>2</sub>	4427	58.0	56.0	49.0	54.0	240.0	79.4
	H <sub>3</sub>	4350	62.4	60.9	50.0	55.0	235.0	78.3
	H <sub>4</sub>	4463	63.1	61.1	50.0	56.0	254.0	79.3
	H <sub>5</sub>	313	24.0	30.0	51.0	57.0	153.0	65.4
F <sub>2</sub>	H <sub>1</sub>	5428	57.3	56.7	50.0	55.0	194.3	82.3
	H <sub>2</sub>	6437	58.0	56.7	50.0	55.3	256.3	85.3
	H <sub>3</sub>	5830	62.7	61.8	50.0	55.0	249.0	84.4
	H <sub>4</sub>	6131	63.3	61.3	50.0	57.0	269.3	85.3
	H <sub>5</sub>	520	24.0	30.7	52.0	58.0	168.0	70.3
F <sub>3</sub>	H <sub>1</sub>	4830	57.3	57.1	50.0	53.0	194.0	82.2
	H <sub>2</sub>	5748	58.0	56.7	50.0	55.0	254.0	85.4
	H <sub>3</sub>	5533	62.4	61.3	50.0	55.0	247.3	84.3
	H <sub>4</sub>	5627	63.1	61.3	50.0	57.0	267.0	85.3
	H <sub>5</sub>	507	23.3	30.7	50.0	57.7	168.0	70.3
Mean of location		4243.3	53.0	53.3	50.1	55.6	222.0	79.6
C.D. at (5%)		472.3	3.7	3.4	3.5	3.3	11.6	4.6
F (5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F <sub>1</sub>		3412	53.0	52.9	49.8	55.2	212.4	75.9
F <sub>2</sub>		4869	53.1	53.4	50.4	56.1	227.4	81.5
F <sub>3</sub>		4449	52.8	53.4	50.0	55.5	226.1	81.5
C.D. at (5%)		211.2	1.7	1.5	1.6	1.5	5.2	2.1
F (5%)		s	n.s.	n.s.	n.s.	n.s.	s	s
H <sub>1</sub>		4588	57.3	56.8	49.7	54.0	189.4	80.5
H <sub>2</sub>		5537	58.0	56.4	49.7	54.8	250.1	83.3
H <sub>3</sub>		5238	62.5	61.3	50.0	55.0	243.8	82.3
H <sub>4</sub>		5407	63.2	61.3	50.0	56.7	263.4	83.3
H <sub>5</sub>		447	23.8	30.4	51.0	57.6	163.0	68.7
C.D. at (5%)		272.7	2.1	2.0	2.0	1.9	6.7	2.7
C.V. (%)		6.7	4.2	3.8	4.2	3.5	3.1	3.5
F (5%)		s	s	s	n.s.	s	s	s

**Treatment details:**

**Main plot (Nutrient management)**

F<sub>1</sub> 50% RDF  
 F<sub>2</sub> SSNM\*  
 F<sub>3</sub> 100% RDF (90:40:30 kg N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O/ha<sup>-1</sup>)

**Sub plot (Maize genotypes)**

H<sub>1</sub> HQPM-1  
 H<sub>2</sub> PMH-1  
 H<sub>3</sub> DHM-117  
 H<sub>4</sub> PMH-3  
 H<sub>5</sub> HM-5\*\*

\* Site specific nutrient management

\*\* HM-5 variety was severely infested with post flowering stalk level hence level of yield is low



## A206

**Table 46: Studies on interactive effects of plant density, geometry, and residue management on early maturing maize hybrid-wheat cropping system at Bajaura (rainfed).**

Residue level	Row arrangement	Plant geometry	Grain yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
(R)	ER	S <sub>1</sub>	9643	43.0	43.9	218.7
		S <sub>2</sub>	9173	49.2	49.2	209.7
		S <sub>3</sub>	10377	57.7	56.4	215.5
		S <sub>4</sub>	11423	78.1	74.6	217.7
	PR	S <sub>1</sub>	8653	43.8	43.1	194.5
		S <sub>2</sub>	9613	47.5	48.4	210.4
		S <sub>3</sub>	9697	55.8	56.2	219.3
		S <sub>4</sub>	10903	78.5	76.0	206.0
(NR)	ER	S <sub>1</sub>	8737	40.2	40.2	213.9
		S <sub>2</sub>	8827	48.6	48.5	206.1
		S <sub>3</sub>	8690	54.1	52.7	215.8
		S <sub>4</sub>	9027	70.9	66.9	211.2
	PR	S <sub>1</sub>	8117	42.7	43.9	202.1
		S <sub>2</sub>	8183	42.9	42.4	195.5
		S <sub>3</sub>	8747	56.4	54.0	203.5
		S <sub>4</sub>	9783	75.1	72.2	205.4

Mean of location	9349.6	55.3	54.3	209.1
Residue (R)	9935	56.7	56.0	211.5
No Residue (NR)	8764	53.9	52.6	206.7
C. D. at (5%)	309.0	1.4	1.7	2.3
Significance	S	S	S	S
Equal row (ER)	9487	55.2	54.0	213.6
Paired row (PR)	9212	55.4	54.5	204.6
C. D. at (5%)	309.0	1.4	1.7	2.3
Significance	N.S.	N.S.	N.S.	S
42600 (plant spacing 35 cm) S <sub>1</sub>	8788	42.4	42.8	207.3
50000 (plant spacing 30 cm) S <sub>2</sub>	8949	47.1	47.1	205.4
60000 (plant spacing 25 cm) S <sub>3</sub>	9378	56.0	54.8	213.5
83333 (plant spacing 20 cm) S <sub>4</sub>	10284	75.7	72.4	210.1
C. D. at (5%)	437.0	1.9	2.4	3.2
Significance	S	S	S	S

### Treatment details:

#### Main Plots:

##### A. Residue levels

- R Residue (5t/ha as surface mulch)  
 NR No Residue (Clean fields)

#### Sub Plots: (B x C)

##### B. Row Arrangements (2)

- ER Equal row at 67 cm / 60 cm  
 PR Paired rows at 84:50 cm / 80:40 cm

##### C. Plant geometry (3)

- S<sub>1</sub> 42600 (plant spacing 35 cm)  
 S<sub>2</sub> 50000 (plant spacing 30 cm)  
 S<sub>3</sub> 60000 (plant spacing 25 cm)  
 S<sub>4</sub> 83333 (plant spacing 20 cm)

## A207

**Table 47: Effect of planting system and geometry with and without residue retention under rain fed conditions at Srinagar.**

Residue level	Row arrangement	Plant geometry	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
M <sub>1</sub>	R <sub>1</sub>	P <sub>1</sub>	4067	5089	42.0	57.1	202.0	62.3	66.0
		P <sub>2</sub>	4533	5689	48.4	64.9	203.7	62.7	66.3
		P <sub>3</sub>	4822	6022	59.6	81.3	204.3	63.0	66.7
		P <sub>4</sub>	5244	6556	81.8	101.3	211.3	63.7	67.7
	R <sub>2</sub>	P <sub>1</sub>	4067	5089	41.8	59.1	202.7	63.0	66.7
		P <sub>2</sub>	4444	5556	49.3	65.3	205.3	63.7	67.7
		P <sub>3</sub>	4889	6089	61.8	85.3	206.7	61.3	66.0
		P <sub>4</sub>	5356	6444	81.8	98.7	210.0	65.0	69.0
M <sub>2</sub>	R <sub>1</sub>	P <sub>1</sub>	4178	5178	40.4	53.6	210.7	66.7	70.3
		P <sub>2</sub>	4556	5689	50.2	66.0	212.0	67.3	70.3
		P <sub>3</sub>	4911	6178	61.6	87.1	211.7	67.0	71.3
		P <sub>4</sub>	5378	6644	84.7	107.6	206.3	65.3	70.0
	R <sub>2</sub>	P <sub>1</sub>	4222	5289	42.4	56.0	216.3	67.3	70.0
		P <sub>2</sub>	4556	5733	48.2	61.6	214.7	67.0	70.3
		P <sub>3</sub>	5000	6333	62.9	79.8	213.3	67.0	70.7
		P <sub>4</sub>	5444	6778	82.7	92.9	212.0	67.7	72.0

Mean of location	4729.2	5897.2	88.1	114.1	208.9	65.0	68.8
M <sub>1</sub>	4678	5817	58.3	76.6	205.8	63.1	67.0
M <sub>2</sub>	4781	5978	59.1	75.6	212.1	66.9	70.6

C. D. at (5%)	167.7	223.6	1.3	2.3	2.2	0.9	1.0
Significance	N.S.	N.S.	N.S.	N.S.	S	S	S
R <sub>1</sub>	4711	5881	58.6	77.4	207.8	64.8	68.6
R <sub>2</sub>	4747	5914	58.9	74.8	210.1	65.3	69.0

C. D. at (5%)	167.7	223.6	1.3	2.3	2.2	0.9	1.0
Significance	N.S.	N.S.	N.S.	S	S	N.S.	N.S.
P <sub>1</sub>	4133	5161	41.7	56.4	207.9	64.8	68.3
P <sub>2</sub>	4522	5667	49.1	64.4	208.9	65.2	68.7
P <sub>3</sub>	4906	6156	61.4	83.4	209.0	64.6	68.7
P <sub>4</sub>	5356	6606	82.7	100.1	209.9	65.4	69.7

C. D. at (5%)	237.2	316.2	1.9	3.3	3.1	1.3	1.4
Significance	S	S	S	S	N.S.	N.S.	N.S.

**Treatment Details:**

A) Residue Level	Symbol	C) Plant geometry (Plant population/ha)	Symbol
Clean field	M <sub>1</sub>	Plant to Plant 37 cm (40,000)	P <sub>1</sub>
Residue Mulch (5 Tonnes/ha)	M <sub>2</sub>	Plant to Plant 30 cm (50,000)	P <sub>2</sub>
<b>B) Row arrangement</b>		Plant to Plant 25 cm (60,000)	P <sub>3</sub>
Equal row at 67cm	R <sub>1</sub>	Plant to Plant 20 cm (83,000)	P <sub>4</sub>
Paired row (84:50cm)	R <sub>2</sub>		

## A208

**Table 48: Interactive effect of plant density, geometry and fertility levels on the productivity of maize under rainfed condition at Udhampur.**

Row ration	Plant geometry	Residue level	Grain weight (Kg/ha)	Cob weight (kg/ha)	Plant stand ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs./ha)	B:C ratio
RM <sub>1</sub>	PG <sub>1</sub>	CF	3602	4587	34.7	192.8	53.7	57.3	17628	1.7
		RF	4437	5595	37.5	227.8	53.3	57.0	31240	2.3
	PG <sub>2</sub>	CF	4844	6157	42.5	219.5	53.0	57.0	36116	2.5
		RF	5309	6727	47.7	218.8	52.7	56.0	41708	2.7
	PG <sub>3</sub>	CF	6129	7872	54.3	228.9	52.3	56.7	51544	3.1
		RF	6310	8163	55.1	235.8	52.7	56.3	53717	3.2
RM <sub>2</sub>	PG <sub>1</sub>	CF	2921	3916	32.3	203.9	53.7	57.3	13989	1.5
		RF	3846	4994	35.2	204.6	52.7	56.3	24172	2.0
	PG <sub>2</sub>	CF	4365	5904	40.7	223.9	52.7	56.3	33224	2.3
		RF	4569	5500	48.9	224.6	52.0	55.7	29636	2.4
	PG <sub>3</sub>	CF	5907	7479	53.7	215.7	53.0	56.3	48888	3.0
		RF	6339	8074	55.9	226.9	53.0	57.0	54064	2.9

Mean of location	4881.4	6247.2	44.9	218.6	52.9	56.6	36327.2	2.5
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RM <sub>1</sub>	5105	6517	45.3	220.6	52.9	56.7	38659	2.6
RM <sub>2</sub>	4658	5978	44.5	216.6	52.8	56.5	33996	2.3

C. D. at (5%)	167.2	235.2	1.3	17.8	0.6	0.7	2359.3	0.1
Significance	S	S	N.S.	N.S.	N.S.	N.S.	S	S

PG <sub>1</sub>	3701	4773	35.0	207.3	53.3	57.0	21757	1.9
PG <sub>2</sub>	4772	6072	45.0	221.7	52.6	56.3	35171	2.5
PG <sub>3</sub>	6171	7897	54.7	226.8	52.8	56.6	52053	3.1

C. D. at (5%)	204.7	288.1	1.5	21.9	0.7	0.9	2889.5	0.2
Significance	S	S	S	N.S.	N.S.	N.S.	S	S

CF	4628	5986	43.0	214.1	53.1	56.8	33565	2.4
RF	5135	6509	46.7	223.1	52.7	56.4	39090	2.6

C. D. at (5%)	167.2	235.2	1.3	17.8	0.6	0.7	2359.3	0.1
Significance	S	S	S	N.S.	N.S.	N.S.	S	S

### Treatment details:

#### A. Row arrangement

RM<sub>1</sub> Equal row at 67 cm  
 RM<sub>2</sub> Paired row at (84:50 cm)

#### C. Residue level

CF Clean field  
 RF Residue field

#### B. Plant Spacing

PG<sub>1</sub> 37 cm  
 PG<sub>2</sub> 30 cm  
 PG<sub>3</sub> 25 cm

## A209

**Table 49: Evaluation of the interactive effect of plant geometry (equal spaced and paired rows), intercropping and residue management on the productivity of maize under rainfed condition at Ranchi.**

Row arrangement	Inter crop	Residue level	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net Return (Rs/ha)	B:C ratio
M <sub>1</sub>	S <sub>1</sub>	R <sub>1</sub>	5214	6209	64.8	60.3	202.4	54.0	58.3	42496	1.7
		R <sub>2</sub>	5591	6664	67.7	65.1	214.7	55.0	59.3	47340	1.8
	S <sub>2</sub>	R <sub>1</sub>	5193	6556	65.1	62.0	213.0	54.0	58.3	46542	2.0
		R <sub>2</sub>	5683	7016	65.1	60.8	235.9	54.0	58.3	52509	2.1
M <sub>2</sub>	S <sub>1</sub>	R <sub>1</sub>	5371	6670	65.7	61.7	228.6	54.0	59.0	45858	1.9
		R <sub>2</sub>	5756	7193	65.4	63.1	225.6	53.0	57.0	49589	1.9
	S <sub>2</sub>	R <sub>1</sub>	5673	6812	65.4	64.8	218.1	54.0	58.0	53329	2.2
		R <sub>2</sub>	6041	7113	69.4	65.4	214.0	53.0	56.0	58166	2.3

Mean of location                      5565.1    6779.0    77.5    73.8    219.0    53.9    58.0    49478.6    2.0

M <sub>1</sub>	5420	6611	65.7	62.0	216.5	54.3	58.6	47222	1.9
M <sub>2</sub>	5710	6947	66.5	63.8	221.6	53.5	57.5	51736	2.1
C. D. at (5%)	378.0	424.5	2.3	3.1	9.2	0.9	0.9	3678.6	0.1
Significance	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	S	S	S

S <sub>1</sub>	5483	6684	65.9	62.5	217.8	54.0	58.4	46321	1.8
S <sub>2</sub>	5647	6874	66.2	63.3	220.3	53.8	57.7	52637	2.1
C. D. at (5%)	378.0	424.5	2.3	3.1	9.2	0.9	0.9	3678.6	0.1
Significance	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	S	S

R <sub>1</sub>	5363	6561	65.2	62.2	215.5	54.0	58.4	47056.1	1.9
R <sub>2</sub>	5768	6996	66.9	63.6	222.5	53.8	57.7	51901.1	2.0
C. D. at (5%)	378.0	424.5	2.3	3.1	9.2	0.9	0.9	3678.6	0.1
Significance	S	S	N.S.	N.S.	N.S.	N.S.	N.S.	S	N.S.

### Treatment details:

#### Main plot: Row arrangement

M<sub>1</sub> Equal rows at 67 cm

M<sub>2</sub> Paired rows (84:50 cm)

#### Sub plot: Plant intercropping

S<sub>1</sub> Maize + Soybean

S<sub>2</sub> Maize + Blackgram

#### Sub-sub plot: Residue level

R<sub>1</sub> Clean field

R<sub>2</sub> Residue retention as mulch (5t/ha)

## A210

**Table 50: Evaluation of interactive effects of plant geometry and intercrops on the productivity of early maturity genotypes for rainfed conditions in Karimnagar.**

Plant Geometry	Inter crops	Residue level	Maize Grain yield (Kg/ha)	Cob yield (Kg/ha)	Plant height (cm)	Ear height (cm)	Single cob weight (g)
P <sub>1</sub>	I <sub>1</sub>	M <sub>1</sub>	9627	12836	208.7	104.3	182.6
		M <sub>2</sub>	10328	13771	212.3	110.7	195.5
	I <sub>2</sub>	M <sub>1</sub>	7588	10117	206.3	105.0	160.5
		M <sub>2</sub>	7898	10531	208.7	107.3	167.3
P <sub>2</sub>	I <sub>1</sub>	M <sub>1</sub>	8867	11823	210.0	106.3	181.7
		M <sub>2</sub>	9875	13167	210.7	106.7	204.0
	I <sub>2</sub>	M <sub>1</sub>	7292	9723	208.7	105.3	176.5
		M <sub>2</sub>	7838	10450	207.3	108.0	180.5

Mean of location 11552.  
8664.1 4 209.1 106.7 181.1

P <sub>1</sub>	8860	11814	209.0	106.8	176.5
P <sub>2</sub>	8468	11291	209.2	106.6	185.7
C. D. at (5%)	422.9	598.1	6.1	5.1	17.2
Significance	N.S.	N.S.	N.S.	N.S.	N.S.

I <sub>1</sub>	9674	12899	210.4	107.0	191.0
I <sub>2</sub>	7654	10205	207.8	106.4	171.2
C. D. at (5%)	422.9	598.1	6.1	5.1	17.2
Significance	S	S	N.S.	N.S.	S

M <sub>1</sub>	8344	11125	208.4	105.3	175.3
M <sub>2</sub>	8985	11980	209.8	108.2	186.9
C. D. at (5%)	422.9	598.1	6.1	5.1	17.2
Significance	S	S	N.S.	N.S.	N.S.

### Treatment details:

#### A) Main treatment: Plant geometry (2)

P<sub>1</sub> Equal row spacing at 67 cm

P<sub>2</sub> Paired row spacing at 84:50 cm

#### B) Sub treatments: Intercrops (2)

I<sub>1</sub> Maize + Cowpea

I<sub>2</sub> Maize + Greengram

#### C) Sub-sub treatments: Residue level (2)

M<sub>1</sub> Clean Field

M<sub>2</sub> Residue retention as a mulch @ 5t/ha

# A211

**Table 51: Evaluation of interactive effect of plant density and geometry on productivity of maize under rain fed condition at Kolhapur.**

Row arrangement	Plant population	Residue level	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	Days to 50% Silking	Plant height (cm)
ER	P <sub>1</sub>	R <sub>0</sub>	5114	6182	43.9	60.3	163.3
		R <sub>1</sub>	5760	6940	44.6	59.7	165.0
	P <sub>2</sub>	R <sub>0</sub>	4743	5668	49.9	60.3	165.3
		R <sub>1</sub>	5411	6690	49.6	60.0	167.7
	P <sub>3</sub>	R <sub>0</sub>	4715	5597	55.4	60.7	166.0
		R <sub>1</sub>	4910	6075	52.4	59.7	166.7
PR	P <sub>1</sub>	R <sub>0</sub>	5028	6046	44.4	60.3	162.7
		R <sub>1</sub>	5629	6779	44.4	59.7	166.0
	P <sub>2</sub>	R <sub>0</sub>	4852	6053	49.8	60.0	163.7
		R <sub>1</sub>	6171	7441	49.9	59.3	169.7
	P <sub>3</sub>	R <sub>0</sub>	5390	6310	58.0	60.3	170.0
		R <sub>1</sub>	6333	7692	58.9	59.3	178.3
Mean of location			5338.0	6456.2	100.7	60.0	167.0

ER	5109	6192	49.3	60.1	165.7
PR	5567	6720	50.9	59.8	168.4
C. D. at (5%)	443.7	528.2	3.2	0.6	4.1
Significance	S	S	S	N.S.	N.S.

P <sub>1</sub>	5383	6487	44.4	60.0	164.3
P <sub>2</sub>	5294	6463	49.8	59.9	166.6
P <sub>3</sub>	5337	6418	56.2	60.0	170.3
C. D. at (5%)	543.5	646.9	3.9	0.7	5.0
Significance	N.S.	N.S.	S	N.S.	N.S.

R <sub>0</sub>	4974	5976	50.2	60.3	165.2
R <sub>1</sub>	5702	6936	50.0	59.6	168.9
C. D. at (5%)	443.7	528.2	3.2	0.6	4.1
Significance	S	S	N.S.	S	N.S.

### Treatment details:

#### A. Row arrangement (2)

ER Equal row at 67 cm

PR Paired row (84:50 cm)

#### C. Residue level (2)

R<sub>0</sub> Clean field

R<sub>1</sub> Residue retention as a mulch

#### B. Plant population/ha (3)

P<sub>1</sub> 40,000

P<sub>2</sub> 50,000

P<sub>3</sub> 60,000

## A212

**Table 52: Evaluation of interactive effect of plant density, geometry and fertility levels on productivity of maize at Ambikapur.**

Row arrangement	Intercropping	Residue level	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000 ha)	No. of cobs ('000 ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	B:C ratio
ER	S <sub>1</sub>	M <sub>0</sub>	4451	5321	72.7	72.7	236.1	46.7	49.3	39170	2.2
		M <sub>1</sub>	4099	4865	71.2	71.6	241.7	47.0	49.7	36508	1.9
	S <sub>2</sub>	M <sub>0</sub>	4203	5093	72.7	72.7	231.2	47.0	49.7	39418	2.3
		M <sub>1</sub>	4638	5569	72.7	72.9	237.6	47.0	49.3	40738	2.2
PR	S <sub>1</sub>	M <sub>0</sub>	4948	6004	72.7	73.3	233.9	46.7	49.3	41599	2.4
		M <sub>1</sub>	5673	6874	72.7	73.5	241.2	46.7	49.3	49855	2.7
	S <sub>2</sub>	M <sub>0</sub>	3727	4513	72.5	73.3	231.3	47.3	50.0	33869	2.0
		M <sub>1</sub>	5176	6108	72.7	72.3	235.5	47.0	49.7	47531	2.6

Mean of location                      4614.4    5543.5    116.7    117.2    236.1    46.9    49.5    41086.0    2.3

ER	4348	5212	72.3	72.5	236.7	46.9	49.5	38959	2.2
PR	4881	5875	72.6	73.1	235.5	46.9	49.6	43213	2.4
C. D. at (5%)	419.2	496.5	2.1	2.6	9.4	0.8	0.7	4186.1	0.2
Significance	S	S	N.S.	N.S.	N.S.	N.S.	N.S.	S	N.S.

S <sub>1</sub>	4793	5766	72.3	72.8	238.2	46.8	49.4	41783	2.3
S <sub>2</sub>	4436	5321	72.6	72.8	233.9	47.1	49.7	40389	2.3
C. D. at (5%)	419.2	496.5	2.1	2.6	9.4	0.8	0.7	4186.1	0.2
Significance	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

M <sub>0</sub>	4332	5233	72.6	73.0	233.1	46.9	49.6	38514	2.3
M <sub>1</sub>	4896	5854	72.3	72.6	239.0	46.9	49.5	43658	2.4
C. D. at (5%)	419.2	496.5	2.1	2.6	9.4	0.8	0.7	4186.1	0.2
Significance	S	S	N.S.	N.S.	N.S.	N.S.	N.S.	S	N.S.

Treatment details:

**A. Row arrangement (2)**

ER Equal rows at 67 cm

PR Paired rows (84:50 cm)

**B. Intercropping (2)**

S<sub>1</sub> Maize + Soybean

S<sub>2</sub> Maize + Black Gram

**C. Residue level (2)**

M<sub>0</sub> Clean cultivation

M<sub>1</sub> Residue retention as mulch (5 tonn/ha)

## A213

**Table 53: Evaluation of interactive effect of plant density, geometry and fertility levels on productivity of maize under rainfed conditions at Banswara.**

Row arrangement	Intercropping	Residue level	Maize eq. yield (kg/ha)
Eq. R	I <sub>1</sub>	CF	6350
		SR	6538
	I <sub>2</sub>	CF	6404
		SR	6692
Pai. R	I <sub>1</sub>	CF	6691
		SR	6844
	I <sub>2</sub>	CF	6850
		SR	7055

Mean of location 6678.0

Eq. R	6496
Pai. R	6860

C. D. at (5%) 77.7  
Significance S

I <sub>1</sub>	6606
I <sub>2</sub>	6750

C. D. at (5%) 77.7  
Significance S

CF	6574
SR	6782

C. D. at (5%) 77.7  
Significance S

Treatment details:

**Main plot: Row arrangement**

Eq. R Equal rows at 67cm  
Pai.R Paired row (84:50 cm)

**Sub plot: Intercropping**

I<sub>1</sub> Maize+Soybean  
I<sub>2</sub> Maize+Blackgram

**Sub-sub Plot: Residue levels**

CF Clean Field  
SR Residue retention as mulch @5t/ha



## A214

**Table 54: Effect of row arrangement, intercropping and residue level on productivity of maize under rainfed conditions at Udaipur.**

Row ratio	Intercrop	Residue level	Grain yield (kg/ha)	Intercrop yield (kg/ha)	No. of plants ('000/ha)	No of cobs ('000/ha)	Plant height (cm)
ER	I <sub>1</sub>	R <sub>1</sub>	3837	620	42.3	40.8	190.3
ER	I <sub>2</sub>		3817	1330	42.3	40.8	187.2
PR	I <sub>1</sub>		3787	807	43.0	41.3	190.3
PR	I <sub>2</sub>		3853	1317	43.1	41.3	187.3
ER	I <sub>1</sub>	R <sub>2</sub>	4247	710	42.3	40.8	194.9
ER	I <sub>2</sub>		4217	1397	43.3	40.8	190.6
PR	I <sub>1</sub>		4307	917	43.0	41.3	194.2
PR	I <sub>2</sub>		4223	1417	43.0	41.3	190.3

Mean of location	4035.8	1064.2	86.0	82.5	190.6
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ER	3823	1018	42.7	41.0	188.8
PR	4248	1110	42.9	41.0	192.5
C. D. at (5%)	291.0	60.9	3.0	3.5	4.5
Significance	S	S	N.S.	N.S.	N.S.

I <sub>1</sub>	4029	1014	42.5	40.8	190.7
I <sub>2</sub>	4043	1114	43.0	41.3	190.5
C. D. at (5%)	291.0	60.9	3.0	3.5	4.5
Significance	N.S.	S	N.S.	N.S.	N.S.

R <sub>1</sub>	4044	763	42.6	41.0	192.4
R <sub>2</sub>	4028	1365	42.9	41.0	188.9
C. D. at (5%)	291.0	60.9	3.0	3.5	4.5
Significance	N.S.	S	N.S.	N.S.	N.S.

**Treatment details:**

**A. Row arrangement**

ER Equal row at 67 cm

PR Paired row at (84:50 cm)

**B. Intercropping**

I<sub>1</sub> Soy bean

I<sub>2</sub> Cluster bean

**C. Residue level**

R<sub>1</sub> Clean field

R<sub>2</sub> Surface residue @ 5t/ha\*

## A215

**Table 55: Weed management strategies for diverse weed flora in maize based cropping system at Kangra.**

Treat ments	Grain yield (kg/ha)	Plant stand ('000/ha)	No. of Cobs ('000/ha)	Plant height (cm)	Cob length (cm)	100 grain weight	Weed count (m <sup>2</sup> )	Dry weight at harvest (g)	Weed count (m <sup>2</sup> )	Dry weight at 30 DAS (g)
T <sub>1</sub>	5827	71111	63704	206.7	23.8	40.5	43.3	41.7	27.3	28.2
T <sub>2</sub>	6599	73703	69259	200.7	24.3	36.3	31.7	28.6	23.0	30.9
T <sub>3</sub>	6016	71852	64815	162.0	22.2	36.1	23.7	35.1	27.0	35.0
T <sub>4</sub>	6244	74074	67778	165.7	22.9	31.9	44.7	52.2	28.3	29.7
T <sub>5</sub>	6091	70370	62963	185.7	23.5	33.0	35.7	50.2	36.3	34.9
T <sub>6</sub>	6544	71481	44444	201.3	25.6	42.3	26.0	18.5	32.3	21.1
T <sub>7</sub>	5996	72592	65185	160.3	22.5	31.6	24.7	36.4	26.0	25.0
T <sub>8</sub>	6514	66667	61111	203.7	24.5	40.8	28.7	35.1	40.3	31.6
T <sub>9</sub>	1352	47408	18148	174.3	23.1	24.2	26.7	30.2	56.0	49.0
T <sub>10</sub>	2740	65926	31481	171.3	21.7	29.1	41.7	57.5	53.7	40.4
T <sub>11</sub>	6095	75185	62963	195.0	22.9	34.2	7.0	4.7	8.7	2.9
T <sub>12</sub>	2575	51111	24444	151.0	20.7	21.9	53.0	71.2	83.7	81.6

Mean      5216.0    67623.3    53024.6    181.5    23.1    33.5    32.2    38.5    36.9    34.2

CD      500.5    4584.4    16913.3    13.3    1.9    3.6    8.3    11.5    23.6    15.8

CV (%)      5.7      4.0      18.8      4.3      4.9      6.4      15.2      17.7      37.8      27.4

Significance      S      S      S      S      S      S      S      S      S      S

**Treatments details:**

- T<sub>1</sub> Atrazine 1.0kg/ha(PE)
- T<sub>2</sub> Metribuzin 0.25kg/ha (PE)
- T<sub>3</sub> Oxyflourofen 0.15kg/ha (PE)
- T<sub>4</sub> Atrazine 1.0kg/ha(PE) fb atrazine 0.5kg at 25-30DAS
- T<sub>5</sub> Atrazine 1.0kg/ha (PE) fb hoeing at 25-30 DAS
- T<sub>6</sub> Metribuzin 0.25kg/ha (PE) fb hoeing at 25-30 DAS
- T<sub>7</sub> Oxyflourofen 0.15kg/ha (PE) fb hoeing at 25-30 DAS
- T<sub>8</sub> Atrazine 1.0kg/ha (PE) + Pendimethalin 0.5kg/ha
- T<sub>9</sub> Maize +cover crop(cowpea 2rows)
- T<sub>10</sub> Maize+ cover crop(mungbean 2rows)
- T<sub>11</sub> Weed free
- T<sub>12</sub> Weedy check

## A216

**Table 56: Weed management studies in maize at Srinagar.**

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	Days to 50% tasseling	Days to 50% silking	Leaf area index (LAI)
T <sub>1</sub>	4889	6022	56.2	68.3	72.7	5.1
T <sub>2</sub>	4689	5778	59.1	69.7	74.3	4.8
T <sub>3</sub>	4422	5467	58.0	70.3	74.3	5.0
T <sub>4</sub>	4356	5400	56.4	68.3	76.3	4.9
T <sub>5</sub>	4044	5022	52.9	65.7	70.7	4.6
T <sub>6</sub>	3978	4978	57.8	70.3	74.7	5.3
T <sub>7</sub>	4089	5044	78.4	70.3	74.7	5.3
T <sub>8</sub>	3022	3644	78.7	63.3	67.0	2.7

Mean            4186.1        5169.4        62.2        68.3        73.1        4.7

CD                730.0        877.6        15.5        3.4        6.3        0.8

CV (%)            10.0        9.7        14.2        2.8        4.9        10.0

Significance        S        S        S        S        N.S.        S

Treatments	Grassy Weeds/m <sup>2</sup> at (60 DAS)	Broad leaf Weeds/m <sup>2</sup> at (60 DAS)	Sedges/m <sup>2</sup> at (60 DAS)	Grassy Weeds/m <sup>2</sup> at harvest	Broad leaf Weeds/m <sup>2</sup> at harvest	Sedges/m <sup>2</sup> at harvest
T <sub>1</sub>	12.3	5.3	4.0	9.3	3.3	3.0
T <sub>2</sub>	14.3	7.0	4.7	10.3	5.0	4.0
T <sub>3</sub>	17.7	8.0	4.7	13.7	5.7	4.7
T <sub>4</sub>	11.7	11.3	6.3	15.3	8.7	5.7
T <sub>5</sub>	21.3	14.3	5.0	19.0	9.0	6.3
T <sub>6</sub>	35.3	16.3	5.7	23.7	11.7	4.7
T <sub>7</sub>	41.3	22.3	6.0	34.7	16.3	4.3
T <sub>8</sub>	89.3	93.7	7.0	74.0	68.0	4.3

Mean            30.4        22.3        5.4        25.0        16.0        4.6

CD                6.0        3.5        2.5        3.6        2.1        1.6

CV (%)            11.3        8.9        26.7        8.3        7.3        19.2

Significance        S        S        N.S.        S        S        S

Cont...

## A217

Treatments	DM of grassy weeds (m <sup>2</sup> ) (60 DAS)	DM of Broad leaf weeds (m <sup>2</sup> ) at 60 DAS	DM of Sedges (m <sup>2</sup> ) at 60 DAS	DM of grassy weeds (m <sup>2</sup> ) at harvest	DM of Broad leaf weeds (m <sup>2</sup> ) at harvest	DM of Sedges (m <sup>2</sup> ) at harvest
T <sub>1</sub>	5.0	2.7	1.1	3.0	0.9	1.0
T <sub>2</sub>	5.8	3.6	1.2	3.3	1.4	1.3
T <sub>3</sub>	7.3	4.0	1.2	4.4	1.6	1.5
T <sub>4</sub>	4.8	5.8	1.7	3.8	2.4	1.7
T <sub>5</sub>	8.3	7.3	1.3	6.1	2.5	2.0
T <sub>6</sub>	14.3	8.3	1.4	7.6	3.5	1.6
T <sub>7</sub>	16.7	11.4	1.6	11.1	4.6	1.5
T <sub>8</sub>	35.5	48.0	2.0	24.0	19.4	1.4

Mean	12.2	11.4	1.4	7.9	4.5	1.5
CD	2.5	1.8	0.7	1.6	0.7	0.6
CV (%)	11.8	9.1	27.9	11.8	8.2	21.3
Significance	S	S	N.S.	S	S	N.S.

### Treatment detail:

- T<sub>1</sub> Atrazine 1 kg ai/ha PE
- T<sub>2</sub> Atrazine 1 kg ai/ha at 15-20 DAS
- T<sub>3</sub> Pendametheline 1.0 kg ai/ha as PE
- T<sub>4</sub> Organic mulch @ 6 t/ha
- T<sub>5</sub> Maize + Cover crop (cowpea 2 rows)
- T<sub>6</sub> One hand weeding at 20 DAS
- T<sub>7</sub> Two hand weeding at 20 and 40 DAS
- T<sub>8</sub> Weedy check

## A218

**Table 57: Weed management strategies for diverse weed flora in Maize based cropping systems at Udhampur.**

Treatment	Grain Weight (kg/ha)	Cob weight (kg/ha)	Stover yield (kg/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs./ha)	B:C Ratio	No. of Narrow Leaved weeds (grasses/sedges) 50 DAS/m <sup>2</sup>
T <sub>0</sub>	2410	3303	7124	129.2	58.7	64.0	6184	1.2	100.3
T <sub>1</sub>	5484	7171	18327	224.0	54.0	58.7	46048	2.9	61.7
T <sub>2</sub>	5068	6701	15004	245.1	55.0	60.3	40165	2.6	56.0
T <sub>3</sub>	5322	7225	14987	234.5	57.0	62.3	43264	2.7	72.0
T <sub>4</sub>	3707	5326	10962	183.3	57.0	61.3	22480	2.0	85.7
T <sub>5</sub>	5152	6832	14329	245.2	53.7	58.7	40501	2.6	79.7
T <sub>6</sub>	5980	7759	14948	249.9	54.0	59.3	41232	2.2	45.3
T <sub>7</sub>	3268	4270	9587	167.1	58.0	63.3	17216	1.7	85.3

Mean      4548.9      6073.3      13158.6      209.8      55.9      61.0      32136.3      2.2      73.3

CD            446.2            626.1            2252.7            9.7            1.4            1.6            5400.0            0.2            8.6

CV (%)        5.6            5.9            9.8            2.6            1.5            1.5            9.6            4.7            6.7

Significance      S            S            S            S            S            S            S            S            S

### Treatment Details:

T<sub>0</sub> Weedy check

T<sub>1</sub> Atrazine @1.0

T<sub>2</sub> Atrazine @1.0

T<sub>3</sub> Pendimethalin @ 1.0 kg/ha as PE

T<sub>4</sub> Maize + Cowpea

T<sub>5</sub> One hand weeding 20 DAS

T<sub>6</sub> Two hand weedings 20 DAS & 40DAS

T<sub>7</sub> Organic mulch

## A219

**Table 58: Weed management strategies for diverse weed flora in maize based cropping system at Karnal.**

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
T <sub>1</sub>	6183	8355	191.0	95.7	68.3	70.3
T <sub>2</sub>	5989	8093	193.3	94.7	67.0	69.7
T <sub>3</sub>	5977	8077	191.0	93.3	67.3	69.3
T <sub>4</sub>	6363	8599	197.3	95.7	67.7	70.0
T <sub>5</sub>	5846	7900	197.0	94.7	66.0	68.0
T <sub>6</sub>	5337	7212	190.0	89.7	68.0	70.0
T <sub>7</sub>	6514	8802	198.0	94.0	68.3	70.3
T <sub>8</sub>	4112	5557	181.7	77.3	66.7	68.7
Mean	5790.0	7824.3	192.4	91.9	67.4	69.5
CD	125.0	168.9	6.8	5.7	1.7	1.5
CV (%)	1.2	1.2	2.0	3.5	1.4	1.2
Significance	S	S	S	S	N.S.	S

**Treatment details:**

- T<sub>1</sub> Atrazine 1 kg ai/ha PE
- T<sub>2</sub> Atrazine 1 kg ai/ha at 15-20 DAS
- T<sub>3</sub> Pendamethalin 1 kg ai/ha PE
- T<sub>4</sub> Organic mulch @ 6 t/ha
- T<sub>5</sub> Maize + cover crop (cowpea 2 rows)
- T<sub>6</sub> One hand weeding at 20 DAS
- T<sub>7</sub> Two hand weeding at 20 & 40 DAS
- T<sub>8</sub> Weedy check

## A220

**Table 59: Weed management strategies for diverse weed flora in maize based cropping systems during *kharif* 2012 at Pantnagar.**

Treatment	Grain yield (kg/ha)	Cob weight (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T <sub>1</sub>	3424	4305	63.8	62.1	164.3	48.3	53.0
T <sub>2</sub>	2399	3029	61.3	61.3	158.7	49.7	55.0
T <sub>3</sub>	2580	3255	63.4	57.6	161.0	48.7	53.7
T <sub>4</sub>	3226	4021	63.4	62.6	164.0	48.3	53.7
T <sub>5</sub>	1831	2362	28.4	23.5	161.0	50.0	55.0
T <sub>6</sub>	2687	3416	63.0	62.6	163.3	48.7	53.7
T <sub>7</sub>	3831	4708	63.0	62.1	165.3	47.3	52.7
T <sub>8</sub>	1243	1827	44.4	39.5	140.3	52.7	58.7

Mean            2652.8      3365.2      56.3      53.9      159.8      49.2      54.4

CD                386.2      473.8      5.6      6.0      22.6      2.1      2.1

CV (%)            8.3          8.0          5.6          6.4          8.1          2.4          2.2

Significance      S            S            S            S            N.S.      S            S

Treatment	Cost of cultivation Rs./ha	Gross return Rs./ha	Net return Rs./ha	B:C ratio (over gross return)
T <sub>1</sub>	18423	40230	21807	2.2
T <sub>2</sub>	18423	28190	9767	1.5
T <sub>3</sub>	18928	30317	11389	1.6
T <sub>4</sub>	18008	37909	19901	2.1
T <sub>5</sub>	19208	21517	2309	1.1
T <sub>6</sub>	19558	31575	12017	1.6
T <sub>7</sub>	21883	45017	23134	2.1
T <sub>8</sub>	17233	14602	-2630	0.8

Mean            18958.0      31170.1      12212.1      1.6

CD                0.6          4537.5      4537.5      0.2

CV (%)            0.0          8.3          21.2          8.2

Significance      S            S            S            S

Cont...

## A221

Treatment	No. of weeds/ m <sup>2</sup> at 50 DAS			Number of weeds/m <sup>2</sup> area at harvest			Weed dry matter/m <sup>2</sup> area at harvest		
	Grassy	BLW	Sedges	Grassy	BLW	Sedges	Grassy	BLW	Sedges
T <sub>1</sub>	189.3	29.3	17.3	221.3	33.3	21.3	258.5	12.8	4.8
T <sub>2</sub>	360.0	24.0	29.3	413.3	32.0	49.3	299.7	14.3	11.6
T <sub>3</sub>	77.3	104.0	18.7	117.3	125.3	30.7	271.3	19.5	3.1
T <sub>4</sub>	82.7	34.7	38.7	128.0	42.7	76.0	233.7	15.5	13.9
T <sub>5</sub>	52.0	16.0	297.3	65.3	22.7	346.7	167.2	11.6	42.3
T <sub>6</sub>	53.3	30.7	110.7	78.7	44.0	161.3	217.9	13.1	34.5
T <sub>7</sub>	17.3	6.7	13.3	42.7	29.3	78.7	118.9	5.3	15.1
T <sub>8</sub>	404.0	16.0	9.3	441.3	17.3	13.3	366.4	3.3	1.3

Mean	154.5	32.7	66.8	188.5	43.3	97.2	241.7	11.9	15.8
CD	59.6	37.6	37.4	54.7	35.4	36.4	77.6	7.3	8.0
CV (%)	22.0	65.6	31.9	16.6	46.6	21.4	18.3	35.0	28.9
Significance	S	S	S	S	S	S	S	S	S

### Treatment details:

T<sub>1</sub> Atrazine 1.0 kg a.i. /ha PE (National check)

T<sub>2</sub> Atrazine 1.0 kg a.i. /ha Post E 15-20 DAS

T<sub>3</sub> Pendimethalin 1.0 kg a.i. /ha PE

T<sub>4</sub> Organic mulch (wheat straw @ 6t/ha)

T<sub>5</sub> Maize + cover crop (cowpea 2 rows)

T<sub>6</sub> One hand weeding 20 DAS

T<sub>7</sub> Two hand weeding 20 and 40DAS

T<sub>8</sub> Weedy check



## A222

**Table 60: Weed management strategies for diverse weed flora in maize based cropping system at Ranchi.**

Treat ment	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasse ling	Days to 50% silking	Net Return (Rs/ha)	B:C ratio
T <sub>1</sub>	5574	6644	66.9	62.5	214.1	53.3	56.7	36920	1.7
T <sub>2</sub>	4832	5831	65.7	60.7	195.1	54.7	58.7	29236	1.4
T <sub>3</sub>	5236	6291	65.9	62.0	213.6	53.7	57.3	33756	1.6
T <sub>4</sub>	3406	4237	65.4	60.0	178.9	54.7	59.3	14804	0.7
T <sub>5</sub>	5235	6359	64.9	61.0	200.3	54.3	58.3	33276	1.5
T <sub>6</sub>	5428	6519	66.7	61.2	207.7	54.0	57.7	33237	1.4
T <sub>7</sub>	6043	7184	64.9	63.0	218.4	53.0	56.3	35407	1.3
T <sub>8</sub>	2672	3467	62.2	51.4	163.2	55.3	60.3	8788	0.4
Mean	4803.4	5816.5	65.3	60.2	198.9	54.1	58.1	28178.6	1.2
CD	790.4	940.0	4.6	5.3	29.2	1.3	1.0	7891.3	0.4
CV (%)	9.4	9.2	4.0	5.1	8.4	1.3	1.0	16.0	16.4
Significance	S	S	N.S.	S	S	S	S	S	S

Treatment	No. of grassy weeds/m <sup>2</sup> at 50 DAS	No. of grassy weeds/m <sup>2</sup> at harvest	Grassey weeds dry matter/m <sup>2</sup> at 50 DAS	Grassey weeds dry matter/m <sup>2</sup> at harvest	No. of broadleaf weeds/m <sup>2</sup> at 50 DAS	No. of broadleaf weeds/m <sup>2</sup> at harvest
T <sub>1</sub>	18.7	21.3	4.3	9.0	18.7	26.7
T <sub>2</sub>	34.7	44.0	8.0	19.2	41.3	36.0
T <sub>3</sub>	21.3	28.0	5.1	13.0	24.0	28.0
T <sub>4</sub>	56.0	73.3	13.6	33.9	54.7	44.0
T <sub>5</sub>	28.0	30.7	7.1	13.5	28.0	26.7
T <sub>6</sub>	25.3	36.0	6.2	15.7	25.3	32.0
T <sub>7</sub>	13.3	14.7	3.3	6.4	14.7	22.7
T <sub>8</sub>	88.0	116.0	20.8	50.1	78.7	61.3
Mean	35.7	45.5	8.6	20.1	35.7	34.7
CD	8.0	13.7	2.9	10.4	11.7	8.4
CV (%)	12.8	17.2	19.3	29.6	18.7	13.9
Significance	S	S	S	S	S	S

Cont....

## A223

Treatment	Broad leaf weeds dry matter/m <sup>2</sup> at 50 DAS	Broad leaf weeds dry matter/m <sup>2</sup> at harvest	No. of sedges weeds/m <sup>2</sup> at 50 DAS	No. of sedges weeds/m <sup>2</sup> at harvest	Sedges weeds dry matter/m <sup>2</sup> at 50 DAS	Sedges weeds dry matter/m <sup>2</sup> at harvest
T <sub>1</sub>	13.8	35.2	17.3	13.3	6.3	11.2
T <sub>2</sub>	29.0	50.3	29.3	17.3	11.3	14.5
T <sub>3</sub>	17.8	37.4	18.7	14.7	7.0	12.1
T <sub>4</sub>	39.2	59.9	36.0	22.7	14.6	20.0
T <sub>5</sub>	20.9	36.4	21.3	10.7	7.9	8.7
T <sub>6</sub>	17.9	43.9	20.0	16.0	7.9	12.5
T <sub>7</sub>	11.0	31.7	14.7	9.3	6.1	8.0
T <sub>8</sub>	54.7	83.8	46.7	32.0	18.6	27.2
Mean	25.5	47.3	25.5	17.0	10.0	14.3
CD	12.1	20.1	8.6	5.4	5.6	5.4
CV (%)	27.0	24.2	19.3	18.1	32.0	21.8
Significance	S	S	S	S	S	S

### Treatment details:

T<sub>1</sub> Atrazine 1.0 kg a.i./ha PE (as a national check)

T<sub>2</sub> Atrazine 1.0 kg a.i./ha at 15-20 DAS

T<sub>3</sub> Pendimethalin 1.0 kg a.i./ha as PE

T<sub>4</sub> Organic mulch @ 6t/ha

T<sub>5</sub> Maize + Cover crop (cowpea 2 rows)

T<sub>6</sub> One hand weeding at 20 DAS

T<sub>7</sub> Two hand weeding at 20 & 40 DAS

T<sub>8</sub> Weedy check

## A224

**Table 61: Weed management strategies for diverse weed flora in maize based cropping systems at Arabhavi.**

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Fodder yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Shelling (%)	Moisture (%)
T <sub>1</sub>	9253	11694	8833	68.1	66.4	160.0	72.7	79.2	22.9
T <sub>2</sub>	7649	10611	8500	67.5	66.9	161.0	70.7	72.1	21.2
T <sub>3</sub>	8155	10500	9306	68.9	66.7	160.0	75.3	77.6	22.2
T <sub>4</sub>	7801	9861	8833	69.7	70.8	167.7	71.0	79.1	22.6
T <sub>5</sub>	7996	10167	9389	69.4	69.2	160.0	72.3	78.9	21.7
T <sub>6</sub>	8125	10167	10000	70.6	71.9	151.7	68.0	79.8	23.3
T <sub>7</sub>	8568	11194	9722	71.1	69.7	156.0	65.0	76.6	22.1
T <sub>8</sub>	6541	8750	8444	71.9	72.2	149.0	72.0	74.7	22.2
T <sub>9</sub>	8333	10972	9167	63.1	62.8	157.7	64.3	75.7	22.8
T <sub>10</sub>	8731	11250	8722	66.4	66.7	159.7	73.3	77.6	22.0
T <sub>11</sub>	8510	10750	7500	60.3	59.7	156.7	62.7	78.9	21.9
T <sub>12</sub>	8834	11667	9444	67.8	68.3	159.7	71.0	75.6	23.1

Mean	8208.0	10631.9	8988.4	67.9	67.6	158.3	69.9	77.1	22.3
CD	1727.7	1898.3	1462.9	5.7	8.9	13.7	9.3	5.8	1.3
CV (%)	12.4	10.5	9.6	4.9	7.7	5.1	7.9	4.4	3.4
Significance	N.S.	N.S.	N.S.	S	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment	No. of leaves/plant	Cob length (cm)	Cob girth (cm)	No. grains/row	No. of grain rows/cob	Gross returns (Rs/ha)	Net returns (Rs/ha)	B:C ratio
T <sub>1</sub>	12.1	14.9	4.5	33.2	14.8	78814	49914	2.7
T <sub>2</sub>	11.9	15.5	4.8	33.2	13.9	70607	41707	2.4
T <sub>3</sub>	11.8	15.2	4.7	33.4	14.1	71617	44217	2.6
T <sub>4</sub>	11.9	13.9	4.6	31.4	14.0	67355	37455	2.3
T <sub>5</sub>	12.3	14.7	4.5	33.6	13.2	71850	43450	2.5
T <sub>6</sub>	11.8	13.8	4.5	31.6	14.1	67980	38080	2.3
T <sub>7</sub>	12.0	14.4	4.6	32.4	13.6	75738	43338	2.3
T <sub>8</sub>	12.3	11.1	4.3	26.3	12.9	57347	29947	2.1
T <sub>9</sub>	11.6	13.0	4.6	28.7	13.7	71160	41510	2.4
T <sub>10</sub>	12.4	13.5	4.6	32.1	14.9	77301	47651	2.6
T <sub>11</sub>	12.6	16.2	4.9	34.9	14.4	75875	45850	2.5
T <sub>12</sub>	12.1	15.2	4.8	34.9	14.4	74615	44590	2.5

Mean	12.1	14.3	4.6	32.1	14.0	71688.2	42309.0	2.4
CD	1.1	2.7	0.4	6.0	1.2	14939.5	14939.5	0.5
CV (%)	5.3	11.0	5.0	11.1	4.9	12.3	20.9	12.2
Significance	N.S.	N.S.	N.S.	N.S.	S	N.S.	N.S.	N.S.

Cont...

## A225

Treatment	Broad leaved/m <sup>2</sup>	Grassy weeds/m <sup>2</sup>	Sedges/m <sup>2</sup>	Total weeds/m <sup>2</sup>	weed dry matter at 30 DAS/m <sup>2</sup>	weed dry matter at harvest/m <sup>2</sup>
T <sub>1</sub>	17.7	30.0	3.7	51.3	29.7	46.1
T <sub>2</sub>	65.3	26.7	1.3	93.3	77.3	41.6
T <sub>3</sub>	53.0	10.7	6.0	69.7	42.7	60.4
T <sub>4</sub>	151.0	40.3	5.0	197.0	47.7	51.1
T <sub>5</sub>	5.3	6.0	0.0	11.3	29.7	45.3
T <sub>6</sub>	11.7	8.7	0.7	21.0	25.3	66.7
T <sub>7</sub>	13.3	11.3	1.7	26.3	25.7	57.8
T <sub>8</sub>	231.7	53.3	15.0	300.0	89.0	57.9
T <sub>9</sub>	17.3	44.7	12.3	74.3	37.3	40.8
T <sub>10</sub>	28.7	1.3	3.3	33.3	31.0	48.7
T <sub>11</sub>	2.7	12.7	16.3	18.3	31.3	42.7
T <sub>12</sub>	1.0	1.3	7.3	9.7	27.0	45.7
Mean	49.9	20.6	6.1	75.5	41.1	50.4
CD	59.2	24.4	14.0	79.3	18.6	22.8
CV (%)	70.1	69.9	136.4	62.0	26.7	26.7
Significance	S	S	N.S.	S	S	N.S.

### Treatment details:

- T<sub>1</sub> Atrazine 1.0 kg a.i./ha PE (as a national check)
- T<sub>2</sub> Atrazine 1.0 kg a.i./ha at 15-20 DAS
- T<sub>3</sub> Pendamethalin 1.0 kg a.i./ha as PE
- T<sub>4</sub> Maize+ cover crop (Cowpea 2 rows)
- T<sub>5</sub> Organic mulch @ 6 t/ha
- T<sub>6</sub> One hand weeding at 20 DAS
- T<sub>7</sub> Two hand weeding at 20 & 40 DAS
- T<sub>8</sub> Weedy check
- T<sub>9</sub> Atrazine 1.0 kg a.i./ha PE + 1 Hoeing at 20-25 DAS
- T<sub>10</sub> Pendamethalin 1.0 kg a.i./ha as PE + 1 Hoeing at 20-25 DAS
- T<sub>11</sub> Metribuzin 0.25 kg ai/ha + 1 Hoeing at 20-25 DAS
- T<sub>12</sub> Oxyflurafen 0.15 kg ai/ha +1 Hoeing at 20-25 DAS

## A226

**Table 62: Weed management strategies for diverse weed flora in maize based cropping systems at Jhabua.**

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Shelling (%)
T <sub>1</sub>	4169	5056	66.1	67.2	180.0	52.3	55.3	82.5
T <sub>2</sub>	3111	3836	65.6	66.4	165.7	52.0	55.3	81.1
T <sub>3</sub>	3495	4235	66.1	67.2	174.1	52.0	55.7	82.5
T <sub>4</sub>	3190	3947	66.1	66.7	168.1	52.3	55.3	80.8
T <sub>5</sub>	3069	3757	65.9	66.4	164.0	51.3	55.0	81.7
T <sub>6</sub>	3651	4455	66.1	67.5	177.0	52.3	56.0	81.9
T <sub>7</sub>	4331	5241	65.6	67.2	182.4	52.3	56.0	82.6
T <sub>8</sub>	2601	3180	65.6	65.9	158.5	51.3	55.3	81.8

Mean	3452.1	4213.3	65.9	66.8	171.2	52.0	55.5	81.9
CD	354.1	425.9	2.4	1.8	7.9	1.3	1.6	2.6
CV (%)	5.9	5.8	2.1	1.5	2.6	1.4	1.6	1.8
Significance	S	S	N.S.	N.S.	S	N.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
T <sub>1</sub>	12.9	11.9	24.8	3.7	3.1	6.8
T <sub>2</sub>	31.8	37.2	69.0	5.8	6.7	12.4
T <sub>3</sub>	21.4	28.4	49.9	4.4	7.2	11.6
T <sub>4</sub>	28.4	36.2	64.7	5.2	9.1	14.3
T <sub>5</sub>	32.8	62.7	95.5	6.0	10.4	16.4
T <sub>6</sub>	20.6	26.2	46.8	4.0	6.6	10.7
T <sub>7</sub>	5.6	9.4	15.0	3.1	3.4	6.5
T <sub>8</sub>	66.1	93.8	159.9	7.9	12.6	20.5

Mean	27.4	38.2	65.7	5.0	7.4	12.4
CD	7.2	8.1	12.3	1.1	1.9	2.4
CV (%)	15.0	12.1	10.7	12.3	14.6	10.9
Significance	S	S	S	S	S	S

**Treatment details:**

T<sub>1</sub> Atrazine 1.0 kg a.i./ha PE (as a national check)

T<sub>2</sub> Atrazine 1.0 kg a.i./ha at 15-20 DAS

T<sub>3</sub> Pendimethalin 1.0 kg a.i./ha as PE

T<sub>4</sub> Organic mulch @ 6t/ha

T<sub>5</sub> Maize + Cover crop (Cow pea)

T<sub>6</sub> One hand weeding at 20 DAS

T<sub>7</sub> Two hand weeding at 20 & 40 DAS

T<sub>8</sub> Weedy Check

## A227

**Table 63: Weed management strategies for diverse weed flora in maize based cropping system at Udaipur.**

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Grassy weeds at 50 DAS(m <sup>2</sup> )	Broad leaves weed at 50 DAS (m <sup>2</sup> )
T <sub>1</sub>	4033	6243	56.7	56.0	48.0	54.0	17.0	6.7
T <sub>2</sub>	3040	4423	53.3	52.0	48.3	54.3	45.0	15.0
T <sub>3</sub>	3240	4850	54.7	52.0	48.0	53.3	30.3	12.3
T <sub>4</sub>	2437	3253	46.7	50.0	48.3	54.0	80.3	45.0
T <sub>5</sub>	2243	2927	45.3	46.7	48.3	54.0	90.0	64.0
T <sub>6</sub>	3030	4353	53.3	52.0	48.7	54.0	47.0	45.3
T <sub>7</sub>	4243	6480	58.0	56.7	48.3	54.3	15.3	10.0
T <sub>8</sub>	1443	2157	33.3	26.7	49.3	54.7	120.0	76.3

Mean	2963.8	4335.8	50.2	49.0	48.4	54.1	55.6	34.3
CD	641.0	672.0	4.4	4.4	4.5	3.6	9.5	8.7
CV (%)	12.3	8.8	5.0	5.2	5.4	3.8	9.8	14.4
Significance	S	S	S	S	N.S.	N.S.	S	S

Treatment	Sedges at 50 DAS(m <sup>2</sup> )	Grassy weeds at harvest (m <sup>2</sup> )	Broad leaves weed harvest (m <sup>2</sup> )	Sedges harvest (m <sup>2</sup> )	Grassy weed dry matter (g/m <sup>2</sup> ) at 50 DAS	Broad leaf weed dry matter (g/m <sup>2</sup> ) at 50 DAS	Sedges dry matter (g/m <sup>2</sup> ) at 50 DAS
T <sub>1</sub>	5.0	17.0	5.3	8.0	6.8	1.3	0.1
T <sub>2</sub>	5.0	35.3	14.0	8.3	17.5	3.0	0.1
T <sub>3</sub>	4.3	25.3	15.0	7.7	11.4	2.7	0.1
T <sub>4</sub>	5.0	69.0	40.0	8.3	32.2	9.5	0.1
T <sub>5</sub>	6.0	81.0	62.7	8.0	38.3	12.6	0.1
T <sub>6</sub>	3.0	40.0	42.0	7.3	18.2	9.3	0.1
T <sub>7</sub>	2.3	14.3	12.0	5.7	7.5	2.1	0.1
T <sub>8</sub>	5.0	104.0	70.3	2.3	42.3	16.3	0.1

Mean	4.5	48.3	32.7	7.0	21.8	7.1	0.1
CD	2.0	10.5	7.5	1.4	3.0	1.4	0.0
CV (%)	25.3	12.4	13.2	11.3	7.8	11.4	19.7
Significance	S	S	S	S	S	S	S

**Treatment details:**

- T<sub>1</sub> Atrazine 0.5 kg/ha PE
- T<sub>2</sub> Atrazine 0.5 kg/ha 15-20 DAS
- T<sub>3</sub> Pendimethalin 1.0 kg/ha PE
- T<sub>4</sub> Organic mulch 6t/ha (applied at PE stage)
- T<sub>5</sub> Maize + cow pea (2 row as cover crop)
- T<sub>6</sub> One hand weeding at 20 DAS
- T<sub>7</sub> Two hand weeding at 20 and 40 DAS
- T<sub>8</sub> Weedy check

## A228

**Table 64: Effect of tillage and nutrient management on maize productivity in maize-wheat-green gram cropping systems at Pantnagar.**

Tillage practices	Fertility level	Grain yield (kg/ha)	Cob weight (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T <sub>1</sub>	N <sub>1</sub>	1630	2085	57.1	56.6	133.3	52.0	55.3
	N <sub>2</sub>	2407	3032	56.6	54.0	136.3	52.7	56.7
	N <sub>3</sub>	2624	3307	58.7	57.7	139.0	52.3	56.0
T <sub>2</sub>	N <sub>1</sub>	2608	3275	61.4	57.7	163.3	47.3	51.7
	N <sub>2</sub>	3286	4095	63.0	63.0	174.3	47.0	52.0
	N <sub>3</sub>	3254	4169	62.4	61.4	175.3	48.0	52.3
T <sub>3</sub>	N <sub>1</sub>	2598	3243	61.9	61.9	159.7	49.3	54.3
	N <sub>2</sub>	3376	4291	61.4	60.8	168.0	49.3	54.3
	N <sub>3</sub>	3423	4354	60.8	60.3	171.0	49.0	53.7

Location mean	2800.7	3539.1	60.4	59.3	157.8	49.7	54.0
C.D.(5%) AiBj-AiBk	636.9	796.9	6.0	7.2	6.3	1.1	1.2
C.D.(5%) AiBk-AjBk	726.6	908.1	5.2	6.1	24.0	2.9	3.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

T <sub>1</sub>	2220	2808	57.5	56.1	136.2	52.3	56.0
T <sub>2</sub>	3049	3847	62.3	60.7	171.0	47.4	52.0
T <sub>3</sub>	3132	3963	61.4	61.0	166.2	49.2	54.1

C.D.(5%) Ai-Aj	514.9	642.9	1.6	1.6	23.5	2.8	3.6
C.V.(%) Error A	14.0	13.9	2.0	2.1	11.4	4.3	5.1
F(5%)	s	s	s	s	s	s	n.s.

N <sub>1</sub>	2279	2868	60.1	58.7	152.1	49.6	53.8
N <sub>2</sub>	3023	3806	60.3	59.3	159.6	49.7	54.3
N <sub>3</sub>	3101	3944	60.7	59.8	161.8	49.8	54.0

C.D.(5%)Bi-Bj	367.7	460.1	3.5	4.2	3.7	0.6	0.7
C.V.(%)ErrorB	12.8	12.7	5.6	6.9	2.3	1.2	1.2
F(5%)	s	s	n.s.	n.s.	s	n.s.	n.s.

**Treatment details:**

**Tillage practices (main plot): 03**

T<sub>1</sub> Zero tillage (ZT)

T<sub>2</sub> Conventional tillage (CT)

T<sub>3</sub> Permanent Beds (PB)

**Fertility levels (sub plot): 03**

N<sub>1</sub> 50% RDF

N<sub>2</sub> SSNM based on nutrient expert (120:30:37 Kg NPK/ha)

N<sub>3</sub> 100% RDF (120:60:40 Kg NPK/ha)

Cont....

## A229

Tillage practices	Fertility level	Cost of cultivation Rs./ha	Gross return Rs./ha	Net return Rs./ha	B:C ratio (over gross return)
T <sub>1</sub>	N <sub>1</sub>	10113	19148	9035	1.9
	N <sub>2</sub>	11314	28287	16973	2.5
	N <sub>3</sub>	13009	30836	17827	2.4
T <sub>2</sub>	N <sub>1</sub>	17672	30649	12977	1.7
	N <sub>2</sub>	18873	38607	19734	2.0
	N <sub>3</sub>	20568	38234	17666	1.9
T <sub>3</sub>	N <sub>1</sub>	17672	30525	12853	1.7
	N <sub>2</sub>	18873	39664	20791	2.1
	N <sub>3</sub>	20568	40224	19656	2.0

Location mean	16518.0	32908.3	16390.3	2.0
C.D.(5%) AiBj-AiBk	0.6	7484.0	7484.0	0.5
C.D.(5%) AiBk-AjBk	0.6	8537.4	8537.4	0.5
F(5%)	n.s.	n.s.	n.s.	n.s.

T <sub>1</sub>	11479	26090	14612	2.3
T <sub>2</sub>	19038	35830	16793	1.9
T <sub>3</sub>	19038	36804	17767	1.9

C.D.(5%) Ai-Aj	0.4	6050.0	6050.0	0.4
C.V.(%) Error A	0.0	14.0	28.2	13.6
F(5%)	s	s	n.s.	n.s.

N <sub>1</sub>	15152	26774	11622	1.8
N <sub>2</sub>	16353	35519	19166	2.2
N <sub>3</sub>	18048	36431	18383	2.1

C.D.(5%)Bi-Bj	0.3	4320.9	4320.9	0.3
C.V.(%)ErrorB	0.0	12.8	25.7	13.7
F(5%)	s	s	s	s



## A230

**Table 65: Nutrient management in maize-wheat-green gram cropping systems under different tillage practices at Karnal.**

Tillage practices	Fertility level	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
ZT	F <sub>1</sub>	4190	5400	201.7	106.7	49.3	52.3
	F <sub>2</sub>	6636	8013	206.0	107.7	49.3	52.7
	F <sub>3</sub>	7116	8433	214.0	105.0	48.0	50.3
CT	F <sub>1</sub>	3430	4467	193.3	106.7	51.7	54.3
	F <sub>2</sub>	5620	7093	198.3	105.0	51.3	54.0
	F <sub>3</sub>	6201	7507	205.0	106.7	53.0	55.7
PB	F <sub>1</sub>	3832	4953	201.7	100.0	48.7	52.0
	F <sub>2</sub>	6201	7640	205.0	96.7	50.0	53.0
	F <sub>3</sub>	6633	7960	206.7	96.7	49.3	52.0

Location mean	5539.8	6829.6	203.5	103.4	50.1	52.9
C.D.(5%) AiBj-AiBk	203.4	248.2	10.2	9.8	1.6	1.8
C.D.(5%) AiBk-AjBk	496.9	609.1	9.5	9.2	2.5	2.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

ZT	5980	7282.2	207.2	106.4	48.9	51.8
CT	5084	6355.6	198.9	106.1	52.0	54.7
PB	5555	6851.1	204.4	97.8	49.3	52.3

C.D.(5%) Ai-Aj	470.2	576.6	4.5	4.6	2.1	2.1
C.V.(%) Error A	6.5	6.5	1.7	3.4	3.2	3.0
F(5%)	s	s	s	s	s	s

F <sub>1</sub>	3817	4940.0	198.9	104.4	49.9	52.9
F <sub>2</sub>	6152	7582.2	203.1	103.1	50.2	53.2
F <sub>3</sub>	6650	7966.7	208.6	102.8	50.1	52.7

C.D.(5%)Bi-Bj	117.4	143.3	5.9	5.7	0.9	1.0
C.V.(%)ErrorB	2.1	2.0	2.8	5.3	1.8	1.9
F(5%)	s	s	s	n.s.	n.s.	n.s.

### Treatment details:

#### Main plot: Method of planting

ZT Zero tillage

CT Conventional tillage

PB Permanent bed

#### Sub plot: Nutrient level

F<sub>1</sub> 50% RDF (75:30:30 NP2O5K2O/ha)

F<sub>2</sub> SSNM based on nutrient expert

F<sub>3</sub> 100% RDF (150:60:60 NP2O5K2O/ha)

## A231

**Table 66: Nutrient Management in Maize-wheat-greengram cropping system under different tillage practices at Dholi.**

Tillage practices	Fertility level	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days of 50% tasseling	Days of 50% silking	Days of 75 % Dry husk
T <sub>1</sub>	F <sub>1</sub>	3713	5167	64.2	64.7	123.5	52.7	54.7	84.0
	F <sub>2</sub>	6851	9361	64.4	66.7	121.7	53.0	56.0	84.7
	F <sub>3</sub>	5228	7694	63.6	64.7	155.7	53.0	55.7	84.3
T <sub>2</sub>	F <sub>1</sub>	4976	7111	63.9	65.0	120.3	55.7	57.7	85.3
	F <sub>2</sub>	6356	9306	61.9	63.9	128.9	56.3	58.7	85.7
	F <sub>3</sub>	5068	7556	64.2	65.3	136.0	55.7	57.7	85.3
T <sub>3</sub>	F <sub>1</sub>	4536	6361	65.0	66.4	134.5	54.0	56.3	84.7
	F <sub>2</sub>	6684	9611	63.3	64.7	145.1	54.0	56.7	84.3
	F <sub>3</sub>	5340	7972	65.8	66.7	159.2	54.3	57.0	84.3
Location mean		5416.8	7793.2	64.0	65.3	136.1	54.3	56.7	84.7
C.D.(5%) AiBj-AiBk		271.9	322.2	3.8	3.4	12.2	2.4	2.3	1.2
C.D.(5%) AiBk-AjBk		385.1	461.9	3.3	3.1	18.6	2.3	2.2	1.1
F(5%)		s	s	n.s.	n.s.	s	n.s.	n.s.	n.s.
T <sub>1</sub>		5264	7407	64.1	65.4	133.7	52.9	55.4	84.3
T <sub>2</sub>		5466	7991	63.3	64.7	128.4	55.9	58.0	85.4
T <sub>3</sub>		5520	7981	64.7	65.9	146.2	54.1	56.7	84.4
C.D.(5%) Ai-Aj		318.0	383.6	1.1	1.4	15.9	1.3	1.2	0.4
C.V.(%) Error A		4.5	3.8	1.4	1.7	8.9	1.8	1.6	0.4
F(5%)		n.s.	s	n.s.	n.s.	n.s.	s	s	s
F <sub>1</sub>		4408	6213	64.4	65.4	126.1	54.1	56.2	84.7
F <sub>2</sub>		6630	9426	63.2	65.1	131.9	54.4	57.1	84.9
F <sub>3</sub>		5212	7741	64.5	65.6	150.3	54.3	56.8	84.7
C.D.(5%)Bi-Bj		157.0	186.0	2.2	1.9	7.0	1.4	1.3	0.7
C.V.(%)ErrorB		2.8	2.3	3.3	2.9	5.0	2.5	2.3	0.8
F(5%)		s	s	n.s.	n.s.	s	n.s.	n.s.	n.s.

**Treatment details:**

**Main Plot: Tillage practices**

T<sub>1</sub> Conventional

T<sub>2</sub> Bed planting

T<sub>3</sub> Zero tillage

**Sub plot: Fertility level**

F<sub>1</sub> 50 % RDF = N:P:K(50:30:20)

F<sub>2</sub> SSNM based on nutrient expert = N:P:K(150:50:40)

F<sub>3</sub> 100 % RDF = N:P:K(100:60:40)

## A232

**Table 67: Nutrient management in maize-wheat-greengram cropping system under different tillage practices at Banswara.**

Tillage practices	Fertility level	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
T <sub>1</sub>	F <sub>1</sub>	1986	2354	61.8	41.2	220.3
	F <sub>2</sub>	5681	6514	65.6	67.2	248.3
	F <sub>3</sub>	4444	5167	64.9	53.5	230.0
T <sub>2</sub>	F <sub>1</sub>	1826	2174	63.1	37.8	217.7
	F <sub>2</sub>	5653	6458	66.1	65.9	246.0
	F <sub>3</sub>	4479	5104	65.6	52.6	233.7
T <sub>3</sub>	F <sub>1</sub>	2417	2785	64.2	50.5	226.7
	F <sub>2</sub>	6153	6938	66.3	71.0	258.3
	F <sub>3</sub>	5111	5792	66.0	66.3	240.0

Location mean	4194.4	4809.4	64.8	56.2	235.7
C.D.(5%) AiBj-AiBk	319.8	329.4	3.0	1.5	6.7
C.D.(5%) AiBk-AjBk	430.8	501.1	2.5	1.3	6.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.

T <sub>1</sub>	4037	4678	64.1	53.9	232.9
T <sub>2</sub>	3986	4579	64.9	52.1	232.4
T <sub>3</sub>	4560	5171	65.5	62.6	241.7

C.D.(5%) Ai-Aj	346.5	426.7	0.8	0.6	2.8
C.V.(%) Error A	6.3	6.8	0.9	0.8	0.9
F(5%)	s	s	s	s	s

F <sub>1</sub>	2076	2438	63.0	43.2	221.6
F <sub>2</sub>	5829	6637	66.0	68.0	250.9
F <sub>3</sub>	4678	5354	65.5	57.5	234.6

C.D.(5%)Bi-Bj	184.7	190.2	1.7	0.9	3.9
C.V.(%)ErrorB	4.3	3.9	2.6	1.5	1.6
F(5%)	s	s	s	s	s

Treatment details:

**Main plot: tillage**

T<sub>1</sub> Zero tillage

T<sub>2</sub> Conventional tillage

T<sub>3</sub> Permanent bed

**Sub plot: Fertility level**

F<sub>1</sub> 50% of RDF

F<sub>2</sub> SSNM based on nutrient expert

F<sub>3</sub> 100% RDF

## A233

**Table 68: Nutrient management in maize-chickpea cropping system under different tillage practices at Banswara.**

Tillage practices	Fertility level	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
T <sub>1</sub>	F <sub>1</sub>	1958	2576	62.8	58.5	210.7
	F <sub>2</sub>	3965	4569	65.6	65.3	235.0
	F <sub>3</sub>	3181	3667	66.1	60.5	226.7
T <sub>2</sub>	F <sub>1</sub>	1958	2583	62.5	57.7	208.0
	F <sub>2</sub>	3924	4535	66.5	64.0	237.3
	F <sub>3</sub>	2917	3396	65.3	61.5	225.0
T <sub>3</sub>	F <sub>1</sub>	2250	2972	64.1	59.4	220.7
	F <sub>2</sub>	4632	5354	66.3	67.7	247.7
	F <sub>3</sub>	3861	4486	65.7	62.7	232.3

Location mean	3182.9	3793.2	65.0	61.9	227.0
C.D.(5%) AiBj-AiBk	226.2	206.7	2.2	1.6	5.0
C.D.(5%) AiBk-AjBk	204.7	190.6	1.9	1.4	4.7
F(5%)	s	s	n.s.	n.s.	n.s.

T <sub>1</sub>	3034.7	3604.2	64.8	61.4	224.1
T <sub>2</sub>	2932.9	3504.6	64.8	61.1	223.4
T <sub>3</sub>	3581.0	4270.8	65.4	63.3	233.6

C.D.(5%) Ai-Aj	90.2	90.3	0.6	0.4	2.4
C.V.(%) Error A	2.2	1.8	0.7	0.5	0.8
F(5%)	s	s	n.s.	s	s

F <sub>1</sub>	2055.6	2710.6	63.1	58.5	213.1
F <sub>2</sub>	4173.6	4819.4	66.1	65.7	240.0
F <sub>3</sub>	3319.4	3849.5	65.7	61.6	228.0

C.D.(5%)Bi-Bj	130.6	119.3	1.3	1.0	2.9
C.V.(%)ErrorB	4.0	3.1	1.9	1.5	1.2
F(5%)	s	s	s	s	s

Treatment details:

**Main plot: tillage**

T<sub>1</sub> Zero tillage

T<sub>2</sub> Conventional tillage

T<sub>3</sub> Permanent bed

**Sub plot: Fertility level**

F<sub>1</sub> 50% of RDF

F<sub>2</sub> SSNM based on nutrient expert

F<sub>3</sub> 100% RDF

## A234

**Table 69: Nutrient management in maize-wheat-green gram cropping sequence under different tillage system at Udaipur.**

Tillage practices	Fertility level	Grain yield (kg/ha)	Stover yield (kg/ha)
Zero tillage	50% RDF	3035	4446
Bed planting		2973	4367
Conventional tillage		2938	4332
Zero tillage	SSNM	4343	6680
Bed planting		4348	6699
Conventional tillage		4424	6851
Zero tillage	100% RDF	3525	5325
Bed planting		3558	5301
Conventional tillage		3522	5281

Location mean	3629.3	5475.8
C.D.(5%) AiBj-AiBk	477.9	737.4
C.D.(5%) AiBk-AjBk	551.1	836.8
F(5%)	n.s.	n.s.

Zero tillage	2982	4382
Bed planting	4371	6743
Conventional tillage	3535	5302

C.D.(5%) Ai-Aj	391.4	584.5
C.V.(%) Error A	10.8	10.7
F(5%)	s	s

50% RDF	3634	5484
SSNM	3626	5456
100% RDF	3628	5488

C.D.(5%)Bi-Bj	275.9	425.8
C.V.(%)ErrorB	8.9	9.1
F(5%)	n.s.	n.s.

## A235

**Table 70: Effect of tillage management and straw mulch on yield of normal maize at Srinagar.**

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T <sub>1</sub>	4933	5917	79.2	87.3	207.0	65.7	70.7
T <sub>2</sub>	4617	5467	77.5	83.0	197.3	64.3	69.0
T <sub>3</sub>	5017	5983	78.8	86.0	201.0	69.7	73.0
T <sub>4</sub>	4750	5683	78.8	82.7	196.0	66.7	70.7
T <sub>5</sub>	4083	4867	77.2	74.3	186.0	62.3	65.7
T <sub>6</sub>	3600	4317	78.8	68.8	177.0	59.7	63.0
Mean	4500.0	5372.2	78.4	80.4	194.1	64.7	68.7
CD	581.2	630.1	3.2	2.9	9.4	3.4	2.6
CV (%)	7.1	6.4	2.3	2.0	2.7	2.9	2.1
Significance	S	S	N.S.	S	S	S	S

**Treatment details:**

- T<sub>1</sub> Reduced tillage (With mulch)
- T<sub>2</sub> Reduced tillage (Without mulch)
- T<sub>3</sub> Conventional tillage (With mulch)
- T<sub>4</sub> Conventional tillage (Without mulch)
- T<sub>5</sub> Zero tillage (With mulch)
- T<sub>6</sub> Zero tillage ( Without mulch)

**Table 71: Nutrient Management in Rice-Maize cropping system under different tillage practices at Dholi.**

Tillage practices	Yield (kg/ha)	No. of tillers /hill	No. of fertile tillers/ hill	Plant height (cm)	Days to 50% flowering	Days to Maturity	Panicle length (cm)	No. of Panicle/ m <sup>2</sup>	No. of Spikelet/ Panicle	1000 grain wt. (gm)
T <sub>1</sub>	4417	11.0	8.0	117.0	83.3	112.0	27.0	323.7	211.0	27.4
T <sub>2</sub>	4028	10.0	7.0	118.0	83.7	113.0	26.3	317.3	213.0	25.6
T <sub>3</sub>	3722	8.0	5.7	118.7	83.7	110.3	28.0	319.0	201.3	27.3
Mean	4055.6	9.7	6.9	117.9	83.6	111.8	27.1	320.0	208.4	26.7
CD	385.6	2.3	2.0	4.4	3.9	3.8	3.2	19.6	12.7	1.2
CV (%)	4.2	10.3	12.8	1.6	2.1	1.5	5.1	2.7	2.7	2.0
Significance	S	S	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	S

**Tillage practices**

- T<sub>1</sub> Conventional
- T<sub>2</sub> Bed planting
- T<sub>3</sub> Zero tillage

## A236

**Table 72: Effect of tillage and residue management practices on productivity and soil health in maize-wheat cropping sequence at Udaipur.**

Tillage practice	Residue level	Maize grain yield (kg/ha)	Maize stover yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)
T <sub>1</sub>	R <sub>1</sub>	5430	8741	100.7	104.7
T <sub>2</sub>		4630	7098	92.0	94.4
T <sub>3</sub>		4133	6383	90.7	92.0
T <sub>1</sub>	R <sub>2</sub>	4027	6054	92.2	93.3
T <sub>2</sub>		3833	5788	89.3	89.8
T <sub>3</sub>		3713	5537	88.7	89.3

Mean of location	4294.4	6600.1	92.3	93.9
C.D. (5 %)	524.8	814.3	3.9	4.8
F	n.s.	s	s	s

T <sub>1</sub>	5030	7919	96.3	99.6
T <sub>2</sub>	4080	6219	91.4	92.7
T <sub>3</sub>	3773	5662	89.0	89.6

C.D. (5 %)	371.1	575.8	2.8	3.4
F	s	s	s	s

R <sub>1</sub>	4466	6971	93.6	95.5
R <sub>2</sub>	4123	6229	91.0	92.4

C.D. (5 %)	303.0	470.1	2.2	2.8
C.V. %	6.7	6.8	2.3	2.8
F	s	s	s	s

**Treatment details:**

**Main plot (Tillage practices)**

- T<sub>1</sub> Zero tillage
- T<sub>2</sub> Bed planting (on permanent beds)
- T<sub>3</sub> Conventional tillage

**Sub plot (Residue management)**

- R<sub>1</sub> With residue (30-35% residue)
- R<sub>2</sub> Without residue

## A237

**Table 73: Effect of tillage practices x germplasm on productivity and soil health in maize-wheat cropping sequence at Udaipur.**

(Tillage practice)	Residue levels	Maize grain yield (kg/ha)	Maize stover yield (kg/ha)
T <sub>1</sub>	G <sub>1</sub>	4647	6797
T <sub>2</sub>		4210	6350
T <sub>3</sub>		3850	5763
T <sub>1</sub>	G <sub>2</sub>	3363	5033
T <sub>2</sub>		3067	4540
T <sub>3</sub>		2763	4037

Mean of location                      3650.0                      5420.0

C.D. (5 %)                                758.7                                818.1

F    n.s.                                        n.s.

T <sub>1</sub>	4428	6573
T <sub>2</sub>	3607	5398
T <sub>3</sub>	2915	4288

C.D. (5 %)                                536.5                                578.5

F    s    s

G <sub>1</sub>	3854	5700
G <sub>2</sub>	3446	5140

C.D. (5 %)                                438.0                                472.3

C.V. %                                        11.4                                        8.3

F    n.s.                                        s

### Treatment details:

#### Main plot (Tillage practices)

T<sub>1</sub> Zero tillage

T<sub>2</sub> Bed planting (on permanent beds)

T<sub>3</sub> Conventional tillage

#### Sub plot (Germplasm)

G<sub>1</sub> HQPM-1

G<sub>2</sub> PEHM-2



## A238

**Table 74: Performance of sweet corn varieties at varying fertility levels (Station trial) at Udaipur.**

Variety	Fertility levels	Green cob yield (kg/ha)	Green fodder yield (kg/ha)	Net returns (Rs/ha)	B:C ratio
V <sub>1</sub>	F <sub>1</sub>	7430	15523	57311	3.2
	F <sub>2</sub>	12547	26297	109018	6.2
	F <sub>3</sub>	9537	19323	77964	4.4
	F <sub>4</sub>	6360	12953	46181	2.6
V <sub>2</sub>	F <sub>1</sub>	8137	16340	63449	3.5
	F <sub>2</sub>	13567	28097	118646	6.6
	F <sub>3</sub>	10167	20537	83886	4.7
	F <sub>4</sub>	6837	13683	50392	2.8
V <sub>3</sub>	F <sub>1</sub>	8223	16433	63901	3.5
	F <sub>2</sub>	13640	28317	119118	6.5
	F <sub>3</sub>	10413	20727	85715	4.7
	F <sub>4</sub>	6840	13653	50055	2.7
V <sub>4</sub>	F <sub>1</sub>	8367	16560	64845	3.5
	F <sub>2</sub>	13623	28443	118782	6.4
	F <sub>3</sub>	10430	20830	85622	4.6
	F <sub>4</sub>	6839	13653	49720	2.7

Mean of location	9559.8	19460.6	77787.9	4.3
C.D. (5 %)	1006.5	1647.1	9635.7	0.5
F	n.s.	n.s.	n.s.	n.s.

V <sub>1</sub>	8968	18524	72619	4.1
V <sub>2</sub>	9677	19664	79093	4.4
V <sub>3</sub>	9779	19783	79697	4.4
V <sub>4</sub>	9815	19872	79742	4.3

C.D. at 5 %	503.2	823.5	4817.9	0.3
F	s	s	s	n.s.

F <sub>1</sub>	8039	16214	62377	3.4
F <sub>2</sub>	13344	27788	116391	6.4
F <sub>3</sub>	10137	20354	83297	4.6
F <sub>4</sub>	6719	13486	49087	2.7

C.D. (5 %)	503.2	823.5	4817.9	0.3
C.V. %	6.3	5.1	7.4	7.4
F	s	s	s	s

**Treatment details:**

**Main plot: (Sweet corn varieties)**

V<sub>1</sub> Bajora sweet corn

V<sub>2</sub> Sugar-75

V<sub>3</sub> Win Orange

V<sub>4</sub> Priya

**Sub plot: (Fertility levels)**

F<sub>1</sub> 70+30KgN+P/ha

F<sub>2</sub> 90+40KgN+P/ha

F<sub>3</sub> 110+50KgN+P/ha

F<sub>4</sub> 130+60KgN+P/ha

## A239

**Table 75: Moisture conservation studies in maize for enhancing water use efficiency at Srinagar.**

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T <sub>1</sub>	4800	5933	79.3	92.0	214.7	62.3	66.3
T <sub>2</sub>	4533	5667	60.2	70.4	210.7	62.7	67.0
T <sub>3</sub>	4867	6133	79.6	89.3	216.3	63.0	66.7
T <sub>4</sub>	4689	5800	60.2	90.4	207.3	63.0	67.7
T <sub>5</sub>	4467	5533	78.9	68.9	205.3	63.7	68.0
T <sub>6</sub>	5067	6333	79.1	93.1	206.7	61.3	66.7
T <sub>7</sub>	5378	6733	77.8	89.1	212.0	66.7	71.3
T <sub>8</sub>	5222	6489	80.2	95.1	212.0	67.3	73.0
Mean	4877.8	6077.8	74.4	86.1	210.6	63.8	68.3
CD	347.4	459.8	2.7	6.1	5.1	2.6	3.3
CV (%)	4.1	4.3	2.1	4.1	1.4	2.3	2.8
Significance	S	S	S	S	S	S	S

**Treatment Detail:**

- T<sub>1</sub> Furrow sowing with normal plant population
- T<sub>2</sub> Furrow sowing with 25% reduced plant population
- T<sub>3</sub> Flat planting with normal plant population
- T<sub>4</sub> Flat planting with 25% reduced plant population
- T<sub>5</sub> Kaolin spray 5%
- T<sub>6</sub> Hydro-gel application @2.5 kg/ha
- T<sub>7</sub> Straw mulch @ 6t/ha
- T<sub>8</sub> In-situ mulching of cowpea

# PATHOLOGY



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During kharif 2012 nine trials were conducted in pathology at Bajaura, Dhaula kuan, Almora and Barapani in zone I; Ludhiana, Delhi, Karnal, Pantnagar in zone II; Arbhavi, Coimbatore, Mandya - in zone IV; and at Udaipur in zone V. A total of 293 entries were screened against 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), Common rust (C. rust), Polysora rust (P. rust) and Erwinia stalk rot (ESR). In addition, surveys were conducted at farmers field in Rajasthan (zone V), Andhra Pradesh, Karnataka and Tamil Nadu (zone IV) to asses overall disease scenario during the crop season.

The screening techniques and methods of recording the disease incidence are given below:

#### Foliar Diseases

TLB & MLB: Sorghum grains soaked in water in a conical flask, & autoclaved twice, seeded with fungus under aseptic condition and 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. 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.

- 1.0 - Very slight to slight infection, one or two scattered lesions on lower leaves.
- 2.0 - Light infection, moderate number of lesions on lower leaves only
- 3.0 -Moderate infection, abundant lesions are on lower leaves, few on middle leaves.
- 4.0 –Heavy infection, lesions are abundant on lower, middle and extending to upper leaves.
- 5.0 –Very heavy infection, lesions abundant on almost all leaves, plants prematurely killed by the disease.

BLSB: Soak barley grains in water for 24 hours and dispense in 250 ml conical flask autoclaved. Prepare suspension in sterile water with 2-3 days old pathogen & seed 5 ml of the suspension in each flask & incubate them at 27°C for 10 days. Inoculation should be made during the rainy days when moist condition is prevailed and crop is 30-40 days old. Place impregnated barley grains at junction of sheath and leaf.

Disease is recoded after 30-35 days of inoculations on basis of following rating scale.

- 1.0 -Infection is on one leaf sheath, lesions are one or few, non-coalescent
- 2.0 -Two to three leaf sheaths infected, lesions are few and non-coalescent on third leaf sheath from ground level.
- 3.0 -Infection is not up to the ear shoot but on more than two leaf-sheaths

4.0 -Infection is on all leaf sheaths up to the ear shoot but shank is not infected

5.0 -Infection presents beyond the ear shoot; reduced ear size, with or without sclerotial development kernel formation absent or rudimentary.

RUST: Inoculum should be collected during the previous year from naturally infected leaves showing large number of pustules. Prepare the spore (urediniospore) suspension @ 60, 000 spores/ml water containing 0.02 percent Tween 20 & applied in the whorl using a syringe.

Rating is usually done after 30 days of the last inoculation on -5 scales as described below:

1.0 -Very slight infection, one or two to few scattered pustules on lower leaves only

2.0 -Moderate number of pustules on lower leaves only (light infection)

3.0 -Abundant pustules on lower leaves; few on middle

4.0 -Abundant pustules on lower and middle leaves, extending to upper

5.0 -Abundant pustules on all leaves, plant may killed by the disease.

Downy mildews: Artificial epiphytotic condition can be created by putting 2-3 cm pieces of freshly infected leaves containing sporangia of the fungus in the whorls of the seedlings during cloudy weather in the evening between 5 and 7 P.M. at 24 and 30 days after planting. Rating scale -

Genotypes population less than 5% disease

6 - 10% disease

11 - 25% disease

More than 25 % disease

Post Flowering stalk rots: The inoculum can be increased on boiled washed then dried toothpicks. Keeping the tapering end upwards, the dried toothpicks should be staked loosely in screw capped jars. Pour potato dextrose broth in this jar & autoclave. The level of broth was adjusted to one-third length of toothpicks. Seed the autoclaved jar aseptically with fungus and incubated 28°C for one week. Inoculations should be made just after flowering stage, in the lower internodes (second) above the soil level. The toothpicks were inserted diagonally after pricking and making 2 cm hole with the help of jabber

For scoring disease severity for PFSR, 1-9 rating scale is followed:

1– Healthy or slight discolouration at the site of inoculation

2 - Up to 50% of the inoculated internode is discoloured.

3 - 51-75% of the inoculated internode is discoloured.

4 - 76-100% of the inoculated internode is discoloured.

5 – Less than 50% discolouration of the adjacent internode.

6 – More than 50% discolouration of the adjacent internode.

7 - Discolouration of three internodes.

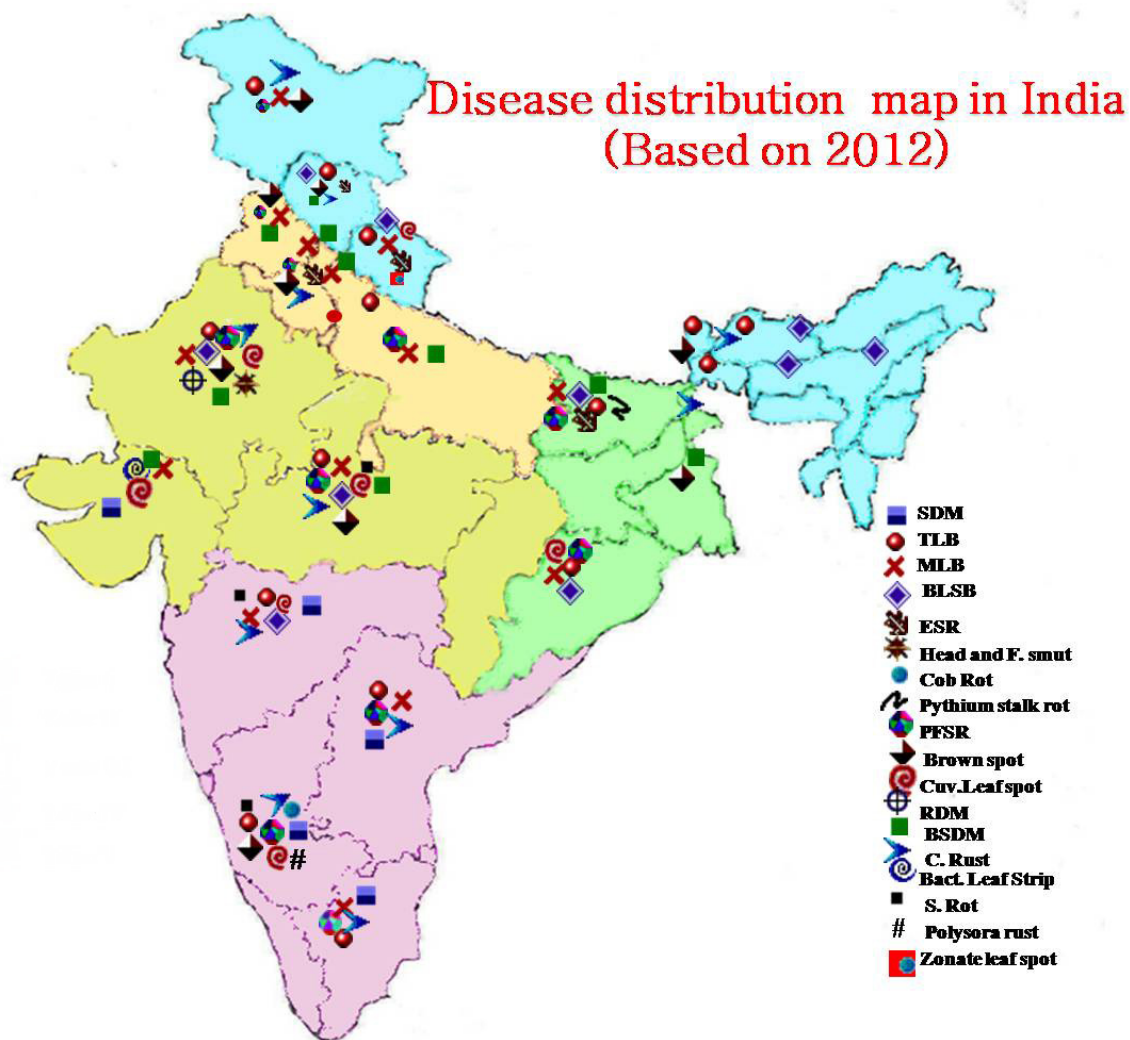
8 - Discolouration of four internodes.



## 9 - Discolouration of five or more internodes and premature death of plant

## Survey and surveillance

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Andhra Pradesh, Karnataka and Tamil Nadu during the year. The most common diseases of these areas were Turicum Leaf Blight (TLB) in Karnataka, Banded leaf and sheath blight(BLSB). Curvularia leaf spot (CLS) in Rajasthan has shown widespread occurrence in Rajasthan this year by showing the moderate incidence from all places surveyed whereas sever incidence recorded from 22 places. The most common diseases from Andhra Pradesh were TLB and Charcoal rot. The most prevalent diseases from Tamil Nadu were Sorghum Downy Mildew followed by TLB. Polysora rust and CLS are emerging as a potential threat in Karnataka & Rajasthan respectively. Based on the survey surveillance, the disease map was updated.



## Coordinated trials

A total of 293 maize genotypes and 39 specialty corn in 09 different trials comprising of various maturity groups were evaluated against different maize 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), Post-flowering stalk rots(PFSR), Common rust (C. Rust), Polysora rust (P. Rust) and Erwinia stalk rot (ESR). The Curvularia Leaf Spot (CLS) was screened only in IET (late, medium and early maturity genotypes). The screenings of these genotypes were carried out under artificially inoculated conditions in the various hot spots located in different agro climatic zones of the country. The most promising genotypes with combined resistance to various diseases are:

## Resistant maize genotypes in IET late season maturity –

A total of 44 genotypes were resistant out of 64 genotypes. Promising genotypes with multiple resistances are:

AMH-477	MLB, ESR, CLS
Bisco X 4296	MLB, ESR
DADA	MLB, TLB, P.RUST
FMH-11195	MLB, PFSR
KDMH 4086	PFSR, P.RUST
KMH-510	MLB, TLB
NMH-1265	MLB, P.RUST
NMH-3493	TLB, PFSR, P.RUST
PMH-2277	P.RUST, CLS
Rasi-863	MLB, RDM, CLS
Rasi-932	MLB, ESR
Venus	MLB, ESR, P.RUST
LTH-20	PFSR, P.RUST
LTH-22	MLB, P.RUST
X35B396	ESR, , P.RUST, CLS
AH 1211	CLS, P.RUST
JH 31555	MLB, CLS
JH 31601	SDM, RDM, DM, PFSR
X35B392	DM, PFSR
CMH 10-546	MLB, TLB, PFSR
REH-2011-06	MLB, P.RUST
PRO-388	MLB, PFSR
X35B391	MLB, RDM, P.RUST, CLS
VNR-39029	RDM, CLS
A-7503	RDM, CLS
VMH-4185	SDM, RDM, DM, P.RUST
Euri 10	RDM, P.RUST, CLS

## Resistant maize genotypes in IET medium maturity –

A total of 45 genotypes showed resistant reaction out of 75 genotypes. Promising genotypes with multiple resistances to various diseases are:

FMH-603	MLB, C.RUST
Rasi-3033	MLB, C.RUST, P.RUST
AMH-455	MLB, C.RUST

## P5

NMH-1281	MLB, RDM, C.RUST
Bisco X 2711	PFSR, C.RUST
NMH 1588	RDM, P.RUST
TI8334	P.RUST, CLS
JKMH 4511	MLB, TLB, RDM, P.RUST
S6850	PFSR, C.RUST
S6790	PFSR, RDM
KMH-7148	MLB, CLS
EHL 2211	PFSR, RDM
NMH-1277	MLB, RDM
PRO 387	MLB, PFSR, RDM, CLS
DAS MH-303	C.RUST, P.RUST
X35B403	RDM, C.RUST, P.RUST
CMH 10-529	RDM, PFSR, C.RUST
REH 2011-03	TLB, P.RUST
CMH 10-485	PFSR, P.RUST
JH 31599	PFSR, RDM
MMH 12-7	MLB, RDM
MMH 12-8	CLS, P.RUST
DHM 117	MLB, TLB
BH-411001	DM, PFSR, CLS
KNMH 4205	PFSR, P.RUST

Resistant maize genotypes in IET early maturity –  
A total of 17 genotypes showed resistant reaction out of 32 genotypes.  
Promising genotypes with multiple resistances to various diseases are:

KMH-7021	MLB, P. RUST
FH 3605	MLB, PFSR
CMH-10-537	PFSR, ESR, P. RUST, C. RUST
CMH-10-484	MLB, ESR, P. RUST, C. RUST
CMH-10-527	MLB, RDM, PFSR, P. RUST
CMH-10-531	MLB, PFSR, ESR
BAUMH-2011-07	MLB, ESR
BIO 6008	PFSR, P. RUST, C. RUST
HKH 333	PFSR, ESR

Resistant maize genotypes in IET extra early maturity –  
A total of 8 genotypes showed resistant reaction out of 18 genotypes.  
Only one promising genotype with multiple resistances is:

REH 2011-7	PFSR, C. RUST, P. RUST
------------	------------------------

Resistant maize genotypes in AET late season maturity –  
A total of 27 genotypes were resistant out of 40 genotypes. Promising  
genotypes with multiple resistances are:

CMH08-381	MLB, PFSR, C.RUST
CMH10-500	MLB, ESR
CP 333	TLB, PFSR, P.RUST
DAS-MH-102	MLB, P.RUST
DMH 7705	TLB, RDM

P6

HTMH 5106	MLB, PFSR, P.RUST
MCH 45	MLB, RDM, ESR, C.RUST, P.RUST
MCH 46	MLB, RDM, PFSR, P.RUST
NMH-1247	MLB, P.RUST
P4546	RDM, PFSR, ESR, C.RUST, P.RUST
PRO-385	MLB, C.RUST
S6668	MLB, C.RUST
CMH08-287	TLB, PFSR, C.RUST, P.RUST
NMH-713	C.RUST, P.RUST

Resistant maize genotypes in AET medium maturity –  
 A total of 25 genotypes showed resistant reaction out of 38 genotypes  
 Promising genotypes with multiple resistances to various diseases are:

B 53	PFSR, P.RUST, C.RUST
EHL 161708 (Hyb)	MLB, ESR
JH 31470	PFSR, P.RUST, C.RUST
PRO-383	MLB, TLB
B 63	MLB, RDM
BIO 151	MLB, RDM
CMH08-292	MLB, RDM, PFSR
CMH08-350	MLB, RDM, P.RUST, C.RUST
CMH08-433	MLB, RDM
IMH-666	P.RUST, C.RUST
KNMH401061	RDM, P.RUST, C.RUST
S6217	RDM, P.RUST, C.RUST
VMH 4106	MLB, TLB, P.RUST, C.RUST
X35A173	MLB, TLB

Resistant maize genotypes in AET early maturity –  
 A total of 5 genotypes showed resistant reaction out of 15 genotypes.  
 Promising genotypes with multiple resistances to various diseases are:

CMH10-525	TLB, PRSR, P.RUST, C.RUST
FH 3513	MLB, RDM, P.RUST, C.RUST
KDMH 755	MLB, RDM, P.RUST, C.RUST
REH 2009-12	TLB, PFSR, P.RUST, C.RUST

Resistant maize genotypes in AET extra early maturity –  
 A total of 5 genotypes showed resistant reaction out of 11 genotypes.  
 Promising genotypes with multiple resistances to various diseases are:

FH 3555	TLB, P.RUST, C.RUST
FH 3556	MLB, P.RUST, C.RUST
FH 3510	DM, RDM
FH 3525	MLB, PFSR

Assessment of avoidable yield losses due to various diseases of maize using paired plot technique, nine replications under artificial inoculation conditions

Genotype	Disease	Location	Avoidable Yield loss (%)
HQPM7	MLB	Delhi	12.67
Local	MLB	Dhaulakuan	49.86
DMH – 2	TLB	Arabhavi	19.40
EH – 434042	TLB	Arabhavi	5.85
Bio 9681	TLB	Arabhavi	23.43
Gaurav	BLSB	Pant Nagar	34.48
QPM – 9	BLSB	Delhi	14.33
CP 818	SDM	Mandya	100.0
PMH-1	Charcoal Rot	Ludhiana	11.1
Vivek hybrid – 9	Charcoal Rot	Delhi	20.07
30V92	Charcoal Rot	Hyderabad	20.68

#### Nematology

Two hundred and ninety three (293) maize entries belonging to different maturity groups were screened against cyst nematode, *Heterodera zae*. Maize entries viz. KDMH 4086, X35B396, JH 31555, Meghan-G, CMH 10-473, CMH 10-485, REH 2011-1, CMH-10-527 and REH 2011-8 exhibited moderately resistant reaction to *H. zae*.

Survey results showed that maximum nematode population (16.42 cyst/plant, 12.92 cyst/100 cc soil and 460.83 larvae/100 cc soil) was observed in samples collected from Rajsamand district with occurrence of 70.59% while minimum nematode population (9.00 cyst/plant, 7.25 cyst/100 cc soil and 282.50 larvae/ 100 cc soil) was obtained from Ajmer district of Rajasthan with 57.14% occurrence. On the whole, occurrence of maize cyst nematode, *H. zae* was observed 64.15 per cent in maize growing areas.

Evaluation of inbred lines against PFSR at Delhi, Hyderabad, Ludhiana and Udaipur

1. A total of 33 entries were evaluated and out of them 05 were selected as a resistant to PFSR across the locations with disease score of <5.0 (1-9 rating scale)
2. A total of 10 resistant pools for PFSR are being maintained and inbred lines from these pools are being extracted and evaluated against PFSR.

In house projects:

1. Studies on variability among the isolates of *M. phaseolina* and *F. moniliforme* in maize and identification of sources of resistance against Post Flowering Stalk Rots of maize
  - Molecular characterization of isolates of *Macrophomina phaseolina* and *Fusarium verticilloides* obtained from different maize growing areas of India was done through Random Amplified Polymorphic DNA analysis (RAPD). Condition for *M. phaseolina* and *F. verticilloides* isolates in the

present investigations were standardized and following results were obtained –

#### *Fusarium verticilloides*

- Cluster analysis sub-divided the isolates into two major groups
- Group 1 contained isolates of Delhi and Pantnagar while, Group 2 contained isolates from Karnal to Dhaulakuan.
- Karnal isolate is out grouped with approximately 40 % similarity with rest of isolates.
- In group 2 again two groups formed in group 1 Dholi and Udaipur (Manar) with approximately 81% similarity.
- Tamil Nadu & Ludhiana formed another group with approximately 73 % similarity.

#### *Macrophomina phaseolina*

- Genetic analysis divided the *Macrophomina* isolates into two major groups, where one group consisting of only Dholi isolates.
- Another group (Group II) has seven isolates, in which Arbhavi and Ludhiana isolates are genetically similar at 0.61 coefficient of similarity.
- Group II is subdivided in two sub-clusters, containing Delhi, Udaipur and Hyderabad (R) isolate in one subgroup and Arbhavi, Ludhiana , Godhra and Hyderabad (A) in another subgroup.
- Major finding is that Hyderabad (R) and Hyderabad (A) are in two different subgroups though being closely located.

## 2. Post harvest management of losses due to microbial colonization in stored maize grains

- A total of 35 genotypes were tested for storability all showed less than 20ppb AFB<sub>1</sub> (within permissible limit), out of them NMH-958, PMH-3, MCH-40, FH-3487, FH-3487 are promising by showing AFB<sub>1</sub> from 0.001 to 0.833ppb
- genotypes VEH -09-2, BIO 9681, HM-4 ,HM-11, JH-31292 with grain wall thickness > 170 µm showed more AFB<sub>1</sub> as compared to more thickness (190 to 288 µm)
- An experiment for management of post harvest losses in stored maize grain was conducted. Grain lot was inoculated with *A. flavus* strain 22 (highly toxic isolate) except one lot of 8.5 kg left uninoculated with three replication.
- The inoculated grains further treated with biocontrol agent *A. niger* @ 10 mg/kg, calcium carbonate 4 g/kg, sodium tripolyphosphate @ 4g/kg and ammonium carbonate @ 4g/kg.
- After six months storage it was observed that ammonium carbonate was the best in minimizing the aflatoxin concentration (0.493ppb) followed by Sodium tripolyphosphate (2.13 ppb), *Aspergillus niger* (2.16 ppb) and calcium carbonate (6.30) over the control (inoculated) (9.11ppb) in variety HQPM-1
- In DHM – 117 sodium tripolyphosphate was the best by exhibiting minimum aflatoxin concentration (1.10ppb) followed by ammonium carbonate (1.98 ppb), *A. niger* (2.41) and calcium carbonate (6.93 ppb) as compared to untreated control 33.09 ppb at 11-12% grain moisture range.

### 3. Identification of stable sources of resistance to major diseases of maize

A total of 113 elite lines were evaluated against major diseases of maize under artificial epiphytotic conditions during kharif 2012 at various hot spot locations viz.; PFSR at Hyderabad, Udaipur, Delhi and Ludhiana, MLB at Ludhiana & Delhi, TLB at Almora, Bajaura & Mandya, P. rust & SDM at Mandya, BLSB at Delhi, Pantnagar & Dhaulakuan, ESR at Ludhiana & Dhaulakuan, BSDM at Dhaulakuan and RDM at Udaipur. Out of them 6 lines were found resistant against TLB, 4 against MLB, one each against PFSR and P.rust, 4 against SDM, 20 against ESR, 2 against P. rust, 7 against RDM and 57 against CLS.

Based upon three years evaluation data (kharif 2010 to 2012), 77 lines were found resistant or moderately resistant against one or more diseases. Out of those 77 promising lines, 40 against MLB, 30 against TLB, 54 against BSDM, 37 against PFSR, 4 against RDM, 2 each against P.RUST, CLS and ESR. The entry wise detail of resistance is given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	Mas madu (sh2sh2)-	BSDM	TLB, PFSR
2.	Win sweet corn	BSDM	-
3.	951-7	BSDM	PFSR
4.	WINPOP-16	-	ESR
5.	CUBA 380	BSDM	-
6.	NC 392	-	MLB
7.	DMSC3	BSDM	MLB, PFSR
8.	DMSC16-1	BSDM, MLB	-
9.	DMSC-37-3	PFSR	-
10.	HKI PC 4B	-	PFSR ,BSDM
11.	HKI-PC-5-1	-	BSDM
12.	HKI-PC-7	-	BSDM
13.	HKI-PC-8-2-1	PFSR	-
14.	WINPOP-1	-	BSDM
15.	WINPOP-3	CLS	-
16.	WINPOP-4	-	PFSR
17.	WINPOP-21	BSDM	PFSR
18.	HKI 1040-5	CLS	PFSR,, BSDM
19.	HKI 1094-WG	-	MLB, PFSR
20.	ESM-11-3	BSDM	PFSR
21.	PFSR/51016-1	BSDM, MLB	TLB, PFSR,
22.	Hyd05r/2-1	BSDM	MLB
23.	Hyd05R/13-2	BSDM	-
24.	LM12	BSDM	MLB
25.	LM15	-	PFSR
26.	LM16	BSDM	MLB, PFSR
27.	CM114	BSDM	TLB
28.	CM121	PFSR	-
29.	CM144	-	PFSR
30.	HKI C 78	BSDM	TLB, MLB, PFSR
31.	HKI 141-2	BSDM	-
32.	HKI C 323	BSDM	TLB, PFSR
33.	HKI 1352-5-8-9	TLB, MLB,	-

34.	Pool 16 BNSEQ.C3F6x38-1	BSDM,	TLB
35.	ae-40	P. RUST	PFSR
36.	CML141	TLB, MLB	-
37.	CML 269	MLB	TLB, PFSR, BSDM
38.	CML 384	-	TLB, MLB, PFSR, BSDM
39.	HKI 34(1+2)-1	BSDM	PFSR
40.	HKI 164-7-4 ER-3	BSDM	MLB, TLB, PFSR
41.	HKI 164-4-(1-3)	BSDM	
42.	HKI 191-1-2-5	BSDM	MLB
43.	HKI 193-2-2-4	BSDM	PFSR
44.	HKI 193-1	BSDM, PFSR	TLB
45.	CML 172	BSDM, TLB, PFSR	MLB
46.	HKI-MBR-139-2	BSDM, TLB	PFSR
47.	DMR QPM-03-104	-	PFSR, MLB, BSDM
48.	DMR QPM-58-26	-	MLB, BSDM
49.	CLQRCYQ-47-B	BSDM, MLB	PFSR
50.	CLQ-RCYQ30	BSDM, MLB	PFSR
51.	CLQ-RCYQ36	BSDM, MLB	PFSR
52.	CLQ-RCYQ41	BSDM, MLB	TLB, PFSR, P. RUST
53.	02POOL 33 C24	BSDM	PFSR
54.	PFSR-R2	BSDM	TLB, PFSR
55.	PFSR-R3	TLB, MLB, PFSR	BSDM,
56.	PFSR-R9	MLB, BSDM, RDM, TLB, PFSR	ESR
57.	PFSR-R10	BSDM, TLB, MLB, PFSR	-
58.	PFSR-S2	BSDM, MLB	TLB, PFSR
59.	PFSR-S3	MLB, BSDM, TLB	PFSR, RDM
60.	JCY2-1-2-1-1B-1-2-3-1-1	BSDM, TLB, MLB, PFSR	RDM
61.	JCY2-7-1-2-1-B-1-2-1-1	BSDM, MLB, PFSR	TLB
62.	CM 117-3-4-1-2-2-1	BSDM, MLB, PFSR	TLB, RDM
63.	CM 117-3-4-1-1-4-1	MLB, PFSR	TLB
64.	CM 117-3-4-1-2-3-1	MLB	PFSR
65.	42048-2-2-1-1-1-2	BSDM, MLB, PFSR	-
66.	SW-93D-313-23-POP.49-S4-1	BSDM	TLB, MLB, PFSR
67.	JCY3-7-1-2-1-B-2-3-2-1-3-1	BSDM	-
68.	JCY2-2-4-1-1-1-3-1-3-1	BSDM	TLB, MLB, PFSR, DM
69.	42050-1-1-2-1-3	TLB, MLB, PFSR	-
70.	JCY3-7-1-2-1-B-1-1-2-3-1-1	BSDM, MLB, PFSR	TLB
71.	CM117-3-4-1-2-5-2	PFSR,	MLB
72.	JCY3-7-1-2-2-1-3-1-1-2-7-1-1-1	TLB, MLB, PFSR	-
73.	LM13	TLB, MLB, PFSR	-
74.	CM117-3-4-1-2-2-3	BSDM, TLB, MLB, PFSR	-
75.	JCY3-7-1-2-1-B-2-1-2-1	BSDM, PFSR, RDM	-
76.	CML44	-	MLB, PFSR, BSDM
77.	LTP4	BSDM, MLB, PFSR	-



**Table:1****Evaluation of maize genotypes (IET Late Maturity) against various diseases of maize during Kharif 2012 (Trial 61)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)					
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
1	Cyrus-G	1.8	2.0	2.0	1.0	1.5	1.0	1.8	2.6	2.5	2.0	2.4
2	AMH-477	1.5	2.0	2.0	1.5	2.3	1.5	1.5	2.5	1.5	3.3	1.2
3	Bisco X 4296	1.8	1.3	2.0	1.0	2.3	2.0	1.8	2.7	1.5	3.3	1.3
4	DADA	1.5	1.5	2.0	1.0	2.0	2.0	2.0	2.1	1.5	2.5	2.1
5	FMH-1073	1.5	2.0	2.0	2.0	2.8	2.0	1.5	2.1	1.5	2.8	2.0
6	FMH-1085	1.5	3.0	2.0	1.0	2.0	1.0	1.5	2.0	1.0	3.0	2.0
7	FMH-11195	1.8	1.3	2.0	2.0	2.0	1.0	1.8	2.3	1.0	4.3	1.9
8	FMH-621	1.0	2.0	2.0	1.5	2.5	1.0	1.0	2.5	1.0	3.3	1.9
9	FMH-9184	2.8	1.3	2.0	2.0	1.5	1.0	2.8	2.3	2.0	2.0	1.4
10	FMH-9190	1.5	2.0	2.0	1.5	2.3	1.0	1.5	2.6	1.5	2.5	2.4
11	FMH-938	1.5	2.5	2.0	2.0	2.5	1.0	1.5	2.3	1.5	4.5	2.7
12	FMH-951	1.3	2.0	2.0	1.0	2.8	1.0	1.3	2.7	1.5	2.5	2.2
13	GH-0945	1.8	2.0	3.5	1.8	2.8	1.5	1.8	2.6	2.5	3.8	2.0
14	GK 3059 GOLD	1.5	1.3	2.0	1.0	2.3	1.0	1.5	2.2	1.5	3.5	2.3
15	GK 3100	1.5	1.3	2.5	1.0	1.8	1.0	1.5	2.2	2.0	3.3	2.7
16	HTMH 5403	1.5	1.3	2.0	1.0	2.0	1.5	1.5	2.5	2.5	3.8	2.4
17	IJ8527	2.0	3.0	2.0	1.0	1.8	1.0	2.0	2.7	2.0	4.3	3.2
18	JKMH 4545	1.3	2.5	3.0	2.5	3.0	2.5	1.3	2.7	1.5	2.0	2.6
19	KDMH 4086	2.0	2.5	2.0	2.0	2.5	1.5	2.0	2.6	1.5	3.8	2.6
20	KH - 7579	2.0	3.0	3.5	1.0	2.5	2.5	2.0	2.5	1.0	3.8	1.8
21	KH - K25 Gold	2.3	2.0	3.0	1.5	2.3	2.0	2.3	2.3	1.5	2.0	2.3
22	KMH-510	2.0	1.5	2.0	2.3	2.3	1.0	2.0	2.9	1.0	3.5	2.6
23	NMH 1008	2.0	1.3	2.5	1.8	2.3	1.5	2.0	2.9	1.5	3.8	2.6
24	NMH-1265	1.5	1.3	2.0	2.3	1.8	1.0	1.5	2.8	1.5	2.0	2.3
25	NMH-3493	2.0	1.3	3.0	1.8	2.5	3.0	2.0	2.5	1.5	2.0	1.8
26	PMH-189	1.5	1.3	2.0	2.3	2.0	1.5	1.5	2.6	2.0	2.5	2.6

Contd.

Table: 1

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)					
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
27	PMH-2277	2.8	1.5	2.0	1.0	2.0	1.5	2.8	3.0	1.5	4.3	2.4
28	Rasi-863	1.5	2.0	2.0	1.8	2.0	1.0	1.5	2.5	1.5	4.3	2.4
29	Rasi-932	1.5	1.3	2.0	1.5	1.5	1.5	1.5	2.1	1.5	3.8	2.8
30	RMH 02	1.5	1.3	2.5	2.5	2.5	1.0	1.5	2.3	1.0	4.3	2.4
31	Ryder-M	1.8	1.3	2.0	2.5	1.5	2.0	1.8	2.6	1.0	3.0	2.7
32	Venus	1.5	1.3	2.0	1.8	2.0	2.0	1.5	2.6	2.0	3.3	2.4
33	CP 802	2.0	2.5	2.5	1.8	2.3	1.0	2.0	2.9	1.0	4.5	2.3
34	CMH 10-552	1.5	2.0	2.0	1.8	2.0	1.5	2.5	2.5	1.5	3.8	1.4
35	LTH-20	2.0	2.0	2.0	1.5	2.0	1.5	2.0	2.6	1.5	3.5	1.2
36	LTH-22	2.0	1.5	2.0	1.5	2.3	1.0	2.0	2.9	1.0	3.8	2.4
37	CMH 10-558	2.3	1.3	2.0	1.5	1.5	1.5	2.3	2.8	1.0	3.3	2.3
38	REH-2011-05	2.5	2.0	2.5	1.5	2.3	1.0	2.5	2.4	1.0	4.3	1.8
39	X35B396	2.5	1.0	3.0	1.0	2.8	1.0	1.8	2.5	1.0	3.5	1.9
40	AH 1211	3.0	2.0	3.0	1.5	2.5	1.0	2.8	2.8	1.5	2.8	2.2
41	JH 31555	2.3	1.3	2.0	1.5	1.5	1.0	2.0	2.9	1.0	4.3	1.6
42	JH 31601	2.0	1.3	2.0	2.3	1.5	1.0	2.0	2.7	1.0	2.5	2.0
43	DAS MH-103	2.0	2.0	2.0	1.0	1.5	1.0	2.0	2.5	1.0	4.5	2.8
44	X35B392	2.0	1.3	2.5	1.5	1.8	1.5	2.0	2.6	1.0	4.3	2.1
45	CMH 10-477	2.3	2.0	2.5	2.3	2.0	1.5	1.5	2.7	2.0	4.5	2.3
46	CMH 10-546	2.0	1.3	2.0	1.0	1.8	1.5	2.0	1.9	1.5	2.5	1.9
47	CMH 10-540	2.0	2.0	2.0	1.8	2.0	1.5	2.0	2.1	1.0	3.0	2.6
48	REH-2011-06	2.3	1.3	2.5	1.0	1.8	1.5	2.5	2.6	1.0	2.0	2.1
49	PRO-388	2.0	1.3	2.5	1.8	2.0	1.0	2.3	3.0	1.5	3.8	2.2
50	X35B391	2.0	2.5	2.0	1.5	1.8	1.0	2.0	3.1	1.0	3.3	2.0
51	VNR-39029	2.0	2.0	2.0	2.8	2.0	2.0	2.0	3.0	1.5	3.8	2.1
52	A-7503	2.0	2.0	2.0	1.0	2.0	2.5	2.0	2.5	2.0	3.0	2.2
53	VMH-4174	2.0	1.3	2.0	1.5	2.8	2.0	2.0	2.4	1.0	2.8	2.2
54	VMH-4185	2.0	1.3	2.0	1.0	1.8	2.0	2.0	2.2	1.0	4.0	2.2
55	Euri 10	2.0	2.0	3.0	1.0	2.3	2.5	2.0	2.6	2.5	3.3	2.0

Contd.

**Table: 1**

S.NO	Genotypes	MLB (Disease rating scale 1-5)						TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
56	X35B390	2.0	3.0	2.0	1.8	1.8	1.0	2.0	2.6	2.0	3.8	1.7
57	VNR-4226	2.5	1.3	3.5	1.0	2.0	1.0	2.0	2.7	2.0	3.5	1.7
58	PMH 1 ( C )	2.3	2.0	2.0	1.0	2.3	1.0	2.3	2.6	1.0	3.5	1.9
59	PMH 3 ( C )	2.0	1.3	2.5	1.0	1.5	1.0	2.0	2.2	1.5	4.3	1.9
60	Seed Tech 2324 ( C )	2.0	2.0	3.0	1.5	3.3	1.5	2.0	2.4	1.5	4.0	1.8
61	Bio 9681 ( C )	2.0	1.3	2.0	1.0	2.3	2.5	1.8	2.8	1.5	3.0	2.0
62	HM 11 ( C )	2.0	3.0	2.0	1.0	1.5	1.5	2.0	2.4	1.0	4.5	2.0
63	GH-0928	2.0	2.0	3.0	2.8	2.8	1.0	2.3	3.0	1.5	2.8	1.8
64	DHM 117	2.0	2.0	2.5	1.5	2.0	1.5	1.8	2.9	1.5	2.5	1.8
65	X35A178	-	-	-	-	2.3	-	-	-	-	4.8	-
66	X35A182	-	-	-	-	2.8	-	-	-	-	3.8	-
67	X35A188	-	-	-	-	3.8	-	-	-	-	4.3	-
68	X8B680	-	-	-	-	4.0	-	-	-	-	4.5	-
69	P3303	-	-	-	-	1.8	-	-	-	-	3.8	-
70	Susceptible Check	-	-	-	-	-	-	-	4.5	-	4.5	-
71	Resistant Check	-	-	-	-	-	-	-	-	-	1.3	-
72	RCM 1- 2	-	-	-	-	-	-	-	-	-	-	2.0
73	Check (Local)	-	-	4.0	-	-	-	-	2.9	-	-	2.0

Contd.

<b>Table: 1</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>MAND</b>	<b>COIM</b>	<b>UDP</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
1	Cyrus-G	3.5	3.0	3.0	3.0	4.5	100.0	9.76	64.0	6.4	5.7	5.6
2	AMH-477	3.0	3.0	4.3	4.0	3.8	100.0	35.90	48.0	5.4	5.5	4.7
3	Bisco X 4296	3.5	2.0	4.0	3.5	4.0	96.3	73.68	92.0	4.0	2.5	5.7
4	DADA	2.5	2.0	2.8	4.0	4.5	100.0	75.56	94.0	6.6	3.4	3.8
5	FMH-1073	2.5	3.0	3.8	4.0	4.3	100.0	91.49	74.0	5.8	3.5	5.0
6	FMH-1085	3.0	4.0	4.8	3.5	3.8	100.0	90.63	65.0	4.4	3.6	5.3
7	FMH-11195	3.0	3.0	2.8	3.0	4.3	100.0	91.30	36.0	4.1	4.1	2.7
8	FMH-621	3.0	2.5	3.5	2.5	4.5	100.0	91.18	45.0	7.1	3.2	5.1
9	FMH-9184	3.0	4.0	3.5	3.5	3.5	100.0	81.82	84.0	7.4	6.0	2.8
10	FMH-9190	3.0	3.0	3.3	3.5	3.3	100.0	48.65	96.0	5.1	8.3	5.1
11	FMH-938	3.0	3.0	4.0	3.0	4.3	100.0	32.14	50.0	6.3	3.3	5.3
12	FMH-951	2.5	4.0	2.8	3.0	4.3	100.0	75.00	69.0	6.3	4.3	4.7
13	GH-0945	3.5	3.0	4.0	4.0	3.5	100.0	26.19	38.0	6.3	3.8	5.1
14	GK 3059 GOLD	3.5	2.0	4.5	3.5	4.3	100.0	34.88	33.0	6.9	6.3	5.7
15	GK 3100	3.0	3.0	3.8	3.5	4.0	93.4	11.11	50.0	4.3	6.0	3.3
16	HTMH 5403	3.0	1.5	4.0	3.0	4.5	98.7	38.10	24.0	5.7	6.7	5.1
17	IJ8527	3.5	3.0	3.8	3.5	4.8	95.8	46.88	50.0	3.3	3.0	5.3
18	JKMH 4545	4.0	2.0	4.5	4.0	4.3	100.0	45.45	67.0	6.8	3.1	5.4
19	KDMH 4086	3.0	3.0	3.8	3.0	4.3	100.0	56.76	44.0	4.8	2.3	3.6
20	KH - 7579	4.0	4.0	3.5	4.0	2.3	100.0	45.16	59.0	5.4	1.3	5.3
21	KH - K25 Gold	3.5	2.0	3.5	4.0	4.5	98.7	45.71	77.0	5.4	1.5	4.5
22	KMH-510	3.5	2.0	4.5	3.5	1.8	100.0	55.56	42.0	6.3	5.0	5.5
23	NMH 1008	3.0	1.5	3.3	4.0	1.8	97.3	29.03	36.0	3.6	3.1	3.4
24	NMH-1265	3.0	4.0	2.5	3.5	4.8	100.0	40.63	26.0	5.1	3.3	3.7
25	NMH-3493	3.0	2.0	3.8	4.0	4.0	95.9	53.33	18.0	4.4	2.1	3.7
26	PMH-189	3.5	4.0	3.5	4.0	4.0	100.0	57.14	79.0	4.8	6.4	5.3

Contd.

<b>Table: 1</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>(%)</b>	<b>(%)</b>	<b>(%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
						<b>MAND</b>	<b>COIM</b>	<b>UDP</b>				
27	PMH-2277	3.5	3.0	4.0	3.5	4.5	100.0	95.83	86.0	5.8	1.9	5.1
28	Rasi-863	2.5	3.0	3.3	3.5	3.8	100.0	41.94	12.0	3.6	4.4	5.3
29	Rasi-932	3.5	3.0	3.3	2.5	3.8	98.3	12.12	35.0	5.2	4.0	5.4
30	RMH 02	3.0	4.0	3.0	4.0	3.5	92.5	41.03	61.0	6.4	3.1	5.1
31	Ryder-M	3.0	2.0	4.0	3.5	3.8	100.0	14.71	81.0	6.7	2.4	2.8
32	Venus	3.0	2.0	2.8	3.5	4.0	100.0	84.85	88.0	6.1	3.6	5.3
33	CP 802	3.0	3.0	3.3	2.5	2.5	96.7	0.00	18.0	2.4	2.7	5.7
34	CMH 10-552	3.5	3.0	3.5	4.0	4.5	98.3	22.58	35.0	4.3	2.0	4.9
35	LTH-20	3.5	3.0	3.3	3.5	4.0	100.0	23.08	70.0	7.6	3.3	5.7
36	LTH-22	3.5	3.0	4.5	3.5	4.5	100.0	50.00	46.0	5.1	2.0	2.8
37	CMH 10-558	3.0	2.0	4.8	2.5	3.8	100.0	60.00	59.0	4.9	2.5	5.1
38	REH-2011-05	3.5	4.0	3.5	2.5	4.3	100.0	21.62	29.0	6.1	2.4	4.2
39	X35B396	3.0	4.0	3.5	3.0	4.8	100.0	20.00	37.0	5.5	2.7	4.2
40	AH 1211	4.0	3.0	4.0	3.0	5.0	100.0	36.36	91.0	7.6	4.0	5.1
41	JH 31555	3.5	4.0	2.8	3.0	5.0	100.0	20.00	52.0	5.3	1.9	5.2
42	JH 31601	3.0	2.0	3.5	2.5	3.8	17.4	35.48	0.0	3.6	1.7	4.0
43	DAS MH-103	3.0	3.0	3.3	3.5	4.3	100.0	12.50	41.0	6.1	6.3	5.1
44	X35B392	2.5	4.0	3.0	4.0	4.5	100.0	10.71	24.0	4.0	1.2	3.7
45	CMH 10-477	3.0	3.0	3.8	2.5	4.5	100.0	40.00	22.0	3.5	5.1	5.1
46	CMH 10-546	3.0	4.0	3.3	3.0	4.5	100.0	31.58	37.5	4.9	3.3	4.1
47	CMH 10-540	3.0	2.0	2.8	3.0	4.5	100.0	20.00	29.0	5.5	5.1	3.4
48	REH-2011-06	3.5	4.0	3.3	3.0	4.8	100.0	8.82	21.0	5.2	3.8	5.7
49	PRO-388	3.5	3.0	4.0	4.0	4.5	100.0	16.22	38.0	5.4	1.0	3.5
50	X35B391	3.0	2.0	2.8	3.5	4.0	100.0	8.70	10.0	5.2	2.0	4.5
51	VNR-39029	3.0	2.0	3.3	3.0	5.0	100.0	16.07	17.0	6.4	4.2	4.5
52	A-7503	2.5	2.0	3.5	3.0	4.5	100.0	30.56	15.0	3.8	5.9	3.1
53	VMH-4174	2.5	3.0	3.3	2.5	4.5	100.0	5.26	65.0	5.1	8.2	5.7
54	VMH-4185	3.0	2.0	3.5	3.5	3.5	1.5	28.13	0.0	3.8	6.2	3.6
55	Euri 10	4.0	2.0	3.8	3.0	3.0	33.9	2.33	7.0	6.7	3.8	5.7

Contd.

P16

<b>Table: 1</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>MAND (%)</b>	<b>COIM (%)</b>	<b>UDP (%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
56	X35B390	3.0	2.5	3.8	3.0	4.5	100.0	21.95	28.0	3.3	3.6	5.4
57	VNR-4226	4.0	4.0	3.3	3.0	4.5	100.0	45.00	24.0	3.5	8.6	5.2
58	PMH 1 ( C )	3.0	3.0	3.3	3.0	4.5	100.0	11.76	11.1	2.8	4.1	5.6
59	PMH 3 ( C )	2.5	4.0	4.0	3.0	4.5	100.0	13.21	37.0	3.2	2.1	5.2
60	Seed Tech 2324 ( C )	3.0	3.0	3.5	2.5	5.0	100.0	60.61	54.0	4.0	3.2	5.6
61	Bio 9681 ( C )	3.0	2.0	3.8	3.0	4.5	100.0	45.16	29.0	5.8	2.1	5.8
62	HM 11 ( C )	2.5	2.0	3.5	3.5	4.5	100.0	60.61	92.0	4.1	5.9	2.9
63	GH-0928	3.5	4.0	3.0	4.0	5.0	100.0	45.45	50.0	6.7	6.9	3.9
64	DHM 117	3.5	2.0	3.5	3.0	4.5	100.0	4.92	67.0	2.4	2.4	5.3
65	X35A178	-	-	-	-	-	-	-	-	7.8	-	-
66	X35A182	-	-	-	-	-	-	-	-	5.7	-	-
67	X35A188	-	-	-	-	-	-	-	-	7.0	-	-
68	X8B680	-	-	-	-	-	-	-	-	8.2	-	-
69	P3303	-	-	-	-	-	-	-	-	6.5	-	-
70	Susceptible Check	-	-	-	-	-	100.0	100.00	90.0	-	8.8	-
71	Resistant Check	-	-	-	-	-	17.6	0.00	-	-	1.4	-
72	RCM 1- 2	-	-	-	-	-	-	-	-	-	-	6.0
73	Check (Local)	4.0	-	-	-	-	-	-	-	-	-	-

Contd.

<b>Table: 1</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>	<b>CLS</b>	<b>CYST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>		<b>(Disease rating scale 1-5)</b>			<b>Nema#</b>
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>	<b>UDP</b>	<b>UDP</b>
1	Cyrus-G	17.9	46.4	4.3	1.8	4.5	17-21
2	AMH-477	13.0	8.3	3.0	1.6	2.0	40-48
3	Bisco X 4296	16.0	16.7	3.5	1.3	3.0	23-30
4	DADA	24.0	5.0	2.0	1.7	2.5	14-23
5	FMH-1073	41.7	43.8	2.0	1.9	3.5	35-40
6	FMH-1085	29.2	82.6	3.8	1.9	4.0	20-29
7	FMH-11195	21.1	0.0	4.0	1.6	4.0	17-24
8	FMH-621	28.6	16.7	2.5	1.7	3.0	29-42
9	FMH-9184	34.6	41.7	1.8	1.7	4.0	36-45
10	FMH-9190	61.9	21.4	2.8	1.9	3.5	14-22
11	FMH-938	39.4	20.0	4.3	2.0	4.0	11--17
12	FMH-951	42.9	27.8	2.0	2.1	4.0	13-21
13	GH-0945	34.6	54.2	4.3	2.5	3.5	12-19
14	GK 3059 GOLD	43.8	36.7	3.3	2.3	3.5	8- 13
15	GK 3100	42.3	27.8	4.3	2.5	1.5	17-25
16	HTMH 5403	26.5	25.0	3.3	2.3	3.0	10-16
17	IJ8527	47.8	52.8	3.8	2.1	3.0	13-18
18	JKMH 4545	44.0	56.3	1.8	1.8	2.5	14-21
19	KDMH 4086	20.8	84.5	2.0	1.8	4.5	4 - 9
20	KH - 7579	14.3	53.6	4.5	1.8	4.0	6- 12
21	KH - K25 Gold	13.0	61.3	1.8	2.2	3.5	12-10
22	KMH-510	17.2	47.5	3.3	2.3	4.0	35-47
23	NMH 1008	41.7	28.6	3.8	2.5	3.5	31-40
24	NMH-1265	37.5	39.1	1.8	2.1	4.5	21-32
25	NMH-3493	18.2	30.0	1.8	2.3	3.0	19-26
26	PMH-189	24.1	58.3	3.5	1.9	2.5	14-23

Contd.

<b>Table: 1</b>		<b>ESR</b>	<b>P.RUST</b>		<b>C.RUST</b>	<b>CLS</b>	<b>CYST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>	<b>(Disease rating scale 1-5)</b>				<b>Nema#</b>
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>	<b>UDP</b>	<b>UDP</b>
27	PMH-2277	14.3	66.1	1.5	2.3	2.0	21-29
28	Rasi-863	17.9	30.8	3.3	2.1	2.0	24-32
29	Rasi-932	11.4	18.8	4.0	2.0	4.5	26-36
30	RMH 02	24.2	60.0	3.8	1.8	4.5	12-18
31	Ryder-M	32.1	31.3	2.8	1.9	4.0	38-46
32	Venus	18.2	18.7	2.0	1.9	3.5	28-37
33	CP 802	26.9	93.8	4.3	1.9	3.0	12-19
34	CMH 10-552	37.5	14.3	1.8	1.9	4.0	23-33
35	LTH-20	25.0	21.7	4.3	2.0	3.5	49-58
36	LTH-22	37.9	72.5	1.8	2.2	3.5	45-52
37	CMH 10-558	48.4	90.0	3.8	2.5	2.5	10-17
38	REH-2011-05	43.3	41.7	3.3	2.2	2.0	17-26
39	X35B396	20.0	20.0	2.0	2.1	2.0	4 - 8
40	AH 1211	59.3	54.2	2.0	1.9	2.0	20-29
41	JH 31555	75.0	10.0	3.8	1.7	2.0	2 - 7
42	JH 31601	34.2	44.4	2.0	1.7	4.0	15-21
43	DAS MH-103	43.8	60.0	3.8	1.3	3.0	38-46
44	X35B392	58.6	22.5	3.8	1.8	3.5	17-24
45	CMH 10-477	35.1	23.8	3.5	1.9	4.0	12-18
46	CMH 10-546	33.3	46.4	2.5	1.9	4.0	15-22
47	CMH 10-540	36.7	41.7	4.3	1.8	4.5	10-20
48	REH-2011-06	42.9	33.3	2.0	2.1	4.0	11-17
49	PRO-388	54.8	75.0	4.3	1.9	4.5	17-25
50	X35B391	40.0	18.3	2.0	1.8	2.0	10-16
51	VNR-39029	32.1	78.8	3.3	2.0	2.0	22-33
52	A-7503	24.1	8.3	4.3	1.9	2.0	18-26
53	VMH-4174	61.5	31.0	2.0	1.5	4.0	47-60
54	VMH-4185	40.6	11.3	3.3	1.6	2.5	7 - 14
55	Euri 10	36.7	48.8	1.8	2.4	2.0	09-17

Contd.



<b>Table: 1</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>	<b>CLS</b>	<b>CYST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>		<b>(Disease rating scale 1-5)</b>			<b>Nema#</b>
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>	<b>UDP</b>	<b>UDP</b>
56	X35B390	45.2	45.0	4.0	2.0	1.5	16-22
57	VNR-4226	41.9	8.3	2.0	1.6	4.0	18-26
58	PMH 1 ( C )	31.0	49.8	3.8	1.9	2.5	10-20
59	PMH 3 ( C )	37.1	29.0	3.3	2.2	2.5	7 -13
60	Seed Tech 2324 ( C )	58.3	18.8	3.5	2.3	4.0	9 -15
61	Bio 9681 ( C )	28.0	63.3	2.5	2.1	4.5	25-37
62	HM 11 ( C )	36.4	50.8	4.3	2.0	4.0	22-31
63	GH-0928	33.3	38.4	3.8	1.9	3.5	15-22
64	DHM 117	39.4	17.4	3.8	2.1	3.0	10 -18
65	X35A178	-	-	3.3	-	-	-
66	X35A182	-	-	2.0	-	-	-
67	X35A188	-	-	3.8	-	-	-
68	X8B680	-	-	1.8	-	-	-
69	P3303	-	-	3.0	-	-	-
70	Susceptible Check	-	-	4.3	3.2	4.5	-
71	Resistant Check	-	-	1.0	-	1.0	-
72	RCM 1- 2	-	-	-	-	-	28-39

**# range of cyst/plant**

Table: 2

Evaluation of maize genotypes (IET Medium Maturity) against various diseases of maize during Kharif 2012 (Trial 62)

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)					
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
1	Meghan-G	2.0	4.0	2.0	2.0	2.3	2.5	2.0	2.8	1.5	3.5	2.0
2	FMH-603	2.0	1.3	2.5	2.5	1.5	2.0	2.0	2.8	2.5	3.8	2.6
3	Rasi-3033	1.5	-	2.0	2.0	1.5	2.5	1.5	2.8	2.5	2.0	2.2
4	Rasi-588	1.8	3.0	2.0	2.3	1.8	2.0	1.8	2.5	2.5	2.8	2.2
5	AMH-455	1.5	2.0	2.0	2.3	2.0	2.0	1.5	2.7	3.0	4.5	2.9
6	NMH-1281	2.0	2.0	2.0	1.8	1.3	2.5	2.0	2.0	2.0	3.8	2.8
7	NMH-1276	1.5	-	2.5	1.8	2.8	1.0	1.5	1.7	2.0	4.5	3.0
8	Bisco X 2711	1.5	3.0	2.0	3.0	2.5	1.5	1.5	1.9	3.0	4.0	3.3
9	NMH 1588	2.0	3.0	2.0	1.8	1.5	1.0	2.0	1.9	2.0	2.0	2.8
10	TI8334	2.3	-	2.0	3.3	1.3	1.0	2.3	2.2	1.5	2.8	1.9
11	IJ8533	2.0	3.0	2.0	2.8	2.5	1.5	2.0	2.4	1.0	3.3	2.0
12	DKC9108	2.0	1.3	2.5	2.5	3.3	1.5	2.0	2.1	4.5	4.8	1.7
13	VAMH 08014	2.5	-	3.0	3.3	1.8	1.5	2.5	3.1	3.0	3.5	2.0
14	JKMH 4511	2.0	2.0	2.5	2.5	2.3	1.5	2.0	2.6	2.0	2.0	2.1
15	S6850	2.0	3.0	2.5	3.3	1.8	2.5	2.0	2.9	2.0	2.5	2.3
16	S6790	2.0	3.0	2.0	2.3	1.5	1.5	2.0	2.9	2.5	3.8	2.0
17	BH-411036	2.0	2.0	2.0	2.8	2.0	1.5	2.0	2.7	1.5	3.0	2.3
18	KH - 7647	2.5	-	2.5	2.5	2.8	2.5	2.5	2.7	1.5	4.0	2.4
19	KMH-25K45	2.5	3.0	2.5	2.3	2.0	2.5	2.5	2.6	1.5	4.3	2.2
20	KMH-7148	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.3	1.5	3.3	2.2
21	KMH-3110	2.3	1.0	2.5	2.8	1.8	1.5	2.5	2.6	2.0	4.5	1.8
22	KMH-6681	2.0	2.0	2.5	2.8	2.3	2.5	2.0	2.8	3.0	3.5	3.6
23	QMH-2966	2.0	-	2.0	3.0	1.5	2.0	2.8	3.1	2.5	4.3	2.2
24	EHL 111	3.3	1.3	3.5	1.8	2.8	1.5	3.5	3.2	2.5	5.0	1.6
25	EHL 2211	2.5	2.0	2.0	3.0	1.5	1.0	2.5	3.1	1.5	3.8	1.9
26	EHL 2311	2.0	2.0	3.5	2.5	2.8	2.0	2.0	2.7	2.0	4.5	2.6
27	NMH-1277	2.5	2.5	2.0	2.5	1.3	2.0	2.5	2.7	3.5	4.8	2.4

Table: 2(Contd.)

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)					
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
28	DAS MH-302	2.0	-	2.5	1.5	1.8	2.0	2.0	2.7	3.0	3.3	1.8
29	PRO 387	2.3	2.0	2.5	1.8	2.0	2.0	2.3	2.9	2.0	3.3	2.7
30	BIO 719	2.0	2.0	2.0	3.5	1.5	2.0	2.0	2.7	2.0	3.3	1.8
31	DAS MH-303	3.5	2.0	3.5	2.8	2.5	1.5	3.5	2.9	1.5	2.0	1.8
32	X35B403	2.3	2.0	2.0	3.5	1.5	1.5	2.0	3.2	1.5	3.0	2.4
33	CMH 10-529	2.0	3.0	2.0	2.5	2.0	1.0	2.0	3.0	2.0	3.3	2.1
34	BAUMH-2011-04	3.3	2.0	3.0	2.5	3.0	1.0	3.3	3.1	4.0	3.3	2.7
35	BAUMH-2011-13	3.8	1.3	3.0	2.8	3.0	1.0	3.8	3.1	4.5	3.5	2.3
36	LTH-21	3.0	2.0	2.0	2.3	2.0	1.0	2.8	2.7	4.0	5.0	2.4
37	CMH 10-473	2.5	3.0	3.0	2.0	1.5	1.0	2.5	2.2	1.5	3.3	2.4
38	X35B410	2.0	-	2.5	3.3	2.3	1.0	2.0	2.5	2.0	3.5	2.8
39	REH 2011-03	2.5	-	3.0	2.3	2.0	1.5	2.5	2.2	1.5	2.0	2.1
40	EC-3164	2.8	3.0	2.5	2.5	2.3	1.5	2.8	3.0	3.0	4.8	2.6
41	CMH 10-485	2.3	1.0	3.0	1.8	2.5	2.5	2.5	2.6	2.0	3.3	3.1
42	DH-12-01	2.0	3.0	3.5	2.8	2.3	1.5	2.0	2.6	2.0	4.3	3.6
43	CMH 10-486	3.5	-	2.5	1.5	2.0	2.5	3.3	2.7	1.5	3.8	3.6
44	REH 2011-4	2.5	3.0	2.5	2.8	1.5	1.0	2.5	1.8	2.0	4.0	2.2
45	AH 1209	2.0	2.0	3.5	2.3	2.0	1.5	2.0	2.5	3.0	4.3	3.0
46	AH 1210	2.0	3.0	3.0	2.3	2.5	1.5	2.0	2.2	3.0	5.0	3.1
47	JH 31583	2.3	-	2.5	2.3	2.3	1.0	2.0	2.3	3.0	4.5	3.3
48	JH 31598	2.5	1.0	2.0	2.3	1.5	1.0	2.3	2.7	1.0	4.3	2.7
49	JH 31599	2.0	5.0	2.0	2.5	1.5	1.0	2.0	2.8	1.0	3.8	2.8
50	HKH 334	2.5	2.0	3.0	2.8	3.0	1.0	2.5	3.0	1.5	4.8	3.0
51	HKH 335	2.8	3.0	2.5	1.8	2.3	1.0	2.3	3.1	1.5	3.8	2.1
52	HKH 336	1.8	2.0	2.5	1.0	2.0	1.0	1.8	3.3	3.5	4.3	2.9
53	Bio 9637 (Filler )	2.3	1.3	2.0	1.8	1.8	1.0	2.5	3.0	1.5	3.5	2.9
54	HM-4 (Filler)	2.5	1.3	3.5	2.3	2.8	1.5	2.5	2.9	2.5	3.8	2.4
55	FILLER	2.5	3.0	2.5	2.0	2.3	1.5	2.5	2.3	2.5	3.3	2.6
56	MMH 12-4	2.0	2.0	3.5	2.8	2.3	1.0	2.0	2.1	3.0	3.5	3.0

Table: 2(Contd.)

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)					
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
57	MMH 12-5	2.5	3.0	2.5	1.0	2.5	1.0	2.0	2.7	3.5	4.3	3.0
58	MMH 12-6	2.0	2.0	2.5	2.3	2.0	1.0	2.0	2.1	3.0	2.8	3.0
59	MMH 12-7	2.0	2.0	2.5	1.8	2.0	1.5	2.0	1.9	2.0	3.8	2.7
60	MMH 12-8	2.0	3.0	3.0	2.8	1.8	1.0	2.0	2.6	1.0	2.0	3.3
61	VARANASI H12-1	2.0		2.5	3.5	1.5	1.5	2.0	2.0	2.0	4.8	3.0
62	DHM 117	2.0	2.0	2.0	2.5	2.3	1.0	2.3	2.2	1.5	2.0	2.1
63	QMH-2910	2.0	1.3	3.5	3.0	2.3	2.0	2.0	2.7	2.5	3.5	2.2
64	BH-411001	2.0	2.0	3.5	3.0	3.5	2.0	2.0	3.0	1.5	3.0	3.1
65	Safal X-260	2.0	1.0	3.5	2.0	2.5	1.5	2.3	3.0	1.5	4.8	2.3
66	KNMH 4201	2.0	3.0	3.0	2.8	1.3	1.0	2.0	2.7	1.0	4.3	2.6
67	KNMH 4202	2.0	3.0	2.5	3.0	2.5	1.5	2.0	2.6	2.5	3.5	2.0
68	KNMH 4203	2.0	1.3	2.0	2.5	1.8	1.0	2.0	3.2	1.0	3.3	2.2
69	KNMH 4204	2.0	1.3	2.5	2.0	2.5	1.0	2.0	3.2	1.5	3.5	2.4
70	KNMH 4205	2.0	3.0	2.5	3.3	1.5	1.0	2.0	2.9	1.0	2.8	2.2
71	BIO 9637 (C)	2.0	1.3	2.5	2.8	1.8	1.5	1.8	2.6	1.5	3.3	2.3
72	HM 8 (C)	2.0	3.0	2.5	2.5	2.0	1.5	2.0	2.6	2.5	3.8	2.9
73	HM 9 (C)	2.5	2.0	2.5	1.5	2.0	1.5	2.0	2.5	2.0	4.3	2.6
74	HM 10 (C)	2.5	3.0	2.5	2.5	2.5	1.5	2.5	2.8	1.5	3.8	2.1
75	PMH 4 (C)	2.5	1.3	2.5	2.5	1.5	1.0	2.8	2.7	2.0	4.5	2.2
76	Susceptible Checks	-	-	-	-	-	-	-	-	-	1.3	-
77	RCM 1 & 2	-	-	-	-	-	-	-	-	-	-	2.4
78	Check (Local)	-	-	4.5	-	2.5	-	2.5	-	-	4.8	-

Table: 2(Contd.)

S.NO	Genotypes	BLSB (Disease rating scale 1-5)					SDM	DM	RDM	PFSR (Disease rating scale 1-9)		
		DEL	DHAU	PANT	MID	KAR	(%) MAND	(%) COIM	(%) UDP	LUD	UDP	HYD
1	Meghan-G	2.5	4.0	3.3	2.5	1.8	100.0	78.3	78.0	5.3	5.6	3.4
2	FMH-603	4.0	3.0	4.3	3.5	3.8	100.0	79.0	70.0	4.4	4.8	3.5
3	Rasi-3033	3.5	4.0	2.8	3.0	3.8	100.0	50.0	56.0	4.2	4.6	5.2
4	Rasi-588	3.0	4.0	4.3	2.5	4.3	85.3	40.0	47.0	6.4	5.7	5.3
5	AMH-455	3.5	4.0	4.3	3.5	5.0	100.0	54.6	63.0	5.8	6.5	3.5
6	NMH-1281	3.0	3.0	2.5	3.5	3.0	100.0	26.7	19.0	4.3	6.9	2.3
7	NMH-1276	3.5	4.0	4.0	3.5	3.3	100.0	53.1	54.0	7.1	5.3	5.4
8	Bisco X 2711	3.0	3.0	4.8	3.0	4.5	96.4	58.1	70.0	4.8	3.9	4.6
9	NMH 1588	3.5	4.0	2.8	3.0	4.0	96.9	8.0	19.0	7.4	7.4	5.1
10	TI8334	3.5	4.0	4.5	3.0	4.8	98.2	13.3	38.0	3.6	3.4	5.1
11	IJ8533	2.5	4.0	2.8	3.0	4.0	100.0	26.7	43.0	5.8	5.7	3.5
12	DKC9108	4.5	4.0	5.0	3.5	4.0	100.0	69.6	92.0	8.1	8.2	4.9
13	VAMH 08014	3.5	3.0	4.5	3.5	4.0	100.0	4.0	22.0	6.0	2.8	3.7
14	JKMH 4511	3.0	3.0	3.3	3.0	4.5	67.7	3.0	11.0	7.8	4.5	5.5
15	S6850	3.0	4.0	2.8	2.5	2.8	62.5	6.5	22.0	4.2	3.1	4.9
16	S6790	3.0	4.0	3.0	2.5	4.8	100.0	35.0	0.0	4.9	2.4	5.0
17	BH-411036	3.0	2.5	3.3	2.5	4.5	92.3	27.3	50.0	2.9	3.5	2.6
18	KH - 7647	3.0	4.0	4.8	2.5	4.5	100.0	31.0	57.0	8.1	2.5	5.0
19	KMH-25K45	3.0	4.0	4.3	2.5	4.3	100.0	25.0	62.0	8.3	5.5	3.9
20	KMH-7148	4.0	2.5	4.5	2.5	4.3	100.0	19.3	66.0	4.7	7.9	5.1
21	KMH-3110	4.0	5.0	3.5	3.0	4.0	100.0	39.0	40.0	4.6	5.7	3.4
22	KMH-6681	3.5	4.0	4.3	2.5	4.5	100.0	16.7	36.0	5.5	4.6	4.6
23	QMH-2966	3.0	4.0	4.8	3.5	4.5	100.0	12.5	19.0	4.9	7.4	5.5
24	EHL 111	3.0	3.5	4.3	2.5	5.0	87.8	22.9	39.0	6.5	4.1	5.8
25	EHL 2211	3.0	3.0	4.0	3.0	4.0	100.0	17.2	0.0	3.2	4.8	4.1
26	EHL 2311	3.5	2.5	4.0	3.5	3.8	100.0	5.8	62.0	5.4	2.8	3.4
27	NMH-1277	3.0	3.0	3.3	3.5	2.8	90.6	7.7	3.0	5.0	4.3	5.4

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Table: 2(Contd.)

S.NO	Genotypes	BLSB (Disease rating scale 1-5)					SDM	DM	RDM	PFSR (Disease rating scale 1-9)		
		DEL	DHAU	PANT	MID	KAR	(%) MAND	(%) COIM	(%) UDP	LUD	UDP	HYD
28	DAS MH-302	3.0	4.0	2.8	4.5	2.0	100.0	3.5	0.0	6.3	4.2	5.4
29	PRO 387	3.5	3.0	3.8	4.0	4.8	60.4	7.9	0.0	5.0	2.4	2.8
30	BIO 719	2.5	3.0	2.8	3.5	4.0	100.0	14.6	8.0	3.7	4.5	3.5
31	DAS MH-303	3.5	3.0	4.5	3.0	5.0	100.0	6.8	30.0	4.8	5.7	2.9
32	X35B403	3.0	4.0	3.5	3.5	3.5	73.9	1.9	12.0	3.5	2.3	5.1
33	CMH 10-529	3.0	3.0	3.8	3.0	4.0	100.0	17.1	15.0	3.3	4.9	3.7
34	BAUMH-2011-04	4.0	4.0	4.8	3.5	4.0	100.0	9.4	100.0	9.0	3.9	5.6
35	BAUMH-2011-13	4.0	4.0	4.5	2.5	4.0	100.0	26.7	100.0	7.8	3.8	5.5
36	LTH-21	4.0	4.0	4.0	3.0	3.3	100.0	27.0	81.0	7.3	7.0	4.7
37	CMH 10-473	3.0	4.0	3.0	3.0	2.0	100.0	10.4	22.0	2.6	3.4	2.3
38	X35B410	3.5	4.0	4.3	3.0	4.8	100.0	11.3	32.0	6.1	6.2	3.5
39	REH 2011-03	3.0	4.0	4.3	2.5	4.0	98.2	25.0	72.0	5.8	3.9	2.5
40	EC-3164	4.0	4.0	4.0	3.0	4.5	100.0	29.0	65.0	6.6	3.9	4.2
41	CMH 10-485	3.5	4.0	3.3	3.0	4.0	98.3	57.6	82.0	3.3	2.3	2.6
42	DH-12-01	4.0	5.0	4.8	4.0	4.3	78.6	15.4	67.0	8.0	4.5	5.2
43	CMH 10-486	3.0	4.0	4.5	NG	4.0	97.4	10.0	87.0	5.1	4.2	5.1
44	REH 2011-4	3.5	4.0	4.3	3.5	2.5	100.0	18.8	85.0	4.6	4.7	5.4
45	AH 1209	4.0	4.0	4.3	4.0	4.3	100.0	22.2	96.0	4.0	7.9	5.3
46	AH 1210	4.0	4.0	4.8	4.0	5.0	100.0	40.0	93.0	4.6	8.0	5.2
47	JH 31583	3.5	4.0	4.3	4.0	4.8	100.0	72.1	100.0	5.8	1.2	5.3
48	JH 31598	3.0	4.0	3.8	3.5	2.8	100.0	12.1	30.0	5.1	3.2	3.6
49	JH 31599	2.5	5.0	3.3	4.0	3.3	100.0	15.4	10.0	4.1	1.2	4.7
50	HKH 334	4.0	4.0	4.3	3.0	4.0	100.0	11.6	54.0	4.0	5.7	2.4
51	HKH 335	2.5	4.0	4.8	2.5	3.5	100.0	53.5	92.0	7.8	7.7	4.6
52	HKH 336	3.0	4.0	4.3	3.0	4.0	96.6	36.7	95.0	4.7	7.0	5.1
53	Bio 9637 (Filler )	3.0	4.0	3.8	3.5	4.0	100.0	13.9	37.0	4.5	4.9	4.8
54	HM-4 (Filler)	4.0	4.0	4.8	3.0	3.8	100.0	47.7	100.0	7.3	3.3	5.6
55	FILLER	2.5	4.0	4.0	4.0	4.0	100.0	15.3	64.0	6.5	5.1	6.8
56	MMH 12-4	4.5	4.0	4.8	3.5	3.8	100.0	13.6	86.0	7.2	5.5	2.5

Table: 2(Contd.)

S.NO	Genotypes	BLSB (Disease rating scale 1-5)					SDM	DM	RDM	PFSR (Disease rating scale 1-9)			
		DEL	DHAU	PANT	MID	KAR	(%)	(%)	(%)	MAND	COIM	UDP	LUD
57	MMH 12-5	4.0	4.0	4.0	4.0	2.3	98.7	4.8	24.0	6.5	6.0	3.4	
58	MMH 12-6	3.0	3.0	3.5	3.5	3.5	100.0	11.1	54.0	6.6	8.1	5.6	
59	MMH 12-7	4.0	4.0	5.0	4.0	4.0	100.0	17.4	12.5	6.7	5.7	5.2	
60	MMH 12-8	3.5	4.0	4.5	4.5	3.8	100.0	76.0	72.0	7.7	6.9	3.9	
61	VARANASI H12-1	3.0	4.0	4.0	3.5				47.0		5.8	5.5	
62	DHM 117	3.0	4.0	4.5	4.0	3.8	100.0	5.8	45.0	5.9			
63	QMH-2910	3.5	4.0	4.0	4.0	4.0	98.8	10.3	23.0	3.3	3.3	5.5	
64	BH-411001	4.0	4.0	4.0	4.0	4.5	94.1	8.5	45.0	6.1	6.8	5.1	
65	Safal X-260	3.5	5.0	4.5	3.5	4.5	97.6	8.1	55.0	2.9	2.6	3.0	
66	KNMH 4201	3.5	3.0	3.3	4.0	4.5	97.5	18.6	40.0	7.2	2.9	4.1	
67	KNMH 4202	3.0	4.0	4.5	3.5	4.3	98.8	10.2	19.0	5.6	1.0	4.2	
68	KNMH 4203	3.5	4.0	3.3	3.0	4.0	100.0	23.1	36.0	3.2	3.3	2.1	
69	KNMH 4204	3.0	4.0	4.0	3.0	4.0	97.4	2.2	58.0	6.3	3.6	5.4	
70	KNMH 4205	3.5	4.0	3.0	3.5	4.0	98.7	5.7	52.0	4.9	1.3	2.5	
71	BIO 9637 (C)	3.0	4.0	3.5	3.5	3.8	93.8	34.2	55.0	3.3	2.1	3.1	
72	HM 8 (C)	3.5	4.0	3.0	3.5	4.3	55.0	16.7	67.0	5.5	3.7	5.5	
73	HM 9 (C)	3.5	4.0	3.0	4.0	4.5	100.0	85.7	86.0	7.2	4.3	5.5	
74	HM 10 (C)	3.0	4.0	3.8	3.0	4.3	100.0	40.0	85.0	8.3	2.4	5.0	
75	PMH 4 (C)	3.5	4.0	4.0	2.5	4.0	100.0	10.8	100.0	6.3	7.1	2.8	
76	Susceptible Checks	-	-	4.0	-	-			93.0	5.2	2.9	2.5	
77	RCM 1 & 2	-	-	-	-	-	100.0	100.0	-	-	8.2	-	
78	Check (Local)	3.5	-	3.3	-	-	15.0	0.0	-	-	2.0	-	
							-	-	-	8.3	-	5.8	

Table: 2(Contd.)

S.NO	Genotypes	ESR (%)		P.RUST C.RUST (Disease rating scale 1-5)		CLS	CYST
		DHAU	PANT	MAND	ARB	UDP	Nema# UDP
1	Meghan-G	24.1	8.3	3.0	2.3	4.5	3-9
2	FMH-603	48.0	0.0	2.8	2.1	4.5	9-15
3	Rasi-3033	84.2	0.0	2.0	1.8	4.5	10-17
4	Rasi-588	50.0	16.7	3.8	1.9	4.0	7-13
5	AMH-455	52.9	25.0	3.3	1.5	3.5	14-22
6	NMH-1281	53.1	0.0	3.8	1.3	4.5	18-28
7	NMH-1276	64.5	0.0	3.3	1.1	2.5	17-25
8	Bisco X 2711	64.3	12.5	2.5	1.9	3.0	15-21
9	NMH 1588	53.8	20.0	2.0	2.4	4.5	23-33
10	TI8334	69.0	90.0	2.0	2.7	2.0	19-26
11	IJ8533	58.3	0.0	2.8	2.7	2.5	12-10
12	DKC9108	24.1	58.3	4.8	2.5	4.5	30-38
13	VAMH 08014	27.3	0.0	2.8	2.1	3.5	06-11
14	JKMH 4511	55.2	7.1	2.0	2.0	4.5	07-14
15	S6850	42.9	6.3	3.3	1.5	4.5	12-20
16	S6790	26.7	3.9	2.0	2.0	4.5	15-23
17	BH-411036	54.8	16.7	2.8	1.7	4.5	10-16
18	KH - 7647	90.0	0.0	3.0	1.9	4.5	09-13
19	KMH-25K45	43.8	16.7	2.5	1.9	3.5	30-40
20	KMH-7148	48.1	0.0	4.3	1.8	2.5	21-28
21	KMH-3110	45.8	4.6	2.8	2.3	3.5	30-37
22	KMH-6681	30.0	18.2	2.5	2.5	4.5	15-21
23	QMH-2966	32.1	10.0	3.5	2.3	4.0	22-30
24	EHL 111	36.8	33.3	4.8	2.2	3.0	16-23
25	EHL 2211	36.7	12.5	3.3	1.9	2.5	21-32
26	EHL 2311	48.3	73.2	3.8	1.9	2.0	12-18
27	NMH-1277	57.1	6.3	4.3	2.1	3.0	09-14



Table: 2(Contd.)

S.NO	Genotypes	ESR (%)		P.RUST C.RUST (Disease rating scale 1-5)		CLS	CYST
		DHAU	PANT	MAND	ARB	UDP	UDP
28	DAS MH-302	60.0	17.2	2.8	2.2	3.0	18-26
29	PRO 387	75.0	0.0	2.5	2.3	2.5	28-37
30	BIO 719	74.2	6.3	3.3	1.9	4.5	13-21
31	DAS MH-303	60.7	0.0	2.0	1.5	4.5	27-32
32	X35B403	65.5	0.0	2.0	1.5	4.0	20-29
33	CMH 10-529	59.3	8.3	2.8	1.7	4.5	13-20
34	BAUMH-2011-04	56.0	10.0	4.3	1.9	5.0	41-50
35	BAUMH-2011-13	50.0	0.0	3.8	1.8	5.0	28-33
36	LTH-21	77.4	18.2	3.3	2.0	4.5	35-41
37	CMH 10-473	48.0	15.0	3.3	2.1	4.5	3-9
38	X35B410	34.3	6.3	4.3	2.4	3.0	24-33
39	REH 2011-03	10.7	12.5	2.0	2.4	3.5	10-17
40	EC-3164	37.5	17.2	3.3	2.6	4.0	13-21
41	CMH 10-485	46.1	20.8	2.0	1.9	4.5	2-6
42	DH-12-01	78.3	47.2	3.8	1.8	4.0	9-18
43	CMH 10-486	50.0	90.0	2.5	2.0	4.5	32-43
44	REH 2011-4	50.0	8.3	3.3	2.1	3.0	10--20
45	AH 1209	37.9	18.3	3.5	1.5	4.0	33-40
46	AH 1210	33.3	15.0	4.3	1.8	3.0	30-37
47	JH 31583	61.5	0.0	3.8	2.3	4.0	16-22
48	JH 31598	90.3	0.0	2.8	1.9	3.5	17-25
49	JH 31599	69.0	6.3	3.3	1.6	4.5	13-19
50	HKH 334	36.4	16.7	3.8	1.6	4.5	11--16
51	HKH 335	88.0	4.6	4.5	1.8	4.5	15-23
52	HKH 336	50.0	0.0	2.8	2.0	4.5	12--10
53	Bio 9637 (Filler )	41.7	0.0	2.8	2.0	4.0	12--18
54	HM-4 (Filler)	96.0	12.5	3.8	2.1	5.0	13-22
55	FILLER	28.0	0.0	3.3	2.1	4.5	27-35
56	MMH 12-4	75.9	47.2	3.0	1.7	1.5	43-53

Table: 2(Contd.)

S.NO	Genotypes	ESR (%)		P.RUST C.RUST (Disease rating scale 1-5)		CLS	CYST
		DHAU	PANT	MAND	ARB	UDP	Nema# UDP
57	MMH 12-5	65.2	7.2	3.8	1.7	2.0	22-32
58	MMH 12-6	25.8	0.0	2.5	2.0	2.5	49-61
59	MMH 12-7	22.2	46.4	3.0	1.7	3.0	44-50
60	MMH 12-8	29.6	32.5	2.0	2.3	2.0	43-53
		31.0	15.5			2.0	17-24
61	VARANASI H12-1			3.5	2.3		
62	DHM 117	64.3	0.0	2.0	2.1	3.0	07--14
63	QMH-2910	64.3	10.1	3.3	2.3	2.5	35-43
64	BH-411001	37.0	8.3	3.8	2.5	2.5	06--12
65	Safal X-260	53.8	5.6	4.0	2.4	2.5	10--12
66	KNMH 4201	72.0	77.5	2.8	1.8	2.0	18-22
67	KNMH 4202	65.2	18.8	3.5	1.8	3.0	9--16
68	KNMH 4203	100.0	13.9	3.8	2.0	3.5	23-32
69	KNMH 4204	80.8	0.0	2.8	1.2	2.5	11--19
70	KNMH 4205	88.0	0.0	2.0	1.7	2.0	8--16
71	BIO 9637 (C)	100.0	23.8	2.8	2.1	3.5	13-19
72	HM 8 (C)	65.2	37.5	2.5	2.2	4.0	11--18
73	HM 9 (C)	80.0	18.3	3.8	1.9	4.5	14-23
74	HM 10 (C)	47.6	6.3	2.0	2.0	2.0	33-40
75	PMH 4 (C)	60.0	4.2	2.0	1.9	3.0	4--9
	Susceptible Checks	-	-			5.0	-
76				4.5	3.2		
77	RCM 1 & 2	-	-	1.3	-	1.2	-
78	Check (Local)	-	-	-	-	-	31-37

# range of cyst/plant

**Table: 3****Evaluation of maize genotypes (IET Early Maturity) against various diseases of maize during Kharif 2012 (Trial 63)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)						TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
1	GAWMH-2	2.5	3.0	3.5	2.5	2.0	3.0	2.0	3.0	1.5	4.8	3.3
2	GYH-9842	1.8	3.0	3.5	2.8	2.5	2.5	3.5	3.0	2.5	5.0	3.2
3	KMH-7021	2.0	1.3	2.5	1.8	1.8	1.5	2.5	3.1	1.5	4.3	3.0
4	FH 3605	2.0	1.3	2.5	2.5	1.5	1.5	2.5	3.1	2.0	4.5	2.7
5	FH 3609	1.8	2.0	2.0	3.3	1.5	1.5	1.8	3.0	5.0	4.3	3.4
6	FH 3626	2.0	1.3	2.0	2.3	2.3	1.5	2.0	3.2	1.5	5.0	2.9
7	EH-2223	2.5	2.5	3.0	1.8	2.3	1.5	2.5	3.5	2.5	4.3	3.1
8	EH-2212	2.8	3.0	3.5	2.8	2.8	2.0	2.0	3.1	2.0	4.8	3.3
9	REH 2011-1	2.0	4.0	2.5	2.0	1.5	1.0	2.0	3.0	1.5	3.5	3.1
10	Filler-13	2.0	2.0	3.0	2.0	2.3	1.5	2.0	2.9	1.5	4.8	3.6
11	CMH-10-537	2.0	3.0	2.0	3.0	1.3	1.0	2.5	2.1	2.0	3.5	3.1
12	CMH-10-484	2.0	2.0	2.0	2.3	1.5	1.0	2.0	2.3	1.0	3.3	3.1
13	REH 2011-2	1.8	2.0	2.5	3.0	2.3	1.0	1.8	2.6	2.5	4.3	3.4
14	CMH-10-527	2.0	1.3	2.0	1.8	1.3	1.0	2.0	2.9	2.0	2.0	3.1
15	CMH-10-531	2.3	1.3	2.0	2.5	1.5	1.5	2.3	3.1	2.5	3.5	3.0
16	Filler-12	2.3	2.0	2.5	2.8	2.0	1.5	2.0	3.3	2.0	5.0	2.6
17	BAUMH-2011-07	2.0	2.0	2.0	2.3	2.0	1.5	2.0	3.0	2.5	4.5	2.9
18	BAUMH-2011-05	2.0	4.0	2.5	2.3	2.0	1.0	3.3	3.0	1.5	4.8	3.0
19	BIO 6008	2.3	2.0	3.0	2.5	2.5	1.0	2.0	3.1	2.0	3.3	2.9
20	AH -1205	2.3	3.0	3.5	2.3	1.8	1.0	2.8	2.7	2.0	4.8	3.3
21	AH -1206	2.0	1.3	3.0	1.0	2.0	1.0	2.0	2.6	3.0	4.3	3.3
22	AH -1207	2.0	1.3	2.5	2.5	2.3	1.0	2.0	2.8	2.5	3.8	4.4
23	AH -1208	2.0	1.3	3.5	2.5	2.0	1.5	3.3	2.6	2.5	4.0	4.4
24	JH 31602	2.0	2.0	3.0	2.5	2.0	1.0	2.0	2.9	3.0	4.3	4.1
25	JH 31603	2.3	3.0	3.0	3.3	2.0	1.0	2.0	2.9	3.5	4.8	3.9
26	PRAKASH(Filler)	2.0	1.3	2.5	2.3	1.8	1.5	3.5	2.9	3.5	5.0	4.1

Contd.

Table: 3

S.NO	Genotypes	MLB (Disease rating scale 1-5)						TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND	BAP
27	JH 3459 (Filler)	2.0	1.3	2.5	2.5	1.8	1.5	2.8	2.5	4.5	3.5	4.3
28	HKH 333	2.3	1.3	3.0	1.0	2.3	2.0	1.8	2.5	1.5	3.3	3.2
29	HKH 331	2.0	3.0	2.5	3.0	2.5	2.0	2.0	2.6	1.5	3.5	3.1
30	HKH 332	1.8	3.0	4.0	2.3	1.8	2.5	2.0	3.1	1.5	3.8	3.1
31	JH-3459 (C)	2.0	1.3	2.0	2.8	1.3	1.5	2.8	2.8	3.0	4.5	4.1
32	Prakash (C)	2.0	2.0	3.0	2.5	2.5	3.5	2.5	2.3	3.0	4.5	4.0
33	Susceptible Check	-	-	-	-	-	3.0	-	4.5	4.5	5.0	-
34	Resistant Check	-	-	-	-	-	1.0	-	-	1.0	1.3	-
35	RCM 1 2	-	-	-	-	-	-	-	-	-	-	3.5
36	Check (Local)	-	-	4.5	-	2.3	-	-	-	-	-	-

Contd.

<b>Table: 3</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>			
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>(%)</b>	<b>(%)</b>	<b>(%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>	
							<b>MAND</b>	<b>COIM</b>	<b>UDP</b>				
1	GAWMH-2	4.0	4.0	4.3	5.0	4.5	100.0	60.0	91.0	4.3	5.5	2.5	
2	GYH-9842	4.0	4.0	5.0	5.0	4.5	100.0	78.1	88.0	5.2	7.9	5.0	
3	KMH-7021	4.5	4.0	4.8	5.0	4.0	93.8	20.9	73.0	5.0	2.4	3.4	
4	FH 3605	4.0	4.0	4.5	5.0	5.0	80.7	41.9	40.0	4.7	2.3	3.9	
5	FH 3609	4.0	4.0	4.8	4.0	4.5	88.3	23.1	30.0	5.2	6.3	2.2	
6	FH 3626	4.0	4.0	4.0	4.0	4.5	37.9	61.5	66.0	4.5	5.8	5.3	
7	EH-2223	4.0	5.0	4.5	5.0	4.5	97.4	31.6	85.0	5.4	4.2	3.1	
8	EH-2212	4.0	3.0	4.5	4.5	4.5	95.8	57.5	68.0	7.3	2.9	3.4	
9	REH 2011-1	3.5	3.0	4.3	4.0	4.0	91.8	16.2	50.0	5.3	3.6	2.3	
10	Filler-13	4.5	5.0	5.0	4.0	4.5	91.7	44.7	82.0	4.6	7.0	5.3	
11	CMH-10-537	2.5	4.0	3.3	2.0	4.0	81.7	77.8	23.0	3.2	2.0	2.3	
12	CMH-10-484	3.0	4.0	2.5	2.5	4.5	85.0	0.0	40.0	4.1	2.6	5.0	
13	REH 2011-2	4.0	2.0	3.8	3.5	4.5	92.1	20.6	84.0	3.6	3.3	2.0	
14	CMH-10-527	2.5	3.0	3.3	3.0	4.5	97.2	0.0	11.0	3.9	3.2	2.3	
15	CMH-10-531	3.5	3.0	3.5	4.0	5.0	84.1	30.8	33.0	3.7	1.3	3.0	
16	Filler-12	4.0	4.0	3.8	4.0	5.0	100.0	45.7	83.0	6.0	4.8	5.0	
17	BAUMH-2011-07	3.5	4.0	4.8	2.5	5.0	100.0	72.2	92.0	3.8	5.1	2.5	
18	BAUMH-2011-05	4.0	4.0	5.0	3.0	4.8	100.0	100.0	88.0	5.7	5.5	5.3	
19	BIO 6008	3.0	4.0	4.0	3.0	5.0	79.7	34.4	47.0	3.0	4.1	3.0	
20	AH -1205	4.0	3.0	4.3	3.5	4.5	100.0	63.4	89.0	5.7	5.9	2.6	
21	AH -1206	4.0	3.0	3.5	3.0	4.8	100.0	87.1	95.0	4.5	3.6	5.4	
22	AH -1207	4.0	4.0	3.5	4.0	4.5	100.0	91.2	95.0	4.1	3.9	4.9	
23	AH -1208	4.0	4.0	4.5	3.5	4.3	100.0	100.0	95.0	7.3	3.6	6.7	
24	JH 31602	4.0	4.0	4.8	4.5	4.5	100.0	100.0	100.0	4.9	1.8	5.1	
25	JH 31603	4.0	4.0	4.3	4.5	4.8	100.0	94.3	92.0	4.7	5.3	3.5	
26	PRAKASH(Filler)	4.0	5.0	4.5	3.5	4.5	100.0	73.9	97.0	4.7	6.9	2.8	

Contd.

<b>Table: 3</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>(%)</b>	<b>(%)</b>	<b>(%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
							<b>MAND</b>	<b>COIM</b>	<b>UDP</b>			
27	JH 3459 (Filler)	3.0	5.0	3.0	3.0	5.0	100.0	83.3	93.0	6.3	3.1	2.5
28	HKH 333	2.5	4.0	3.5	3.0	4.5	98.6	78.4	91.0	2.8	3.9	1.9
29	HKH 331	4.0	4.0	4.5	3.5	5.0	100.0	80.0	98.0	4.7	3.5	2.7
30	HKH 332	4.0	4.0	4.5	3.5	4.8	100.0	73.3	100.0	5.2	3.9	2.0
31	JH-3459 (C)	3.5	4.0	4.5	3.5	4.5	100.0	100.0	96.0	4.3	4.1	5.4
32	Prakash (C)	3.5	5.0	4.0	4.5	4.8	100.0	95.7	86.0	4.9	3.4	4.9
33	Susceptible Check	-	-	-	-	-	100.0	100.0	91.0	-	8.4	-
34	Resistant Check	-	-	-	-	-	17.1	-	-	-	1.8	-
35	RCM 1 2	-	-	-	-	-	-	-	-	7.1	-	6.9
36	Check (Local)	4.0	-	-	-	-	-	-	-	-	-	-

Contd.

**Table: 3**

S.NO	Genotypes	ESR (%)		P.RUST (Disease rating scale 1-5)		CYST Nema#
		DHAU	PANT	MAND	ARB	UDP
1	GAWMH-2	12.0	7.2	3.5	1.9	12--18
2	GYH-9842	7.1	10.0	3.8	2.2	33-42
3	KMH-7021	18.2	22.8	2.0	2.7	18-26
4	FH 3605	16.7	12.5	2.8	2.4	10--14
5	FH 3609	31.6	5.6	3.3	2.0	30-38
6	FH 3626	29.6	0.0	3.8	2.3	25-33
7	EH-2223	17.4	32.5	3.5	2.5	13-20
8	EH-2212	11.5	6.3	3.8	1.9	11--16
9	REH 2011-1	37.5	0.0	3.0	2.2	5--8
10	Filler-13	40.7	0.0	3.5	2.0	20-28
11	CMH-10-537	20.0	0.0	2.5	1.1	4--10
12	CMH-10-484	0.0	0.0	2.0	1.6	12--19
13	REH 2011-2	39.5	27.2	3.3	1.9	17-23
14	CMH-10-527	33.3	8.3	2.0	2.2	4--9
15	CMH-10-531	11.1	0.0	2.8	2.3	5--11
16	Filler-12	19.2	5.0	3.8	1.9	18-26
17	BAUMH-2011-07	18.5	8.3	4.0	2.0	21-30
18	BAUMH-2011-05	44.4	0.0	3.8	2.2	14-21
19	BIO 6008	29.2	0.0	2.0	2.2	23-32
20	AH -1205	18.5	0.0	3.3	2.7	24-30
21	AH -1206	18.8	0.0	3.8	2.7	9--14
22	AH -1207	28.0	0.0	3.3	2.5	10--18
23	AH -1208	15.4	0.0	3.5	2.2	25-30
24	JH 31602	21.9	0.0	3.8	2.0	24-34
25	JH 31603	20.7	7.2	3.3	1.5	20-27
26	PRAKASH(Filler)	20.8	0.0	3.8	2.0	28-37

Contd.

<b>Table: 3</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>	<b>CYST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>		<b>(Disease rating scale 1-5)</b>		<b>Nema#</b>
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>	<b>UDP</b>
27	JH 3459 (Filler)	23.1	0.0	3.0	2.0	14-22
28	HKH 333	16.7	0.0	3.3	2.2	11--18
29	HKH 331	36.4	0.0	4.8	2.6	9--15
30	HKH 332	30.4	0.0	3.3	2.3	17-25
31	JH-3459 (C)	26.3	7.2	2.5	2.8	14-23
32	Prakash (C)	21.4	0.0	3.8	2.5	17-28
33	Susceptible Check	-	-	4.5	3.2	-
34	Resistant Check	-	-	1.3	-	-
35	RCM 1 2	-	-	-	-	-
36	Check (Local)	-	-	-	-	28-39

**# range of cyst/plant**



**Table : 4****Evaluation of maize genotypes (IET Extra Early Maturity) against various diseases of maize during Kharif 2012 (Trial 64)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)					
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	BAP	ALM	MAND
1	FH 3583	2.0	1.3	2.5	2.3	1.5	1.0	2.0	3.1	2.3	3.5	4.5
2	FH 3594	2.0	1.3	2.5	1.0	1.5	1.5	2.0	3.2	2.1	2.5	4.5
3	FQH 93	2.3	2.0	3.0	1.8	1.8	1.0	3.3	3.1	2.3	2.0	4.3
4	DH-238	3.3	2.0	2.5	2.0	1.5	2.5	1.8	2.7	2.2	3.5	5.0
5	DH-241	2.3	3.0	3.5	1.8	1.5	2.5	3.8	2.9	2.4	2.5	5.0
6	DH-242	1.8	1.3	2.5	2.3	1.8	2.0	1.8	2.9	2.8	3.0	5.0
7	DH-244	2.5	3.0	3.0	2.0	1.8	2.0	3.5	3.1	2.6	3.0	5.0
8	DH-248	2.0	1.3	3.0	2.0	2.0	1.0	2.0	3.3	2.4	2.0	4.5
9	DH-262	2.0	1.3	3.5	1.0	2.0	1.5	2.5	2.8	2.6	3.0	4.8
10	DH-263	2.0	3.0	2.5	1.8	1.5	1.5	1.8	3.1	2.9	3.0	4.5
11	REH 2011-7	2.3	2.5	3.0	3.0	2.0	1.5	2.5	3.2	3.0	2.0	3.8
12	REH 2011-8	2.0	3.0	2.0	1.0	2.5	1.5	2.5	3.3	2.1	2.5	4.8
13	AH 1201	2.0	2.0	-	1.0	1.5	2.0	2.0	2.7	2.6	2.5	5.0
14	AH 1202	1.8	1.3	3.0	2.0	2.5	1.5	3.0	2.5	2.8	2.0	4.8
15	AH 1203	2.0	3.0	2.5	1.5	2.0	1.5	2.0	2.6	3.2	3.5	4.8
16	AH 1204	2.8	1.3	3.5	1.5	2.5	1.5	1.8	2.7	3.2	4.0	5.0
17	Vivek QPM 9 (C)	2.0	3.0	2.0	1.0	2.0	1.0	2.5	2.9	3.1	2.0	4.8
18	Vivek Hybrid 9 (C)	2.0	-	2.5	1.5	1.5	1.5	2.8	3.1	2.5	2.5	4.3
19	Susceptible Check	-	-	-	-	-	-	-	4.5	-	-	4.8
20	Resistant Check	-	-	-	-	-	-	-	-	-	-	1.3
21	RCM 1 2	-	-	-	-	-	-	-	-	3.0	-	-
22	Check (Local)	-	-	4.5	-	2.3	-	-	-	-	-	-

Contd.

<b>Table : 4</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>MAND (%)</b>	<b>COIM (%)</b>	<b>UDP (%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
1	FH 3583	3.0	4.0	4.3	4.0	4.5	83.8	18.60	22.0	4.6	4.7	3.3
2	FH 3594	4.0	5.0	4.5	4.0	4.8	93.2	39.47	33.0	6.7	5.9	2.9
3	FQH 93	4.0	4.0	4.3	5.0	4.3	100.0	96.00	76.0	6.5	3.2	5.2
4	DH-238	4.5	4.0	4.8	5.0	4.5	98.4	94.44	79.0	7.1	5.9	4.7
5	DH-241	4.0	4.0	4.8	5.0	3.8	100.0	94.44	69.0	5.5	3.9	5.0
6	DH-242	4.5	5.0	4.5	5.0	5.0	100.0	84.09	79.0	5.9	5.0	5.4
7	DH-244	4.0	4.0	5.0	5.0	4.5	100.0	93.33	67.0	6.0	6.3	5.1
8	DH-248	4.0	4.0	4.3	4.0	5.0	100.0	72.34	79.0	4.3	3.6	5.2
9	DH-262	4.0	5.0	4.3	4.0	5.0	100.0	68.75	64.0	6.9	3.1	5.7
10	DH-263	3.5	4.0	5.0	3.5	4.3	100.0	75.00	50.0	5.9	6.3	3.0
11	REH 2011-7	3.0	4.0	4.0	2.5	4.5	96.4	100.00	100.0	4.5	1.4	1.9
12	REH 2011-8	3.5	4.0	5.0	3.0	4.3	100.0	77.78	60.0	5.5	4.2	3.6
13	AH 1201	-	4.0	4.5	3.5	4.5	100.0	70.97	88.0	4.8	5.0	2.8
14	AH 1202	3.5	5.0	4.8	4.0	4.0	100.0	52.50	67.0	5.0	5.8	2.9
15	AH 1203	3.5	4.0	4.8	4.0	4.8	100.0	40.00	75.0	4.4	5.7	5.8
16	AH 1204	4.0	4.0	4.8	4.0	4.0	100.0	77.78	100.0	6.3	5.9	5.4
17	Vivek QPM 9 (C)	5.0	3.0	4.8	4.0	4.8	100.0	27.66	17.0	5.0	7.8	5.0
18	Vivek Hybrid 9 (C)	4.0	5.0	4.5	3.5	4.3	100.0	42.86	40.0	2.6	5.6	3.1
19	Susceptible Check	-	-	-	-	-	100.0	100.00	88.0	-	8.6	-
20	Resistant Check	-	-	-	-	-	12.5	0.00	-	-	1.3	-
21	RCM 1 2	-	-	-	-	-	-	-	-	5.9	-	6.4
22	Check (Local)	4.5	-	-	-	-	-	-	-	-	-	-

Contd.

<b>Table : 4</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>	<b>CYST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>	<b>PANT</b>	<b>(Disease rating scale 1-5)</b>		<b>Nema#</b>
		<b>DHAU</b>		<b>MAND</b>	<b>ARB</b>	<b>UDP</b>
1	FH 3583	61.5	0.0	3.5	2.1	17-26
2	FH 3594	64.7	0.0	4.3	1.7	25-32
3	FQH 93	46.2	6.3	3.5	2.1	14-20
4	DH-238	47.8	0.0	4.3	1.7	21-27
5	DH-241	71.4	0.0	4.8	2.3	22-26
6	DH-242	50.0	0.0	4.0	1.6	24-30
7	DH-244	40.0	0.0	3.8	1.8	25-33
8	DH-248	18.2	8.4	4.0	1.6	18-23
9	DH-262	47.1	16.7	4.0	1.9	10--19
10	DH-263	20.0	10.0	3.8	2.2	8--15
11	REH 2011-7	66.7	0.0	2.0	2.3	12--20
12	REH 2011-8	25.0	0.0	3.3	1.5	3--8
13	AH 1201	28.6	0.0	3.8	1.5	9--18
14	AH 1202	48.0	20.0	3.5	1.7	14-23
15	AH 1203	69.6	0.0	3.3	1.9	20-30
16	AH 1204	72.2	7.2	4.5	2.5	25-33
17	Vivek QPM 9 (C)	81.0	8.4	3.8	2.3	30-36
18	Vivek Hybrid 9 (C)	44.1	0.0	3.8	2.5	23-30
19	Susceptible Check	-	-	4.8	3.2	-
20	Resistant Check	-	-	1.0	-	-
21	RCM 1 2	-	-	-	-	-
22	Check (Local)	-	-	-	-	23-34

**# range of cyst/plant**

Table : 5

**Evaluation of maize genotypes (AET Late Maturity) against various diseases of maize during Kharif 2012 (Trial 75)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND
	<b>AET 1<sup>st</sup> Year</b>										
1	B - 161	2.0	2.0	3.5	1.8	3.3	1.5	2.0	2.9	2.5	4.3
2	B - 54	2.0	2.0	2.0	1.0	3.0	2.0	2.0	2.4	2.5	4.3
3	Bisco 2324 Plus	2.3	2.0	2.0	1.0	2.3	2.0	2.3	2.9	2.0	3.5
4	CMH08-381	2.0	2.0	2.0	1.5	1.8	2.0	2.0	3.0	1.0	4.0
5	CMH08-381(G)	2.0	2.0	2.5	1.0	2.3	1.0	2.0	2.1	1.5	3.3
6	CMH09-464	2.3	2.0	2.0	1.0	3.0	1.0	2.3	1.7	1.5	3.5
7	CMH10-500	2.0	1.3	2.5	1.5	2.0	1.0	2.0	1.3	1.5	4.3
8	CP 333	2.0	2.0	-	2.0	2.5	2.0	2.0	2.1	1.0	2.0
9	DAS-MH-102	2.0	2.0	2.0	1.5	1.8	1.5	2.0	2.2	2.5	3.8
10	DMH 7705	2.0	2.0	3.5	1.0	2.0	1.5	2.0	2.4	2.0	2.0
11	GK 3102	2.0	2.0	2.0	1.0	2.0	1.5	2.0	2.6	1.5	4.0
12	GK 3103	2.0	1.3	3.5	2.0	2.0	1.0	2.0	3.2	1.0	3.8
13	HTMH 5106	1.8	2.0	2.5	1.5	2.5	1.0	2.3	3.0	1.5	2.0
14	HTMH 5402	2.0	1.3	3.0	1.8	2.3	1.0	2.3	3.4	1.5	4.3
15	Laxmi 333 (L 333)	2.0	1.3	2.5	1.5	1.8	1.0	2.0	3.2	2.0	2.5
16	MCH 45	2.0	1.3	2.5	1.0	2.0	1.0	2.0	2.8	1.5	2.0
17	MCH 46	2.0	1.0	2.0	1.0	2.0	1.0	2.0	2.8	1.5	2.0
18	NMH-1247	2.0	2.0	2.5	1.8	2.0	1.5	2.0	3.0	2.0	3.8
19	Orbit	2.3	3.0	2.0	1.0	2.8	1.5	2.5	3.0	1.0	4.5
20	Seed Tech 2324 (Filler)	3.3	2.0	2.5	2.8	3.8	1.0	2.0	3.1	1.0	2.0
21	P4546	2.3	1.0	2.5	1.5	1.8	1.0	2.3	2.8	1.5	2.0
22	PFMH-97 I 57 (AMAR)	2.0	2.0	2.5	1.5	3.0	1.0	2.0	2.7	1.0	2.0
23	PRO-384	2.0	2.0	3.0	1.5	2.3	1.0	2.0	3.2	1.0	2.0
24	PRO-385	1.8	1.0	2.5	1.5	2.3	1.0	1.8	3.7	2.0	4.3
25	S6668	2.0	1.3	2.0	2.3	1.8	1.0	2.0	3.0	2.0	2.5
26	X35A180	2.3	1.3	2.5	1.0	3.0	1.0	2.3	3.1	1.5	2.8

Contd.

**Table : 5**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND
27	X35A187	2.0	3.0	2.0	1.0	2.0	1.0	2.0	2.9	1.5	4.5
	<b>AET2nd Year</b>										
28	A 7501	2.0	2.0	2.5	1.5	3.3	1.0	2.0	3.0	2.0	2.0
29	BIO-562	2.0	2.0	2.0	1.0	2.5	1.5	2.0	2.8	2.5	4.0
30	Bisco New 704	2.5	1.3	2.5	2.3	1.8	1.0	1.8	3.0	1.5	3.3
31	CMH08-287	2.0	3.0	2.0	2.3	2.3	1.0	2.0	1.9	1.5	2.0
32	Orbit (Filler)	2.0	2.0	2.0	1.5	2.0	1.5	2.3	1.8	1.0	2.5
33	M 9977	2.3	1.3	2.0	1.5	2.5	1.0	2.0	2.3	1.5	3.8
34	NMH-713	2.0	1.3	2.5	1.5	3.0	1.5	2.0	2.7	1.5	4.0
35	X35A176	2.0	1.0	2.5	1.8	2.3	1.0	2.3	3.1	1.0	3.8
	<b>Checks</b>										
36	Bio 9681 ( C )	2.3	2.0	2.0	2.0	3.3	1.0	2.3	3.0	1.5	2.5
37	Seed Tech 2324 (Filler)	2.0	2.0	2.0	1.5	2.8	1.5	2.0	2.7	1.5	2.8
38	PMH 1 ( C )	2.0	1.3	2.5	2.5	1.8	2.0	2.0	2.7	1.5	3.3
39	PMH 3 ( C )	2.0	3.0	3.0	1.8	2.3	1.0	2.0	2.9	4.5	2.8
40	Seed Tech 2324 ( C )	2.0	2.0	2.5	2.3	2.8	1.5	3.0	2.5	2.5	4.3
41	Susceptible Check	-	-	4.0	-	-	1.5	-	4.5	4.5	4.8
42	Resistant Check	-	-	-	-	-	1.0	-	-	1.5	1.3
43	KH 9451	-	3.0	-	-	-	-	-	-	-	-
44	Check (Local)	-	3.0	-	-	2.5	-	-	-	-	-

Contd.

S.NO	Genotypes AET 1 <sup>st</sup> Year	BLSB (Disease rating scale 1-5)					SDM	DM	RDM	PFSR (Disease rating scale 1-9)		
		DEL	DHAU	PANT	MID	KAR	(%) MAND	(%) COIM	(%) UDP	LUD	UDP	HYD
1	B - 161	3.5	4.0	4.5	3.5	3.5	88.2	17.86	25.0	5.6	1.3	4.9
2	B - 54	3.0	4.0	4.5	3.5	3.8	95.3	21.74	37.0	4.2	2.0	4.2
3	Bisco 2324 Plus	2.5	4.0	4.0	4.0	4.0	95.2	23.08	37.0	6.0	4.1	4.2
4	CMH08-381	3.0	4.0	4.3	3.5	3.8	91.7	22.22	56.0	4.0	4.0	2.4
5	CMH08-381(G)	3.0	4.0	3.5	4.0	4.5	100.0	43.75	38.0	5.9	3.7	4.1
6	CMH09-464	3.5	4.0	3.8	3.0	4.5	98.1	25.00	33.0	4.7	3.0	5.3
7	CMH10-500	2.5	4.0	3.5	3.5	4.0	96.2	36.00	29.0	5.9	6.4	2.6
8	CP 333	-	4.0	4.5	3.5	4.5	98.6	14.63	43.0	4.6	1.9	3.2
9	DAS-MH-102	3.0	4.0	4.3	3.0	2.0	100.0	14.29	64.0	5.2	8.7	4.0
10	DMH 7705	3.0	4.0	4.3	2.5	1.8	94.6	24.00	0.0	6.7	1.6	5.3
11	GK 3102	1.5	4.0	4.3	4.0	3.0	100.0	48.48	71.0	6.4	8.1	3.6
12	GK 3103	3.5	4.0	4.3	3.0	4.3	100.0	15.00	18.5	8.3	6.7	5.5
13	HTMH 5106	2.0	4.0	3.8	3.0	4.3	70.7	0.00	28.0	4.1	2.4	4.9
14	HTMH 5402	3.0	4.0	4.3	3.0	4.5	71.3	0.00	17.0	5.0	2.8	3.5
15	Laxmi 333 (L 333)	3.0	4.0	4.0	3.0	4.0	98.6	11.54	37.0	3.9	5.1	3.3
16	MCH 45	2.5	4.0	4.3	4.0	4.5	95.0	0.00	13.0	4.4	6.8	5.1
17	MCH 46	2.0	4.0	3.3	4.0	4.8	100.0	7.41	14.0	4.3	3.6	2.3
18	NMH-1247	2.5	4.0	4.5	4.0	5.0	100.0	19.44	18.0	5.8	4.1	5.0
19	Orbit	2.5	4.0	3.5	2.5	4.5	100.0	36.00	25.0	6.4	7.0	5.2
20	Seed Tech 2324 (Filler)	3.0	4.0	4.8	2.5	5.0	98.6	25.00	30.0	6.0	2.9	5.8
21	P4546	3.0	3.0	3.5	2.5	4.5	100.0	8.00	0.0	3.8	3.0	4.2
22	PFMH-97 I 57 (AMAR)	3.0	4.0	4.8	2.5	4.3	100.0	11.90	43.0	6.7	8.2	4.1
23	PRO-384	3.0	4.0	3.8	3.5	3.3	100.0	6.67	69.0	5.1	3.5	5.1
24	PRO-385	3.0	4.0	3.5	3.5	4.3	100.0	61.76	65.0	3.9	5.2	5.7
25	S6668	3.0	4.0	3.5	2.5	3.5	80.4	15.56	14.0	3.4	1.0	2.4
26	X35A180	2.5	4.0	4.8	3.0	2.5	100.0	47.83	100.0	4.6	7.2	4.8

Contd.

<b>Table : 5</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>(%)</b>	<b>(%)</b>	<b>(%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
27	X35A187	3.0	4.0	4.5	3.5	4.3	100.0	25.00	63.0	5.2	3.9	5.2
	<b>AET2nd Year</b>											
28	A 7501	2.0	4.0	4.0	2.5	1.8	63.6	7.32	37.0	3.5	5.6	3.3
29	BIO-562	2.5	4.0	4.0	2.5	3.8	100.0	27.03	76.0	3.9	6.9	3.6
30	Bisco New 704	2.5	4.0	4.3	4.0	4.0	100.0	19.23	78.0	4.9	6.4	4.8
31	CMH08-287	3.0	4.0	3.8	2.5	5.0	100.0	40.91	54.0	4.6	3.7	3.6
32	Orbit (Filler)	3.0	4.0	3.5	2.5	4.5	100.0	46.34	40.0	5.7	7.6	4.3
33	M 9977	3.0	3.0	4.0	3.0	4.0	100.0	69.05	68.0	5.5	3.0	4.3
34	NMH-713	3.0	4.0	4.5	3.0	4.5	100.0	57.89	54.0	6.1	8.3	2.6
35	X35A176	3.0	4.0	4.0	4.0	4.0	100.0	37.04	50.0	3.9	4.3	5.1
	<b>Checks</b>											
36	Bio 9681 ( C )	3.0	4.0	4.5	4.0	4.5	97.6	35.48	45.0	7.5	3.2	5.2
37	Seed Tech 2324 (Filler)	3.0	4.0	5.0	4.0	4.0	94.0	46.34	70.0	4.9	3.2	6.2
38	PMH 1 ( C )	3.0	3.0	4.5	4.0	4.3	80.0	22.50	49.0	3.1	6.1	4.2
39	PMH 3 ( C )	3.0	4.0	3.8	4.0	4.0	100.0	57.58	69.0	2.7	3.3	4.1
40	Seed Tech 2324 ( C )	3.0	4.0	4.5	4.0	4.5	98.6	50.00	57.0	3.4	4.4	5.9
41	Susceptible Check	3.0	-	-	-	-	100.0	100.00	-	-	7.6	-
42	Resistant Check	-	-	-	-	-	17.1	0.00	-	-	1.8	-
43	KH 9451	-	3.0	-	-	-	-	-	-	-	-	-
44	Check (Local)	3.0	3.0	-	-	-	-	-	-	8.6	-	4.4

Contd.

<b>Table : 5</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>		<b>(Disease rating scale 1-5)</b>	
	<b>AET 1<sup>st</sup> Year</b>	<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>
1	B - 161	11.8	18.1	3.8	2.6
2	B - 54	8.3	37.5	2.8	2.8
3	Bisco 2324 Plus	18.8	25.0	3.0	2.5
4	CMH08-381	10.1	38.1	4.5	2.2
5	CMH08-381(G)	13.8	45.0	4.5	2.9
6	CMH09-464	16.7	64.4	4.0	2.8
7	CMH10-500	21.4	12.5	3.8	2.5
8	CP 333	23.1	21.7	1.8	2.6
9	DAS-MH-102	22.2	53.6	1.5	2.8
10	DMH 7705	23.3	0.0	4.3	2.3
11	GK 3102	29.4	8.7	3.3	2.6
12	GK 3103	30.3	0.0	3.3	1.7
13	HTMH 5106	21.1	6.3	1.8	2.2
14	HTMH 5402	24.3	19.8	3.8	1.8
15	Laxmi 333 (L 333)	33.3	47.7	3.8	1.6
16	MCH 45	14.3	0.0	1.8	1.9
17	MCH 46	28.9	15.4	2.0	2.6
18	NMH-1247	23.0	21.1	1.8	2.6
19	Orbit	16.2	55.0	3.8	2.5
20	Seed Tech 2324 (Filler)	24.1	50.0	1.8	2.2
21	P4546	16.1	15.0	1.8	2.3
22	PFMH-97 I 57 (AMAR)	25.0	8.1	1.8	2.7
23	PRO-384	33.3	47.2	3.8	1.9
24	PRO-385	23.1	70.8	3.5	2.1
25	S6668	25.0	50.0	3.8	2.3
26	X35A180	29.4	35.0	4.5	2.5

Contd.



<b>Table : 5</b>		<b>ESR</b>	<b>P.RUST</b>		<b>C.RUST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>	<b>(Disease rating scale 1-5)</b>		
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>
27	X35A187	50.0	12.5	2.0	2.4
	<b>AET2nd Year</b>				
28	A 7501	34.4	0.0	4.3	2.3
29	BIO-562	20.7	0.0	2.8	2.6
30	Bisco New 704	46.9	15.7	3.3	2.1
31	CMH08-287	34.6	51.7	2.0	2.0
32	Orbit (Filler)	21.6	7.2	3.8	2.5
33	M 9977	40.9	15.5	3.3	2.1
34	NMH-713	20.0	55.0	1.5	1.9
35	X35A176	13.3	6.3	4.3	1.8
	<b>Checks</b>				
36	Bio 9681 ( C )	36.8	31.7	3.5	2.1
37	Seed Tech 2324 (Filler)	77.8	56.3	3.8	2.5
38	PMH 1 ( C )	40.0	4.2	4.5	2.7
39	PMH 3 ( C )	51.7	5.6	2.5	2.1
40	Seed Tech 2324 ( C )	64.0	28.3	3.5	2.0
41	Susceptible Check	-	-	4.5	3.2
42	Resistant Check	-	-	1.3	-
43	KH 9451	35.7	-	-	-
44	Check (Local)	21.1	-	-	-

**Table : 6**  
**Evaluation of maize genotypes (AET Medium Maturity) against various diseases of maize during Kharif 2012 (Trial 76)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND
<b>AET 1st YEAR</b>											
1	B 53	1.8	3.0	2.0	1.8	2.0	1.0	1.8	3.1	2.0	3.3
2	EHL 161708 (Hyb)	2.0	2.0	2.5	2.0	2.3	1.0	2.0	2.7	2.0	3.3
3	JH 31470	2.0	3.0	3.0	1.8	2.0	1.0	2.0	2.6	2.5	3.8
4	JH 31522	2.3	2.0	2.0	1.8	2.0	1.5	2.3	2.7	1.5	4.3
5	MCH 47	2.0	3.0	2.5	1.8	2.0	1.5	2.0	3.0	2.0	2.8
6	PRO-383	2.0	3.0	2.5	1.5	1.5	1.5	2.5	2.7	1.5	2.0
7	X35A189	2.0	1.3	2.0	2.3	2.3	1.5	2.8	1.7	1.5	3.8
8	X35A194	2.0	2.0	2.5	1.8	1.8	2.0	3.0	2.1	2.0	4.5
<b>AET 2nd YEAR</b>											
9	B 63	2.0	2.0	2.5	1.0	2.0	1.5	2.0	2.0	1.5	3.3
10	BH41009	2.8	2.0	3.5	2.3	2.0	2.0	2.0	1.8	1.0	3.3
11	BIO 151	2.3	2.0	2.0	1.8	1.5	2.0	2.0	2.8	1.5	2.8
12	BIO-688	2.0	2.0	3.0	1.0	2.8	2.5	2.5	2.7	2.0	4.3
13	Bisco 2668	2.5	1.3	3.5	2.5	2.5	2.5	2.5	2.6	2.0	3.8
14	CMH08-292	2.0	2.0	2.0	1.8	1.5	1.0	2.3	3.0	1.5	3.5
15	CMH08-350	2.0	2.0	2.0	1.5	1.5	1.0	2.0	2.9	1.5	1.5
16	CMH08-433	2.0	2.0	2.0	1.0	1.8	1.0	2.3	2.9	1.5	4.3
17	EC-3161	2.3	2.0	2.5	1.0	2.8	2.0	2.0	2.8	2.0	4.0
18	IMH-666	2.0	4.0	3.0	1.0	2.5	1.5	2.5	3.3	1.5	2.8
19	JH 31404	1.8	3.0	2.5	1.5	2.3	1.5	2.0	3.4	2.0	4.5
20	JKMH-7004	2.8	3.0	3.5	1.0	2.5	1.5	2.3	3.0	2.5	2.5
21	KDMH 176	2.0	1.3	2.5	1.0	2.3	1.5	2.0	2.8	1.5	4.3
22	KNMH401061	1.8	3.0	2.0	1.5	1.5	1.5	1.8	2.9	1.0	3.3
23	NMH-1242	2.0	3.0	2.5	2.5	2.0	1.5	2.0	2.6	1.5	2.0

Contd.

**Table : 6**

S.NO	Genotypes	MLB (Disease rating scale 1-5)						TLB (Disease rating scale 1-5)			
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND
24	P3396	2.0	2.0	3.5	2.3	2.0	2.0	2.0	3.2	1.5	3.8
25	PFMH-96 I 41	2.3	3.0	2.0	1.0	2.0	2.0	2.3	3.4	2.5	3.5
26	PFMH-96 N 46	2.0	2.0	2.5	1.8	2.5	1.0	2.0	3.4	1.5	4.3
27	S6217	2.0	2.0	2.5	2.8	1.8	1.0	2.0	3.2	1.5	2.0
28	S6304	2.0	2.0	2.5	1.0	2.3	2.0	2.0	3.0	2.0	3.8
29	TITAN	1.8	3.0	3.5	1.8	3.0	2.0	1.8	2.8	1.5	3.5
30	VMH 4106	2.0	1.3	2.0	1.5	1.5	1.0	2.0	2.1	1.0	2.0
31	X35A173	2.0	2.0	3.0	2.8	2.3	1.0	2.0	2.0	1.5	2.0
32	X35A174	2.3	1.5	2.0	2.5	1.8	2.0	2.3	2.9	1.0	4.3
33	YUVRAJ GOLD	2.0	2.0	3.0	1.5	2.5	2.5	2.0	3.1	2.5	4.3
<b>CHECKS</b>											
34	BIO 9637 (C )	2.0	2.0	2.0	1.8	1.8	1.0	2.0	2.6	1.0	2.0
35	Bio 9637 (Filler)	1.8	2.0	2.0	2.3	1.8	1.0	2.3	2.6	1.0	3.8
36	Bio 9681 (Filler)	2.0	1.3	2.5	2.3	2.3	1.0	2.0	2.8	1.5	4.5
37	Bio 9637 (Filler)	2.0	2.0	2.0	2.3	1.3	1.0	2.0	3.0	1.5	2.5
38	PMH 4 ( C )	2.0	1.3	2.0	2.8	2.3	1.0	2.5	2.3	2.0	4.8
39	Susceptible Check	-	-	-	-	-	3.0	-	4.5	4.5	5.0
40	Resistant Check	-	-	-	-	-	1.0	-	-	1.0	1.3
41	KH 9451	-	3.0	-	-	-	-	-	-	-	-
42	Check (Local)	-	2.0	4.5	-	2.3	-	-	-	-	-

Contd.

<b>Table : 6</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>MAND</b>	<b>COIM</b>	<b>UDP</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
<b>AET 1st YEAR</b>												
1	B 53	3.0	3.0	3.5	4.0	4.5	100.0	14.8	52.0	3.1	3.6	2.9
2	EHL 161708 (Hyb)	2.5	2.0	3.8	5.0	4.0	100.0	27.8	64.0	6.4	2.8	4.8
3	JH 31470	2.5	3.0	2.8	5.0	4.5	100.0	38.5	91.0	3.8	1.6	2.6
4	JH 31522	2.5	2.0	3.3	3.5	4.0	97.6	25.0	24.0	6.3	1.5	3.1
5	MCH 47	2.5	3.0	2.5	4.0	4.3	94.0	10.5	26.0	3.5	1.0	3.1
6	PRO-383	3.0	3.0	3.8	3.5	4.0	80.0	0.0	36.0	5.3	5.2	5.6
7	X35A189	2.0	1.3	3.5	3.5	4.0	100.0	21.2	61.0	6.7	5.5	2.6
8	X35A194	2.5	2.0	3.8	3.5	4.5	98.6	18.8	27.0	6.5	3.5	-
<b>AET 2nd YEAR</b>												
9	B 63	2.0	2.0	3.3	4.0	4.0	17.1	3.1	16.0	5.0	2.5	2.5
10	BH41009	3.0	2.0	3.3	3.0	4.3	100.0	23.8	55.0	6.2	4.8	3.3
11	BIO 151	2.0	2.0	3.5	3.0	4.0	95.3	0.0	9.0	4.5	2.1	5.8
12	BIO-688	3.0	2.0	3.3	4.0	4.3	100.0	33.3	31.0	4.0	4.2	2.6
13	Bisco 2668	3.5	1.3	3.8	3.5	3.5	100.0	12.5	31.0	4.6	3.9	3.4
14	CMH08-292	2.5	2.0	3.3	3.5	4.5	82.6	21.1	0.0	3.8	1.2	2.5
15	CMH08-350	3.0	2.0	4.0	4.0	4.5	88.5	2.9	0.0	3.4	2.9	5.0
16	CMH08-433	2.5	2.0	4.0	4.0	4.5	100.0	23.3	0.0	3.3	6.9	5.2
17	EC-3161	3.5	2.0	3.8	4.0	4.5	100.0	45.8	12.0	5.9	2.9	5.7
18	IMH-666	3.0	4.0	3.3	3.5	5.0	100.0	17.2	61.0	3.0	5.1	3.0
19	JH 31404	3.0	3.0	4.0	3.5	3.8	90.0	37.9	52.0	4.8	3.1	5.0
20	JKMH-7004	3.5	3.0	3.8	4.5	4.0	100.0	18.2	56.0	7.6	1.8	5.2
21	KDMH 176	2.5	1.3	3.3	4.5	4.0	60.8	7.1	50.0	5.6	7.5	5.7
22	KNMH401061	2.0	3.0	3.0	4.0	4.0	100.0	0.0	0.0	5.4	1.5	2.4
23	NMH-1242	3.0	3.0	4.0	4.0	4.0	100.0	38.2	78.0	4.8	6.3	2.6

Contd.

<b>Table : 6</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>			
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>MAND</b>	<b>COIM</b>	<b>UDP</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>	
24	P3396	3.0	2.0	3.8	3.0	4.5	65.4	39.4	100.0	6.0	6.2	3.8	
25	PFMH-96 I 41	3.5	3.0	4.5	4.0	4.0	72.2	42.9	68.0	7.7	5.1	3.4	
26	PFMH-96 N 46	3.0	2.0	4.0	2.5	4.3	94.0	51.9	94.0	5.3	7.8	5.8	
27	S6217	2.0	2.0	3.8	3.5	4.3	96.7	6.7	0.0	4.7	1.9	5.1	
28	S6304	2.5	2.0	3.5	3.5	4.0	98.3	2.9	50.0	4.1	5.4	5.3	
29	TITAN	3.0	3.0	4.0	3.0	4.3	100.0	12.1	100.0	6.7	6.0	4.3	
30	VMH 4106	2.5	1.3	3.3	4.0	4.0	100.0	5.6	31.0	7.0	8.7	5.2	
31	X35A173	2.5	2.0	3.8	4.0	4.3	100.0	47.8	90.0	6.0	4.7	2.5	
32	X35A174	2.5	1.3	3.5	4.0	4.0	100.0	17.7	48.0	5.0	2.9	5.2	
33	YUVRAJ GOLD	3.5	4.0	4.3	3.5	4.0	100.0	9.1	100.0	6.3	3.1	5.0	
<b>CHECKS</b>													
34	BIO 9637 (C )	2.5	3.0	4.3	4.0	4.5	95.0	20.0	53.0	5.0	1.9	5.2	
35	Bio 9637 (Filler)	2.5	3.0	3.5	4.5	4.0	90.0	40.5	48.0	5.8	3.3	5.3	
36	Bio 9681 (Filler)	3.0	4.0	3.8	4.5	4.5	100.0	22.6	46.0	6.0	1.4	2.7	
37	Bio 9637 (Filler)	2.5	4.0	3.8	4.5	4.0	100.0	25.8	11.0	6.0	1.2	4.2	
38	PMH 4 ( C )	3.5	3.0	4.5	4.5	5.0	100.0	55.6	96.0	5.9	1.3	5.2	
39	Susceptible Check	-	4.0	-	-	-	10.75	100.0	-	-	8.6	-	
40	Resistant Check	-	-	-	-	-	100	0.0	-	-	1.9	-	
41	KH 9451	-	-	-	-	-	-	-	-	-	-	-	
42	Check (Local)	3.5	4.0	-	-	-	-	-	-	7.3	-	-	

Contd.

<b>Table : 6</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>	<b>PANT</b>	<b>(Disease rating scale 1-5)</b>	
	<b>AET 1st YEAR</b>	<b>DHAU</b>		<b>MAND</b>	<b>ARB</b>
1	B 53	37.5	12.7	2.0	1.9
2	EHL 161708 (Hyb)	16.3	18.2	4.0	2.1
3	JH 31470	53.3	26.6	3.8	2.2
4	JH 31522	56.0	12.5	2.8	2.1
5	MCH 47	25.0	29.6	3.3	1.7
6	PRO-383	48.1	25.6	1.8	1.1
7	X35A189	81.0	22.4	3.8	1.7
8	X35A194	40.9	5.0	3.8	2.1
	<b>AET 2nd YEAR</b>				
9	B 63	20.6	16.3	4.3	2.1
10	BH41009	60.0	20.5	3.8	2.0
11	BIO 151	22.6	10.7	3.0	2.3
12	BIO-688	31.3	0.0	4.3	2.6
13	Bisco 2668	35.5	35.0	2.8	2.4
14	CMH08-292	44.4	30.7	3.3	2.6
15	CMH08-350	66.7	41.4	2.0	1.7
16	CMH08-433	46.9	27.5	3.5	1.8
17	EC-3161	54.2	50.0	3.8	2.1
18	IMH-666	55.6	93.8	2.0	2.4
19	JH 31404	46.2	26.8	3.8	2.5
20	JKMH-7004	60.0	25.8	3.3	2.7
21	KDMH 176	54.8	0.0	4.0	2.3
22	KNMH401061	53.8	0.0	2.0	2.2
23	NMH-1242	25.9	3.6	3.8	2.0

Contd.

<b>Table : 6</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>		<b>(Disease rating scale 1-5)</b>	
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>
24	P3396	17.9	16.7	4.5	1.9
25	PFMH-96 I 41	42.4	52.1	3.0	2.1
26	PFMH-96 N 46	32.1	15.6	3.8	2.0
27	S6217	45.8	41.9	2.0	2.4
28	S6304	51.7	45.8	3.8	1.7
29	TITAN	56.0	16.7	3.5	1.3
30	VMH 4106	50.0	47.2	2.0	1.9
31	X35A173	50.0	18.8	4.3	2.1
32	X35A174	64.3	21.7	3.3	2.3
33	YUVRAJ GOLD	75.0	90.0	4.3	2.1
	<b>CHECKS</b>				
34	BIO 9637 ( C )	78.6	22.2	2.0	2.2
35	Bio 9637 (Filler)	76.7	24.3	2.8	2.0
36	Bio 9681 (Filler)	51.5	38.9	4.3	1.7
37	Bio 9637 (Filler)	24.3	14.1	3.0	1.8
38	PMH 4 ( C )	29.0	6.3	3.8	2.2
39	Susceptible Check	-	-	4.8	3.2
40	Resistant Check	-	-	1.3	-
41	KH 9451	20.0	-	-	-
42	Check (Local)	38.7	-	-	-

Table : 7

**Evaluation of maize genotypes (AET Early Maturity) against various diseases of maize during Kharif 2012 (Trial 77)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND
<b>AET 1st Year</b>											
1	JH 31485	2.0	2.0	3.0	2.8	3.0	1.0	2.0	2.3	3.5	4.3
2	DAS-MH-501	2.0	3.0	3.0	1.8	2.8	2.5	2.0	2.6	1.5	3.8
3	Bisco 2238	2.5	3.0	3.5	3.0	3.3	2.5	1.8	2.5	2.0	3.5
4	K 21	2.5	3.0	3.0	2.5	2.3	1.5	2.0	1.9	1.5	4.3
5	FH 3548	2.0	2.0	2.0	2.3	3.3	1.5	2.0	2.4	1.5	3.5
6	CMH10-525	2.0	1.3	2.0	2.8	2.0	1.5	2.3	2.6	1.5	2.0
<b>AET 2nd Year</b>											
7	31Y45	2.5	3.0	3.0	2.5	3.0	1.0	3.8	1.9	3.5	5.0
8	FH 3513	2.0	1.3	2.5	2.0	1.5	2.0	2.3	1.5	2.0	3.8
9	HKH-317	3.3	3.0	3.5	3.0	4.0	2.5	2.0	1.7	2.5	2.5
10	KDMH 755	2.0	2.0	2.5	2.5	2.0	1.5	2.0	1.9	2.5	3.8
11	REH 2009-12	2.0	3.0	2.0	2.5	2.0	1.5	1.8	2.7	1.0	2.0
12	SUN VAAMAN	2.0	3.0	2.0	2.0	2.0	1.5	2.0	3.1	2.0	2.8
13	JH 3459 (Filler)	1.8	1.3	2.0	1.8	2.0	1.5	2.0	2.8	3.0	3.8
<b>CHECKS</b>											
14	Prakash ( C )	2.5	3.0	3.0	2.3	2.5	1.5	1.8	2.5	3.5	4.5
15	JH 3459( C )	1.8	1.3	2.0	2.8	1.5	1.5	2.5	2.4	3.5	4.3
16	Susceptible Check	-	-	-	-	-	3.5	-	4.5	4.5	4.8
17	Resistant Check	-	-	-	-	-	1.0	-	-	2.0	1.8
18	Check (Local)	-	-	5.0	-	2.5	-	-	-	-	-

Contd.



<b>Table :7</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>MAND</b>	<b>COIM</b>	<b>UDP</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
<b>AET 1st Year</b>												
1	JH 31485	3.0	4.0	3.8	5.0	4.5	100.0	55.56	100.0	5.4	5.2	5.3
2	DAS-MH-501	3.5	4.0	4.5	4.5	4.3	100.0	56.25	95.0	5.6	2.7	2.3
3	Bisco 2238	3.5	3.0	4.5	5.0	3.8	100.0	33.33	52.0	6.9	2.9	5.1
4	K 21	3.5	3.0	4.0	4.0	4.3	100.0	60.00	39.0	7.3	1.9	5.7
5	FH 3548	4.0	4.0	3.8	5.0	5.0	100.0	4.17	16.0	6.3	7.3	5.3
6	CMH10-525	2.5	4.0	3.0	4.0	4.5	100.0	50.00	36.0	3.2	2.8	2.1
<b>AET 2nd Year</b>												
7	31Y45	3.0	4.0	3.8	3.5	3.8	100.0	86.67	100.0	5.3	6.3	4.8
8	FH 3513	3.5	4.0	4.8	4.5	4.5	100.0	6.25	3.0	6.1	2.5	3.9
9	HKH-317	3.0	4.0	3.3	4.0	4.5	100.0	0.00	93.0	6.1	1.5	2.6
10	KDMH 755	2.5	4.0	3.3	4.5	4.5	75.0	0.00	0.0	5.2	1.8	3.3
11	REH 2009-12	3.0	3.0	3.8	4.5	4.5	95.0	30.00	31.0	4.6	3.9	2.3
12	SUN VAAMAN	3.0	4.0	4.3	5.0	2.8	100.0	31.82	29.0	3.9	5.0	6.2
13	JH 3459 (Filler)	3.0	4.0	3.8	5.0	4.3	100.0	100.00	82.0	6.2	1.9	5.8
<b>CHECKS</b>												
14	Prakash ( C )	3.5	4.0	4.3	4.5	4.5	100.0	94.44	83.0	4.5	5.1	4.2
15	JH 3459( C )	3.0	4.0	4.0	4.0	4.5	100.0	77.78	24.0	6.0	1.3	2.6
16	Susceptible Check	-	-	-	-	-	100.0	95.25	89.0	-	7.6	-
17	Resistant Check	-	-	-	-	-	13.8	0.00	-	-	1.1	-
18	Check (Local)	4.0	-	-	-	-	-	-	-	6.1	-	-

Contd.

<b>Table :7</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>	<b>PANT</b>	<b>(Disease rating scale 1-5)</b>	
		<b>DHAU</b>		<b>MAND</b>	<b>ARB</b>
<b>AET 1st Year</b>					
1	JH 31485	25.0	4.6	4.0	2.0
2	DAS-MH-501	11.4	29.1	3.5	1.8
3	Bisco 2238	34.3	16.7	4.3	2.1
4	K 21	32.4	0.0	3.8	2.2
5	FH 3548	48.3	41.7	3.8	2.1
6	CMH10-525	36.0	0.0	2.0	1.5
<b>AET 2nd Year</b>					
7	31Y45	20.0	87.5	4.5	1.9
8	FH 3513	44.0	70.7	2.0	2.0
9	HKH-317	48.4	5.0	4.3	2.1
10	KDMH 755	38.9	65.0	2.3	1.9
11	REH 2009-12	37.9	29.5	2.0	1.5
12	SUN VAAMAN	29.0	87.5	3.8	1.6
13	JH 3459 (Filler)	37.1	30.3	4.3	1.9
<b>CHECKS</b>					
14	Prakash ( C )	50.0	22.5	3.8	1.7
15	JH 3459( C )	14.3	14.7	2.5	1.9
16	Susceptible Check	-	-	4.5	3.2
17	Resistant Check	-	-	1.5	-
18	Check (Local)	-	-	-	-

Table : 8

**Evaluation of maize genotypes (AET Extra Early Maturity) against various diseases of maize during Kharif 2012 (Trial 78)**

S.NO	Genotypes	MLB (Disease rating scale 1-5)					TLB (Disease rating scale 1-5)				
		BAJ	DHAU	DEL	KAR	LUD	ALM	BAJ	ARB	ALM	MAND
<b>AET 1st Year</b>											
1	DH-230	1.8	3.0	3.0	2.8	2.3	2.5	2.5	3.1	2.5	4.3
2	FH 3554	2.5	2.0	3.0	2.0	2.0	1.5	2.0	2.7	3.0	3.8
3	FH 3555	2.0	1.3	2.5	3.0	1.5	1.0	2.5	2.6	1.0	2.0
4	FH 3556	2.3	2.0	2.5	2.5	1.5	1.0	2.0	2.8	1.5	3.8
5	FH 3558	2.0	2.0	2.0	1.8	1.8	1.0	3.0	2.6	3.0	5.0
6	K 75	3.3	2.0	3.5	1.8	2.3	1.5	2.0	3.1	3.0	4.5
<b>AET 2nd Year</b>											
7	FH 3510	2.0	3.0	2.5	1.8	1.3	1.0	2.0	3.1	1.5	3.3
8	FH 3525	2.0	1.3	2.0	2.5	1.3	2.0	2.0	3.0	2.0	3.3
9	Vivek Hybrid 9 (Filler)	2.5	2.0	2.0	2.5	1.3	1.5	3.3	3.0	2.5	4.0
<b>CHECKS</b>											
10	Vivek Hybrid 9 ( C )	2.8	3.0	2.5	3.3	1.5	1.0	2.3	2.0	1.5	3.8
11	Vivek QPM 9 ( C )	2.3	2.0	2.0	1.8	1.5	1.0	2.0	2.9	1.5	4.3
12	Susceptible Check	-	-	-	-	-	3.5	-	4.5	4.5	4.8
13	Resistant Check	-	-	-	-	-	1.5	-	-	2.0	1.5
14	Check (Local)	-	-	4.5	-	2.0	-	-	-	-	-

Contd.

<b>Table : 8</b>		<b>BLSB (Disease rating scale 1-5)</b>					<b>SDM</b>	<b>DM</b>	<b>RDM</b>	<b>PFSR (Disease rating scale 1-9)</b>		
<b>S.NO</b>	<b>Genotypes</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MID</b>	<b>KAR</b>	<b>(%)</b>	<b>(%)</b>	<b>(%)</b>	<b>LUD</b>	<b>UDP</b>	<b>HYD</b>
<b>AET 1st Year</b>												
1	DH-230	3.0	4.0	4.0	5.0	4.3	100.0	71.43	59.0	6.7	4.4	6.1
2	FH 3554	3.5	4.0	3.8	5.0	3.3	98.4	100.00	13.0	5.2	4.7	6.1
3	FH 3555	3.5	4.0	3.5	5.0	4.0	100.0	45.00	22.0	4.8	3.3	5.1
4	FH 3556	3.0	4.0	3.5	4.5	5.0	100.0	64.71	0.0	3.2	2.2	6.2
5	FH 3558	3.0	4.0	5.0	5.0	4.5	100.0	88.46	72.0	4.4	5.7	4.2
6	K 75	3.5	4.0	4.5	5.0	4.3	100.0	95.65	92.0	5.5	1.6	5.8
<b>AET 2nd Year</b>												
7	FH 3510	3.0	4.0	5.0	5.0	4.0	100.0	11.11	15.0	7.5	1.7	4.5
8	FH 3525	2.5	4.0	4.8	4.5	4.8	100.0	85.71	67.0	4.6	3.9	4.9
9	Vivek Hybrid 9 (Filler)	4.0	4.0	4.3	5.0	5.0	100.0	76.19	79.0	3.3	5.0	6.1
<b>CHECKS</b>												
10	Vivek Hybrid 9 ( C )	4.0	4.0	5.0	5.0	4.3	94.1	29.41	82.0	3.4	7.7	4.6
11	Vivek QPM 9 ( C )	3.5	4.0	4.0	5.0	4.0	100.0	28.57	78.0	6.2	6.2	5.5
12	Susceptible Check	-	-	-	-	-	100.0	100.00	94.0	-	8.6	-
13	Resistant Check	-	-	-	-	-	14.2	0.00	-	-	1.6	-
14	Check (Local)	4.0	-	-	-	-	-	-	-	6.6	-	5.8

Contd.

<b>Table : 8</b>		<b>ESR</b>		<b>P.RUST</b>	<b>C.RUST</b>
<b>S.NO</b>	<b>Genotypes</b>	<b>(%)</b>		<b>(Disease rating scale 1-5)</b>	
		<b>DHAU</b>	<b>PANT</b>	<b>MAND</b>	<b>ARB</b>
<b>AET 1st Year</b>					
1	DH-230	21.9	28.3	4.3	1.7
2	FH 3554	28.9	26.7	3.3	1.8
3	FH 3555	42.9	38.6	2.0	1.9
4	FH 3556	59.3	20.2	2.5	1.5
5	FH 3558	24.0	38.8	4.3	1.4
6	K 75	25.9	29.8	3.0	1.5
<b>AET 2nd Year</b>					
7	FH 3510	34.4	23.8	4.5	1.6
8	FH 3525	48.3	61.1	3.5	2.1
9	Vivek Hybrid 9 (Filler)	68.0	12.5	2.0	2.0
<b>CHECKS</b>					
10	Vivek Hybrid 9 ( C )	30.0	12.5	4.3	1.9
11	Vivek QPM 9 ( C )	37.1	12.5	3.8	2.1
12	Susceptible Check	-	-	5.0	3.2
13	Resistant Check	-	-	1.5	-
14	Check (Local)	-	-	-	-

**\* MID- MIDNAPUR (WB)VC, STARTED IN 2012**

Abbrivation used:

BAJ -	Bajaura	KAR -	Karnal	LUD -	Ludhiana	BAP -	Barapani
DEL -	Delhi	MAND -	Mandya	HYD -	Hyderabad		
DHAU -	Dhaulakuan	COIM -	Coimbatore	ALM -	Almora		
PANT -	Pantnagar	UDP -	Udaipur	ARB -	Arbhavi		

Table : 9

Trap Nursery - Evaluation of genotype against various maize diseases under natural environmental condition during Kharif 2012

MLB (Disease rating scale 1-5)										
S.No	Genotypes	PANT	UDP	DEL	DHAU	LUD	KAR	ALM	BAJ	HYD
1	CM117-4	3.0	2.5	1.5	3.0	2.0	1.0	1.0	2.0	2.0
2	LM-16	4.0	1.0	1.5	2.0	2.0	1.0	1.0	-	1.9
3	CM119	4.0	3.0	2.5	4.0	4.0	-	2.0	2.0	1.0
4	CM118	4.0	1.0	2.5	4.0	3.5	-	2.5	-	2.0
5	BML5	4.0	2.5	1.5	3.0	4.0	-	1.0	1.5	1.7
6	CM121	0.0	1.0	2.5	-	4.5	2.0	2.5	2.0	1.7
7	CM139	4.0	0.5	1.5	3.0	2.5	2.0	2.0	1.5	1.4
8	CM130	0.0	1.0	2.0	4.0	3.0	1.0	1.5	-	2.0
9	CM123	0.0	1.5	2.0	-	2.0	2.0	1.0	-	1.8
10	CM142	0.0	1.5	2.0	3.0	2.5	2.0	1.0	3.0	1.8
11	CM116	4.0	3.0	2.0	-	3.0	2.5	1.5	3.5	1.4
12	CM202	0.0	2.5	1.5	2.0	4.0	2.0	1.5	-	1.0
13	RCM 1 & 2	-	-	-	-	-	-	-	-	-
14	Checks (Local)	-	3.5	-	-	-	-	-	-	2.0

Table : 9 (Contd.)

S.No	Genotypes	TLB (Disease rating scale 1-5)						CLS (Disease rating scale 1-5)				
		HYD	ARB	ALM	BAP	PANT	BAJ	MND	DHAU	UDP	BAJ	
1	CM117-4	1.8	3.0	1.0	1.9	0.0	2.0	3.5	4.0	2.5	-	
2	LM-16	2.7	3.2	2.5	3.3	0.0	-	4.5	3.0	3.0	-	
3	CM119	2.0	2.5	1.0	4.4	0.0	-	4.5	3.0	3.5	-	
4	CM118	2.0	2.8	1.5	2.9	4.0	2.0	3.5	3.0	3.0	-	
5	BML5	1.9	2.8	1.5	2.2	0.0	2.0	5.0	-	3.0	-	
6	CM121	2.8	2.6	2.0	3.3	0.0	3.0	4.0	-	2.5	-	
7	CM139	1.9	3.0	2.5	3.6	4.0	2.0	4.5	3.0	2.0	-	
8	CM130	2.1	3.4	1.0	4.6	0.0	2.5	4.5	3.0	1.5	-	
9	CM123	3.0	3.0	3.0	0.0	0.0	3.5	5.0	-	2.5	-	
10	CM142	2.1	2.6	1.5	3.6	0.0	-	5.0	1.3	1.0	-	
11	CM116	1.5	3.0	2.5	5.0	4.0	2.5	4.5	-	3.0	-	
12	CM202	1.6	4.0	1.5	2.3	0.0	4.0	4.0	2.0	2.5	2.5	
13	RCM 1 & 2	-	-	-	2.8	-	-	-	-	-	-	
14	Checks (Local)	2.6	-	-	-	-	-	-	-	3.5	-	

Table : 9 (Contd.)

S.No	Genotypes	Other Diseases	PFSR (Disease rating scale 1-9)				P.RUST (Disease rating scale 1-5)	
		MAND	HYD	UDP	LUD	DEL	MAND	ARB
1	CM117-4	RUST, TLB, CLS, MLB	2.3	1.0	3.2	0.0	4.0	2.0
2	LM 16	TLB, RUST CLS, MLB	2.8	0.0	4.6	81.8	3.5	1.8
3	CM 119	TLB, RUST CLS, MLB	3.5	0.0	3.2	50.0	4.0	2.2
4	CM 118	TLB, RUST CLS, MLB	4.7	0.0	7.6	75.0	2.5	2.0
5	BML 5	TLB, RUST CLS, MLB	6.8	2.0	3.2	25.0	4.5	2.1
6	CM 121	TLB, RUST CLS, MLB	3.8	1.0	3.0	0.0	3.0	2.0
7	CM 139	TLB, RUST CLS, MLB	6.3	50.0	6.6	80.4	4.0	1.8
8	CM 130	TLB, RUST CLS, MLB	3.9	6.0	4.2	75.0	4.5	1.6
9	CM 123	TLB, RUST CLS, MLB, BLSB	5.4	3.3	8.8	0.0	3.0	1.5
10	CM142	TLB, RUST CLS, MLB	5.5	6.6	7.2	0.0	5.0	1.2
11	CM 116	TLB, RUST CLS, MLB, PFSR	5.5	6.0	5.0	0.0	3.5	2.0
12	CM 202	TLB, RUST CLS, MLB	5.0	4.5	4.2	50.0	3.5	2.2
13	Checks (Local)	-	6.2	6.0	-	-	-	-



Table : 9 (Contd.)

S.No	Genotypes	BLSB (Disease rating scale 1-5)						RDM	DM	SDM	ESR		
		DHAU	PANT	UDP	BAJ	LUD	KAR	(%) UDP	(%) COIM	(%) MAN	(%) DHAU	PANT	
1	CM117-4	-	3.0	1.5	-	1.5	2.0	10.0	25.0	36.4	-	40.0	
2	LM-16	2.0	3.0	1.0	2.0	2.2	3.0	5.0	70.0	33.3	0.0	0.0	
3	CM119	3.0	2.5	0.0	4.5	3.4	-	5.0	71.4	100.0	0.0	25.0	
4	CM118	3.0	4.0	0.0	2.5	2.5	-	0.0	100.0	60.0	0.0	33.3	
5	BML5	-	4.0	0.0	-	1.5	-	0.0	63.6	83.3	100.0	0.0	
6	CM121	-	5.0	0.0	2.0	2.0	-	0.0	57.1	100.0	-	0.0	
7	CM139	2.0	4.5	1.0	3.5	2.5	-	0.0	57.1	100.0	22.2	33.3	
8	CM130	3.0	5.0	0.0	-	1.0	-	0.0	25.0	100.0	0	0.0	
9	CM123	-	5.0	1.5	-	2.0	-	0.0	50.0	80.0	-	0.0	
10	CM142	4.0	5.0	0.0	-	1.0	-	0.0	90.0	75.0	50.0	0.0	
11	CM116	-	3.5	0.0	-	1.5	-	0.0	100.0	33.3	100.0	28.6	
12	CM202	2.0	5.0	0.0	-	1.0	-	0.0	83.3	81.8	0.0	0.0	
13	RCM 1 & 2	-	-	-	-	-	-	-	-	-	-	-	
14	Checks (Local)	-	-	0.5	-	-	-	65.0	-	-	-	-	

P60

Table 10

Evaluation of elite lines for identification of resistant sources against major diseases of maize under artificial inoculated condition during Kharif 2012 .

S.no	Plot no	Genotypes	MLB (Disease rating scale 1-5)			TLB (Disease rating scale 1-5)		
			DEL	LUD	KAR	BAJ	ALM	MAND
1	P301	Mas madu (sh2 sh2)-	3.5	4.0	3.0	2.0	3.0	3.0
2	P302	Win Sweet Corn	3.5	3.5	2.8	3.0	NG	4.0
3	P303	951-7	3.0	4.0	2.8	1.5	NG	3.5
4	P304	WOSC	4.5	4.0	3.3	2.5	3.0	3.0
5	P305	SCM PINK	5.0	4.5	3.3	1.5	2.0	4.0
6	P306	SCF	2.5	3.0	3.5	1.5	2.0	4.5
7	P307	WSCShrunken X MUS MADHU	4.5	2.5	3.3	2.0	2.0	4.5
8	P308	Cuba 380	4.5	2.5	3.8	2.0	1.0	NG
9	P309	02POOL 33 C24	4.0	3.5	3.0	1.5	2.0	4.5
10	P310	42048-2-2-1	2.5	3.0	3.8	2.0	3.0	3.5
11	P311	DMSC 28	4.5	4.0	2.8	3.0	2.5	4.0
12	P312	HOP II	2.0	1.5	3.0	2.0	1.0	1.5
13	P313	WINPOP-1	4.5	4.5	3.3	2.0	1.5	4.5
14	P314	WINPOP-3	4.0	4.5	3.3	3.0	1.5	4.5
15	P315	WINPOP-4	5.0	4.0	3.5	3.5	1.5	5.0
16	P316	WINPOP-43	5.0	4.5	4.0	2.5	1.5	4.5
17	P317	WINPOP-16	4.5	3.5	4.0	2.5	1.5	4.0
18	P318	WINPOP-21	5.0	3.5	3.5	2.5	1.5	3.0
19	P319	HKIPC4B	5.0	4.5	3.3	1.5	1.5	3.5
20	P320	HKIPC5	5.0	4.0	3.8	2.5	1.0	3.5
21	P321	HKIPC7	3.0	3.0	3.3	2.5	1.5	4.5
22	P322	HKIPC8	3.5	3.5	3.3	3.0	1.5	4.0
23	P323	HYD05R/13-2	4.5	3.0	3.5	2.5	1.5	5.0
24	P324	CM 115	5.0	3.5	4.0	3.0	1.5	4.5
25	P325	AE 40	3.5	2.0	4.0	1.5	1.0	2.0
26	P326	WSKOTHAIWAXY1-1	3.0	3.0	3.8	2.0	1.0	3.0
27	P327	ESM11-3	5.0	4.5	3.8	2.0	2.5	3.5
28	P328	DTPWC9-F31-1-1-3	2.5	2.0	2.8	1.5	1.0	2.5

Contd.

Table 10

MLB (Disease rating scale 1-5)

TLB (Disease rating scale 1-5)

S.no	Plot no	Genotypes	DEL	LUD	KAR	BAJ	ALM	MAND
29	P329	42050-1	2.0	1.5	2.8	1.5	1.5	1.5
30	P330	EW-DMR-G-C7-HS-(SIB)-9	4.0	2.0	3.0	1.5	1.0	3.0
31	P331	La Posta Seq C7-F10-3-1	4.0	4.0	3.3	2.0	1.5	4.0
32	P332	Pop.31DMR-88-3#-B*13-B	3.5	2.5	3.0	2.0	1.0	3.0
33	P333	CM145	2.0	2.0	2.5	2.0	1.0	4.0
34	P334	P3C45SB-33-##-11	4.0	3.0	2.5	2.0	1.0	4.5
35	P335	P390AM/CMLC4F230-B-2-1	3.5	3.0	3.3	2.0	2.0	4.5
36	P336	P72c1Xbrasil1177-2	2.0	1.5	3.0	2.0	1.5	2.0
37	P337	G18seqcef74-2-1	2.0	1.5	3.0	2.0	1.0	2.5
38	P338	S01sIyq-B-B-13-B	5.0	4.5	3.5	2.0	1.0	3.0
39	P339	S99TLWQ-HG-B-B-B-20	3.5	1.5	2.3	2.0	NG	3.0
40	P340	SC24-(C12)-3-2-1-1	5.0	3.5	3.5	2.0	1.0	4.5
41	P341	V334	3.5	3.0	3.3	2.0	1.5	3.5
42	P342	V335	3.5	2.5	3.5	1.5	1.5	3.0
43	P343	HKIC78	3.5	2.0	3.0	2.0	1.5	3.0
44	P344	HKI141	2.5	2.5	3.8	2.0	1.0	3.5
45	P345	HKIC322	5.0	2.0	3.0	2.5	1.0	3.0
46	P346	HKIC323	5.0	3.5	3.3	2.5	3.0	3.0
47	P347	HKI484-5	5.0	3.5	3.0	2.0	3.0	3.5
48	P348	HKI586-1WG'33	5.0	3.5	3.8	2.0	2.5	3.5
49	P349	HKI1040-5	5.0	3.5	3.5	2.5	2.0	3.5
50	P350	HKI1040-11-7	3.0	4.0	2.5	2.0	2.5	3.0
51	P351	HKI 1040C2	2.5	2.5	1.8	2.0	2.0	4.0
52	P352	HKI 1094-WG	2.5	2.0	2.0	2.0	2.5	4.0
53	P353	HKI1128	3.5	3.5	2.5	3.0	2.5	3.5
54	P354	HKI163	3.0	4.5	2.5	2.5	2.0	3.0
55	P355	HKI1352-5-8-9	2.0	2.0	2.5	2.0	1.5	2.5
56	P356	V336	2.0	2.0	2.3	2.5	1.0	3.0
57	P357	CML33	2.0	1.5	2.3	2.5	1.0	2.0
58	P358	CML44	2.5	2.5	2.3	2.0	2.5	3.5
59	P359	CML269	2.0	1.5	3.0	2.0	1.0	3.0

Contd.

**P62**

**Table 10**

**MLB (Disease rating scale 1-5)**

**TLB (Disease rating scale 1-5)**

<b>S.no</b>	<b>Plot no</b>	<b>Genotypes</b>	<b>DEL</b>	<b>LUD</b>	<b>KAR</b>	<b>BAJ</b>	<b>ALM</b>	<b>MAND</b>
60	P360	V345	4.0	4.5	2.8	2.0	1.0	4.0
61	P361	CML384	3.5	3.0	3.5	1.5	1.0	3.0
62	P362	V390	2.0	1.5	2.8	2.0	NG	3.0
63	P363	BML13	3.0	2.0	2.5	2.0	1.5	3.5
64	P364	CM500	3.5	3.0	3.0	2.0	1.0	4.0
65	P365	CM114	4.0	3.5	2.8	2.0	1.5	3.0
66	P366	CM121	3.5	2.0	3.0	2.0	2.0	2.5
67	P367	CM144	3.5	2.0	3.5	2.0	1.0	3.0
68	P368	CM202	4.0	2.5	3.8	2.0	1.0	5.0
69	P369	BML6	4.5	2.5	3.5	2.0	1.5	3.5
70	P370	BML7	2.0	1.5	3.0	2.5	1.0	3.0
71	P371	CM501	2.0	1.5	2.5	2.0	1.0	2.0
72	P372	LM13	3.0	1.5	1.8	2.0	1.0	2.5
73	P373	LM15	3.5	1.5	1.8	1.5	1.5	4.0
74	P374	LM16	3.5	2.5	2.0	2.0	1.5	3.5
75	P375	CM130	3.0	2.5	3.3	2.0	1.0	3.5
76	P376	CM119	5.0	3.0	3.8	2.5	2.5	3.0
77	P377	KML225	3.5	3.5	3.0	2.0	2.0	2.5
78	P378	LTP1	3.5	2.0	2.0	2.0	2.0	3.0
79	P379	ITNA004	4.0	2.0	2.3	2.5	2.5	3.5
80	P380	T2STR1107	2.0	1.5	1.5	3.0	3.0	3.5
81	P381	EC646012	2.0	NG	2.0	2.0	1.5	3.0
82	P382	CML141	2.5	2.5	2.5	2.0	1.5	3.0
83	P383	CML154	3.5	2.0	2.5	2.0	1.0	2.5
84	P384	CML165	3.0	4.0	2.5	2.0	2.5	2.5
85	P385	CML287	2.0	3.5	1.8	2.0	2.0	2.5
86	P386	CM502	3.0	2.0	3.8	2.0	1.0	3.5
87	P387	HKI 2-6-2-4	2.5	3.5	3.0	2.5	3.5	2.0
88	P388	HKI34(1+2)-1	3.5	3.5	3.8	2.0	1.5	4.0
89	P389	CML161	2.5	2.5	3.0	2.0	1.0	3.5
90	P390	HKI164—4(1-3)	3.0	2.0	2.3	2.0	1.0	2.5

Contd.

Table 10

MLB (Disease rating scale 1-5)

TLB (Disease rating scale 1-5)

S.no	Plot no	Genotypes	DEL	LUD	KAR	BAJ	ALM	MAND
91	P391	HKI164-7-4-2	2.0	1.5	2.0	2.0	1.0	3.5
92	P392	HKI191-1-2-5	2.5	3.5	2.5	2.0	1.0	4.0
93	P393	HKI193-1	2.5	3.5	2.8	2.0	1.5	2.5
94	P394	HKI193-2-2-1	2.5	1.5	3.8	2.0	1.0	2.5
95	P395	HKIMBR139-2	2.0	1.5	2.3	2.0	1.0	2.5
96	P396	DMRQPM03-104	2.5	2.5	3.5	2.0	3.5	4.5
97	P397	DMRQPM58-26	4.0	3.5	3.0	3.5	4.5	5.0
98	P398	CLQRCY47B	3.0	2.0	2.5	2.0	2.0	3.5
99	P399	Tempx Trop(H0)QPM-B-B-B-57	2.0	1.5	2.5	2.0	1.0	3.0
100	P400	CLQRCY41	2.0	2.0	3.0	NG	NG	2.5
101	P401	CML451Q	3.0	2.0	2.3	2.0	4.5	3.5
102	P402	PFSRS2	2.0	2.5	3.8	2.0	1.0	3.0
103	P403	PFSRS3	2.0	2.5	3.8	2.0	2.5	5.0
104	P404	SW93D-313-23-PO-49-54-12	3.0	4.0	2.8	2.5	2.5	3.0
105	P405	PFSRR3	2.0	1.5	2.0	2.0	1.0	3.5
106	P406	PFSRR9	1.5	1.5	2.5	2.0	1.0	3.0
107	P407	PFSRR10	3.0	2.0	2.8	2.0	1.0	2.5
108	P408	PFSR51016-1	2.0	2.5	4.0	2.0	1.0	2.5
109	P409	JCY2-1-2-1	2.0	2.0	2.8	2.0	1.0	3.5
110	P410	JCY2-2-4-1-1	2.0	2.0	3.0	2.5	1.0	2.5
111	P411	JCY2-7-1-2	2.0	1.5	3.3	2.0	NG	2.0
112	P412	JCY3-7-1-2	2.0	2.5	2.8	3.0	1.0	2.5
113	P413	CM117-3-4-1	2.5	3.5	2.8	2.5	1.5	2.5
114	P413A	Resistant check	2.5	1.5	1.3	2.0	1.5	1.5
115	P413B	Susceptible check	5.0	3.0	3.5	4.0	4.5	5.0

\* **Resistant check** : MLB-HKI 288-2 (Karnal), SC 24-(92) - 3-2-1-1 (Delhi), **TLB** - CML 168 (Bajaura), V373 (Almora), Nithyashree (Mandya),

\* **Suseptible check** : MLB -HKI 335 (Karnal), CM 119 (Delhi), **TLB** - UC 536 (Bajaura),(219J) (Mandya), V351 (Almora),

Contd.

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM	SDM	RDM	
			DEL	PANT	DHAU	KAR	(1-5) DHAU	(%) MAN	COIM	UDP
1	P301	Mas madu (sh2 sh2)-	4.0	4.0	5.0	3.5	1.5	100.0	20.0	67.0
2	P302	Win Sweet Corn	3.5	NG	5.0	4.0	2.0	100.0	83.3	100.0
3	P303	951-7	3.5	NG	-	4.0	3.0	85.7	25.0	100.0
4	P304	WOSC	4.5	5.0	4.0	3.0	1.0	100.0	66.7	80.0
5	P305	SCM PINK	4.5	NG	3.0	3.5	4.0	100.0	100.0	100.0
6	P306	SCF	4.0	3.0	4.0	3.5	1.0	100.0	88.9	100.0
7	P307	WSCShrunken X MUS MADHU	3.5	5.0	4.0	5.0	2.0	100.0	66.7	80.0
8	P308	Cuba 380	3.0	NG	-	5.0	3.0	100.0	100.0	100.0
9	P309	02POOL 33 C24	4.0	4.5	5.0	5.0	2.0	85.7	45.5	80.0
10	P310	42048-2-2-1	3.0	4.0	3.0	4.0	1.0	100.0	50.0	64.0
11	P311	DMSC 28	3.0	5.0	4.0	5.0	1.0	100.0	100.0	100.0
12	P312	HOP II	2.5	4.0	2.0	5.0	4.0	20.0	27.3	33.3
13	P313	WINPOP-1	3.5	4.0	4.0	4.0	4.0	100.0	100.0	75.0
14	P314	WINPOP-3	3.5	5.0	3.0	5.0	5.0	100.0	88.9	100.0
15	P315	WINPOP-4	4.0	5.0	4.0	5.0	4.0	100.0	90.9	100.0
16	P316	WINPOP-43	5.0	5.0	4.0	4.0	4.0	100.0	66.7	100.0
17	P317	WINPOP-16	4.0	5.0	4.0	4.0	4.0	100.0	75.0	100.0
18	P318	WINPOP-21	4.0	5.0	5.0	4.0	4.0	100.0	100.0	100.0
19	P319	HKIPC4B	5.0	5.0	5.0	4.5	4.0	33.3	100.0	100.0
20	P320	HKIPC5	3.0	5.0	3.0	4.0	4.0	83.3	53.9	93.3
21	P321	HKIPC7	3.5	5.0	4.0	4.5	4.0	100.0	71.4	100.0
22	P322	HKIPC8	4.0	3.0	4.0	4.0	3.0	30.0	93.8	100.0
23	P323	HYD05R/13-2	4.5	5.0	4.0	4.0	4.0	36.4	100.0	100.0
24	P324	CM 115	3.0	5.0	4.0	3.5	4.0	42.9	91.7	100.0
25	P325	AE 40	4.0	5.0	2.0	4.0	4.0	0.0	25.0	100.0
26	P326	WSKOTHAIWAXY1-1	4.0	4.0	5.0	4.0	4.0	100.0	77.8	87.0
27	P327	ESM11-3	4.0	5.0	4.0	5.0	3.0	33.3	100.0	40.0
28	P328	DTPWC9-F31-1-1-3	4.0	5.0	4.0	5.0	3.0	30.3	83.3	18.0

Contd.

Table 10

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM	SDM	RDM	
			DEL	PANT	DHAU	KAR	(1-5) DHAU	(%) MAN	COIM	UDP
29	P329	42050-1	4.0	NG	4.0	5.0	2.0	81.8	71.4	100.0
30	P330	EW-DMR-G-C7-HS-(SIB)-9	2.5	5.0	2.0	5.0	3.0	90.9	20.0	100.0
31	P331	La Posta Seq C7-F10-3-1	3.5	4.0	4.0	5.0	4.0	100.0	18.2	57.0
32	P332	Pop.31DMR-88-3#-B*13-B	4.5	5.0	4.0	4.0	3.0	100.0	100.0	60.0
33	P333	CM145	4.0	5.0	5.0	5.0	3.0	10.0	100.0	100.0
34	P334	P3C45SB-33-##-11	3.5	4.0	4.0	5.0	3.0	100.0	83.3	100.0
35	P335	P390AM/CMLC4F230-B-2-1	4.0	3.5	4.0	4.0	1.0	100.0	100.0	100.0
36	P336	P72c1Xbrasil1177-2	2.5	3.0	3.0	5.0	1.0	27.3	33.3	0.0
37	P337	G18seqcef74-2-1	2.0	3.0	4.0	5.0	2.0	22.2	30.0	20.0
38	P338	S01slyq-B-B-B-13-B	3.5	5.0	4.0	5.0	1.0	100.0	100.0	100.0
39	P339	S99TLWQ-HG-B-B-B-20	3.5	3.0	4.0	5.0	3.0	100.0	66.7	100.0
40	P340	SC24-(C12)-3-2-1-1	4.0	5.0	4.0	5.0	1.0	100.0	100.0	90.0
41	P341	V334	4.0	4.0	4.0	3.5	1.0	100.0	100.0	100.0
42	P342	V335	3.0	5.0	4.0	5.0	3.0	100.0	100.0	100.0
43	P343	HKIC78	3.0	4.5	4.0	4.0	2.0	90.0	100.0	100.0
44	P344	HKI141	4.0	NG	4.0	5.0	2.0		23.1	100.0
45	P345	HKIC322	4.0	4.0	4.0	4.0	3.0	30.0	100.0	89.0
46	P346	HKIC323	4.0	5.0	4.0	4.0	2.0	80.0	100.0	50.0
47	P347	HKI484-5	2.0	NG	-	5.0	2.0	100.0	100.0	100.0
48	P348	HKI586-1WG*33	2.5	4.0	5.0	5.0	4.0	100.0	21.4	83.0
49	P349	HKI1040-5	3.0	4.0	4.0	4.0	3.0	72.7	85.7	100.0
50	P350	HKI1040-11-7	2.5	4.5	4.0	4.0	4.0	100.0	100.0	100.0
51	P351	HKI 1040C2	3.5	4.5	4.0	5.0	3.0	100.0	46.2	100.0
52	P352	HKI 1094-WG	4.0	3.0	4.0	5.0	4.0	100.0	100.0	56.0
53	P353	HKI1128	4.0	3.5	4.0	4.0	4.0	100.0	95.0	90.0
54	P354	HKI163	3.5	5.0	4.0	4.0	4.0	87.5	100.0	100.0
55	P355	HKI1352-5-8-9	3.5	5.0	4.0	4.0	2.0	100.0	100.0	100.0
56	P356	V336	3.5	5.0	4.0	4.0	3.0	100.0	37.5	18.0
57	P357	CML33	2.5	4.0	4.0	4.0	2.0	30.0	100.0	0.0
58	P358	CML44	3.0	3.5	3.0	4.5	4.0	6.7	57.1	100.0
59	P359	CML269	3.0	3.5	3.0	4.5	3.0	27.27	20.0	0.0

Contd.

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Table 10

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM	SDM	RDM	
			DEL	PANT	DHAU	KAR	(1-5) DHAU	(%) MAN	COIM	UDP
60	P360	V345	-	NG	4.0	4.5	-	100.00	83.3	100.0
61	P361	CML384	3.5	4.0	4.0	4.0	4.0	100.00	90.0	80.0
62	P362	V390	-	NG	4.0	4.0	1.0	37.50	62.5	75.0
63	P363	BML13	2.5	NG	4.0	4.0	1.0	81.81	100.0	64.0
64	P364	CM500	3.0	3.5	1.5	4.5	1.0	92.30	71.4	43.0
65	P365	CM114	5.0	NG	4.0	4.0	1.0	100.00	100.0	100.0
66	P366	CM121	3.5	5.0	4.0	5.0	1.0	100.00	92.9	100.0
67	P367	CM144	3.5	5.0	4.0	5.0	4.0	69.23	85.7	100.0
68	P368	CM202	2.5	5.0	4.0	5.0	3.0	100.00	80.0	100.0
69	P369	BML6	2.5	5.0	4.0	4.5	3.0	100.00	53.3	100.0
70	P370	BML7	2.0	5.0	4.0	5.0	1.0	7.69	9.1	29.0
71	P371	CM501	3.0	5.0	4.0	5.0	3.0	28.57	11.1	33.0
72	P372	LM13	2.5	5.0	4.0	5.0	3.0	100.00	57.1	50.0
73	P373	LM15	4.0	5.0	2.0	5.0	4.0	100.00	66.7	NG
74	P374	LM16	3.0	5.0	3.0	4.0	1.0	100.00	100.0	100.0
75	P375	CM130	4.0	5.0	4.0	4.5	2.0	100.00	92.3	100.0
76	P376	CM119	3.5	5.0	4.0	4.0	1.0	100.00	52.9	83.0
77	P377	KML225	3.5	5.0	3.0	4.0	4.0	37.50	28.6	93.0
78	P378	LTP1	2.5	5.0	4.0	4.5	4.0	100.00	50.0	100.0
79	P379	ITNA004	5.0	5.0	4.0	4.0	4.0	100.00	78.6	100.0
80	P380	T2STR1107	-	5.0	3.0	4.0	4.0	54.54	20.0	87.0
81	P381	EC646012	3.0	5.0	3.0	4.5	4.0	50.00	0.0	40.0
82	P382	CML141	3.5	4.0	4.0	5.0	4.0	0.00	0.0	0.0
83	P383	CML154	2.5	5.0	3.0	5.0	2.0	10.00	0.0	0.0
84	P384	CML165	3.5	5.0	3.0	4.0	4.0	100.00	62.5	42.0
85	P385	CML287	3.5	5.0	5.0	4.0	4.0	83.33	0.0	72.0
86	P386	CM502	4.0	5.0	3.0	4.5	4.0	70.00	0.0	22.0
87	P387	HKI 2-6-2-4	3.5	5.0	-	4.0	3.0	83.33	14.3	100.0
88	P388	HKI34(1+2)-1	4.0	5.0	4.0	4.0	1.0	33.33	10.0	56.0
89	P389	CML161	3.5	5.0	4.0	4.0	1.0	100.00	11.1	100.0
90	P390	HKI164—4(1-3)	3.5	5.0	4.0	5.0	1.0	10.10	7.7	14.0

Contd.



Table 10

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM	SDM	RDM	
			DEL	PANT	DHAU	KAR	(1-5) DHAU	(%) MAN	COIM	(%) UDP
91	P391	HKI164-7-4-2	3.0	5.0	4.0	4.0	2.0	100.00	25.0	0.0
92	P392	HKI191-1-2-5	3.0	5.0	3.0	4.0	2.0	100.00	33.3	60.0
93	P393	HKI193-1	2.5	5.0	4.0	4.0	2.0	71.42	0.0	57.0
94	P394	HKI193-2-2-1	2.0	5.0	4.0	4.0	1.0	88.88	27.3	70.0
95	P395	HKIMBR139-2	-	5.0	4.0	3.5	3.0	100.00	71.4	100.0
96	P396	DMRQPM03-104	4.0	5.0	4.0	5.0	4.0	100.00	37.5	70.0
97	P397	DMRQPM58-26	3.0	5.0	2.5	5.0	4.0	100.00	62.5	100.0
98	P398	CLQRCY47B	3.5	5.0	3.0	5.0	1.0	100.00	90.0	100.0
99	P399	Tempx Trop(H0)QPM-B-B-B-57	3.5	5.0	3.0	4.0	1.0	40.00	0.0	27.0
100	P400	CLQRCY41	4.0	NG	4.0	4.0	1.0	100.00	100.0	100.0
101	P401	CML451Q	3.5	4.5	4.0	4.0	4.0	100.00	30.0	29.0
102	P402	PFSRS2	3.5	3.5	3.0	5.0	1.0	60.00	57.1	45.0
103	P403	PFSRS3	3.5	3.5	3.0	5.0	1.0	71.42	27.3	100.0
104	P404	SW93D-313-23-PO-49-54-12	3.5	3.0	3.0	5.0	1.0	92.30	80.0	62.0
105	P405	PFSRR3	4.0	3.0	4.0	4.5	1.5	50.00	10.0	19.0
106	P406	PFSRR9	3.0	3.0	3.0	5.0	1.5	25.00	0.0	15.0
107	P407	PFSRR10	3.0	4.0	3.0	5.0	1.0	15.38	0.0	42.0
108	P408	PFSR51016-1	3.5	4.0	3.0	5.0	1.5	57.14	30.8	50.0
109	P409	JCY2-1-2-1	3.5	3.5	3.0	5.0	1.5	50.00	13.3	43.0
110	P410	JCY2-2-4-1-1	3.0	4.0	4.0	5.0	1.0	83.33	0.0	0.0
111	P411	JCY2-7-1-2	4.0	3.5	4.0	4.5	2.0	33.33	7.1	20.0
112	P412	JCY3-7-1-2	4.0	3.0	4.0	4.0	1.0	85.71	40.0	63.0
113	P413	CM117-3-4-1	4.0	4.5	2.0	4.5	1.0	100.00	0.0	50.0
114	P413A	Resistant check	-	NG	-	2.5	-	13.33	0.0	36.0
115	P413B	Susceptible check	4.5	NG	-	5.0	-	100.00	100.0	100.0

\* **Resistant check** : **BLSB** - HKI 288-2(Karnal),**SDM** - TNAU Co-6(Coimbatore),NAH 1137 (Mandya), **RDM**-Talk Local (Udaipur),

\* **Suseptible check** : **BLSB** - CM 501 (Delhi),HKI 335 (Karnal), **SDM** - CM 500 (Coimbatore), CM - 500 (Mandya), **RDM** - Surya (Udaipur),

Contd.

Table 10			PFSR (Disease rating scale 1-9)				ESR (%)		P. RUST	CLS
S.no	Plot no	Genotypes	HYD	LUD	UDP	DEL	DHAU	PANT	(Disease rating scale 1-5)	
									MAN	UDP
1	P301	Mas madu (sh2 sh2)-	7.0	6.7	4.0	4.0	0.0	50.0	3.5	3.0
2	P302	Win Sweet Corn	7.6	7.5	3.5	5.0	-	50.0	3.5	3.0
3	P303	951-7	6.5	7.3	2.8	6.0	50.0	0.0	4.0	3.0
4	P304	WOSC	6.5	8.0	3.9	6.4	100.0	75.0	3.0	3.5
5	P305	SCM PINK	7.5	7.3	4.7	2.0	33.3	100.0	2.5	4.5
6	P306	SCF	5.3	7.5	4.8	2.0	28.6	33.3	2.5	3.0
7	P307	WCSShrunken X MUS MADHU	8.3	8.8	4.0	2.7	0.0	NG	4.0	3.0
8	P308	Cuba 380	7.3	9.0	7.8	1.0	100.0	NG	NG	5.0
9	P309	02POOL 33 C24	3.5	4.8	1.7	1.0	50.0	50.0	4.5	5.0
10	P310	42048-2-2-1	4.8	3.1	3.5	1.0	25.0	0.0	2.5	4.3
11	P311	DMSC 28	5.5	5.2	6.4	-	50.0	NG	3.5	4.5
12	P312	HOP II	6.8	4.5	3.6	3.0	0.0	0.0	2.0	4.5
13	P313	WINPOP-1	7.8	5.7	2.6	1.0	0.0	NG	4.0	4.5
14	P314	WINPOP-3	5.0	4.5	7.9	3.0	50.0	NG	4.0	2.0
15	P315	WINPOP-4	4.3	5.5	5.8	2.2	25.0	33.3	4.0	2.0
16	P316	WINPOP-43	7.2	7.4	3.2	-	50.0	NG	3.5	3.0
17	P317	WINPOP-16	5.6	4.2	3.9	2.3	0.0	0.0	3.5	1.0
18	P318	WINPOP-21	7.0	8.7	7.4	3.0	0.0	0.0	2.5	4.0
19	P319	HKIPC4B	6.0	7.3	4.0	1.4	25.0	100.0	3.0	1.5
20	P320	HKIPC5	5.3	6.1	3.8	3.1	12.5	40.0	2.5	1.0
21	P321	HKIPC7	5.4	5.2	7.2	1.3	0.0	0.0	4.0	3.0
22	P322	HKIPC8	5.3	4.3	5.0	1.0	50.0	0.0	3.5	1.0
23	P323	HYD05R/13-2	6.5	8.4	4.1	1.4	33.3	0.0	3.0	1.5
24	P324	CM 115	4.5	4.8	5.3	2.0	66.7	0.0	3.5	4.0
25	P325	AE 40	5.0	4.0	2.7	1.0	0.0	0.0	2.0	0.5
26	P326	WSKOTHAIWAXY1-1	5.0	5.4	1.6	1.0	25.0	20.0	2.0	1.0
27	P327	ESM11-3	6.4	9.0	6.9	2.0	33.3	0.0	2.0	1.5
28	P328	DTPWC9-F31-1-1-3	6.7	6.5	3.6	2.0	0.0	0.0	2.0	3.5

Contd.

Table 10			PFSR (Disease rating scale 1-9)				ESR (%)		P. RUST CLS (Disease rating scale 1-5)	
S.no	Plot no	Genotypes	HYD	LUD	UDP	DEL	DHAU	PANT	MAN	UDP
29	P329	42050-1	5.1	5.0	6.3	3.5	14.3	0.0	2.0	3.5
30	P330	EW-DMR-G-C7-HS-(SIB)-9	6.8	6.2	2.9	1.0	0.0	33.3	2.0	0.5
31	P331	La Posta Seq C7-F10-3-1	5.3	4.0	5.5	1.0	40.0	NG	2.5	1.0
32	P332	Pop.31DMR-88-3#-B*13-B	4.9	2.5	5.7	2.5	-	0.0	2.5	0.5
33	P333	CM145	5.8	4.0	3.6	1.0	16.7	20.0	3.0	1.5
34	P334	P3C45SB-33-##-11	5.0	5.4	2.3	1.9	33.3	0.0	3.5	3.0
35	P335	P390AM/CMLC4F230-B-2-1	4.5	3.5	1.6	3.1	0.0	0.0	4.0	0.5
36	P336	P72c1Xbrasil1177-2	6.0	4.4	2.0	2.0	20.0	0.0	1.5	2.5
37	P337	G18seqcef74-2-1	4.7	5.0	7.1	1.0	40.0	0.0	1.5	0.5
38	P338	S01slyq-B-B-13-B	7.4	7.4	2.1	2.0	100.0	50.0	4.5	0.5
39	P339	S99TLWQ-HG-B-B-20	5.3	5.6	5.8	3.7	33.3	0.0	3.5	0.5
40	P340	SC24-(C12)-3-2-1-1	5.1	5.2	4.3	2.0	33.3	100.0	4.5	0.5
41	P341	V334	7.3	5.8	4.5	3.5	0.0	0.0	3.0	0.5
42	P342	V335	7.2	8.7	3.5	1.4	50.0	0.0	3.5	0.5
43	P343	HKIC78	6.6	6.2	1.8	2.3	-	25.0	3.0	2.5
44	P344	HKI141	6.8	6.3	1.8	2.9	25.0	NG	3.0	2.5
45	P345	HKIC322	5.1	4.1	1.5	6.3	50.0	NG	3.5	0.5
46	P346	HKIC323	6.5	5.0	6.5	2.1	33.3	0.0	3.0	0.5
47	P347	HKI484-5	3.9	6.2	3.6	1.0	-	NG	3.5	1.5
48	P348	HKI586-1WG'33	6.7	3.2	5.6	2.7	14.3	NG	3.5	0.5
49	P349	HKI1040-5	5.4	5.2	3.0	2.8	28.6	NG	3.0	0.5
50	P350	HKI1040-11-7	5.3	4.5	6.0	1.0	100.0	0.0	3.5	0.5
51	P351	HKI 1040C2	4.8	5.8	7.6	1.0	75.0	0.0	3.5	0.5
52	P352	HKI 1094-WG	4.5	6.0	5.6	3.2	0.0	50.0	3.5	0.5
53	P353	HKI1128	3.5	4.5	1.7	2.8	28.6	25.0	4.0	2.5
54	P354	HKI163	3.7	4.2	3.6	2.1	75.0	NG	3.5	4.5
55	P355	HKI1352-5-8-9	5.7	6.8	3.3	2.7	50.0	75.0	4.5	3.0
56	P356	V336	5.3	3.3	3.5	1.3	16.7	50.0	4.0	1.5
57	P357	CML33	5.5	5.3	5.5	1.0	20.0	NG	3.0	2.5
58	P358	CML44	3.0	3.0	3.0	1.0	80.0	20.0	2.5	0.5
59	P359	CML269	4.5	5.2	7.5	1.1	87.5	0.0	2.5	1.5

Contd.

**P70**

<b>Table 10</b>			<b>PFSR (Disease rating scale 1-9)</b>				<b>ESR (%)</b>		<b>P. RUST CLS (Disease rating scale 1-5)</b>	
<b>S.no</b>	<b>Plot no</b>	<b>Genotypes</b>	<b>HYD</b>	<b>LUD</b>	<b>UDP</b>	<b>DEL</b>	<b>DHAU</b>	<b>PANT</b>	<b>MAN</b>	<b>UDP</b>
60	P360	V345	4.8	5.0	3.1	2.7	100.0	50.0	3.0	0.5
61	P361	CML384	7.4	3.2	4.5	1.0	33.3	0.0	2.5	3.0
62	P362	V390	6.6	6.3	3.7	2.6	0.0	0.0	2.5	0.5
63	P363	BML13	5.1	6.5	5.3	1.6	33.3	50.0	3.0	2.5
64	P364	CM500	-	5.0	3.9	2.3	0.0	0.0	3.5	3.0
65	P365	CM114	7.0	5.8	5.6	1.0	20.0	0.0	4.5	3.5
66	P366	CM121	6.0	8.8	2.8	1.2	75.0	0.0	2.5	0.5
67	P367	CM144	4.5	4.0	2.9	1.0	20.0	0.0	2.5	0.5
68	P368	CM202	6.0	5.7	1.3	2.7	50.0	75.0	3.5	0.5
69	P369	BML6	4.8	3.0	1.8	1.7	33.3	0.0	3.5	0.5
70	P370	BML7	2.7	3.8	1.9	1.0	33.3	0.0	2.0	1.0
71	P371	CM501	6.9	4.4	2.1	3.3	20.0	0.0	1.5	1.0
72	P372	LM13	5.0	5.5	3.4	1.0	0.0	0.0	1.5	1.0
73	P373	LM15	6.3	4.2	3.7	5.0	27.3	0.0	3.5	1.5
74	P374	LM16	6.9	3.2	7.1	1.7	28.6	0.0	3.0	1.5
75	P375	CM130	4.0	6.7	3.5	1.0	0.0	0.0	4.0	1.5
76	P376	CM119	4.0	8.8	3.1	1.0	25.0	33.3	4.0	0.5
77	P377	KML225	8.0	3.6	3.1	1.4	25.0	50.0	3.5	1.0
78	P378	LTP1	5.2	4.2	2.6	3.7	11.1	0.0	2.0	1.0
79	P379	ITNA004	5.8	6.4	7.0	4.0	50.0	100.0	2.5	2.0
80	P380	T2STR1107	3.6	3.0	3.3	2.0	20.0	0.0	2.5	0.5
81	P381	EC646012	3.8	4.2	4.2	1.0	0.0	0.0	2.5	1.0
82	P382	CML141	8.0	4.0	2.3	3.3	80.0	25.0	3.5	2.5
83	P383	CML154	6.3	3.5	1.5	1.0	16.7	0.0	3.5	0.5
84	P384	CML165	6.8	2.8	4.2	4.0	0.0	0.0	3.0	1.5
85	P385	CML287	4.0	5.8	8.3	2.6	0.0	NG	3.5	1.0
86	P386	CM502	5.8	3.5	3.3	1.0	14.3	0.0	3.5	0.5
87	P387	HKI 2-6-2-4	7.6	5.2	5.6	1.0	40.0	0.0	2.5	2.5
88	P388	HKI34(1+2)-1	-	4.4	5.0	1.0	100.0	75.0	3.5	3.0
89	P389	CML161	7.7	4.1	2.0	1.7	66.7	0.0	3.0	3.5
90	P390	HKI164—4(1-3)	6.7	5.6	3.2	2.3	0.0	50.0	3.5	3.5

Contd.

Table 10			PFSR (Disease rating scale 1-9)				ESR (%)	P. RUST CLS (Disease rating scale 1-5)		
S.no	Plot no	Genotypes	HYD	LUD	UDP	DEL	DHAU	PANT	MAN	UDP
91	P391	HKI164-7-4-2	5.7	3.7	3.0	1.8	20.0	66.7	2.5	3.5
92	P392	HKI191-1-2-5	7.3	3.0	2.1	7.3	100.0	50.0	3.5	4.0
93	P393	HKI193-1	3.8	3.0	1.5	1.0	0.0	75.0	3.0	4.5
94	P394	HKI193-2-2-1	5.3	4.0	6.4	1.0	1.0	66.7	3.5	0.5
95	P395	HKIMBR139-2	6.0	3.6	4.0	-	20.0	75.0	3.5	0.5
96	P396	DMRQPM03-104	4.4	3.0	5.0	1.0	16.7	75.0	4.0	1.0
97	P397	DMRQPM58-26	6.1	6.2	3.5	1.0	0.0	66.7	4.5	2.0
98	P398	CLQRCY47B	5.0	4.9	2.6	1.8	12.5	50.0	3.5	4.5
99	P399	Tempx Trop(H0)QPM-B-B-B-57	4.3	7.0	2.2	1.0	20.0	75.0	3.0	4.5
100	P400	CLQRCY41	4.5	6.7	3.4	-	0.0	66.7	2.0	4.5
101	P401	CML451Q	4.3	4.0	1.8	2.9	33.3	NG	3.5	5.0
102	P402	PFSRS2	4.4	4.3	1.3	1.0	0.0	NG	3.5	5.0
103	P403	PFSRS3	4.0	6.2	5.0	6.0	28.6	66.7	2.5	5.0
104	P404	SW93D-313-23-PO-49-54-12	3.7	6.9	1.9	1.0	60.0	50.0	3.5	4.5
105	P405	PFSRR3	3.8	6.2	1.8	1.0	0.0	75.0	3.0	4.5
106	P406	PFSRR9	3.8	7.0	2.1	1.0	0.0	NG	2.5	4.5
107	P407	PFSRR10	2.5	5.8	2.9	2.0	33.3	80.0	3.0	4.5
108	P408	PFSR51016-1	3.5	6.4	1.4	1.8	12.5	50.0	3.5	5.0
109	P409	JCY2-1-2-1	2.3	4.4	2.0	1.0	12.5	75.0	3.0	5.0
110	P410	JCY2-2-4-1-1	-	7.5	1.9	1.3	33.3	50.0	2.5	4.5
111	P411	JCY2-7-1-2	2.5	5.4	2.1	1.0	25.0	60.0	1.5	5.0
112	P412	JCY3-7-1-2	2.3	4.6	1.4	1.0	33.3	50.0	2.0	4.0
113	P413	CM117-3-4-1	3.5	4.4	1.6	1.0	0.0	66.7	2.0	3.0
114	P413A	Resistant check	2.6	2.7	2.0	1.0	-	NG	2.0	1.5
115	P413B	Susceptible check	7.3	5.8	7.8	3.0	-	NG	5.0	4.5

\* **Resistant check** : PFSR - PFSR R 10 (Delhi),Talk Local (Udaipur), **P. RUST**- Nithyshree (Mandya),**CLS** - Talk Local (Udaipur)

\* **Suseptible check** : PFSR - HKI PC 5 (Delhi), Surya (Udaipur), **P. RUST**- (219J) (Mandya), **CLS** - Surya (Udaipur)

Table 11

Retesting of resistant lines against major diseases under artificial inoculated conditons during Kharif 2012.

S.no	Plot no	Genotypes	MLB (Disease rating scale 1-5)			TLB (Disease rating scale 1-5)		
			DEL	LUD	KAR	BAJ	ALM	MAND
1	P501	Mas madu (sh2 sh2)-	2.5	3.5	2.8	2.0	3.5	1.5
2	P502	CUBA 380	3.0	2.0	3.3	2.0	2.0	3.0
3	P503	NC 392	3.5	4.0	3.5	2.0	3.0	4.5
4	P504	DMSC3	3.0	4.0	2.8	2.0	1.5	4.5
5	P505	HKISCST	-	4.5	3.3	1.5	3.0	3.5
6	P506	WINPOP2	3.0	4.5	2.3	2.0	2.0	4.0
7	P507	HKI PC 4B	3.5	2.5	2.0	2.0	1.5	2.0
8	P508	HKI-PC-5	2.5	3.0	2.3	2.0	3.5	4.5
9	P509	HKI-PC-7	3.5	4.5	2.5	2.0	3.5	4.5
10	P510	HKI PC 8	4.0	4.0	2.8	2.5	1.0	4.5
11	P511	CLQRCY47B	2.5	2.5	1.3	1.5	2.5	4.0
12	P512	WINPOP-21	5.0	4.0	3.3	2.5	2.5	4.5
13	P513	WINPOP-43	4.0	4.0	3.0	2.5	2.0	3.0
14	P514	HKI 1040-5	3.0	4.0	3.3	2.5	2.0	2.5
15	P515	HKI-1040-11-7	3.5	4.0	2.8	2.0	2.0	3.5
16	P516	ESM-11-3	5.0	4.5	3.5	2.0	1.5	3.5
17	P517	Gen 6033	3.5	2.0	1.3	1.5	2.5	4.5
18	P518	Hyd05R/2-1	2.0	1.5	1.5	2.0	2.5	2.0
19	P519	Hyd05R/13-2	2.0	2.0	1.8	2.0	2.0	5.0
20	P520	LM12	2.5	2.0	1.5	2.5	2.0	3.0
21	P521	LM 15	4.0	2.5	2.3	2.0	2.0	4.0
22	P522	LM13	4.5	4.0	2.5	2.0	1.5	4.5
23	P523	LM 16	2.5	3.0	3.0	2.5	2.5	4.5
24	P524	CM121	3.5	4.5	2.8	2.0	2.5	3.0
25	P525	CM114	-	4.5	2.0	2.0	1.0	1.5
26	P526	CM202	3.0	3.5	2.0	3.5	1.5	3.5
27	P527	CM 144	3.0	3.0	2.3	2.5	2.0	4.5
28	P528	HKI C 78	3.5	4.0	1.8	2.5	1.0	2.5

Contd.

Table 11

MLB (Disease rating scale 1-5) TLB (Disease rating scale 1-5)

S.no	Plot no	Genotypes	DEL	LUD	KAR	BAJ	ALM	MAND
29	P529	HKI 141	2.5	3.0	2.3	2.0	2.0	2.5
30	P530	HKI C 323	4.0	2.5	2.3	2.0	2.0	3.5
31	P531	HKI 1352-5-8-9	2.0	4.0	1.8	2.0	1.0	2.0
32	P532	Pool 16 BNSEQ.C3F6x38-1	2.5	4.0	2.8	2.5	1.0	3.0
33	P533	ae-40	2.5	2.5	3.3	2.0	2.0	3.5
34	P534	CML 141	3.0	1.5	1.8	2.0	1.0	3.0
35	P535	CML 269	-	1.5	2.0	1.5	1.0	NG
36	P536	CML 384	1.5	2.5	3.8	1.5	2.0	3.0
37	P537	HKI 164-3 (2-1)-1	2.5	3.0	2.5	1.5	1.5	3.0
38	P538	HKI 164-7-4	3.0	4.0	3.0	2.0	1.0	3.0
39	P539	BML6	3.5	3.5	2.5	2.0	1.5	3.5
40	P540	BML7	2.5	2.0	1.8	2.0	2.0	2.5
41	P541	HKI 193-2-2-1	3.5	2.5	2.8	2.0	2.0	2.0
42	P542	CM111	3.5	3.5	1.8	2.5	2.0	2.0
43	P543	CM130	2.5	2.5	3.0	2.5	1.0	4.0
44	P544	CM119	3.0	3.5	2.8	1.5	1.0	3.5
45	P545	CM500	1.5	3.5	2.8	2.0	2.0	3.0
46	P546	CML171	1.5	4.0	3.3	2.0	NG	2.5
47	P547	CML172	5.0	3.5	2.3	1.5	NG	3.5
48	P548	HKI-MBR-139-2	2.5	2.5	1.8	1.5	1.0	2.5
49	P549	DMR QPM-03-104	2.0	3.0	3.0	2.5	2.5	4.5
50	P550	DMR QPM-58-26	3.0	3.5	2.8	3.5	3.5	4.5
51	P551	CLQ-RCYQ30	2.5	2.5	2.3	2.0	2.0	3.5
52	P552	CML 451Q	3.5	2.5	2.0	2.5	2.0	4.5
53	P553	HIGH OIL POPULATION II	2.5	2.0	3.0	2.5	2.0	4.5
54	P554	DMHOC4	3.5	2.0	2.8	2.5	2.0	3.5
55	P555	02POOL 33 C24	4.5	4.0	2.8	2.0	2.0	4.0
56	P556	Temp. Trop High oil QPM	2.0	2.0	2.3	1.5	2.0	3.5
57	P557	PFSR - R2	3.0	3.5	2.3	2.0	1.0	3.0
58	P558	PFSR - R3	2.0	2.0	2.5	2.0	1.0	2.5
59	P559	PFSR - R9	2.0	1.5	1.3	2.0	1.0	2.5

Contd.

Table 11

MLB (Disease rating scale 1-5) TLB (Disease rating scale 1-5)

S.no	Plot no	Genotypes	DEL	LUD	KAR	BAJ	ALM	MAND
60	P560	PFSR - R10	2.0	2.5	2.0	2.5	1.0	2.5
61	P561	SC7-2-1-2-6	4.0	3.5	2.5	2.0	3.0	5.0
62	P562	PFSR - S2	3.0	3.5	2.0	2.5	4.5	4.0
63	P563	PFSR - S3	2.5	2.0	2.3	1.5	1.5	2.5
64	P564	SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-	2.0	2.0	1.8	2.5	1.0	2.5
65	P565	JCY2-1-2-1-1B-1-2-3-1-1-1	2.0	2.0	1.8	2.0	NG	2.5
66	P566	JCY2-7-1-2-1-B-1-2-1-1	2.5	2.5	2.0	2.0	NG	2.5
67	P567	JCY3-7-1-2-1-B-1-1-4-1	2.5	2.5	1.8	2.5	NG	4.5
68	P568	BML5	4.0	3.0	2.8	1.5	2.0	3.5
69	P569	CML44	2.5	2.5	2.8	2.0	2.5	3.5
70	P570	CML175	3.0	3.5	2.8	2.0	2.0	3.0
71	P571	CML117-3-4-1-1-4-1	2.0	2.5	3.3	1.5	1.0	3.5
72	P572	PFSR5106/1	2.0	2.0	2.3	2.0	1.0	3.0
73	P573	42048-2-2-1-1-1-2	3.0	2.0	2.5	2.0	2.5	3.5
74	P574	TS2TR1107	2.5	2.5	2.8	2.0	1.0	3.0
75	P575	SW-933D-313-23-POP.49-S4-1	2.5	2.0	2.5	2.5	4.0	5.0
76	P576	ITNA04	3.5	2.0	3.3	2.0	3.0	3.0
77	P577	42050-1-1-2-1-3	2.0	2.0	2.3	2.0	2.0	2.5
78	P578	CM501	2.0	1.5	1.5	2.0	2.5	3.0
79	P579	DMSC16-1	2.5	2.0	1.5	2.0	NG	3.5
80	P580	JCY2-2-4-1	3.0	2.5	2.8	2.0	NG	2.5
81	P581	POBLAC 61 C4	-	3.0	3.0	2.0	NG	3.5
82	P582	HKI193-1	3.5	3.5	2.3	2.0	NG	2.5
83	P583	LM5	2.5	1.5	2.8	2.0	NG	3.5
84	P584	DTPCYF946	3.5	3.5	3.5	2.0	NG	3.5
85	P585	BML15	2.0	3.5	2.5	2.0	2.5	4.0
86	P586	BML8	3.0	4.5	2.5	2.0	1.5	3.5
87	P586A	Susceptible check	4.5	3.5	-	1.5	4.5	5.0
88	P586B	Resistant check	2.0	2.0	-	4.0	1.5	1.5

\* **Resistant check** : MLB-HKI 288-2 (Karnal), SC 24-(92) - 3-2-1-1 (Delhi), **TLB** - CML 168 (Bajaura), V373 (Almora), Nithyshree (Mandya),

\* **Suseptible check** : MLB -HKI 335 (Karnal), CM 119 (Delhi), **TLB** - UC 536 (Bajaura),(219J) (Mandya), V351 (Almora),

Contd.



**Table 11**

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM (1-5)
			DEL	DHAU	PANT	KAR	DHAU
1	P501	Mas madu (sh2 sh2)-	4.0	-	4.0	4.0	1.0
2	P502	CUBA 380	4.0	2.0	4.0	4.0	1.0
3	P503	NC 392	4.0	4.0	4.0	3.0	1.0
4	P504	DMSC3	4.5	3.0	5.0	4.0	1.0
5	P505	HKISCST	4.0	-	3.0	3.0	2.0
6	P506	WINPOP2	4.5	4.0	5.0	3.0	3.0
7	P507	HKI PC 4B	4.0	2.0	5.0	4.0	5.0
8	P508	HKI-PC-5	4.0	-	5.0	4.0	5.0
9	P509	HKI-PC-7	3.5	-	5.0	4.0	5.0
10	P510	HKI PC 8	4.0	1.0	5.0	4.0	1.0
11	P511	CLQRCY47B	4.0	4.0	4.0	4.0	1.0
12	P512	WINPOP-21	3.0	4.0	5.0	3.0	1.0
13	P513	WINPOP-43	4.0	4.0	5.0	3.0	1.0
14	P514	HKI 1040-5	4.5	3.0	3.5	4.0	1.0
15	P515	HKI-1040-11-7	4.0	4.0	3.5	3.0	1.0
16	P516	ESM-11-3	4.0	3.0	NG	4.0	1.0
17	P517	Gen 6033	3.5	5.0	4.0	4.0	1.0
18	P518	Hyd05R/2-1	3.5	5.0	NG	4.0	1.0
19	P519	Hyd05R/13-2	4.5	3.0	4.5	4.0	1.0
20	P520	LM12	-	3.0	4.5	4.0	2.0
21	P521	LM 15	3.5	2.0	4.5	4.5	3.0
22	P522	LM13	3.5	4.0	5.0	4.5	3.0
23	P523	LM 16	4.0	1.3	3.0	4.0	2.0
24	P524	CM121	3.5	-	5.0	4.0	3.0
25	P525	CM114	4.0	4.0	5.0	4.5	4.0
26	P526	CM202	3.5	2.0	3.5	4.0	1.0
27	P527	CM 144	3.0	3.0	5.0	4.0	2.0
28	P528	HKI C 78	4.0	3.0	5.0	3.5	3.0

Contd.

Table 11

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM (1-5)
			DEL	DHAU	PANT	KAR	DHAU
29	P529	HKI 141	3.0	3.0	3.5	4.0	1.0
30	P530	HKI C 323	3.5	-	4.0	4.0	1.0
31	P531	HKI 1352-5-8-9	2.0	1.3	5.0	4.0	1.0
32	P532	Pool 16 BNSEQ.C3F6x38-1	3.5	1.3	4.5	5.0	1.0
33	P533	ae-40	2.5	-	5.0	5.0	1.0
34	P534	CML 141	2.0	1.3	NG	5.0	1.0
35	P535	CML 269	3.0	4.0	NG	4.0	1.0
36	P536	CML 384	4.0	1.5	5.0	4.5	1.0
37	P537	HKI 164-3 (2-1)-1	-	3.0	NG	4.5	1.0
38	P538	HKI 164-7-4	-	4.0	NG	4.0	1.0
39	P539	BML6	2.5	3.0	5.0	5.0	1.0
40	P540	BML7	-	4.0	NG	5.0	1.0
41	P541	HKI 193-2-2-1	4.0	3.0	NG	4.0	1.0
42	P542	CM111	2.5	4.0	4.0	4.0	1.0
43	P543	CM130	5.0	4.0	NG	3.0	1.0
44	P544	CM119	4.0	-	NG	4.0	1.0
45	P545	CM500	4.0	4.0	3.0	3.0	1.0
46	P546	CML171	3.5	-	NG	4.0	1.0
47	P547	CML172	3.5	2.0	5.0	4.0	1.0
48	P548	HKI-MBR-139-2	3.5	-	4.0	4.0	3.0
49	P549	DMR QPM-03-104	3.0	3.0	4.5	4.0	3.0
50	P550	DMR QPM-58-26	4.0	3.0	NG	4.0	1.0
51	P551	CLQ-RCYQ30	3.5	3.0	NG	5.0	1.0
52	P552	CML 451Q	4.0	3.0	3.0	5.0	1.0
53	P553	HIGH OIL POPULATION II	2.5	4.0	NG	5.0	1.0
54	P554	DMHOC4	3.0	3.0	NG	3.5	1.0
55	P555	02POOL 33 C24	2.5	-	4.0	4.0	1.0
56	P556	Temp. Trop High oil QPM	3.0	3.0	4.5	3.5	3.0
57	P557	PFSR - R2	2.5	3.0	3.0	4.0	1.0
58	P558	PFSR - R3	2.5	4.0	3.5	3.0	3.0
59	P559	PFSR - R9	2.5	3.0	3.0	3.5	1.0

Contd.

Table 11

S.no	Plot no	Genotypes	BLSB (Disease rating scale 1-5)				BSDM
			DEL	DHAU	PANT	KAR	(1-5) DHAU
60	P560	PFSR - R10	2.5	3.0	3.5	4.0	1.0
61	P561	SC7-2-1-2-6	-	3.0	5.0	3.0	1.0
62	P562	PFSR - S2	4.0	2.0	4.0	4.0	1.0
63	P563	PFSR - S3	2.5	3.0	3.0	4.0	1.0
64	P564	SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2	4.0	4.0	3.0	-	1.0
65	P565	JCY2-1-2-1-1B-1-2-3-1-1-1	3.5	4.0	3.5	4.0	1.0
66	P566	JCY2-7-1-2-1-B-1-2-1-1	-	4.0	3.5	-	1.0
67	P567	JCY3-7-1-2-1-B-1-1-4-1	4.0	3.0	4.5	5.0	1.0
68	P568	BML5	3.5	4.0	5.0	-	1.0
69	P569	CML44	3.0	3.0	3.5	4.0	1.0
70	P570	CML175	3.0	2.0	NG	4.0	1.0
71	P571	CML117-3-4-1-1-4-1	3.0	4.0	3.0	3.5	1.0
72	P572	PFSR5106/1	3.0	3.0	3.0	5.0	1.0
73	P573	42048-2-2-1-1-1-2	2.5	3.0	4.0	5.0	1.0
74	P574	TS2TR1107	3.5	4.0	4.0	5.0	1.0
75	P575	SW-933D-313-23-POP.49-S4-1	-	3.0	4.5	-	1.0
76	P576	ITNA04	2.5	3.0	5.0	-	1.0
77	P577	42050-1-1-2-1-3	4.0	3.0	3.5	5.0	2.0
78	P578	CM501	2.5	3.0	4.5	4.0	1.0
79	P579	DMSC16-1	3.5	4.0	4.5	4.5	1.0
80	P580	JCY2-2-4-1	3.0	3.0	4.5	4.5	1.0
81	P581	POBLAC 61 C4	2.5	3.0	4.5	4.5	4.0
82	P582	HKI193-1	2.0	3.0	4.5	3.5	1.0
83	P583	LM5	4.0	4.0	4.0	3.5	1.0
84	P584	DTPCYF946	3.5	4.0	4.5	4.0	1.0
85	P585	BML15	2.5	3.0	4.5	3.5	1.0
86	P586	BML8	2.5	2.5	NG	3.5	1.0
87	P586A	Susceptible check	4.5	-	-	-	-
88	P586B	Resistant check	-	-	-	-	-

\* Resistant check : BLSB - HKI 288-2(Karnal),

\* Suseptible check : BLSB - CM 501 (Delhi),HKI 335 (Karnal),

Contd.

Table 11

S.no	Plot no	Genotypes	PFSR (Disease rating scale 1-9)				SDM (%)	
			HYD	LUD	UDP	DEL	COIM	MAN
1	P501	Mas madu (sh2 sh2)-	7.6	5.0	1.4	-	62.5	100.0
2	P502	CUBA 380	8.0	3.6	2.8	2.0	90.9	100.0
3	P503	NC 392	6.5	6.8	3.1	1.0	27.3	100.0
4	P504	DMSC3	8.0	6.0	2.4	1.0	100.0	100.0
5	P505	HKISCST	7.3	7.1	2.4	2.8	66.7	100.0
6	P506	WINPOP2	-	5.0	1.5	1.0	83.3	100.0
7	P507	HKI PC 4B	6.3	5.2	1.5	2.4	50.0	100.0
8	P508	HKI-PC-5	7.3	7.5	2.9	1.0	90.9	100.0
9	P509	HKI-PC-7	3.6	3.9	4.9	-	88.9	100.0
10	P510	HKI PC 8	3.6	3.1	5.2	2.0	50.0	100.0
11	P511	CLQRCY47B	4.3	4.5	2.5	1.0	44.4	100.0
12	P512	WINPOP-21	7.1	4.4	4.7	2.3	83.3	100.0
13	P513	WINPOP-43	6.1	7.8	2.0	1.0	66.7	100.0
14	P514	HKI 1040-5	5.2	8.2	7.3	1.0	100.0	85.7
15	P515	HKI-1040-11-7	5.9	5.6	3.1	1.0	87.5	100.0
16	P516	ESM-11-3	7.0	5.7	2.1	1.0	100.0	100.0
17	P517	Gen 6033	3.8	3.2	1.6	1.0	100.0	85.7
18	P518	Hyd05R/2-1	7.3	3.0	3.0	-	100.0	100.0
19	P519	Hyd05R/13-2	4.9	7.3	2.3	4.0	27.3	100.0
20	P520	LM12	6.2	3.2	1.1	1.0	62.5	33.3
21	P521	CM119 (MLB susceptible check)	6.2	4.6	1.9	2.3	60.0	100.0
22	P522	SC24-(92)-3-2-1-1 (MLB resistant check)	5.0	5.0	1.3	2.3	100.0	100.00
23	P523	LM 16	7.3	5.1	1.7	1.0	90.0	100.0
24	P524	CM121	3.3	6.6	2.0	2.8	81.8	100.0
25	P525	CM114	6.0	4.7	3.4	6.0	87.5	100.0
26	P526	CM202	3.0	4.2	2.6	1.0	77.8	100.0
27	P527	CM 144	7.0	3.0	2.5	1.0	20.0	100.0
28	P528	HKI C 78	7.1	5.4	2.3	2.5	40.0	100.0

Contd.

Table 11

S.no	Plot no	Genotypes	PFSR (Disease rating scale 1-9)				SDM (%)	
			HYD	LUD	UDP	DEL	COIM	MAN
29	P529	HKI 141	3.8	6.8	3.0	1.0	62.5	87.5
30	P530	HKI C 323	3.3	6.2	2.4	2.5	72.7	80.0
31	P531	HKI 1352-5-8-9	6.3	4.7	2.8	1.0	100.0	100.0
32	P532	Pool 16 BNSEQ.C3F6x38-1	7.8	5.2	8.4	5.0	66.7	100.0
33	P533	ae-40	6.0	4.3	8.2	-	11.1	62.5
34	P534	CML 141	6.8	4.8	3.3	3.5	66.7	100.0
35	P535	CML 269	6.4	4.6	3.1	1.0	100.0	100.0
36	P536	CML 384	5.3	4.5	5.6	1.0	62.5	50.0
37	P537	HKI 164-3 (2-1)-1	6.6	6.8	1.9	8.0	88.9	100.0
38	P538	HKI 164-7-4	-	5.8	7.8	-	100.0	100.0
39	P539	BML6	7.8	8.4	2.1	8.0	62.5	100.0
40	P540	BML7	5.0	5.6	3.5	1.0	0.0	50.0
41	P541	CM119 (MLB susceptible check)	4.3	4.6	1.3	6.0	40.0	90.0
42	P542	CM111	2.3	4.6	3.7	2.0	20.0	100.0
43	P543	CM130	7.5	5.8	4.2	1.0	12.5	100.0
44	P544	CM119	2.6	6.5	2.9	1.0	100.0	100.0
45	P545	CM500	-	3.2	3.4	4.0	77.8	100.0
46	P546	CML171	4.5	4.8	3.3	1.0	44.4	100.0
47	P547	CML172	3.7	5.7	3.7	2.0	87.5	100.0
48	P548	HKI-MBR-139-2	4.6	4.7	5.5	1.4	62.5	100.0
49	P549	DMR QPM-03-104	5.4	4.5	1.6	1.0	100.0	100.0
50	P550	DMR QPM-58-26	-	5.2	2.5	1.5	66.7	87.5
51	P551	CLQ-RCYQ30	4.0	6.8	2.7	2.3	90.0	83.3
52	P552	CML 451Q	7.0	3.8	2.5	1.9	33.3	100.0
53	P553	HIGH OIL POPULATION II	6.5	4.4	4.2	1.0	71.4	100.0
54	P554	DMHOC4	4.5	3.8	4.3	1.8	40.0	71.4
55	P555	02POOL 33 C24	3.3	5.0	1.8	4.2	75.0	90.0
56	P556	Temp. Trop High oil QPM	3.7	3.6	3.7	1.0	18.2	90.9
57	P557	PFSR - R2	5.8	3.5	2.5	1.0	12.5	100.0
58	P558	PFSR - R3	3.2	4.6	2.2	1.0	0.0	30.8
59	P559	PFSR - R9	3.2	4.2	2.4	2.6	22.2	77.8

Contd.

Table 11

S.no	Plot no	Genotypes	PFSR (Disease rating scale 1-9)				SDM (%)	
			HYD	LUD	UDP	DEL	COIM	MAN
60	P560	PFSR - R10	3.3	3.4	5.6	1.0	33.3	80.0
61	P561	SC7-2-1-2-6	8.0	8.2	5.2	5.3	88.9	100.0
62	P562	PFSR - S2	-	4.6	5.2	3.7	87.5	100.0
63	P563	PFSR - S3	2.4	5.8	2.7	2.8	40.0	42.9
64	P564	SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2	3.3	3.6	2.8	1.7	10.0	100.0
65	P565	JCY2-1-2-1-1B-1-2-3-1-1-1	3.0	3.4	1.6	1.0	33.3	37.5
66	P566	JCY2-7-1-2-1-B-1-2-1-1	5.4	4.0	1.7	1.0	87.5	50.0
67	P567	JCY3-7-1-2-1-'B-1-1-4-1	-	5.2	1.3	1.0	66.7	50.0
68	P568	BML5	2.5	3.7	1.9	1.0	100.0	100.0
69	P569	CML44	-	5.1	1.9	3.6	50.0	100.0
70	P570	CML175	3.3	2.7	1.0	1.0	62.5	50.0
71	P571	CML117-3-4-1-1-4-1	2.5	4.4	2.2	3.9	0.0	100.0
72	P572	PFSR5106/1	2.7	4.0	1.7	4.2	22.2	75.0
73	P573	42048-2-2-1-1-1-2	4.3	3.7	1.8	1.0	18.2	33.3
74	P574	TS2TR1107	5.3	2.7	2.2	1.0	37.5	87.5
75	P575	SW-933D-313-23-POP.49-S4-1	3.6	7.5	7.5	2.7	90.9	100.0
76	P576	ITNA04	7.8	6.8	7.1	2.7	71.4	100.0
77	P577	42050-1-1-2-1-3	4.3	3.8	2.9	3.7	20.0	100.0
78	P578	CM501	3.5	4.5	2.1	1.0	20.0	25.0
79	P579	DMSC16-1	8.0	7.2	3.5	3.0	100.0	100.0
80	P580	JCY2-2-4-1	4.3	6.4	1.7	1.0	57.1	100.0
81	P581	CM119 (MLB susceptible check)	5.3	8.6	7.0	9.0	66.7	70.0
82	P582	HKI193-1	5.0	4.5	1.7	1.0	0.0	100.0
83	P583	LM5	5.3	3.1	1.4	2.3	100.0	100.0
84	P584	DTPCYF946	7.6	5.2	7.2	1.0	100.0	100.0
85	P585	BML15	3.3	5.4	1.9	4.5	42.9	77.8
86	P586	BML8	5.5	2.2	3.3	1.0	90.9	100.0
87	P586A	Susceptible check	7.4	6.0	8.0	3.5	-	100.0
88	P586B	Resistant check	2.6	3.5	1.2	1.0	-	-

\* **Resistant check** : PFSR - PFSR R 10 (Delhi),Talk Local (Udaipur), **SDM** - TNAU Co-6(Coimbatore),NAH 1137 (Mandya),

\* **Suseptible check** : PFSR - HKI PC 5 (Delhi), Surya (Udaipur), **SDM** - CM 500 (Coimbatore), CM - 500 (Mandya),

Contd.

<b>Table 11</b>			<b>RDM</b>	<b>ESR</b>	<b>P.RUST CLS</b>		
<b>S.no</b>	<b>Plot no</b>	<b>Genotypes</b>	<b>(%)</b>	<b>(%)</b>	<b>(Disease rating scale 1-5)</b>		
			<b>UDP</b>	<b>DHAU</b>	<b>PANT</b>	<b>MAN</b>	<b>UDP</b>
1	P501	Mas madu (sh2 sh2)-	64.0	-	66.7	1.5	4.5
2	P502	CUBA 380	67.0	50.0	50.0	2.5	3.0
3	P503	NC 392	80.0	42.9	Ng	3.0	3.0
4	P504	DMSC3	100.0	16.7	0.0	4.0	3.0
5	P505	HKISCST	100.0	66.7	75.0	3.0	2.0
6	P506	WINPOP2	86.0	33.3	50.0	4.0	2.5
7	P507	HKI PC 4B	80.0	22.2	50.0	3.0	4.0
8	P508	HKI-PC-5	100.0	14.3	100.0	4.5	5.0
9	P509	HKI-PC-7	100.0	66.7	50.0	3.0	5.0
10	P510	HKI PC 8	100.0	0.0	100.0	3.0	4.0
11	P511	CLQRCY47B	100.0	28.6	0.0	3.5	3.5
12	P512	WINPOP-21	100.0	28.6	80.0	3.5	3.5
13	P513	WINPOP-43	100.0	20.0	50.0	3.0	3.0
14	P514	HKI 1040-5	100.0	50.0	100.0	2.0	3.5
15	P515	HKI-1040-11-7	NG	50.0	0.0	2.0	4.5
16	P516	ESM-11-3	100.0	25.0	0.0	4.0	4.5
17	P517	Gen 6033	40.0	25.0	NG	4.5	4.0
18	P518	Hyd05R/2-1	60.0	33.3	0.0	2.0	2.5
19	P519	Hyd05R/13-2	0.0	28.6	NG	2.5	3.5
20	P520	LM12	NG	28.6	50.0	2.5	1.5
21	P521	CM119 (MLB susceptible check)	100.0	12.5	0.0	3.0	1.5
22	P522	SC24-(92)-3-2-1-1 (MLB resistant check)	100.0	50.0	0.0	3.5	1.5
23	P523	LM 16	100.0	25.0	0.0	3.5	1.5
24	P524	CM121	100.0	50.0	0.0	3.5	2.0
25	P525	CM114	100.0	33.3	100.0	2.0	4.5
26	P526	CM202	86.0	16.7	75.0	3.5	3.5
27	P527	CM 144	83.0	0.0	25.0	3.5	2.0
28	P528	HKI C 78	100.0	28.6	25.0	2.0	3.0

Contd.

Table 11			RDM	ESR		P.RUST	CLS
S.no	Plot no	Genotypes	(%)	(%)		(Disease rating scale 1-5)	
			UDP	DHAU	PANT	MAN	UDP
29	P529	HKI 141	100.0	50.0	0.0	3.0	3.5
30	P530	HKI C 323	71.0	66.7	0.0	2.0	3.0
31	P531	HKI 1352-5-8-9	83.0	22.2	0.0	2.0	3.5
32	P532	Pool 16 BNSEQ.C3F6x38-1	88.0	57.1	0.0	2.5	2.0
33	P533	ae-40	0.0	45.5	75.0	2.5	1.5
34	P534	CML 141	100.0	60.0	NG	2.0	2.5
35	P535	CML 269	100.0	100.0	NG	NG	3.5
36	P536	CML 384	89.0	0.0	100.0	2.0	3.0
37	P537	HKI 164-3 (2-1)-1	100.0	40.0	NG	2.0	1.0
38	P538	HKI 164-7-4	100.0	0.0	NG	3.0	1.5
39	P539	BML6	0.0	14.3	75.0	2.0	1.0
40	P540	BML7	0.0	0.0	NG	2.0	2.0
41	P541	CM119 (MLB susceptible check)	33.0	71.4	NG	2.0	4.0
42	P542	CM111	86.0	0.0	0.0	3.5	2.5
43	P543	CM130	100.0	14.3	NG	4.0	2.5
44	P544	CM119	100.0	100.0	NG	3.5	4.5
45	P545	CM500	100.0	50.0	50.0	2.5	1.5
46	P546	CML171	83.0	-	NG	2.5	2.0
47	P547	CML172	100.0	66.7	50.0	4.5	1.5
48	P548	HKI-MBR-139-2	100.0	100.0	50.0	3.5	1.5
49	P549	DMR QPM-03-104	100.0	66.7	0.0	4.0	3.5
50	P550	DMR QPM-58-26	75.0	40.0	NG	4.5	4.0
51	P551	CLQ-RCYQ30	63.0	0.0	NG	4.5	2.5
52	P552	CML 451Q	83.0	25.0	20.0	2.5	3.5
53	P553	HIGH OIL POPULATION II	67.0	50.0	NG	4.0	0.5
54	P554	DMHOC4	40.0	25.0	NG	4.0	0.5
55	P555	02POOL 33 C24	91.0	66.7	50.0	3.5	4.5
56	P556	Temp. Trop High oil QPM	89.0	16.7	0.0	3.5	4.5
57	P557	PFSR - R2	42.0	37.5	0.0	2.0	3.0
58	P558	PFSR - R3	33.0	25.0	0.0	3.5	3.0
59	P559	PFSR - R9	0.0	22.2	0.0	2.5	1.0

Contd.



Table 11			RDM	ESR	P.RUST		CLS
S.no	Plot no	Genotypes	(%)	(%)	(Disease rating scale 1-5)		
			UDP	DHAU	PANT	MAN	UDP
60	P560	PFSR - R10	92.0	33.3	0.0	3.5	1.5
61	P561	SC7-2-1-2-6	89.0	100.0	66.7	4.0	4.0
62	P562	PFSR - S2	100.0	50.0	0.0	3.0	4.5
63	P563	PFSR - S3	20.0	20.0	0.0	3.5	4.0
64	P564	SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2	0.0	25.0	0.0	2.5	3.0
65	P565	JCY2-1-2-1-1B-1-2-3-1-1-1	0.0	28.6	0.0	3.0	0.5
66	P566	JCY2-7-1-2-1-B-1-2-1-1	22.0	50.0	25.0	2.5	1.0
67	P567	JCY3-7-1-2-1-'B-1-1-4-1	33.0	16.7	50.0	3.5	1.5
68	P568	BML5	100.0	40.0	0.0	3.0	3.0
69	P569	CML44	86.0	0.0	0.0	3.0	4.0
70	P570	CML175	80.0	20.0	NG	3.0	2.5
71	P571	CML117-3-4-1-1-4-1	58.0	0.0	0.0	3.0	3.5
72	P572	PFSR5106/1	40.0	0.0	50.0	2.5	3.0
73	P573	42048-2-2-1-1-1-2	94.0	14.3	75.0	3.5	3.5
74	P574	TS2TR1107	78.0	50.0	0.0	3.5	1.0
75	P575	SW-933D-313-23-POP.49-S4-1	100.0	75.0	0.0	4.5	2.5
76	P576	ITNA04	100.0	100.0	100.0	2.5	3.0
77	P577	42050-1-1-2-1-3	0.0	20.0	33.3	2.5	3.5
78	P578	CM501	0.0	28.6	80.0	4.0	1.0
79	P579	DMSC16-1	100.0	25.0	66.7	2.5	4.0
80	P580	JCY2-2-4-1	0.0	14.3	80.0	3.0	3.5
81	P581	CM119 (MLB susceptible check)	100.0	25.0	60.0	4.5	3.5
82	P582	HKI193-1	50.0	0.0	50.0	2.0	4.0
83	P583	LM5	100.0	0.0	16.7	4.0	4.5
84	P584	DTPCYF946	100.0	33.3	50.0	4.5	1.0
85	P585	BML15	0.0	14.3	33.3	4.0	1.0
86	P586	BML8	100.0	100.0	NG	3.5	3.0
87	P586A	Susceptible check	100.0	-	-	5.0	0.5
88	P586B	Resistant check	0.0	-	-	1.5	4.5

\* **Resistant check** : RDM-Talk Local (Udaipur), **P. RUST**- Nithyashree (Mandya), **CLS** - Talk Local (Udaipur)

\* **Suseptible check** : RDM - Surya (Udaipur), **P. RUST**- (219J) (Mandya), **CLS** - Surya (Udaipur)

Table 12. Evaluation of maize genotypes against PFSR at Hyderabad, Udaipur, Delhi and Ludhiana during Kharif 2012

Plot No.	Genotypes	PFSR (Disease Rating scale 1-9)			
		HYD	UDP	LUD	DEL
121001	SW930D	3.0	1.5	6.0	2.2
121002	JCY3-7-1-2-B2	2.6	3.1	7.0	1.0
121003	42050-1-1	5.0	1.8	6.3	3.5
121004	CML 370-1-2	4.4	2.3	6.7	2.0
121005	TL02A-1184A	6.2	5.2	6.6	3.8
121006	JCY3-7-1-2-B6-	4.7	6.6	4.7	1.0
121007	CML248-2-1	5.7	3.4	6.7	5.3
121008	CML269-1-2	3.4	6.8	3.1	1.0
121009	TL02A-1184A32-4-1	3.7	4.7	5.0	1.0
121010	AF-4B-5779	5.8	2.0	2.3	1.0
121011	AF04B5796	2.6	1.3	3.0	4.2
121012	CM115-4-2	3.2	1.7	4.0	1.1
121013	SKV18-1	6.0	4.0	4.7	1.0
121014	CML249-1	5.2	6.8	6.7	4.7
121015	PFSR(Y)C0-1	2.4	4.0	3.3	1.0
121016	SCHECK	6.8	8.6	5.8	6.8
121017	V406-2	4.2	8.2	4.0	3.0
121018	V338-1	3.5	5.3	6.0	1.0
121019	PFSR(Y)C1-A-A1-PINKSHANK	3.0	4.5	6.5	2.3
121020	PFSR(Y)C1-A-B1-WHITE SHANK	3.0	7.2	6.7	5.0
121021	PFSR(Y)C1-B1	4.4	4.0	6.0	2.2
121022	PFSR(Y)C0-3-1	2.4	5.0	3.0	1.0
121023	PFSR(White)-3	6.3	2.1	6.3	1.0
121024	Extra Early (white)-1	5.0	1.3	7.7	1.0
121025	Indimmyt100-2	5.0	5.5	6.2	5.4
121026	Indimmyt300A	4.1	3.2	7.0	4.7
121027	Indimmyt300B	5.2	6.4	6.0	2.6
121028	Indimmyt145-2	2.8	6.4	7.0	1.7
121029	Indimmyt345-3	4.5	5.9	3.5	1.0
121030	HEyplloEE	No seed	8.2	7.6	4.0
	Sus. check	-	8.4	6.2	7.4
	Res. checks	-	1.8	-	-
	Checks	-	-	6.0	-

Table 13. Evaluation of specialty corn against various diseases of maize during Kharif 2012

S.No	Genotypes	TLB (Disease rating scale 1-5)					MLB (Disease rating scale 1-5)					PFSR(Disease rating scale 1-9)			
		ARB	ALM	BAJ	MAND	BAP	DEL	ALM	BAJ	KAR	LUD	DHAU	HYD	UDP	LUD
1.	UQMH-4	2.7	1.5	2.5	4.8	3.9	3.0	1.0	2.0	1.8	3.5	3.0	5.0	4.1	4.6
2.	UQMH-5	2.9	1.5	2.0	5.0	3.9	2.5	1.0	2.5	2.8	2.8	3.0	3.9	2.5	6.5
3.	HQPM-1(FILLER)	2.6	1.5	1.8	3.8	3.4	2.5	1.0	2.5	2.0	3.5	3.0	2.0	2.2	5.6
4.	HQPM-2( FILLER)	3.1	1.5	1.5	2.0	3.4	2.5	1.5	1.8	3.3	3.8	3.0	2.3	1.9	3.3
5.	VEHQ-3020	2.9	2.0	1.5	3.0	3.4	2.5	1.5	2.0	2.3	3.8	3.0	2.3	2.0	4.0
6.	MHQPM-09-7	2.6	1.5	1.5	4.5	3.9	2.5	1.0	2.5	1.0	3.5	2.5	4.0	6.2	3.9
7.	MHQPM-09-6	2.9	1.5	1.8	4.3	3.2	3.0	1.5	2.5	1.5	3.8	4.0	5.6	4.8	6.2
8.	MHQPM-09-8	2.5	1.5	2.5	3.8	3.4	2.5	1.0	2.5	2.3	3.0	3.0	4.1	1.7	5.0
9.	HQPM-1(FILLER)	2.7	2.0	2.0	3.5	3.3	2.5	1.5	2.5	3.0	3.5	2.0	2.3	1.8	4.3
10.	HQPM-1( FILLER)	2.1	1.0	2.0	4.3	3.4	2.5	1.5	2.5	2.8	3.8	3.0	1.9	1.8	4.1
11.	EHQ-16	2.2	1.0	2.0	2.0	3.3	2.5	2.0	2.5	2.8	2.8	3.0	2.5	3.8	3.9
12.	HQPM-7( FILLER)	2.9	1.5	2.0	3.3	3.2	2.5	2.0	2.5	1.8	3.3	2.5	2.4	1.9	3.0
13.	HQPM-5(FILLER)	3.0	2.0	2.0	4.3	3.3	2.0	1.5	2.0	2.3	3.5	2.5	4.1	2.5	4.0
14.	HQPM-1(C)	2.8	1.0	2.0	3.5	3.4	3.0	1.5	2.3	1.0	3.0	4.0	5.6	1.6	3.1
15.	HQPM-5 (C)	2.5	1.0	2.0	3.3	3.3	2.0	1.0	2.0	2.3	2.8	3.0	3.5	2.3	3.8
16.	HQPM-7 (C)	2.7	1.0	2.0	5.0	3.4	2.5	2.0	2.0	3.0	2.8	3.0	3.5	1.2	3.2
17.	HQPM-4 (C)	2.7	1.5	2.0	3.0	3.1	2.0	2.5	2.3	3.0	4.0	4.0	2.0	3.1	3.3
	POPCORN														
18.	VL Popcorn 2	2.5	1.5	3.5	4.0	4.5	4.5	1.0	1.8	2.8	4.5	4.0	4.4	5.2	7.7
19.	Amberpopcorn (FILLER)	2.0	2.0	3.5	4.8	4.2	4.5	1.0	2.0	2.5	4.0	3.0	4.3	7.3	4.1
20.	Bajaura Popcorn	2.2	2.5	4.0	4.8	4.3	4.0	1.5	2.0	1.8	4.0	4.0	2.5	5.1	7.2
21.	Amberpopcor (C)	2.5	2.0	3.5	5.0	4.6	4.0	1.0	2.3	2.3	4.3	4.0	5.4	8.1	6.0
	SWEET CORN														
22.	FSCH-17	2.5	2.0	3.0	4.3	3.6	2.5	1.0	2.0	2.3	3.5	3.0	3.0	5.6	7.0
23.	FSCH-18	2.8	1.0	3.0	4.8	3.5	3.0	1.0	2.0	2.0	4.0	3.0	5.1	3.2	7.6

Contd.

**P86**

Table 13.

S.No	Genotypes	TLB (Disease rating scale 1-5)					MLB (Disease rating scale 1-5)					PFSR(Disease rating scale 1-9)			
		ARB	ALM	BAJ	MAND	BAP	DEL	ALM	BAJ	KAR	LUD	DHAU	HYD	UDP	LUD
24	KSCH-222 (Filler)	2.9	2.5	1.5	5.0	3.5	2.5	1.0	2.8	1.5	3.8	-	5.4	5.5	8.7
25	BHCH 63	1.9	3.5	3.8	4.5	3.3	2.5	1.0	2.0	2.5	4.5	2.0	5.7	5.4	7.4
26	KSCH 222	2.6	2.5	1.5	5.0	4.4	2.5	1.0	1.5	2.0	4.0	2.0	4.9	4.5	8.2
27	BISCO MADHU	2.7	3.5	2.8	4.8	4.2	2.0	1.0	2.8	1.8	2.5	1.3	4.4	4.5	5.9
28	Bajaura sweetcorn (FILLER)	2.7	1.5	3.0	4.8	3.3	2.5	2.5	2.8	1.8	3.5	3.0	5.2	5.7	6.0
29	Bajaura sweetcorn	2.3	1.5	1.5	4.3	3.5	3.5	1.0	2.0	1.8	3.5	1.3	5.5	6.0	8.1
30	KSCH 333	2.2	2.0	1.8	5.0	3.2	2.0	1.5	1.8	1.5	3.3	2.0	4.3	4.1	5.6
31	NSCH 12	1.9	2.0	2.0	4.5	3.4	2.0	2.0	2.0	2.0	4.0	3.0	5.3	2.6	6.3
32	WOSC (C)	2.4	2.5	1.5	4.8	3.3	3.0	2.0	1.5	3.0	4.0	3.0	3.0	4.1	6.7
	BABY CORN														
33	Almora hybrid	2.5	1.0	2.0	4.0	3.4	3.5	1.5	2.5	2.3	4.3	2.0	5.2	4.2	8.9
34	HM4 (C)	3.0	1.0	1.5	4.3	3.1	3.5	1.5	3.5	2.0	3.5	3.0	4.2	3.2	8.8
35	Prakash (F)	2.5	2.5	2.8	4.8	3.9	3.0	2.0	2.5	2.0	2.8	3.0	3.8	5.6	4.0
36	HQPM 1(F)	2.7	1.5	2.0	2.0	3.8	2.5	2.0	2.0	1.0	4.3	2.5	2.5	2.6	4.9
37	DHM 117(F)	2.7	2.0	2.0	3.8	3.2	2.0	1.5	2.3	1.8	3.0	3.0	2.0	1.1	3.0
38	HM-4 (F)	2.2	2.0	2.0	4.3	3.4	3.0	1.5	2.5	1.5	4.0	3.0	2.5	3.2	7.2
39	PMH 4(F)	2.9	3.0	2.3	5.0	3.1	1.5	1.0	2.3	3.3	2.0	2.0	3.4	1.4	5.9
40	MLB Check	-	-	-	-	-	4.5	-	-	-	-	-	-	-	-
41	BLSB Check	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	CM 202	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-
43	CHECKS	-	-	-	-	-	-	-	-	-	2.5	-	5.85	-	7.1
44	CM 500	-	-	-	4.5	-	-	-	-	-	-	-	-	8.6	-
45	Resistant Check	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-

Contd.

Table 13

S.No.	Genotypes	DM (%)	BLSB (Disease rating scale 1-5)					ESR (%)	ESR (%)	RDM (%)	P.RUST (1-5)	SDM (%)	CYST Nema#
			COIM	PANT	DEL	KAR	MID						
1.	UQMH-4	53.3	4.3	4.0	3.0	5.0	4.0	20.6	25.0	88.0	3.8	100.00	18-25
2.	UQMH-5	40.5	4.8	4.0	4.0	5.0	4.0	15.6	16.7	09.0	4.3	100.00	15-22
3.	HQPM-1(FILLER)	63.0	3.3	3.5	3.8	5.0	3.0	13.3	0.0	92.0	3.8	100.00	10-16
4.	HQPM-2( FILLER)	68.6	4.3	3.0	4.0	4.0	4.0	17.1	0.0	96.0	2.0	100.00	19-27
5.	VEHQ-3020	70.6	3.3	3.0	3.5	4.0	4.0	20.8	10.0	100.0	2.0	100.00	2-7
6.	MHQPM-09-7	60.0	4.8	3.5	3.5	4.5	2.5	29.6	9.1	96.0	4.0	100.00	10-18
7.	MHQPM-09-6	46.2	4.3	3.5	3.0	4.5	4.0	48.4	29.2	93.0	3.0	100.00	16-23
8.	MHQPM-09-8	62.5	4.5	3.0	4.0	4.5	4.0	48.0	0.0	87.0	3.3	100.00	19-30
9.	HQPM-1(FILLER)	62.2	3.5	2.5	3.5	4.0	2.5	24.1	0.0	100.0	2.8	100.00	12-20
10.	HQPM-1( FILLER)	64.7	3.5	3.5	3.8	3.5	3.0	17.2	4.6	94.0	3.8	100.00	21-31
11.	EHQ-16	62.5	3.8	3.5	3.0	3.5	3.0	25.0	70.8	87.0	2.0	93.75	20-28
12.	HQPM-7( FILLER)	72.4	4.3	3.5	2.5	4.0	3.0	25.6	28.2	86.0	4.0	97.22	8-14
13.	HQPM-5(FILLER)	84.6	3.5	3.5	3.8	4.5	3.0	21.4	4.2	100.0	2.5	100.00	3-9
14.	HQPM-1(C)	73.7	3.5	3.5	3.5	3.5	4.0	33.3	0.0	89.0	2.0	100.00	20-28
15.	HQPM-5 (C)	100.0	4.0	3.0	3.0	4.5	3.0	41.7	26.7	100.0	4.5	92.00	14-21
16.	HQPM-7 (C)	94.4	4.5	2.5	3.5	4.5	3.5	25.9	13.3	95.0	4.3	100.00	15-24
17.	HQPM-4 (C)	78.3	3.0	3.5	3.3	4.5	4.0	22.7	0.0	100.0	3.8	100.00	11-18
	POPCORN												
18.	VL Popcorn 2	85.2	5.0	4.0	4.3	NA	4.0	57.1	56.4	100.0	4.5	100.00	19-25
19.	Amberpopcorn (FILLER)	79.4	5.0	3.5	3.5	5.0	4.0	61.9	43.8	100.0	3.8	100.00	16-21
20.	Bajaura Popcorn	82.6	3.8	4.5	4.3	5.0	4.0	58.3	26.8	100.0	4.0	100.00	12-18
21.	Amberpopcor (C)	90.9	5.0	4.0	4.3	5.0	4.0	66.7	36.7	100.0	4.3	100.00	24-30
	SWEET CORN												
22.	FSCH-17	70.0	4.5	4.0	3.5	5.0	4.0	50.0	18.3	100.0	3.8	100.00	10-15
23.	FSCH-18	75.9	4.5	4.0	4.0	5.0	3.0	64.3	13.9	100.0	4.5	100.00	24-32
24.	KSCH-222 (Filler)	40.7	4.5	4.0	3.5	5.0	5.0	79.2	18.8	80.0	4.3	91.67	28-35

Contd.

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Table 13.

S.No.	Genotypes	DM	BLSB (Disease rating scale 1-5)					ESR	ESR	RDM	P.RUST	SDM	CYST
		(%)						(%)	(%)	(%)	(1-5)	(%)	Nema#
		COIM	PANT	DEL	KAR	MID	DHAU	DHAU	PANT	UDP	MAND	MND	UDP
25	BHCH 63	80.0	5.0	3.5	4.3	5.0	4.0	63.6	90.0	100.0	3.8	100.00	12-18
26	KSCH 222	22.9	4.0	4.0	3.5	5.0	4.0	52.9	93.8	76.0	4.0	85.12	17-21
27	BISCO MADHU	62.9	4.0	3.5	3.5	5.0	4.0	65.5	41.7	80.0	4.8	92.82	20-29
28	Bajaura sweetcorn (FILLER)	57.6	5.0	4.0	3.5	5.0	5.0	70.0	29.2	89.0	4.3	100.00	15-22
29	Bajaura sweetcorn	69.6	5.0	3.5	3.5	5.0	4.0	61.5	56.9	76.0	4.3	95.06	19-24
30	KSCH 333	35.7	4.8	4.0	3.5	5.0	4.0	81.5	83.8	96.0	4.3	90.00	13-19
31	NSCH 12	68.2	3.5	3.5	3.5	5.0	4.0	69.6	0.0	96.0	5.0	90.38	7-14
32	WOSC (C)	72.4	5.0	4.0	3.3	5.0	4.0	64.3	21.4	94.0	4.0	100.00	11-17
	BABY CORN												
33	Almora hybrid	94.7	4.3	4.0	3.8	5.0	4.0	51.9	20.0	90.0	3.3	100.00	21-30
34	HM4 (C)	100.0	4.5	4.0	4.0	5.0	4.0	59.3	21.4	100.0	3.8	95.71	14-21
35	Prakash (F)	78.1	5.0	3.5	4.3	4.0	5.0	40.6	5.0	78.0	2.0	100.00	26-36
36	HQPM 1(F)	84.9	3.5	3.5	3.5	4.5	3.0	16.7	0.0	100.0	2.0	95.31	12-18
37	DHM 117(F)	33.3	3.0	3.5	3.5	5.0	4.0	42.3	8.3	65.0	4.0	97.86	8-13
38	HM-4 (F)	76.9	4.8	3.5	3.5	4.5	4.0	63.0	20.8	100.0	3.3	100.00	22-31
39	PMH 4(F)	75.9	4.3	3.5	3.5	-	4.0	54.2	0.0	96.0	4.3	100.00	20-27
	MLB Check	-	-	-	-	-	-	-	-	-	-	-	-
	BLSB Check	-	-	4.0	-	-	-	-	-	-	-	-	-
	CM 202	-	-	-	-	-	-	-	-	-	-	-	-
	CHECKS	-	-	-	-	-	-	-	-	-	-	-	30-39
	CM 500	100	-	-	-	-	-	-	-	100.0	4.8	100.00	-
	Resistant Check	0.0	-	-	-	-	-	-	-	-	1.0	9.57	-

**#range of cyst/plant**

**Table 14. Screening of maize lines against Rajasthan downy mildew & Fusarium stalk rot at Udaipur *Kharif* 2012**

Entry No.	Genotypes (Code No.)	Rajasthan downy mildew (%)	Fusarium stalk rot (Disease rating scale 1-9)
1	EI-2101	63.0	2.6
2	EI-3161	11.0	1.9
3	EHQ-16	20.0	1.5
4	EH-2223	11.0	3.5
5	HKI-193XeI 670	67.0	1.2
6	EI-561-9 & dwarf A	74.0	1.5
7	EI-670	58.0	2.0
8	ET-586 Red	11.0	4.1
9	ET-586 Light Red	0.0	3.6
10	EI-466	50.0	2.0
11	EI-364	75.0	4.9
12	EI—708-1 LXT	0.0	7.2
13	EI-116	0.0	1.6
14	8CLQ-RCYQ-40-3	0.0	3.0
15	HKI 193-1	100.0	1.2
16	HQPM-1	50.0	1.4
17	HQPM-7	0.0	1.3
18	Vivek Hybrid 9	0.0	5.8
19	Navjot	0.0	2.9
20	Bio 9637	0.0	5.0
21	PEHM-2	0.0	1.3
22	Pratap Makka-3	50.0	4.2
	Local check (Surya / Talk Local)	85.0/15.0	6.8/1.6

Date of sowing : RDM -18<sup>th</sup> August 2012,

PFSR-12<sup>th</sup> July, 2012

Row length : 5 m

Number of replication : Single

Date of inoculations : RDM -25<sup>th</sup> to 28<sup>th</sup> August 2012

PFSR -1st Sept. 6<sup>th</sup> sept.2012

**Table 15. Development and evaluation of maize lines resistant to PFSR – *Kharif*, 2012 at Hyderabad**

S. No.	Genotypes	PFSR (Disease rating scale 1-9)	S. No.	Genotypes	PFSR (Disease rating scale 1-9)
1	PFSR 1	2.7	45	F8-3-2	2.2
2	PFSR 6-1	3.0	46	F8-5	3.2
3	PFSR 6-2	3.4	47	F8-20-1	5.0
4	PFSR 6-2-1	2.9	48	F8-20-2	4.0
5	PFSR 6-2-2	3.0	49	F8-21	3.0
6	PFSR 6-3	3.0	50	F8-22	3.5
7	PFSR 6-3-1	4.0	51	F8-44	3.2
8	PFSR 9	1.9	52	TR-2	2.5
9	PFSR 9-2	2.2	53	TR-2-1	3.0
10	PFSR 11	3.0	54	TR-2-2	2.7
11	PFSR 12	3.8	55	TR-4	2.5
12	PFSR 13	2.7	56	TR-5-3-1	3.0
13	PFSR 14	2.0	57	TR-5-1	2.7
14	PFSR 14-1	1.8	58	TR-5-4	2.0
15	PFSR 14-1-2	2.0	59	TR-7	2.0
16	PFSR 15	1.9	60	TR-11	2.6
17	PFSR 16	2.2	61	TR-11-1-2	2.4
18	PFSR 18	3.0	62	TR-14	3.3
19	PFSR 18-1	3.4	63	TR-15	2.1
20	PFSR 19-1	3.2	64	TR-32	3.2
21	PFSR 19-2	2.9	65	TR-36	2.8
22	PFSR 21	3.1	66	TR-38	3.4
23	PFSR 26	4.0	67	TR-43	3.0
24	PFSR 27	2.9	68	TR-50-1	3.4
25	PFSR 30	3.5	69	TR-50-2	3.6
26	PFSR 31	3.9	70	TR-51	2.3
27	PFSR 32	2.8	71	TR-69	2.4
28	PFSR 39	3.4	72	TR-71	2.0
29	PFSR 41	4.1	73	TR-71-1	1.9
30	PFSR 42	3.0	74	TR-72	2.3
31	PFSR 44	2.9	75	TR-74	1.8
32	PFSR 46	3.7	76	TR-74-1	2.2
33	PFSR 47	2.8	77	TR-75	3.0
34	PFSR 48	2.0	78	TR-77	2.1
35	PFSR 49	4.0	79	TR-77-1	2.0
36	PFSR 50	2.0	80	TR-77-1-2	2.2
37	PFSR 52	1.8	81	F9-13	2.0
38	PFSR 53	2.2	82	F9-19	4.3
39	PFSR 56-1	2.7	83	F9-30	3.2
40	PFSR 61	2.0	84	F9-31	3.0
41	PFSR 70	1.9	85	F9-47	3.5
42	PFSR 72	2.2	86	F9-61	3.0
43	PFSR 74	2.8	87	F9-63	3.2
44	F8-2	2.0	88	F9-67	3.2



**Table 16. Reaction of entries of maize hybrid to *Erwinia stalk rot (Erwinia chrysanthemi pv zae)* and banded leaf and sheath blight (*Rhizoctnia solani*) at Dhaulakuan during Kharif 2012**

S. No.	Entry code	ESR (%)	BLSB (Disease rating scale 1-5)
1	M 1201	94.4	4.0
2	M 1202	100.0	4.0
3	M 1203	72.2	3.0
4	M 1204	87.5	4.0
5	M 1205	80.0	4.0
6	M 1206	75.0	4.0
7	M 1207	92.9	4.0
8	M 1208	76.9	4.0
9	M 1209	100.0	4.0
10	M 1210	78.6	3.0
11	M 1211	52.9	2.5
12	M 1212	13.3	4.0
13	M 1213	57.1	2.5
14	M 1214	75.0	3.0
15	M 1215	23.1	4.0
16	M 1216	43.8	2.5
17	M 1217	46.2	3.0
18	M 1218	35.3	4.0
19	M 1219	21.4	2.5
20	M 1220	25.0	4.0

ESR = *Erwinia Stalk Rot* BLSB= *Banded Leaf and Sheath Blight*

# ALL INDIA CO-ORDINATED MAIZE IMPROVEMENT PROJECT

## MAIZE PATHOLOGY (TLB) Data Sheet

**STATION** INBRED LINES

**Season:** Kharif, 2012

**Location:** ZARS, V. C. Farm, Mandya

**No. of entries:** 168 (S. Check for every 20 lines)

**Disease:** Turcicum Leaf Blight  
& Polysora rust

**Net plot size:** 2 Row × 1 Rep × 4M

**Date of sowing:** 04.07.2012

**Table: 17**

Sl. No.	Genotypes	TLB (Disease rating scale 1-5)
1	NAI-102-X-MA-2011K	2.0
2	NAI-104-#-MA-2011K	2.0
3	NAI-109-#-MA-2011K	1.5
4	NAI-113-X-MA-2011K	3.0
5	NAI-116-X-MA-2011K	2.0
6	NAI-117-#-MA-2011K	3.5
7	NAI-123-X-MA-2011K	3.0
8	NAI-124-#-MA-2011K	3.5
9	NAI-125-X-MA-2011K	3.0
10	NAI-127-X-MA-2011K	3.0
<b>219J</b>		<b>5.0</b>
11	NAI-132-X-MA-2011K	3.0
12	NAI-137-X-MA-2011K	2.0
13	NAI-138-#-MA-2011K	2.5
14	NAI-139-X-MA-2011K	4.0
15	NAI-142-#-MA-2011K	2.0
16	NAI-143-X-MA-2011K	2.5
17	NAI-147-X-MA-2011K	2.0
18	NAI-154-X-MA-2011K	3.5
19	NAI-158-X-MA-2011K	4.0
20	NAI-161-X-MA-2011K	2.0
21	NAI-162-#-MA-2011K	4.0
22	NAI-165-#-MA-2011K	3.5
23	NAI-167-X-MA-2011K	4.0
24	NAI-169-X-MA-2011K	4.0
25	NAI-170-#-MA-2011K	3.0
26	NAI-171-#-MA-2011K	4.0
27	NAI-173-#-MA-2011K	4.0

28	NAI-174-#-MA-2011K	3.0
29	NAI-175-X-MA-2011K	2.0
30	NAI-176-X-MA-2011K	2.5
<b>219J</b>		<b>5.0</b>
31	NAI-177-X-MA-2011K	4.5
32	NAI-178-X-MA-2011K	3.5
33	NAI-179-X-MA-2011K	2.0
34	NAI-180-X-MA-2011K	3.5
35	NAI-181-#-MA-2011K	4.0
36	NAI-188-X-MA-2011K	3.5
37	NAI-190-#-MA-2011K	3.5
38	NAI-191-#-MA-2011K	3.0
39	NAI-193-#-MA-2011K	4.0
40	NAI-194-#-MA-2011K	4.0
41	NAI-197-#-MA-2011K	2.0
42	NAI-199-X-MA-2011K	4.0
43	NAI-204-#-MA-2011K	3.0
44	NAI-207-#-MA-2011K	2.0
45	NAI-208-X-MA-2011K	3.0
46	NAI-209-#-MA-2011K	2.0
47	NAI-212-#-MA-2011K	4.5
48	NAI-213-#-MA-2011K	4.0
49	NAI-214-2-X-MA-2011K	3.0
50	NAI-215-X-MA-2011K	3.5
<b>219J</b>		<b>5.0</b>
51	NAI-216-7-X-MA-2011K	3.5
52	NAI-217-1-X-MA-2011K	4.5
53	NAI-218-10-X-MA-2011K	3.0
54	NAI-219-4-X-MA-2011K	3.5
55	NAI-220-1-X-MA-2011K	3.0
56	NAI-221-7X-MA-2011K	4.0
57	NAI-222-4-X-MA-2011K	4.5
58	NAI-224-6-#-MA-2011K	2.5
59	NAI-225-3-#-MA-2011K	5.0
60	NAI-226-X-MA-2011K	2.5
61	NAI-227-X-MA-2011K	3.5
62	NAI-228-X-MA-2011K	5.0
63	MAI-105-X-MA-2011K	2.5
64	MAI-110-X-MA-2011K	3.0

65	MAI-112-#-MA-2011K	4.0
66	MO-17-#-MA-2011K	2.5
67	KUI-1411-#-MA-2011K	2.0
68	KUI-1411a-#-MA-2011K	2.0
69	CM-114-#-MA-2011K	3.0
70	CM-115-#-MA-2011K	4.5
<b>219J</b>		<b>5.0</b>
71	CM-118-#-MA-2011K	3.5
72	CM-122-#-MA-2011K	4.0
73	CM-123-#-MA-2011K	3.0
74	CM-131-X-MA-2011K	4.0
75	CM-132-#-MA-2011K	2.5
76	CM-137-#-MA-2011K	4.5
77	CM-138-#-MA-2011K	4.5
78	CM-139-X-MA-2011K	4.0
79	CM-142-X-MA-2011K	4.5
80	CM-145-#-MA-2011K	3.5
81	CM-205-X-MA-2011K	4.5
82	NAB-(Y)-2-X-MA-2011K	5.0
83	WINPOP-21-X-MA-2011K	4.0
84	WINPOP-26-#-MA-2011K	3.5
85	WINPOP-45-X-MA-2011K	4.5
86	WINPOP-47-X-MA-2011K	4.5
87	POP-61CI-QPMTEYEX-2011K	2.5
88	POP-446CI-#-2011K	3.0
89	DMSC-3-X-MA-2011K	4.0
90	DMSC-4-X-MA-2011K	3.5
<b>219J</b>		<b>5.0</b>
91	DMSC-8-X-MA-2011K	3.5
92	DMSC-14-#-MA-2011K	3.0
93	DMSC-15-X-MA-2011K	4.0
94	DMSC-18-#-MA-2011K	3.5
95	DMSC-19-X-MA-2011K	3.5
96	DMSC-20-#-MA-2011K	4.0
97	DMSC-24-X-MA-2011K	4.5
98	DMSC-28-X-MA-2011K	3.0
99	DMSC-30-X-MA-2011K	3.0
100	DMSC-36-X-MA-2011K	3.5
101	JCY-2-7-1-X-2011K	3.5

102	V-351-#-2011K	2.5
103	U-139-X-2011K	2.5
104	U-295-#-2011K	4.5
105	U-298-X-2011K	4.5
106	U-488-X-2011K	4.0
107	U-536-#-2011K	3.5
108	CML-124-X-MA-2011K	2.0
109	CML-134-X-MA-2011K	4.0
110	CML-140-X-MA-2011K	3.5
<b>219J</b>		<b>5.0</b>
111	CML-154-#-MA-2011K	4.0
112	CML-247-X-MA-2011K	2.5
113	CML-248-X-MA-2011K	2.5
114	CML-300-X-MA-2011K	4.5
115	CML-336-X-MA-2011K	3.5
116	CML-362-X-MA-2011K	3.0
117	CML-363-X-MA-2011K	3.5
118	CML-404-X-MA-2011K	4.5
119	CML-410-X-MA-2011K	2.0
120	CML-413-X-MA-2011K	4.5
121	CML-424-#-MA-2011K	5.0
122	CML-436-X-MA-2011K	4.0
123	CML-480-#-MA-2011K	3.5
124	CML-481-X-MA-2011K	4.0
125	HKI-PC-5-X-MA-2011K	4.5
126	HKI-PC-7-X-MA-2011K	3.0
127	HKI-PC-8-2-X-MA-2011K	4.0
128	HKI-34-X-MA-2011K	3.5
129	HKI-141-#-MA-2011K	3.5
130	HKI-163-X-MA-2011K	2.0
<b>219J</b>		<b>5.0</b>
131	HKI-164-TLB-4-7-X-MA-2011K	3.5
132	HKI-164-7-1-X-MA-2011K	4.0
133	HKI-164-7-2-#-MA-2011K	3.0
134	HKI-193-1-X-MA-2011K	2.5
135	HKI-193-2-X-MA-2011K	3.0
136	HKI-209-#-MA-2011K	4.5
137	HKI-287-X-MA-2011K	3.0
138	HKI-PC-413-X-MA-2011K	4.5
139	HKI-488-#-X-MA-2011K	4.5
140	HKI-577-X-MA-2011K	4.5
141	HKI-1040-#-MA-2011K	3.5

142	HKI-1040-5-X-MA-2011K	4.0
143	HKI-1344-X-MA-2011K	2.5
144	HKI-1352-X-MA-2011K	4.0
145	HKI-5072-2-BJ-#-MA-2011K	5.0
146	POOL-16-X-2011K	3.5
147	GEN-6014-X-2011K	5.0
148	AC-40-#-2011K	4.5
149	DM-HOC-1-#-2011K	3.0
150	DM-HOC-14-X-2011K	3.5
<b>219J</b>		<b>5.0</b>
151	DM-HOC-15-X-2011K	4.5
152	CLQ-RC-X-2011K	4.5
153	CLQ-RC-12-28-#-2011K	4.5
154	CLQ-RC-YQ-44-X-2011K	3.5
155	CLQ-PCY-#-2011K	3.5
156	V-341-#-2011K	4.5
157	DM-HOC-4-X-2011K	4.5
158	DMR-QPM-58-X-MA-2011K	5.0
159	AQO-3134-B-B-13-#-2011K	3.0
160	HP-34-6-#-2011K	4.0
161	HP-35-#-2011K	5.0
162	WEP-1-#-2011K	4.0
163	WEP-6-#-2011K	3.5
164	LM-5-X-2011K	4.0
165	ENT-1-#-2011K	5.0
166	DTPC-9-F-46-3-1-#-2011K	3.5
167	SHD-1-ER-6-X-2011K	3.5
168	POBLAC-61C-X-2011K	4.0
<b>219J</b>		<b>5.0</b>

**Table 18. Evaluation of Inbred lines against Sorghum Downy Mildew at Mandya  
Kharif 2012**

Location: ZARS, V.C farm, Mandya

Date of Sowing (TE): 08-07-2012

Season: Kharif

Plot Size: 2row X 3mtr X 2 Repln

Year : 2012-13

Date of recording observations: 02-08-2012

Disease: Sorghum downy mildew

Sl No.	DMR No.	SDM (%)
1	MAI-1	11.53
2	MAI-2	12.50
3	<b>MAI-3</b>	<b>0.0</b>
4	MAI-4	7.69
5	MAI-5	60.0
6	MAI-6	43.47
7	MAI-9	75.00
8	MAI-11	77.77
9	MAI-13	78.94
10	MAI-15	43.75

**Note:** TE: Test entries

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**Table 19. Assessment of avoidable yield loss due to MLB at Delhi during Kharif, 2012**

Test cultivar : HQPM7 Date of sowing: 11-07-2012  
 Design : Paired plot MLB inoculation I<sup>st</sup> - 09-08-2012  
 Plot size : 3 x 2.25m II<sup>nd</sup> - 18-08-2012  
 Replication : 9 Date of Observation: 19-09-2012  
 Date of harvesting: 29.10.2012

Replication	Treatment	Rating scale(1-5)	Yield (kg/ha)	Remark
R1	Protected	2.28	3841	i. In protected plot, Dithane M-45 @0.25% was sprayed two times at 3 DAI and 15 DAI .The crop was inoculated once with <i>Bipolaris maydis</i> at 25 DAS. ii. In non-protected plot, plain water was sprayed after inoculation of the plants with pathogen. iii. <b>12.67% yield loss was recorded due to MLB disease</b>
	Non-protected	2.58	2767	
R2	Protected	2.16	3200	
	Non-protected	2.45	2549	
R3	Protected	2.14	3213	
	Non-protected	2.58	3002	
R4	Protected	2.27	3653	
	Non-protected	2.56	3257	
R5	Protected	2.47	3333	
	Non-protected	3.04	3271	
R6	Protected	2.44	3743	
	Non-protected	2.86	3509	
R7	Protected	2.45	4997	
	Non-protected	3.06	4374	
R8	Protected	2.75	5287	
	Non-protected	3.22	4758	
R9	Protected	2.75	5657	
	Non-protected	2.86	4757	

Av. yield in Protected plot = 4102 kg/ha Disease rating in protected plot= 2.41  
 Av. yield in non-protected plot = 3582 kg/ha Disease rating in non-protected plot= 2.80  
 Avoidable yield loss due to MLB = 12.67%

**Table 19. Assessment of avoidable yield loss due to MLB at Dhaulakuan during Kharif, 2012**

Replication	Treatment	MLB(%disease incidence)	Yield (q/ha)	
R1	Protected	26.03	2370	Av. yield in Protected plot = 2503.44 Kg/ha
	Non-protected	66.00	1102	
R2	Protected	25.0	3748	Average disease index in protected plot= 26.85
	Non-protected	67.10	1363	
R3	Protected	25.94	2725	Av. yield in non-protected plot = 1255.00 Kg/ha
	Non-protected	67.41	1055	
R4	Protected	31.25	2755	Average disease index in non-protected plot= 66.42
	Non-protected	71.54	827	
R5	Protected	24.62	2133	Avoidable yield loss due to MLB = 49.86%
	Non-protected	68.0	1171	
R6	Protected	25.0	3556	
	Non-protected	71.30	1500	
R7	Protected	27.68	1500	
	Non-protected	61.0	1533	
R8	Protected	28.41	2044	
	Non-protected	65.45	1244	
R9	Protected	27.73	1700	
	Non-protected	60.0	1500	

Contd.



**Table 20. Assessment of avoidable yield loss due to TLB at Arbhavi during *Kharif*, 2012**

Sl. No.	Hybrid	Disease grade (1-5 Scale)	Grain yield (kg/ha)	Percent Loss in yield
1	<b>DMH - 2</b>			
	Protected	2.0	6866	19.40
	Un protected	3.0	5750	
2	<b>EH - 434042</b>			
	Protected	1.5	7060	5.85
	Un protected	3.2	6670	
3	<b>Bio - 9681</b>			
	Protected	2.4	6470	23.43
	Un protected	3.5	5242	

Avoidable yield loss due to TLB calculated in various genotypes viz DMH – 2 is 19.40%, EH – 434042 is 5.85%, and in Bio 9681 is 23.43%

**Table 21. Assessment of yield loss due to BLSB in variety Gaurav at Pantnagar during *Kharif*, 2012**

Date of sowing: 16<sup>th</sup> July 2012                      Plot size: 4 X 4.5 Sq M  
 No of treatments: 2                                      Replication: 9  
 No of rows: 6    Row Length: 4 m  
 Distance between rows: 0.75 m                      Distance: plant to plant 20.0 cm  
 Date of inoculation: 04/09/12                      Fungicide used: Tilt (0.1%)  
 Date of spraying: 1 spray on 17/09/12              2 spray on 27/09/2012  
 Location: Norman E. Borlaug Crop Research Centre

Replication	Treatment	Rating scale (1-5)	Yield (kg/ha)
R1	Protected	2.5	3810
	Non-protected	4.5	2857
R2	Protected	2.0	3532
	Non-protected	4.0	2341
R3	Protected	2.5	3849
	Non-protected	4.5	2222
R4	Protected	2.5	3373
	Non-protected	4.5	2460
R5	Protected	2.0	4008
	Non-protected	4.5	2183
R6	Protected	2.5	3810
	Non-protected	4.5	2579
R7	Protected	2.5	3452
	Non-protected	4.5	2500
R8	Protected	2.0	3730
	Non-protected	5.0	2302
R9	Protected	2.5	3690
	Non-protected	4.5	2341

Av. yield in Protected plot = 3694 kg/ha

Average disease score in protected plot= 2.33

Av. yield in non-protected plot = 2420 kg/ha

Average disease score in non-protected plot= 4.5

Avoidable yield loss due to BLSB in variety Gaurav at Pantnagar is 34.48%

**Table 21. Assessment of avoidable yield loss due to BLSB at Delhi during *Kharif*, 2012**

Test cultivar : Vivek QPM9  
 Design : Paired plot  
 Plot size : 3 x 2.25m  
 Replication : 9

Date of sowing: 11-07-2012  
 BLSB inoculation - 19-08-2012  
 Date of Observation: 18-09-2012  
 Date of harvesting: 30.10.2012

Replication	Treatment	Rating scale (1-5)	Yield (kg/ha)	Remark
R1	Protected	2.3	4625	i. In protected plot, Sheathmar-3 @ 2.7 ml/litre was sprayed two times at 3 DAI and 15 DAI .The crop was inoculated once with <i>R. solani</i> f.sp. <i>sasakii</i> at 35 DAS. ii. In non-protected plot, plain water was sprayed after inoculation of the plants with pathogen. <b>III. 14.33% yield loss was recorded due to BLSB</b>
	Non-protected	3.65	4357	
R2	Protected	2.0	4957	
	Non-protected	3.48	3700	
R3	Protected	2.02	4441	
	Non-protected	3.82	4031	
R4	Protected	2.02	4539	
	Non-protected	3.72	4062	
R5	Protected	2.36	4567	
	Non-protected	3.95	3801	
R6	Protected	2.50	4808	
	Non-protected	3.93	4140	
R7	Protected	2.45	5339	
	Non-protected	3.71	3848	
R8	Protected	2.46	3942	
	Non-protected	3.84	3736	
R9	Protected	2.43	4157	
	Non-protected	3.73	3768	

Av. yield in Protected plot = 4597 kg/ha      Disease rating in protected plot= 2.28  
 Av. yield in non-protected plot = 3938 kg/ha      Disease rating in non-protected plot= 3.75

Avoidable yield loss due to BLSB cultivar vivek QPM – 9 at Delhi is 14.33%

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**Table 22. Assessment of avoidable yield loss due to SDM at Mandya during *Kharif*, 2012**

Location: ZARS, V.C farm, Mandya

Date of Sowing (SR): 08.07.2012 Season: Kharif

Date of Sowing (TE): 02.08.2012

Year: 2012

Year: 2012

Plot Size: 5 rows X 4mtr

Replication: 9

Date of observations: 07.09.2012

Protected and Non Protected

Variety : CP 818

Rep-lication	SDM %				Yield (kg/ ha)		Yield loss Percent
	At 35 DAS		At harvest		Protected	Non protected	
	Protected	Non protected	Protected	Non Protected			
R1	0.00	75.56	0.00	100.00	5361	000	100.00
R2	0.00	87.00	0.00	100.00	5700	000	100.00
R3	0.00	84.09	0.00	100.00	5337	000	100.00
R4	0.00	95.00	0.00	100.00	5227	000	100.00
R5	0.00	92.30	0.00	100.00	5812	000	100.00
R6	0.00	85.00	0.00	100.00	5438	000	100.00
R7	0.00	91.17	0.00	100.00	4345	000	100.00
R8	0.00	87.80	0.00	100.00	5327	000	100.00
R9	0.00	90.04	0.00	100.00	5886	000	100.00
Mean	0.00	87.55	0.00	100.00	5381	000	100.00

Note: SR: Spreader Rows

TE: Test entries

The avoidable yield losses in Variety - CP 818, due to Sorghum Downy Mildew (SDM) at Mandya is 100%

**Table 23. Assessment of avoidable yield loss due to charcoal rot caused by *Macrophomina phaseolina* at Ludhiana during *Kharif*, 2012**

Test Variety: PMH 1

Date of sowing: 7.7.12

Plot Size: 3 x 3 m

Date of Harvesting: 17.10.12

No. of replications: 9

Design- Paired plot

Treatments- Two

Replication	Treatment	Charcoal rot (1-9)	Disease index	Average yield (kg/plot)	Percent loss in yield (%)
R1	Protected	3.8	42.2	8000	11.11
	Un-protected	4.4	48.9	7111	
R2	Protected	3.9	43.3	8111	9.59
	Un-protected	4.6	51.1	7333	
R3	Protected	3.7	41.1	8777	10.13
	Un-protected	5.2	57.8	7888	
R4	Protected	3.5	38.9	7555	11.76
	Un-protected	4.2	46.7	6666	
R5	Protected	4.0	44.4	8111	10.96
	Un-protected	4.4	48.9	7222	
R6	Protected	3.8	42.2	8222	16.22
	Un-protected	4.5	50.0	6888	
R7	Protected	3.6	40.0	7777	11.43
	Un-protected	4.6	51.1	6888	
R8	Protected	3.7	41.1	8000	9.72
	Un-protected	4.9	54.4	7222	
R9	Protected	3.9	43.3	7444	8.96
	Un-protected	5.0	55.6	6777	
<b>Average Yield loss (%)</b>					<b>11.1</b>

**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

The avoidable yield loss due to charcoal rot in cultivar PMH-1at Lidhiana is 11.1%

Contd.

**Table 23. Assessment of avoidable yield loss due to charcoal rot under artificial inoculation at Delhi (DMR) experimental field during *Kharif* 2012.**All plants Inoculated with; *M. phaseolina*

Test Cultivator : Susceptible Hybrid (Vivek hybrid - 9)

Row length : 3 meter

Block size : 3 X 47.25 meter X 2 (One protected and another non protected)

Replication : 9

Treatment : Seed treatment with carbendazim @ 4 gm/kg seeds + Furrow treatment with Trichoderma formulation @ 10 gm /kg of FYM

Design : Paired Plot

Protected			Non Protected Plot	
Replication	Disease Index (PDI)	Yield (kg/ha)	Disease Index (PDI)	Yield (kg/ha)
R1	20.0	6577.77	68.9	4059
R2	12.1	6103.70	63.6	4341
R3	04.8	6222.22	60.0	4785
R4	04.5	7066.66	51.5	4444
R5	22.1	5451.18	25.6	5289
R6	09.3	5866.66	44.9	5362
R7	26.7	5214.81	48.2	4726
R8	27.6	6385.18	38.1	5881
R9	15.6	5644.44	51.8	4696
Protected Plot			15.9	Yield (Kg/ha) – 6059
Non Protected Plot			50.3	Yield (Kg/ha) – 4843
Over all Mean			33.1	5451
C.D.			14.4	706
C.V%			39.9	11.912

Significant at 5%

Percent yield losses – 20.07%

Avoidable yield losses in Vivek hybrid – 9 is 20.07% due to *Macrophomina phaseolina* (PFSR) at Delhi

**Table 23. Assessment of avoidable yield loss due to PFSR caused by *macrophomina phaseolina* at Hyderabad during *Kharif*, 2012**

Test cultivar : 30V92  
 Net plot size : 3mx3m  
 No. of Replications : 9  
 Design : Paired plot  
 Treatment : 2

**1. Protected:**

- Seed treatment with mancozeb (3g/kg seed)
- *Trichoderma viride* (1 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

Replications	PFSR grade (1-9 Scale)		Percent disease control	Average yield (kg/ha)		Percent yield loss
	Protected	Unprotected		Protected	Unprotected	
1	2.41	3.62	33.42	8444	7111	15.78
2	2.58	3.47	25.64	8888	6777	23.75
3	2.68	3.40	21.17	9000	6766	24.90
4	2.86	4.00	28.50	8111	6544	20.00
5	2.71	3.92	30.86	8211	6788	16.18
6	2.92	4.00	27.00	8533	6555	19.17
7	2.90	4.18	30.62	8111	5900	19.17
8	2.90	4.00	27.50	7680	6666	21.87
9	2.86	3.99	28.32	8133	5840	20.20

Average yield in protected plot : 8433kg/ha

Average yield in non protected plot: 6688 kg/ha

Avoidable yield losses due to charcoal rot is 20.68% at Hyderabad experimental field

## Survey and Surveillance 2012

Maize disease survey and surveillance were undertaken in maize growing areas of Rajasthan, Andhra Pradesh, Karnataka and Tamil Nadu during the year Kharif 2012.

In Rajasthan state a total of 200 fields from 47 places were visited. The major diseases were Curvularia leaf spot, Maydis leaf blight, Banded Leaf & sheath Blight, PFSR (Fusarium Stalk Rots), BSDM (Brown Stripe Downy Mildew) and RDM (Rajasthan downy Mildew), Brown spot, & Head smut (HS). The incidence of BSDM was recorded from moderate to severe from only three places i.e. Pepalwas, Pawa, Barvara whereas from traces to moderate from eight places which were Jhodai, Lila Dhar, Harzia Khera, Kavita, Kadiyan, Baghalo ka -Guda, Bhagholon-Ka-Guda, Kuncholi. Severe incident of RDM noticed only from four places - Kalaroi, Patia, Bijolia, and Borkhera.

BLSB was recorded from moderate to severe in nine places and gaining importance due to severe incidence in the places Jhodai, Kumavton ka – Guda, Kadiyan, Baghalo ka –Guda, Kuncholi Moordi, Chidawas, Digod and Baran whereas from traces to moderate incident recorded from 20 places like Lohira, Pepalwas, Pawa, Lila Dhar, Harzia Khera Kavita, Barvara, Bhagholon-Ka-Guda, Kelwara, Dobas, Allu Pura, Cheeb, Ochodi Jai Samand, Kherad Borkhera, Budhpura, Khanpur, Bagher, and Mandana. out of 47 places covered. Fusarium stalk rots (PFSR) recorded from moderate to severe from 7 places i. e. Lohira, Baghalo ka – Guda, Bhagholon-Ka-Guda, Kelwara, Rithola, Kavita, Iswal whereas moderate incidence was recorded from 17 places viz Barvara, Kuncholi, Pepalwas, Pawa, Jhodai, Kumavton-ka-Guda, Kadiyan, Ochodi, Parsoli, Devari, Borkhera, Kota, Baran, Khanpur, Bagher, and Mandana.

Curvularia leaf spot has shown widespread occurrence in Rajasthan this year by showing the moderate incidence from all places surveyed whereas severe incidence recorded from 22 places like Allu Pura, Lila Dhar, Harzia Khera, Kavita, Iswal, Kumavton-ka-Guda, Kadiyan, Baghalo ka–Guda, Barvara, Kuncholi, Kelwara, Kumbalgarh, Dobas, Patia, Bheelpur, Rithola Ochodi, Parsoli, Devari, Bijolia, Borkhera and Kota. The disease is becoming important as earlier it was a disease of minor importance. The incidence of MLB and TLB was prevalent in traces to moderate intensity.

In Andhra Pradesh a total of 10 places i.e. Itikyal, Jagdavpur, Gajwel, Doultabad, Warangal, Karimnagar, Ankapur, Toopran, Rimmangoad & Kodakandha comprising 44 fields were surveyed during flowering and maturity stage of the crop. The most common disease of the area were TLB and Charcoal rot. TLB recorded in severe condition from three places i.e. Toopran, Rimmangoad, Kodakandla (13 fields) at maturity stages of the crop when disease has no importance. Charcoal rot recorded in moderate condition from 4 places Karimnagar, Ankapur, Toopran, Rimmangoad, (16 fields) and traces from Warangal & Kodakandha. MLB was recorded in moderate incidence from Karimnagar whereas in traces from Doultabad. Late wilt is an important disease noticed in severe condition from Kodakandla and moderate from Karimnagar.

In Tamil Nadu, eight places i.e. Dindugal, Udumalaipettai, Kinathukadavu, Ottachatram, Salem, Pollachi, Edappadi, & Dharapuram comprising 36 fields were covered (411.48 m.a.s.l.). The disease observations were taken at knee high as well as in grain filling stages. The most prevalent disease of the area was Sorghum Downy Mildew followed by TLB. The intensity of SDM was recorded from traces to moderate whereas Rust, ESR and Fusarium stalk rot was recorded in traces two – three places.

In Karnataka state five places i.e. Belgaum, Bagalkot, Dharwad, Gadak and Haveri comprising area of 29 hectare, were covered. The disease observations were taken at the vegetative as well as in grain filling stage and the maize variety adopted were hybrids. The most prevalent 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.

Table 24. Occurrence of Maize Diseases based on Survey and Surveillance 2012

States	TLB	MLB	BLSB	Brown spot	Cuv. leaf spot	BSDM	RDM	SDM
Rajasthan. Maize Local	++	+++	+++	++	+++	++	+	
Tamil Nadu (Knee high and grain filling stage)	+							++
Karnataka (grain filling stage) Hybrid	+++	++						+++
Andhra Pradesh (Knee high to maturity)	++	++						

States	ESR	PFSR	Late wilt	CSR	P. rust	C. rust	Head smut	Phae Leaf spot
Rajasthan. Maize Local		+++					++	
Tamil Nadu (Knee high and grain filling stage)	+	+						
Karnataka (grain filling stage) Hybrid					+++	+++		
Andhra Pradesh (Knee high to maturity)		+++	++					

+ Mild

++ Moderate

+++ Severe

TLB=Turcicum leaf blight, MLB=Maydis leaf blight, BLSB=Banded leaf and sheath blight, Cuv. Leaf spot = Curvularia Leaf Spot, BSDM=Brown stripe downy mildew, RDM=Rajasthan downy mildew, ESR=Erwinia stalk rot, PFSR= Post Flowering stalk rots, Phae. Leaf spot = Phaeosporia Leaf Spot, CSR= Charcoal stalk rots

Table 25. METEOROLOGICAL DATA *KHARIF* 2012

S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%)		Sunshine Hrs.
			Min	Max		Min	Max	
1.	Bajaura	January	1.3	14.1	97.9	44	91	4.4
		February	3.7	16.1	67.8	43	87	4.1
		March	5.8	22.7	71.0	30	85	6.8
		April	9.8	25.5	84.4	39	86	5.9
		May	14.3	30.9	14.8	25	83	8.7
		June	16.2	34.1	22.2	31	78	8.1
		July	21.2	31.7	133.3	53	90	6.5
		August	21.3	29.0	172	67	93	3.6
		September	18.2	29.6	14.2	59	94	6.5
		October	8.0	27.0	5.2	39	91	8.1
		November	2.9	23.0	8.8	36	95	6.5
2.	Panthnagar	January	6.7	19.6	3.1	59.8	92.4	4.2
		February	8.0	24.8	0.0	38.3	90.0	7.1
		March	13.0	29.8	1.0	40.5	88.3	7.3
		April	18.5	35.2	1.5	30.8	68.6	9.2
		May	22.3	40.1	0.0	24.3	61.3	9.1
		June	26.0	40.1	7.1	31.5	63.0	7.0
		July	26.1	32.6	93.3	68.6	86.6	3.5
		August	25.5	32.1	62.5	72.3	89.3	4.4
		September	23.8	31.9	42.3	68.0	89.3	6.6
		October	15.7	30.9	0	43.2	87.8	8.6
		November	10.9	27.5	0.0	38.0	90.5	6.0
3.	Coimbatore	July	23.5	31.5	0.9	51.7	78.7	-
		August	23.0	31.2	0.9	54.7	83.0	-
		September	22.6	32.4	0.2	49.6	83.7	-
		October	22.3	30.6	5.3	58.7	87.2	-
		November	20.5	30.7	0.7	48.5	89.4	-
4.	Hyderabad	June	35.5	35.1	139.5	47	72	5.5
		July	23.1	30.2	261.6	67	85	3.2
		August	22.5	30.2	99.4	66	87	5.2
		September	22.2	30.1	117.9	66	89	5.0
		October	18.5	30.3	58.9	50	86	6.7
		November	15.9	28.7	47.0	49	86	6.5
		December	13.0	29.9	--	40	80	9.0
5.	Udaipur	April	20.5	36.5	0.2	28.8	54.3	8.3
		May	24.0	38.3	0.6	39.6	68.3	9.2
		June	24.8	36.2	0.0	34.7	64.0	9.1
		July	23.4	32.4	3.5	51.9	74.8	4.1
		August	21.9	29.8	7.9	71.5	85.8	2.0
		September	21.4	30.2	10.0	64.5	88.1	4.2
		October	15.4	32.3	0.0	22.9	73.6	8.5
		November	11.4	28.8	0.0	24.1	73.1	7.9
6.	Mandya	April	21.4	32.7	68.0	46.1	90.8	8.83
		May	20.6	31.1	22.0	37.9	90.5	6.0

Contd.



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		June	20.1	31.1	2.42	40.5	90.5	7.8
		July	19.5	30.7	7.4	46.9	90.7	11.0
		August	20.4	30.3	5.7	53.0	91.0	35.2
		September	20.8	31.5	6.7	51.6	91.0	118.2
S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%) AVG.	Sunshine Hrs.	
			Min	Max				
7.	Arabhavi	June	21.9	33.5	99.09	65.73	-	
		July	22.0	29.9	74.31	78.15	-	
		August	21.8	29.7	48.21	78.61	-	
		September	27.5	29.1	91.49	75.42	-	
		October	18.2	30.3	107.69	71.44	-	
		November	16.8	29.7	14.77	72.35	-	
8.	Ludhiana	June	27.2	40.6	3.5	45	8.9	
		July	27.9	35.7	76.9	67	6.6	
		August	26.6	33.2	160.4	80	4.5	
		September	23.9	32.8	141.7	76	7.8	
		October	16.2	31.6	0.0	67	8.7	

# ENTOMOLOGY

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21	Validation of crop loss assessment in HQPM 1	E29

## E1

During *kharif* 2012 four trials were conducted in Entomology at Delhi, Karnal and Ludhiana in zone II; at Midnapore in Zone III; at Vagarai and Kolhapur in Zone IV; and at Udaipur in Zone V. A total of 104 entries were screened against *Chilo partellus* at these centers.

The screening techniques and methods of recording the insect-pests incidence are given below:

The entries are sown in two rows of three metres each. Fifteen seeds are sown and twelve plants are finally retained in each row. When the plants are 12-15 days-old, 15-20 black-headed eggs of *Chilo partellus* laid on butter paper are pinned in the whorl. The eggs hatch within few hours and the neonate larvae nibble on the leaves find their way in the stem. After 25 days of release of eggs, plants are 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 leaves with infestation symptoms

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

7=leaves with long window growth is stunted

8=almost all the leaves displaying heavy infestation growth is stunted

9=dead heart formation observed

The summary of *Chilo partellus* infestation level in various trials is given below:

Trial	Locations	No. of genotypes	Leaf injury level	
			Mean	Range
Zone II	Delhi	104	2.87	1.25-5.57
	Karnal	104	3.45	1.95-6.15
	Ludhiana	104	5.61	3.31-8.86
Zone III	Midnapore	104	1.79*	1.00-4.00
Zone IV	Vagarai	104	1.59*	1.13-2.42
	Kolhapur	104	6.38	1.93-8.80
Zone V	Udaipur	104	5.78	2.50-7.90

\*Evaluation under natural condition.(voluntary centres having no insect rearing facilities)

The program chalked out during 55<sup>th</sup> workshop held at CCSHAU, Hisar was carried out at AICRP Centres. Four trials of one hundred four entries of different maturity periods were evaluated for resistance against *Chilo partellus* under artificial infestation condition at seven locations. The following entries registered leaf injury rating (LIR) less than that of checks.

**Full Season Maturity:** A 7501, BIO-562, M 9977, NMH-713, X35A176, **Medium Maturity:** B 63, BIO -688, CMH08-350, CMH08-433, EC-3161, IMH-666, JH 31404, JKMH-7004, KDMH 176, PFMH-96 I 41, PFMH-96 N 46, S6217, VMH 4106, X35A173, YUVRAJ GOLD, **Early Maturity:** FH 3513, KDMH 755, **Extra Early Maturity:** FH 3525, Vivek Hybrid 9 (Filler), FH 3510. Two hundred twelve inbred lines were also evaluated for resistance against *C. partellus* in which one, 152 and 59 entries were found least susceptible, moderately susceptible and highly susceptible respectively.

Study on oviposition behaviour of *Sesamia inferens* was conducted to supplement/complement or as an alternative for evaluation of germplasm for resistance by artificial release method. This study on 20 germplasm strongly suggested that different germplasm are statistically different for their attraction by *S. inferens* females for oviposition. Further, it was found that 12-day old maize plants attracted maximum number of eggs.

An experiment was conducted to assess the crop losses based on LIR of infested plants in sampled plant population. It was observed that there was significant yield reduction with increase of LIR. Based on percent yield loss at each LIR in relation to the yield of healthy plant, the crop loss can be assessed by the formula given as under:

$$\text{Yield loss} = \frac{n(f_i \cdot x_i)}{X}$$

Where n = total number of plants in the field

X = Number of plants in the sample

f<sub>i</sub> = frequency of plants with LIR (2-9)

x<sub>i</sub> = crop loss (%) at LIR (2-9)

This method was validated in 30 plots; the realized yield loss was at 21% variance from the expected yield loss. During XII plan emphasis has laid on biochemical basis of resistance against major pests of maize.

A five week Advanced Techno Management Program was attended at Administrative Staff College of India from September 17 to October 19, 2012 at Hyderabad.

## E3

**Table 1: Summary of AICRP entries evaluation against *Chilo partellus* in each maturity group at different Coordinating Centers**

Level of susceptibility	Extra –early maturity			Early maturity			Medium maturity			Full season maturity		
	AET I	AET II	Checks	AET I	AET II	Checks	AET I	AET II	Checks	AET I	AET II	Checks
				No. of entries								
<b>Delhi</b>												
Least susceptible	06	02	02	05	04	02	06	20	03	14	05	04
Moderately susceptible	-	01	-	01	03	-	02	05	02	13	03	01
Highly susceptible	-	-	-	-	-	-	-	-	-	-	-	-
<b>Karnal</b>												
Least susceptible	04	02	01	05	04	01	04	11	01	02	03	01
Moderately susceptible	02	01	01	01	03	01	04	14	04	24	05	04
Highly susceptible	-	-	-	-	-	-	-	-	-	01	-	-
<b>Ludhiana</b>												
Least susceptible	-	-	-	-	-	-	-	01	-	-	-	-
Moderately susceptible	-	01	-	04	02	01	04	19	04	17	03	02
Highly susceptible	06	02	02	02	05	01	04	05	01	10	05	03
<b>Vagarai</b>												
Least susceptible	06	03	02	06	07	02	08	25	05	27	08	05
Moderately susceptible	-	-	-	-	-	-	-	-	-	-	-	-
Highly susceptible	-	-	-	-	-	-	-	-	-	-	-	-
<b>Udaipur</b>												
Least susceptible	-	-	-	-	-	-	-	01	-	-	-	-
Moderately susceptible	05	02	02	03	01	-	07	13	04	17	02	04
Highly susceptible	01	01	-	03	06	02	01	11	01	10	06	01
<b>Kolhapur</b>												
Least susceptible	-	-	-	-	01	-	-	-	-	03	01	-
Moderately susceptible	02	02	-	04	04	01	01	02	02	08	01	02
Highly	04	01	02	02	02	01	07	23	03	16	06	03

## E4

Level of susceptibility	Extra –early maturity			Early maturity			Medium maturity			Full season maturity		
	AET I	AET II	Checks	AET I	AET II	Checks	AET I	AET II	Checks	AET I	AET II	Checks
				No. of entries								
susceptible												
<b>West Bengal</b>												
Least susceptible	06	03	02	06	07	02	06	24	05	25	08	05
Moderately susceptible	-	-	-	-	-	-	02	01	-	02	-	-
Highly susceptible	-	-	-	-	-	-	-	-	-	-	-	-

**\*Based on mean LIR at different locations, all the germplasm fall in the category of moderately susceptible (3.3-5.45)**

**Table 2: Screening of maize AICRP entries of Full Season Maturity against *Chilo partellus* during Kharif, 2012**

Ent. No.	Pedigree	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
AET I									
1	B - 161	2.62	2.85	4.97	1.78	5.3	6.75	3.50	4.05
2	B - 54	1.60	4.95	6.89	1.47	4.3	6.92	3.00	4.36
3	Bisco 2324 Plus	2.15	5.8	7.44	1.80	6.2	7.06	3.00	5.08
4	CMH08-381	2.39	3.3	4.76	1.65	6.1	2.70	2.00	3.48
5	CMH08-381(G)	2.43	4.15	5.51	1.36	5.2	7.50	1.50	4.36
6	CMH09-464	5.45	5.35	5.42	1.13	6.9	7.25	3.00	5.25
7	CMH10-500	5.23	4.8	4.83	1.25	5.9	5.30	2.00	4.55
8	CP 333	2.10	6.15	6.68	1.13	6.90	2.54	4.00	4.25
9	DAS-MH-102	5.50	5.30	6.03	1.54	6.00	7.17	2.00	5.26
10	DMH 7705	5.26	4.90	5.18	1.96	6.10	6.65	3.00	5.01
11	GK 3102	5.56	4.70	6.27	1.81	6.00	8.35	1.00	5.45
12	GK 3103	5.41	4.30	5.73	1.71	5.30	7.29	2.00	4.96



## E5

Ent. No.	Pedigree	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
13	HTMH 5106	2.09	3.90	6.71	1.51	6.00	6.62	1.00	4.47
14	HTMH 5402	5.57	3.30	4.23	1.29	5.00	5.60	3.00	4.17
15	Laxmi 333 (L 333)	5.33	3.90	6.24	1.79	5.30	4.69	3.00	4.54
16	MCH 45	5.27	3.20	5.53	1.75	6.60	4.94	2.50	4.55
17	MCH 46	4.97	5.85	4.93	2.42	4.50	7.80	1.00	5.08
18	NMH-1247	1.59	5.60	5.80	1.58	7.20	3.96	2.50	4.29
19	Orbit	1.72	3.50	6.45	1.50	7.40	5.83	2.50	4.40
20	Seed Tech 2324 (Filler)	2.13	3.05	7.75	1.19	6.70	6.25	1.50	4.51
21	P4546	2.05	4.30	4.20	1.67	5.00	7.13	2.00	4.06
22	PFMH-97 I 57 (AMAR)	1.70	5.00	3.74	1.58	5.30	7.42	2.50	4.12
23	PRO-384	1.42	4.65	6.31	1.24	6.10	3.43	1.00	3.86
24	PRO-385	3.25	3.15	5.12	1.79	6.00	7.26	3.00	4.43
25	S6668	3.42	3.15	5.63	2.03	5.80	2.50	1.50	3.76
26	X35A180	1.93	2.60	5.10	1.67	5.20	7.55	1.00	4.01
27	X35A187	5.08	4.5	5.03	2.05	5.60	5.13	1.00	4.57
AET II									
28	A 7501	1.93	3.3	6.20	1.68	7.90	7.10	1.50	4.69
29	BIO-562	1.87	3.75	4.78	1.27	6.60	6.93	2.00	4.20
30	Bisco New 704	2.41	4.95	8.08	1.67	7.00	6.33	1.50	5.07
31	CMH08-287	5.70	4.00	4.18	1.53	7.30	7.81	2.00	5.09
32	Orbit (Filler)	5.71	5.95	7.24	1.85	6.90	1.93	2.00	4.93
33	M 9977	1.81	2.6	6.63	1.48	6.00	5.28	3.00	3.97
34	NMH-713	2.39	2.35	5.52	1.25	7.00	6.49	3.00	4.17
35	X35A176	4.12	3.00	6.54	1.73	5.70	6.33	1.00	4.57
Checks									
36	Bio 9681 (C)	2.09	4.00	6.98	1.48	5.00	5.91	2.00	4.24

## E6

Ent. No.	Pedigree	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
37	Seed Tech 2324 (Filler)	1.99	2.90	8.63	1.92	5.90	4.89	2.00	4.37
38	PMH 1(C)	2.26	3.10	4.57	1.88	5.00	6.44	1.50	3.88
39	PMH 3(C)	1.71	4.15	5.34	1.60	5.90	6.24	2.00	4.16
40	Seed Tech 2324 (C)	3.10	3.80	7.17	1.96	6.60	6.40	1.00	4.84

Mean leaf injury rating on 1-9 Scale (excluding West Bengal as the data reported on basis of natural infestation)

**Table 3: Screening of maize AICRP entries of Medium Maturity group against *Chilo partellus* during Kharif, 2012**

Ent. No.	Entries	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
AET I									
1	B 53	2.59	3.15	7.10	1.59	5.50	5.40	3.50	4.22
2	EHL 161708 (Hyb)	3.55	2.25	4.28	1.86	5.50	7.50	3.50	4.16
3	JH 31470	3.54	2.75	6.55	1.74	5.80	7.20	1.50	4.60
4	JH 31522	1.92	4.00	4.39	1.56	4.50	7.96	2.00	4.06
5	MCH 47	1.95	3.20	6.77	1.39	6.40	7.45	2.50	4.53
6	PRO-383	2.44	3.40	5.31	1.50	5.00	6.60	2.00	4.04
7	X35A189	1.83	2.75	3.68	1.50	3.60	7.85	1.50	3.54
8	X35A194	2.10	2.25	7.29	1.78	6.00	6.89	1.00	4.39
AET II									
9	B 63	2.26	3.40	4.20	1.38	6.70	7.94	1.00	3.69
10	BH41009	3.13	2.75	3.54	1.46	6.30	8.45	1.00	4.27
11	BIO 151	2.67	2.30	5.57	1.46	6.90	6.95	1.00	4.31
12	BIO-688	2.82	2.75	3.34	1.38	6.90	8.11	1.50	4.22
13	Bisco 2668	2.95	3.45	4.01	1.75	5.90	8.06	1.00	4.35
14	CMH08-292	3.295	4.25	3.80	1.67	5.30	7.80	1.00	4.35
15	CMH08-350	2.73	4.50	3.97	1.41	6.20	6.84	1.50	4.28
16	CMH08-433	3.21	2.30	3.80	1.29	6.40	7.05	1.50	4.01
17	EC-3161	2.89	3.25	3.40	1.33	4.30	6.30	1.00	3.58
18	IMH-666	2.48	2.70	4.64	1.33	2.50	7.80	1.00	3.58
19	JH 31404	2.955	3.95	4.75	2.02	4.50	7.35	1.00	4.25
20	JKMH-7004	2.77	3.05	4.54	1.67	4.00	5.85	1.00	3.65
21	KDMH 176	3.45	3.10	2.93	1.58	4.40	4.46	1.00	3.32
22	KNMH401061	2.00	2.85	6.45	1.48	6.50	7.55	1.00	4.47
23	NMH-1242	2.50	3.40	6.40	1.79	6.90	8.05	1.50	4.84
24	P3396	1.91	3.30	5.37	1.58	7.00	7.60	1.00	4.46
25	PFMH-96 I 41	2.36	2.15	5.40	1.71	5.50	6.90	1.00	4.00
26	PFMH-96 N 46	2.22	2.70	6.41	1.46	5.70	7.25	1.00	4.29
27	S6217	2.43	2.75	4.13	1.50	6.20	8.29	1.50	4.22

Ent. No.	Entries	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
28	S6304	3.46	3.15	6.33	1.54	4.80	7.70	1.00	4.50
29	TITAN	2.30	2.70	4.71	1.75	6.70	7.95	1.00	4.35
30	VMH 4106	2.15	3.35	3.19	1.23	5.70	7.30	1.00	3.82
31	X35A173	2.21	3.95	5.31	1.54	5.10	6.43	1.00	4.09
32	X35A174	2.16	3.95	5.38	1.96	5.90	7.70	4.00	4.51
33	YUVAJ GOLD	2.90	2.35	6.06	1.58	4.90	7.91	1.00	4.28
Checks									
34	BIO 9637 (C)	3.32	3.15	6.25	1.21	5.40	5.70	2.50	4.17
35	Bio 9637 (Filler)	2.69	3.75	3.93	1.61	6.80	4.25	1.50	3.84
36	Bio 9681 (Filler)	2.82	3.70	4.36	1.91	4.10	6.82	3.00	3.95
37	Bio 9637 (Filler)	2.83	3.15	5.75	2.10	4.40	7.44	3.00	4.28
38	PMH 4 (C)	3.17	2.70	5.09	1.56	5.90	7.45	2.00	4.31

Mean leaf injury rating on 1-9 Scale (excluding West Bengal data reported on basis of natural infestation)

**Table 4: Screening of maize AICRP entries of Early Maturity group against *Chilo partellus* during Kharif, 2012**

Ent. No.	Entries	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
AET I									
1	JH 31485	2.41	3.10	5.44	1.58	4.90	5.85	2.00	3.88
2	DAS-MH-501	2.12	2.85	6.73	1.45	4.60	4.04	1.00	3.63
3	Bisco 2238	2.16	2.40	5.31	1.61	5.80	6.66	2.00	3.99
4	K 21	2.46	2.70	6.37	2.00	6.20	4.85	2.00	4.10
5	FH 3548	2.53	2.25	5.38	1.44	6.30	6.05	1.50	3.99
6	CMH10-525	3.14	2.75	5.18	1.65	6.70	4.08	1.00	3.92
AET II									
7	31Y45	2.30	2.75	6.22	1.24	6.70	5.38	2.00	4.10
8	FH 3513	3.43	2.60	5.22	1.24	6.10	4.45	1.00	3.84
9	HKH-317	2.94	3.20	5.58	1.25	7.60	6.73	2.00	4.55
10	KDMH 755	2.59	2.60	6.25	1.31	5.00	2.94	1.00	3.45
11	REH 2009-12	3.20	3.65	6.04	1.44	6.50	4.55	2.00	4.23
12	SUN VAAMAN	2.55	2.60	7.16	1.64	7.00	6.97	2.00	4.65
13	JH 3459 (Filler)	3.45	4.10	6.29	1.48	6.20	4.70	1.00	4.37
Checks									
14	Prakash (C)	2.60	3.20	6.95	1.25	6.10	3.89	2.00	4.00
15	JH 3459(C)	1.25	2.55	3.57	1.92	6.70	8.07	1.50	4.01

Mean leaf injury rating on 1-9 Scale (excluding West Bengal data reported on basis of natural infestation)

**Table 5: Screening of maize AICRP entries of Extra Early Maturity group against *Chilo partellus* during Kharif, 2012**

Ent. No.	Entries	Delhi	Karnal	Ludhiana	Vagarai	Udaipur	Kolhapur	West Bengal	Mean
AET I									
1	DH-230	2.76	1.95	6.92	1.86	3.80	7.70	1.00	4.17
2	FH 3554	2.68	2.5	6.19	1.46	3.70	5.13	2.00	3.61
3	FH 3555	2.76	2.15	6.08	1.51	5.90	7.25	1.50	4.28
4	FH 3556	2.10	2.70	6.80	1.41	5.50	6.00	1.00	4.09
5	FH 3558	2.50	3.35	6.22	1.60	4.90	8.08	2.00	4.44
6	K 75	2.25	4.00	6.25	1.52	7.40	6.68	1.00	4.68
AET II									
7	FH 3510	3.14	2.65	6.00	1.89	5.50	8.21	2.50	4.57
8	FH 3525	2.59	4.2	6.46	1.69	6.50	5.29	2.00	4.46
9	Vivek Hybrid 9 (Filler)	2.62	2.20	8.03	1.44	5.00	3.17	2.50	3.74
Checks									
10	Vivek Hybrid 9 (C)	2.45	4.10	7.13	1.55	5.70	7.79	1.50	4.79
11	Vivek QPM 9 (C)	2.41	2.95	7.13	1.84	4.40	7.83	2.00	4.43

Mean leaf injury rating on 1-9 Scale (excluding West Bengal data reported on basis of natural infestation)

**Table 6: Screening of maize inbred lines against stem borer, *Chilo partellus* during Kharif 2012**

Mean score of LIR

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
1	BML5	8.00	6.10	6.40	6.13	9.00	NG	7.13
2	AEBYC534-1-1	7.80	3.30	3.00	7.14	2.70	NG	4.79
3	BASILOCAL SELECTION	8.75	4.10	2.40	5.00	8.00	4.75	5.50
4	WNZEXOTIC POOL1 A	8.40	2.70	3.20	4.71	4.30	5.00	4.72
5	AEBYC555-1-1	5.60	2.50	3.00	6.00	6.70	6.75	5.09
6	BML10	2.43	5.60	2.40	5.17	7.00	NG	4.52
7	T2SR1101	2.67	5.00	4.60	3.83	4.70	5.00	4.30
8	WNZPBT6	3.27	9.00	3.80	4.17	5.70	2.25	4.70
9	SU2SU2COMP-7-B	1.80	4.90	4.20	5.63	8.00	6.25	5.13
10	CM135	3.18	6.00	4.40	6.00	4.70	4.50	4.80
11	JCS80106H	5.40	3.30	5.40	3.29	6.00	8.00	5.23
12	LM13	7.20	3.30	3.80	4.63	8.00	2.50	4.91
13	ITNA004	8.50	3.30	6.40	6.14	7.30	6.00	6.27
14	E60 FC	7.75	2.70	5.40	6.29	6.00	3.25	5.23
15	POBLAC70 C0	8.75	3.30	3.20	5.33	7.00	2.60	5.03

## E9

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
16	CML44-B-B-B	9.00	3.20	3.00	5.17	7.70	2.40	5.08
17	AEB(Y)	4.75	4.00	3.20	5.33	5.30	3.60	4.36
18	PFSRS3	7.60	2.70	2.50	NG	6.70	2.50	4.40
19	LM16	3.09	2.60	3.00	4.50	4.00	2.00	3.20
20	HKIPC5	5.67	3.30	5.40	5.40	5.30	3.80	4.81
21	S99TLWQ-HG-BBB-65	8.33	6.80	3.20	5.50	5.00	5.50	5.72
22	HKI193-1	8.50	3.20	2.10	6.25	6.30	7.00	5.56
23	WINPOP3	2.00	2.10	2.10	8.63	7.70	NG	4.51
24	WINPOPIIXWINP OPIII	8.20	2.90	5.40	5.86	6.70	8.40	6.24
25	97P65-BBB-26-B	2.58	3.70	2.00	5.33	5.70	5.20	4.09
26	WSC1XMASMAD HU	8.14	5.20	2.40	8.11	7.00	3.20	5.68
27	EC610584	4.87	4.00	2.60	6.38	7.00	6.25	5.18
28	CM118	8.00	4.70	5.80	6.29	7.00	3.50	5.88
29	CM201	8.50	5.80	2.60	5.11	6.30	4.00	5.39
30	CML77	4.50	6.70	6.00	6.20	9.00	2.50	5.82
31	CML321	8.00	5.00	6.00	5.13	8.00	NG	6.43
32	BML11	6.58	5.30	3.40	4.13	7.30	7.80	5.75
33	WNZPBT18	5.00	2.60	3.40	4.25	5.50	2.20	3.83
34	HKI164-3-(2-1)1	7.00	3.50	2.00	3.56	3.30	3.00	3.73
35	AEBYC538-1-1	5.70	3.10	2.00	3.22	3.00	5.20	3.70
36	POP31DMR-88-3#-13-1	4.09	5.80	4.80	5.83	7.30	8.00	5.97
37	CM121	8.50	6.00	1.00	6.50	9.00	3.40	5.73
38	E62FC	5.25	1.60	2.10	NG	3.00	6.00	3.59
39	HKIPCBT3	8.83	6.00	6.80	5.57	7.70	6.50	6.90
40	CM111	7.00	5.90	4.00	6.22	7.30	NG	6.08
41	P61C1BBB-8	1.00	-	2.20	5.43	3.00	4.60	3.25
42	AEBY1	5.00	2.30	2.20	6.00	4.00	4.80	4.05
43	S991S1WQETBB B-32	4.86	6.90	2.30	4.20	5.30	3.40	4.49
44	WINPOP21	2.33	8.30	2.20	5.00	7.00	2.50	4.56
45	SWEETCORN SYNTHETIC	8.40	4.30	2.30	4.89	2.70	5.75	4.72
46	DMRSC1	8.50	5.30	2.00	5.50	5.30	NG	5.32
47	CML73	8.50	4.60	2.00	7.00	4.30	NG	5.28
48	CML151	1.00	6.60	NG	7.17	8.70	NG	5.87
49	WNZ EXOTIC POOLDC2	5.00	4.10	3.20	4.33	3.30	3.00	3.82
50	WNS	2.33	4.20	5.80	3.60	3.00	5.60	4.09

**E10**

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
51	LM13	1.60	5.40	6.40	6.50	7.00	NG	5.38
52	P65C6-BBB-23	1.71	4.80	2.00	5.29	7.30	NG	4.22
53	CM117-3-4-1	2.40	5.60	6.80	5.67	6.80	2.67	4.99
54	CM502	3.33	3.00	3.30	7.00	3.00	4.60	4.04
55	JCY3-7	9.00	5.10	5.40	6.22	3.30	3.20	5.37
56	JCS2-7	8.17	3.00	5.20	6.11	9.00	3.80	5.88
57	PFSRS2	5.50	3.20	3.40	4.50	4.00	2.40	3.83
58	PFSR5106/1	6.37	2.60	2.10	6.89	6.70	7.40	5.34
59	SOS1YQBBB-13	7.87	4.90	4.00	5.38	2.30	7.33	5.30
60	BML14	4.25	4.00	3.00	5.25	3.80	NG	4.06
61	CML261	3.00	2.00	2.00	6.00	2.00	NG	3.00
62	CLQRCWQ02B-6	9.00	3.00	5.40	4.86	7.70	NG	5.99
63	CML281	8.60	4.70	4.80	4.67	5.00	NG	5.55
64	CML338	1.57	4.60	5.20	6.44	2.80	6.00	4.44
65	TZAR106	1.62	3.00	6.00	3.44	2.30	2.20	3.09
66	TZAR101	8.00	5.50	3.20	4.29	5.30	4.67	5.16
67	CM115	8.80	3.80	3.00	4.33	6.80	6.60	5.56
68	CM208	7.00	6.90	6.20	5.33	9.00	8.40	7.14
69	CML41	8.00	5.40	3.00	3.29	7.80	4.80	5.38
70	AEBCYC534-2-1	8.33	3.00	3.80	4.38	6.80	4.00	5.05
71	BCK/BC8	8.50	3.30	3.40	5.38	4.80	2.20	4.60
72	AEBY2A	8.27	2.10	3.20	5.56	7.30	3.40	4.97
73	AEBCYC534-3-1	1.80	2.40	2.00	5.33	6.00	NG	3.51
74	WINPOP8	8.50	2.30	4.00	5.00	7.00	NG	5.36
75	CLQRCWQ31-B-6	9.00	3.80	6.20	5.13	8.80	8.40	6.89
76	CML306	2.00	4.30	2.00	4.25	9.00	5.00	4.43
77	CML162	9.00	3.00	3.10	6.13	7.80	7.75	6.13
78	CML49	8.67	4.90	3.20	6.75	9.00	7.25	6.63
79	CM211	8.87	4.10	3.10	6.25	9.00	3.80	5.85
80	P3C4S5-33-11-BBBB-2	8.50	4.80	3.20	7.63	7.30	4.67	6.02
81	HIGHOILQPMC13-BBB-61	9.00	4.50	2.00	7.00	8.00	4.50	5.83
82	WNZPBTL5	1.10	1.90	2.00	5.20	8.00	4.40	3.77
83	CM501	5.44	2.70	2.20	5.57	6.80	2.60	4.22
84	CM123	2.67	3.10	2.20	6.43	9.00	5.80	4.87
85	HK11105	9.00	3.10	2.40	5.29	7.00	NG	5.36
86	CM142	8.44	3.00	2.40	5.71	7.30	6.60	5.58
87	AEBY2SELECTI	4.64	2.00	3.00	4.13	5.00	NG	3.75

E11

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
	ON							
88	WS2	8.67	3.90	2.40	4.50	7.30	NG	5.35
89	CM400	8.67	7.30	2.00	4.33	8.80	NG	6.22
90	JCS789CH1	1.20	3.80	1.00	NG	8.50	NG	3.63
91	CML304	9.00	4.60	3.00	4.57	5.70	2.33	4.87
92	HKI484-5	7.85	2.40	3.00	4.50	6.00	2.40	4.36
93	CM117	9.00	4.00	3.10	6.13	3.00	3.60	4.81
94	P69(5869Q)BBB-24	9.00	4.90	2.00	5.25	8.30	3.00	5.41
95	CM140	8.50	6.10	3.80	5.13	8.30	7.50	6.56
96	G15QC7-BBB-6-BBB	5.00	6.60	2.80	7.00	1.50	9.00	5.32
97	V351	4.85	4.90	2.40	7.00	6.00	5.20	5.06
98	HKI1040C2	9.00	4.00	3.00	NG	9.00	8.80	6.76
99	CM131	9.00	4.10	2.20	6.00	5.30	7.75	5.73
100	BML15	8.71	6.30	4.80	4.50	8.50	4.00	6.14
101	CM130	1.40	3.50	2.00	NG	8.80	3.60	3.86
102	BCK/BC2	9.00	-	3.40	5.33	4.50	2.75	5.00
103	HKI170(1+2)	8.30	3.00	3.50	5.25	9.00	6.25	5.88
104	CUBA378	8.00	4.50	3.00	5.33	9.00	7.00	6.14
105	CML287	9.00	7.30	NG	5.00	8.00	2.50	6.36
106	DMSC28	9.00	5.20	2.00	7.00	7.00	2.20	5.40
107	Sow1wq-2-BBB-B	8.50	5.00	3.80	7.17	6.30	2.20	5.50
108	O2POOL33C23	2.70	3.80	5.00	4.78	8.30	6.25	5.14
109	JCS796CH8	9.00	6.40	4.00	5.11	8.80	2.60	5.99
110	HKI536-7	9.00	3.30	2.00	6.25	8.80	8.20	6.26
111	JAHNGRAPOP	6.30	5.80	2.00	5.89	8.00	6.40	5.73
112	CM119	6.33	4.80	2.00	5.38	5.30	6.00	4.97
113	EC672591	7.67	2.90	6.60	5.43	2.80	7.50	5.48
114	HKI488 EARLY	8.71	2.50	2.00	5.78	3.00	7.00	4.83
115	CM125	8.40	5.80	2.00	5.86	8.00	NG	6.01
116	WP21	8.33	2.60	1.00	6.50	6.00	6.80	5.21
117	SOS1YQBB26-B	8.60	3.80	2.60	6.75	5.80	5.33	5.48
118	HKI586-1WG33	1.43	3.00	4.40	5.50	7.30	8.00	4.94
119	CML116	2.00	6.60	6.20	6.00	8.80	2.50	5.35
120	DMRPP1	9.00	7.80	6.00	6.50	8.50	8.75	7.76
121	HKI577	2.00	3.30	NG	9.00	9.00	8.50	6.36
122	CML448	7.50	3.30	2.00	6.14	9.00	5.50	5.57
123	EC618222	9.00	5.30	4.00	6.25	2.80	8.33	5.95

## E12

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
124	CML73	1.25	4.90	6.40	7.00	9.00	3.25	5.30
125	CML305	8.83	2.40	3.20	6.25	9.00	8.00	6.28
126	HKI1532	8.20	5.30	5.60	5.20	9.00	2.60	5.98
127	CML371	1.25	6.40	3.00	6.00	9.00	7.50	5.53
128	CML384X176F3-100-9	9.00	4.60	3.20	7.17	9.00	7.00	6.66
129	V335	8.00	3.60	3.60	5.29	9.00	3.75	5.54
130	HKI163EARLY	8.00	3.60	2.00	5.00	9.00	NG	5.52
131	CML338	9.00	2.10	2.20	5.67	9.00	3.00	5.16
132	CML312	9.00	3.30	4.00	6.33	NG	NG	5.66
133	HKI326-3	9.00	4.60	2.00	5.57	1.00	NG	4.43
134	CML491-B6	8.50	3.20	6.80	5.56	9.00	NG	6.61
135	P63C2-BBB-17B	7.00	3.10	2.00	6.67	9.00	NG	5.55
136	CML140	8.25	3.60	2.40	6.83	9.00	7.80	6.31
137	CML212	5.50	3.30	6.00	5.67	8.50	9.00	6.33
138	CML227	7.00	3.00	5.80	6.67	7.80	9.00	6.55
139	CLQRCWQ16-B6	NG.	4.00	5.00	5.86	6.00	NG	5.22
140	CML288	1.50	6.30	3.00	5.00	9.00	8.40	5.53
141	CML73	9.00	5.70	2.00	5.50	9.00	7.00	6.37
142	CML435	1.20	5.80	3.30	6.63	9.00	9.00	5.82
143	CML335	7.25	NG	3.00	6.67	8.60	8.00	6.70
144	CML408	9.00	3.50	3.10	8.00	9.00	NG	6.52
145	HKI287	9.00	5.40	6.20	6.57	7.30	2.20	6.11
146	BML7	9.00	6.10	3.60	7.33	9.00	3.25	6.38
147	G18QC8-36	3.50	7.30	2.00	7.29	7.00	3.00	5.02
148	CML282	2.00	7.80	4.80	7.00	9.00	6.20	6.13
149	CML303	9.00	7.30	2.00	6.00	9.00	4.67	6.33
150	WNZPRTL9	9.00	2.40	3.00	5.57	9.00	2.75	5.29
151	CML376	NG	6.10	3.00	5.40	9.00	8.00	6.30
152	CML189	8.50	6.00	NG	5.25	9.00	8.00	7.35
153	(CML161/CML165)BBB7	8.71	7.30	3.60	5.60	7.00	3.60	5.97
154	HKI209	8.33	7.20	5.00	5.50	9.00	3.20	6.37
155	CML317	9.00	5.00	5.20	8.00	7.80	3.80	6.47
156	EC598464	9.00	7.40	6.70	5.00	NG	5.75	6.77
157	CML256	1.60	4.50	2.40	5.75	9.00	3.00	4.38
158	CML479	1.60	6.00	2.60	5.00	9.00	6.50	5.12
159	CML90	9.00	5.20	2.40	6.00	9.00	9.00	6.77
160	CML494	8.33	3.50	2.20	NG	9.00	8.60	6.33



## E13

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
161	HKI2-6-2-4	1.00	5.30	3.00	5.00	7.80	2.80	4.15
162	EC655779	8.50	6.50	6.40	6.57	6.00	2.60	6.10
163	CML23	8.50	7.00	6.50	5.50	6.00	7.50	6.83
164	CML292	9.00	7.00	7.80	NG	8.80	6.50	7.82
165	CML50	1.89	4.70	3.00	6.00	9.00	2.75	4.56
166	CML424	7.80	2.40	3.20	5.38	5.80	5.25	4.97
167	EC614829	7.12	6.00	3.20	5.25	7.20	3.75	5.42
168	CLQRCYQ42	8.00	5.30	3.40	6.67	7.30	3.80	5.75
169	CML 491	9.00	6.40	4.00	5.00	5.60	3.60	5.60
170	CML402	6.67	5.50	2.00	5.60	9.00	7.33	6.02
171	CML420	8.67	2.50	2.00	4.71	9.00	2.60	4.91
172	HKI335	9.00	6.50	4.20	5.00	8.00	3.75	6.08
173	CML12	9.00	2.30	6.20	6.33	9.00	2.40	5.87
174	CML327	2.00	5.30	2.00	NG	7.00	2.00	3.66
175	CML289	1.00	5.00	4.40	4.40	9.00	2.60	4.40
176	CML451(susceptible check)	5.40	7.80	4.80	5.33	9.00	6.00	6.39
177	CML482	1.20	4.50	2.00	4.75	5.00	8.67	4.35
178	HYBRID 9415-BBB-4	4.42	2.50	2.00	5.50	9.00	8.00	5.24
179	CML238	5.17	5.80	3.80	5.00	9.00	8.25	6.17
180	S00TLWQHGBB B35-B	6.25	4.20	4.30	4.50	8.50	4.75	5.42
181	G24QC19BBB-4	9.00	3.30	2.00	5.50	8.20	6.33	5.72
182	CML187B	8.60	7.30	2.00	6.50	4.00	7.67	6.01
183	G31QC2BB23	5.42	6.40	2.40	5.33	6.50	9.00	5.84
184	CML481	8.40	5.00	2.10	5.50	9.00	7.50	6.25
185	CML290	5.00	5.90	NG	5.00	9.00	7.25	6.43
186	CML411	4.55	6.30	4.40	5.00	3.00	5.25	4.75
187	CML120	8.00	7.20	NG	7.00	3.00	8.75	6.79
188	HKI209	2.33	NG	2.20	6.00	9.00	7.25	5.36
189	CML344BB	8.88	3.40	6.40	5.00	NG	2.67	5.27
190	CML111BBB	2.00	5.30	2.00	5.00	9.00	3.00	4.38
191	S87P66Q-BBB-30	3.00	2.60	3.00	4.00	3.00	5.33	3.49
192	LTP1	1.55	6.10	3.00	6.33	9.00	5.75	5.29
193	CML114	4.71	6.30	2.00	5.29	8.20	6.25	5.46
194	DMRN7CH7	8.67	3.30	2.60	4.25	8.70	3.60	5.19
195	CLQ6310	5.42	5.30	4.80	NG	9.00	8.33	6.57
196	G33QC20-BBB-37	2.14	2.60	5.20	5.86	8.80	5.67	5.05

**E14**

S. No	Inbred	Delhi	Hyderabad	Karnal	Ludhiana	Udaipur	Kolhapur	Mean
197	HKISCSTPINK	8.33	5.70	3.20	5.25	9.00	7.75	6.54
198	HKI1831	1.83	5.50	5.80	5.71	8.50	5.50	5.47
199	COMPMODBCO BBB-48	9.00	5.70	5.00	4.60	9.00	3.50	6.13
200	CML336	3.64	5.90	4.40	5.38	6.30	4.75	5.06
201	CML18	7.50	7.50	8.00	6.33	6.70	NG	7.21
202	EC440414	1.50	6.60	8.00	7.50	9.00	6.00	6.43
203	CML298	8.75	6.80	3.20	6.00	2.50	8.50	5.96
204	P70C0BBB-5	8.50	2.20	3.00	4.25	NG	NG	4.49
205	CML55BB	8.20	6.10	3.20	5.17	3.00	2.75	4.74
206	CML485BBB	2.00	4.40	3.00	5.13	9.00	4.00	4.59
207	CLORCY47B6	8.50	7.50	3.60	5.17	9.00	7.50	6.88
208	CML249	9.00	7.20	6.20	5.14	9.00	2.25	6.47
209	CML423	2.25	6.50	6.00	6.17	9.00	4.75	5.78
210	CML165BBB	1.33	5.50	NG	7.33	5.00	9.00	5.63
211	HKI 586	1.92	4.40	NG	5.14	9.00	3.40	4.77
212	P390AM/CMLC4 F230-B-2	5.80	3.00	NG	6.50	8.80	3.40	5.50

**NG-No germination**

Based on the mean leaf injury rating the inbred lines have been categorized as follow.

Least Susceptible (LIR 1-3): 1

Moderately Susceptible (LIR 3.1-6.0): 152

Highly Susceptible (LIR 6.1-9.0): 59

**Table 7: Least and moderately susceptible inbred lines against *Chilo partellus***

S.No.	Entries	Mean LIR
Least susceptible inbred line		
1	CML261	3.00
Moderately susceptible inbred line		
1	AEBYC534-1-1	4.79
2	BASILOCAL SELECTION	5.50
3	WNZEXOTIC POOL1 Å	4.72
4	AEBYC555-1-1	5.09
5	BML10	4.52
6	T2SR1101	4.30
7	WNZPBT6	4.70
8	SU2SU2COMP-7-B	5.13
9	CM135	4.80
10	JCS80106H	5.23
11	LM13	4.91
12	E60 FC	5.23

## E15

S.No.	Entries	Mean LIR
13	POBLAC70 C0	5.03
14	CML44-B-B-B	5.08
15	AEB(Y)	4.36
16	PFSRS3	4.40
17	LM16	3.20
18	HKIPC5	4.81
19	S99TLWQ-HG-BBB-65	5.72
20	HKI193-1	5.56
21	WINPOP3	4.51
22	97P65-BBB-26-B	4.09
23	WSC1XMASMADHU	5.68
24	EC610584	5.18
25	CM118	5.88
26	CM201	5.39
27	CML77	5.82
28	BML11	5.75
29	WNZPBT8	3.83
30	HKI164-3-(2-1)1	3.73
31	AEBYC538-1-1	3.70
32	POP31DMR-88-3#-13-1	5.97
33	CM121	5.73
34	E62FC	3.59
35	P61C1BBB-8	3.25
36	AEBY1	4.05
37	S991S1WOETBBB-32	4.49
38	WINPOP21	4.56
39	SWEETCORN SYNTHETIC	4.72
40	DMRSC1	5.32
41	CML73	5.28
42	CML151	5.87
43	WNZ EXOTIC POOLDC2	3.82
44	WNS	4.09
45	LM13	5.38
46	P65C6-BBB-23	4.22
47	CM117-3-4-1	4.99
48	CM502	4.04
49	JCY3-7	5.37
50	JCS2-7	5.88

## E16

S.No.	Entries	Mean LIR
51	PFSRS2	3.83
52	PFSR5106/1	5.34
53	S0S1YQBBB-13	5.30
54	BML14	4.06
55	CLQRCWQ02B-6	5.99
56	CML281	5.55
57	CML338	4.44
58	TZAR106	3.09
59	TZAR101	5.16
60	CM115	5.56
61	CML41	5.38
62	AEBCYC534-2-1	5.05
63	BCK/BC8	4.60
64	AEBY2A	4.97
65	AEBCYC534-3-1	3.51
66	WINPOP8	5.36
67	CML306	4.43
68	CM211	5.85
69	HIGHOILQPMC13-BBB-61	5.83
70	WNZPBT5	3.77
71	CM501	4.22
72	CM123	4.87
73	HKI1105	5.36
74	CM142	5.58
75	AEBY2SELECTION	3.75
76	WS2	5.35
77	JCS789CH1	3.63
78	CML304	4.87
79	HKI484-5	4.36
80	CM117	4.81
81	P69(5869Q)BBB-24	5.41
82	G15QC7-BBB-6-BBB	5.32
83	V351	5.06
84	CM131	5.73
85	CM130	3.86
86	BCK/BC2	5.00
87	HKI170(1+2)	5.88
88	DMSC28	5.40

## E17

S.No.	Entries	Mean LIR
89	Sow1wq-2-BBB-B	5.50
90	O2POOL33C23	5.14
91	JCS796CH8	5.99
92	JAHNGRAPOP	5.73
93	CM119	4.97
94	EC672591	5.48
95	HKI488 EARLY	4.83
96	WP21	5.21
97	SOS1YQBB26-B	5.48
98	HKI586-1WG33	4.94
99	CML116	5.35
100	CML448	5.57
101	EC618222	5.95
102	CML73	5.30
103	HKI1532	5.98
104	CML371	5.53
105	V335	5.54
106	HKI163EARLY	5.52
107	CML338	5.16
108	CML312	5.66
109	HKI326-3	4.43
110	P63C2-BBB-17B	5.55
111	CLQRCWQ16-B6	5.22
112	CML288	5.53
113	CML435	5.82
114	G18QC8-36	5.02
115	WNZPBT9	5.29
116	(CML161/CML165)BBB7	5.97
117	CML256	4.38
118	CML479	5.12
119	HKI2-6-2-4	4.15
120	CML50	4.56
121	CML424	4.97
122	EC614829	5.42
123	CLQRCYQ42	5.75
124	CML 491	5.60
125	CML420	4.91
126	CML12	5.87

S.No.	Entries	Mean LIR
127	CML327	3.66
128	CML289	4.40
129	CML482	4.35
130	HYBRID 9415-BBB-4	5.24
131	S00TLWQHGBBB35-B	5.42
132	G24QC19BBB-4	5.72
133	G31QC2BB23	5.84
134	CML411	4.75
135	HKI209	5.36
136	CML344BB	5.27
137	CML111BBB	4.38
138	S87P66Q-BBB-30	3.49
139	LTP1	5.29
140	CML114	5.46
141	DMRN7CH7	5.19
142	G33QC20-BBB-37	5.05
143	HKI1831	5.47
144	CML336	5.06
145	CML298	5.96
146	P70C0BBB-5	4.49
147	CML55BB	4.74
148	CML485BBB	4.59
149	CML423	5.78
150	CML165BBB	5.63
151	HKI 586	4.77
152	P390AM/CMLC4F230-B-2	5.50

**Table 8: Second year screening of selected least susceptible inbred lines against *Chilo partellus* during Kharif, 2012 at Delhi**

S. No.	Inbred lines	Mean LIR	
		2012	2011
1	E4	9.00	2.2
2	HKIPC7	8.17	1.00
3	ESM11-3	1.33	1.75
4	HYDO5R/2-1	2.00	1.60
5	HKI586-1WG33	2.22	1.25
6	HKIMBR139-2	8.33	1.50
7	DMRQPM58-26	9.00	1.80
8	LM15	2.28	1.75

S. No.	Inbred lines	Mean LIR	
		2012	2011
9	CM117-4-1	7.33	1.50
10	SW930-313	8.40	1.25
11	PFSRR3-1	8.50	2.00
12	10115	6.00	1.30
13	PFSRR3-4	7.50	2.20
14	10116	9.00	1.40
15	PFSRR3-2	8.37	1.60
16	10113	6.33	1.80
17	AEBY-55	9.00	5.00
18	PFSRR3-5	3.00	1.66

**Table 9: Second year screening of selected least susceptible SRK inbred lines against *Chilo partellus* during Kharif, 2012 at Delhi**

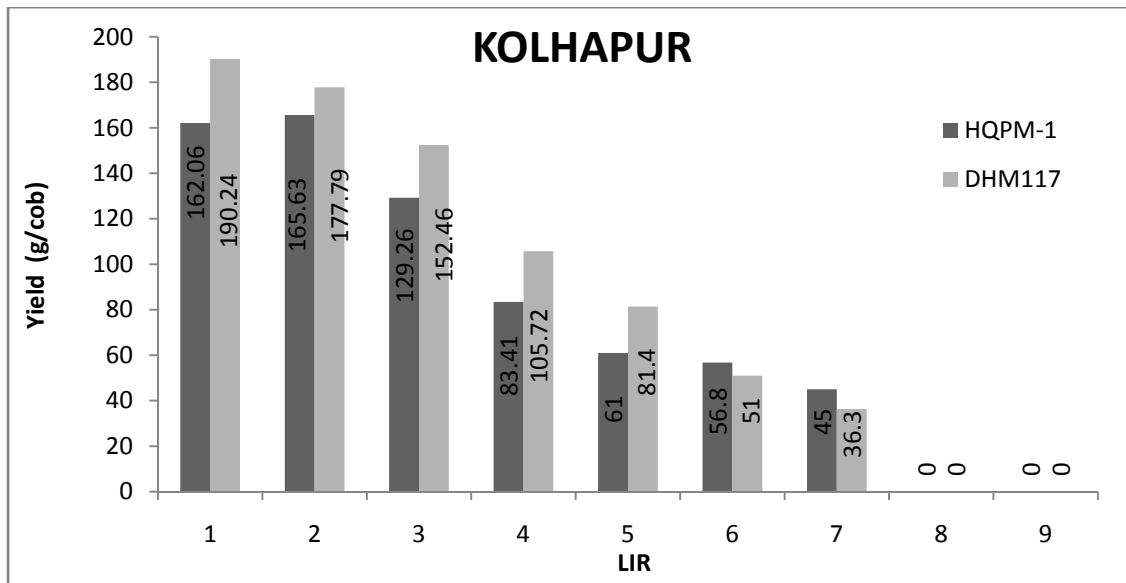
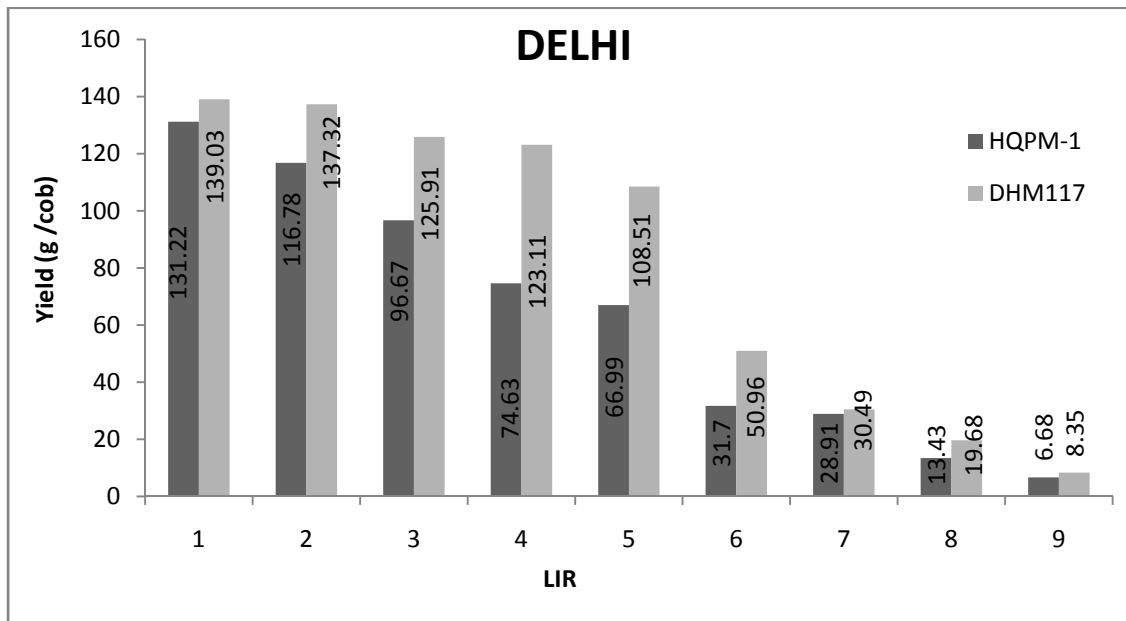
S. No.	Inbred lines	Mean LIR	
		2012	2011
1	RSK2011-3	1.73	1.00
2	RSK2011-5	2.00	1.00
3	RSK2011-6	8.60	1.00
4	RSK2011-7	1.86	1.00
5	RSK2011-8-1	1.86	1.40
6	RSK2011-8-2	4.67	1.40
7	RSK2011-8-3	2.20	1.40
8	RSK2011-11	4.25	1.40
9	RSK2011-12	5.15	1.20
10	RSK2011-14	3.62	1.00
11	RSK2011-15	2.00	1.00
12	RSK2011-17	2.37	1.25
13	RSK2011-18	1.40	1.00
14	RSK2011-20-1	8.66	1.00
15	RSK2011-20-2	4.50	1.00
16	RSK2011-21-1	2.78	1.00
17	RSK2011-21-2	2.58	1.00
18	RSK2011-22-1	1.87	1.00
19	RSK2011-22-2	2.09	1.00
20	RSK2011-24	2.50	1.00
21	RSK2011-26	4.90	1.00
22	RSK2011-27	3.27	1.25
23	RSK2011-36	8.83	1.25
24	RSK2011-37	1.75	1.25
25	RSK2011-39-1	2.40	1.20
26	RSK2011-39-2	1.67	1.20
27	RSK2011-42-1	2.00	1.00
28	RSK2011-42-2	1.25	1.00
29	RSK2011-46	1.25	1.40
30	RSK2011-47	1.83	1.50
31	RSK2011-53	4.70	1.66

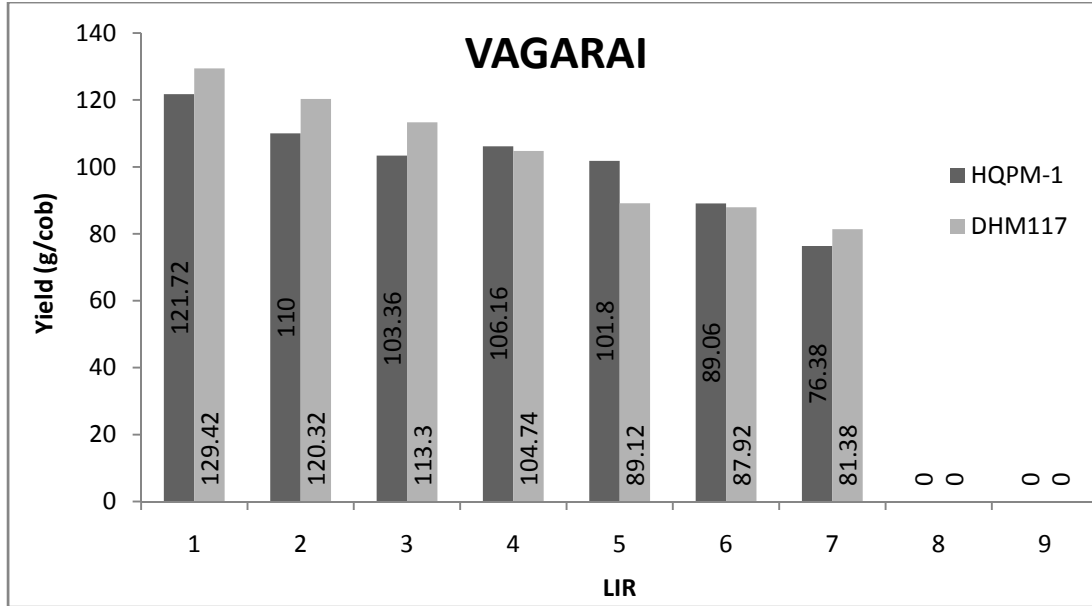
## E20

S. No.	Inbred lines	Mean LIR	
		2012	2011
32	RSK2011-54	1.86	1.75
33	RSK2011-55	2.00	1.20
34	RSK2011-56	8.50	1.33
35	RSK2011-57	7.25	1.00
36	RSK2011-67	2.00	1.33
37	RSK2011-68	2.12	1.66
38	RSK2011-69	4.54	1.40
39	RSK2011-73	1.81	9.0
40	RSK2011-76	2.44	1.75
41	RSK2011-78	3.66	1.00
42	RSK2011-79	2.91	1.80
43	RSK2011-80	2.62	2.00
44	RSK2011-83	2.50	4.66
45	RSK2011-85	2.00	2.20
46	RSK2011-86	8.14	6.00
47	RSK2011-88	8.50	2.00
48	RSK2011-91	4.00	2.00
49	RSK2011-92-1	2.25	1.50
50	RSK2011-92--2	7.33	1.50
51	RSK2011-93	2.17	2.50
52	RSK2011-94	1.67	1.00
53	RSK2011-95	1.80	1.20
54	RSK2011-98	8.67	1.00
55	RSK2011-100	2.50	9.00
56	RSK2011-102	6.33	1.00
57	RSK2011-105	8.67	1.80
58	RSK2011-106	6.50	9.00
59	RSK2011-107	1.00	1.66
60	RSK2011-108	2.50	1.33
61	RSK2011-109	1.80	1.00
62	RSK2011-112	1.67	1.50
63	RSK2011-115-1	9.00	1.40
64	RSK2011-115-2	8.00	1.40
65	RSK2011-115-3	2.17	1.40
66	RSK2011-121	8.67	1.00
67	RSK2011-122	5.00	7.33
68	RSK2011-132	5.50	2.00
69	RSK2011-138	1.71	1.00



**Table 10: Determination of relationship between leaf injury rating and grain yield of HQPM 1 and DHM 117 at Delhi, Kolhapur and Vagarai**





**Table 11: Study on host plant preference of *Chilo partellus* in field during Kharif at Kolhapur**

Treatment	Infestation at 30 DAG (%)	Dead hearts at 30 DAG (%)	No. of larvae observed at 65 DAG	No. of pupae observed at 65 DAG	No. of exit holes observed at 65 DAG
Maize	1.20	0.00	1.71	0.00	1.43
Sorghum	86.48	82.03	7.00	1.00	3.71
Pearl millet	0.76	0.43	0.00	0.00	0.14

**Table 12: Comparison of infestation potential of *Chilo partellus* reared on different media at Udaipur**

Artificial media		Natural host (Maize plant)	
LIR	Frequency of infested plants	LIR	Frequency of infested plants
3.0	3	4.0	2
4.0	8	5.0	8
5.0	8	6.0	4
6.0	15	7.0	8
8.0	7	8.0	10
9.0	9	9.0	18
Cumulative LIR	308	Cumulative LIR	370

**Table 13: Comparison of infestation potential of *Chilo partellus* reared on different media at Ludhiana and Delhi**

Location	Avg. LIR	
	Artificial diet	Natural Diet
Ludhiana	5.44	8.35
Delhi	2.34	2.54
Udaipur	6.02	6.14

**Table 14: Evaluation of entries for resistance against *Chilo partellus* under advance station trial I and II at PAU, Ludhiana**

AST-I			AST-II		
S.No.	Entries	Mean LIR	S.No.	Entries	Mean LIR
1	JH31522	4.00	1	DKC 9125	4.00
2	JH 3459	4.13	2	NMH 731	4.50
3	PMH 4	4.44	3	NMH 1242	4.00
4	JH 31204	5.00	4	FMH 405	5.14
5	PMH 2	5.00	5	Kaplia	5.00
6	JH31485	4.88	6	Manisha 9494	5.00
7	PARKASH	5.00	7	P 3396	4.63
8	KH31598	4.13	8	LY 4558	5.22
9	PMH 1	5.43	9	PMH 1	5.33
10	JH31467	6.00	10	PMH 3	5.10
11	JH314670	5.38	11	PMH 4	5.45
			12	JH 12002	5.00
			13	JH 31600	5.10
			14	DKC 9106	5.17
			15	JH 12001	5.64

**Table 15: Evaluation of inbred lines for resistance against *Chilo partellus* under station trial at Udaipur**

S. No.	Inbred lines	LIR
1.	EH-2101	3.0
2.	EC-3161	3.0
3.	HER-16	5.1
4.	EH-2223	Not germinated
5.	HKI-193XEI670	8.5
6.	EI-561-1X9&dw6A	9.0
7.	EI-670X	9.0
8.	EI-586XRed	6.5
9.	EI-586X Light red	3.0
10.	EI-466X	9.0
11.	EI-364X	9.0

S. No.	Inbred lines	LIR
12.	EI-708-1XLXT	3.0
13.	EI-116X	9.0
14.	8CLO-Rcyg-40-3	8.7
15.	HKI-193-1	6.0
16.	HQPM-1	4.8
17.	HQPM-7	4.8
18.	Vivek hybrid-9	5.8
19.	Navjot	4.5
20.	Bio-9637	4.5
21.	PEHM-2	4.8
22.	Pratap Makka-3	4.6

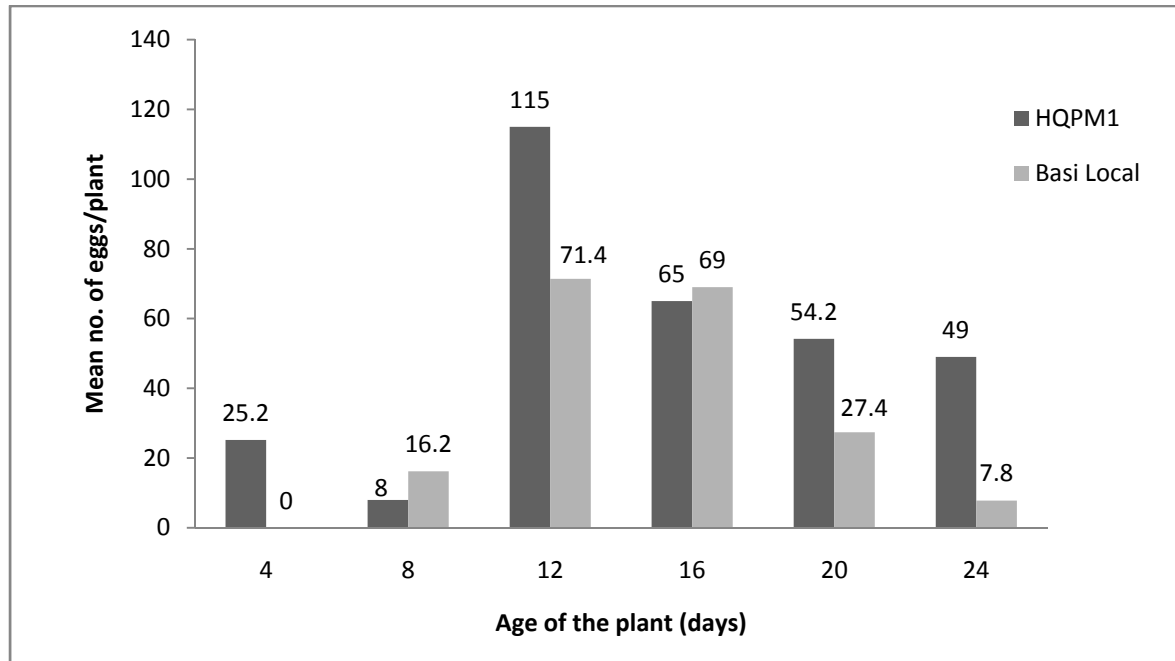
**Table 16: Management of *Chilo partellus* with habitat management and seed treatment at Karnal**

S.No.	Treatment	Plant Stand/plot (18m <sup>2</sup> )	Dead Heart (%)	Grain Yield (Kg/ha)
1	Maize + cowpea	66.33	6.40	5055
2	Seed treatment with imidacloprid 600FS@ 7mL/kg	66.66	8.23	5867
3	Seed treatment with imidacloprid + Cowpea	92.66	9.80	6294
4	Spray of thiodicard @ 1g/L	108.00	3.133	6778
5	Spray of thiodicard @ 1.25g/L	95.33	2.133	7311
6	2 sprays of NSKE	89.00	11.20	5555
7	2 sprays of NSKE + Cowpea	65.33	8.70	6255
8	Control (untreated)	74.33	17.13	5000

**(Mean of three replications)**

The plant stand greatly varied which influenced yield. Thiodicard @ 1.25g/L gave best results both in terms of less number of dead hearts and higher yield.

**Fig.1. Plant-age preference of *Sesamia inferens* for oviposition on HQPM1 and Basi Local at Delhi (Multi choice test)**



**Table 17: Comparison of number of eggs laid by *Sesamia inferens* on plant-age profile (No choice test)**

Age of plant (days)	Total number of eggs laid (mean of 3 replications)	
	HQPM1	Basi Local
4	192.0	122.7
8	250.3	153.3
12	319.3	242.7
16	262.7	232.0
20	242.0	222.7
24	172.7	150.7
Total Fecundity	239.8	187.35

**Table 18: Distribution pattern of eggs of *Sesamia* on maize plants**

Between the plants (mean of 3 replications)						
Germplasm	Number of Plants	Plant number (% eggs)				Fecundity
		1	2	3	4	
HQPM1	1	100.00				252.33
	2	58.99	41.01			280.67
	3	58.62	29.54	11.85		291.00
	4	50.57	29.67	14.31	5.45	297.67
Basi Local	1	100.00				175.33
	2	70.18	29.82			183.67
	3	59.46	31.82	8.72		193.33
	4	54.16	29.76	10.62	5.47	207.33
Within the plant (mean of 3 replications)						
Germplasm	Leaf sheath (% eggs)			Fecundity		
	Basal	First	Second			
HQPM1	14.24	58.57	27.19	319.33		
Basi Local	10.57	80.01	9.41	189.33		

**Table 19: Utilization of number of plants out of 10 for egg distribution by *Sesamia inferens***

Replication	Plant No.	No. of eggs /plant	Total No. of egg masses
R1	1	123	2
	2	59	1
	3	92	2
	4	42	1
<b>Total</b>		<b>316</b>	<b>6</b>
R2	1	102	1
	2	88	1
	3	82	1
	4	78	2
<b>Total</b>		<b>350</b>	<b>5</b>
R3	1	233	5
	2	7	2
	3	52	2
	4	78	3
<b>Total</b>		<b>360</b>	<b>12</b>
R4	1	66	2
	2	96	3
	3	50	2
	4	68	3
<b>Total</b>		<b>280</b>	<b>10</b>
R5	1	12	1
	2	136	2
	3	118	2
	4	190	2
<b>Total</b>		<b>456</b>	<b>7</b>
R6	1	138	2

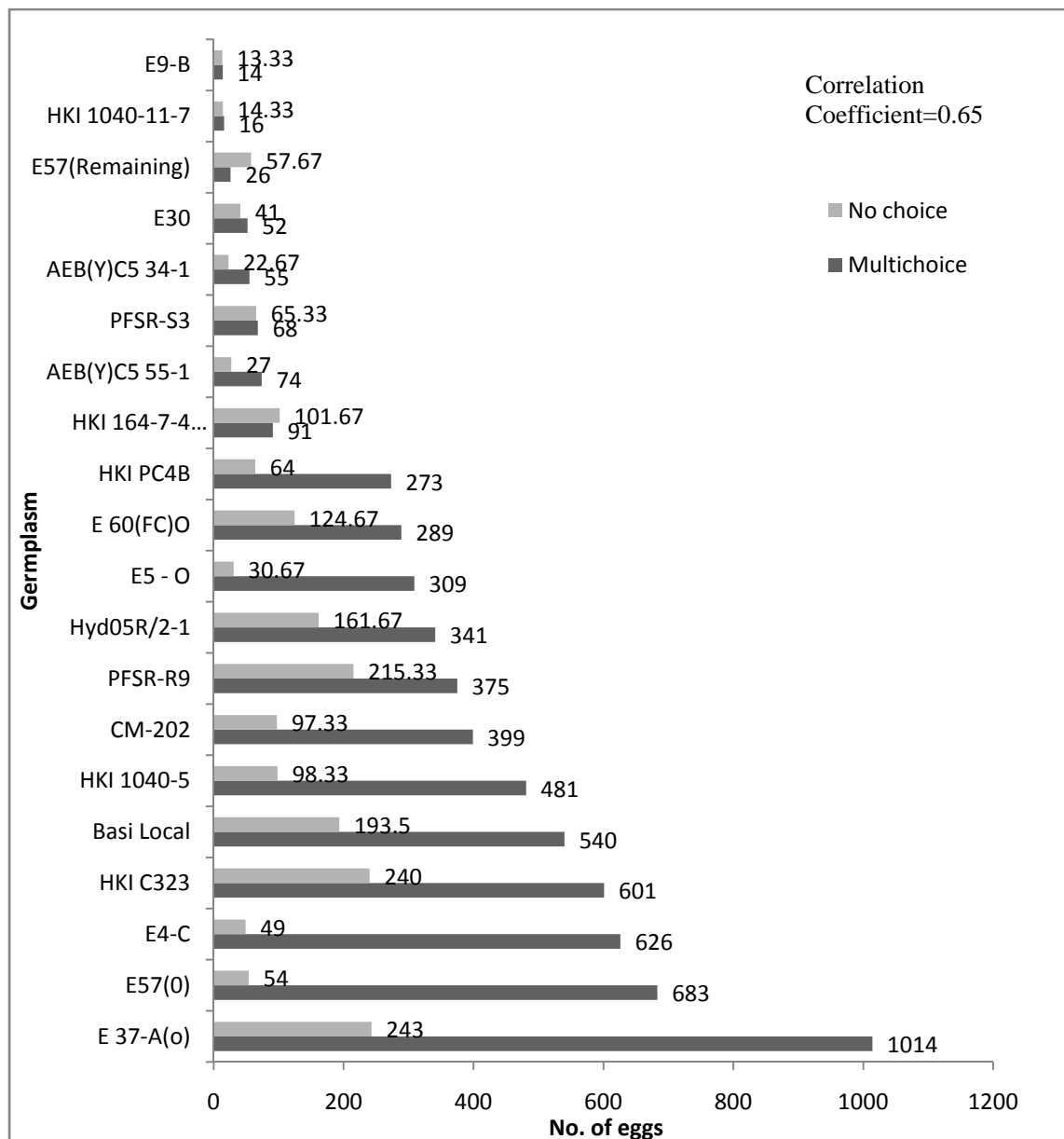
**E27**

Replication	Plant No.	No. of eggs /plant	Total No. of egg masses
	2	26	1
	3	52	1
	4	23	1
	5	76	1
<b>Total</b>		<b>315</b>	<b>6</b>
R7	1	70	1
	2	9	1
	3	23	1
	4	88	2
	5	164	3
	6	12	1
<b>Total</b>		<b>366</b>	<b>9</b>
R8	1	53	1
	2	83	3
	3	13	1
	4	146	2
	5	83	1
	6	9	1
<b>Total</b>		<b>377</b>	<b>9</b>
R9	1	20	2
	2	90	2
	3	23	2
	4	47	2
	5	5	1
	6	36	2
<b>Total</b>		<b>223</b>	<b>11</b>
R10	1	29	3
	2	24	3
	3	9	1

Replication	Plant No.	No. of eggs /plant	Total No. of egg masses
	4	46	2
	5	83	4
	6	37	3
Total		218	16

The females lay eggs on 4-6 plants when they are available *at libitum*.

**Figure 2: Evaluation of 20 germplasm by ovipositional preference displayed by *Sesamia inferens* in multi-choice and no-choice test**





## Development of formula for estimation of crop loss assessment

An experiment was conducted to assess the crop losses based on LIR in sampled plant population. The yield of healthy plants was treated as 100%. It was observed that there was significant yield reduction with increase of LIR. Based on yield loss at each LIR in relation to the yield of healthy plant, the crop loss can be assessed by the formula given as under:

$$Yield\ loss(\%) = \left[ \left\{ \frac{(\sum x_i * f_i)}{\sum f_i} \right\} 100 / Y \right]$$

Where

$f_i$  = frequency of plants with LIR (1-9)

$x_i$  = crop loss at LIR (1-9)

Y=yield at LIR1

Table 20: Example of calculating crop loss-HQPM1

LIR	YIELD	LOSS( $x_i$ )	FREQ. ( $f_i$ )	T. LOSS( $x_i * f_i$ )
1	131.22	0	135	0
2	116.78	14.44	0	0
3	96.67	34.55	2	69.1
4	74.63	56.59	1	56.59
5	66.99	64.23	5	321.15
6	31.69	99.53	4	398.12
7	28.91	102.31	1	102.31
8	13.43	117.79	0	0
9	6.68	124.54	3	373.62
SAMPLE SIZE			151	1320.89
Loss/pl=Total loss/Sample size				8.747616
Loss (%)=(Loss/pl/Yield of LIR 1)*100				7

Table 21: Validation of crop loss assessment in HQPM 1

S. No.	Yield loss (%)	
	Actual yield loss	Expected yield loss
1	2.53	2.37
2	4.99	0.85
3	9.69	3.52
4	1.94	0.71
5	8.51	4.48
6	17.41	6.22
7	14.08	28.21
8	12.53	7.93

**E30**

S. No.	Yield loss (%)	
	Actual yield loss	Expected yield loss
9	23.82	22.87
10	17.46	3.89
11	16.17	18.83
12	6.38	3.50
13	23.98	19.54
14	20.69	14.26
15	17.32	15.83
16	31.47	24.71
17	23.42	14.31
18	18.29	14.33
19	10.41	10.16
20	11.45	9.87
21	13.74	10.99
22	2.66	3.98
23	7.64	6.06
24	29.56	23.27
25	3.89	1.68
26	0.00	0.00
27	16.94	10.01
28	11.12	8.13
29	23.66	22.03
30	16.80	15.14
Avg. crop loss	13.95	10.92
Error(%)		21.71

# BIOCHEMISTRY



S. No.	Contents	Page No.
1.	Evaluation of maize germplasm received from Hill Agricultural Research and Extension Center, Bajaura, HPKV	BC2
2.	Evaluation of maize germplasm received from HPKV, Palampur	BC4
3.	Evaluation of maize samples received from Punjab Agricultural University (Ludhiana)	BC5
4	Evaluation of maize genotypes received from Anand Agricultural University Godhra	BC7
5.	Evaluation of maize germplasm received under All India Coordinated QPM breeding project	BC7



## BC1

Maize is a major cereal crop for both livestock feed and human nutrition, worldwide. It provides sufficient quantities of 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. Starch is defined as the polymeric carbohydrate consisting of glucose unit joined together through  $\alpha$ -D (1- 4) glucoside bonds. 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. The composition of maize starch is genetically controlled. 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. The discovery of the association of *opaque-2* gene with improved protein quality of maize endosperm led to the development of quality protein maize (QPM). Therefore, in the QPM development programme, the analysis of maize endosperm for protein quality is of paramount importance. The oil content of the 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. High-oil maize has a greater feed efficiency than normal maize due to its higher caloric content. Moreover, corn oil is nutritionally superior to other edible oils because of its better fatty acid composition. It also contains natural anti-oxidants 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, cryptoxanthene which have highly diverse health benefits.

The Biochemistry laboratory of Directorate of Maize Research facilitates the biochemical analysis of maize germplasm received from various maize centres of the coordinating unit and State Agricultural Universities. 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 2012, samples received from different centres were analyzed for various quality parameters viz. protein, tryptophan, lysine, oil, sugar, starch, carotenoids,  $\beta$ -carotene etc. A total of 350 samples were analyzed

for protein and tryptophan each, 310 for lysine, 327 for test weight and specific gravity and 5 samples for starch, oil, total carotenoids and  $\beta$  carotene each.

### 1. Evaluation of maize germplasm received from Bajaura center (HP)

A total of 81 inbred lines received from Hill Agricultural Research and Extension Center, Bajaura, HPKV were analyzed for protein quality viz: protein (PRO), tryptophan (TRY) and Lysine (LYS), 100 kernel weight (K. WT.) and specific gravity (S.G.) (Table 1.1). 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 6.64 to 13.34 per cent with lowest and highest values being exhibited by the genotypes CML-168 and NP 06-07R-76-9, respectively. The range of tryptophan was 0.29 (NP 06-07R-76-9) to 0.85 (1117-5) per cent, and lysine was 1.24 (NP 06-07R-76-9) to 3.51 (1117-5) per cent of endosperm protein.

**Table 1.1: Protein quality of maize germplasm received from Bajaura centre**

S. NO.	PEDIGREE	PROTEIN (%)	TRY (%)	LYS (%)	100 K. WT.	S.G.
<b>ADVANCED LINES DEVELOPED FROM THE CROSS (SEL (BAJIM 08-26 X CML169))</b>						
1.	SEL (BAJIM 08-26 X CML169) 1	8.52	0.65	2.68	26.1	1.13
2.	SEL (BAJIM 08-26 X CML 169) 2	7.42	0.62	2.56	23.6	1.12
3.	SEL (BAJIM 08-26 X CML 169) 3	9.83	0.63	2.59	26.5	1.15
4.	SEL (BAJIM 08-26 X CML169) 4	9.15	0.66	2.74	28.6	1.19
5.	SEL (BAJIM 08-26 X CML169) 5	8.22	0.64	2.67	27.8	1.16
6.	SEL (BAJIM 08-26 X CML169) 6	8.67	0.62	2.55	23.2	1.16
7.	SEL (BAJIM 08-26 X CML169) 7	9.29	0.65	2.70	24.0	1.14
8.	SEL (BAJIM 08-26 X CML169) 8	9.64	0.65	2.69	24.8	1.13
9.	SEL (BAJIM 08-26 X CML169) 9	8.12	0.63	2.61	21.8	1.09
10.	SEL (BAJIM 08-26 X CML169) 10	6.91	0.66	2.75	18.3	1.14
<b>ADVANCED LINES DEVELOPED FROM THE CROSS (SEL (BAJIM 08-27 X CML193))</b>						
11.	SEL (BAJIM 08-27 X CML193) 1	8.03	0.42	1.72	26.2	1.19
12.	SEL (BAJIM 08-27 X CML193) 2	8.98	0.37	1.54	34.62	1.24
13.	SEL (BAJIM 08-27 X CML193) 3	8.68	0.39	1.64	25.4	1.15
14.	SEL (BAJIM 08-27 X CML193) 4	7.52	0.36	1.54	25.35	1.15
15.	SEL (BAJIM 08-27 X CML193) 5	7.04	0.44	1.84	17.1	1.14
16.	SEL (BAJIM 08-27 X CML193) 6	6.92	0.46	1.92	28.4	1.18
17.	SEL (BAJIM 08-27 X CML193) 7	10.26	0.39	1.65	28.53	1.19
18.	SEL (BAJIM 08-27 X CML193) 8	11.82	0.36	1.54	28.43	1.18
19.	SEL (BAJIM 08-27 X CML193) 9	9.44	0.42	1.77	35.11	1.26
20.	VQL-1	7.02	0.39	1.64	33.71	1.16
21.	VQL-2	9.20	0.43	1.81	20.65	1.15
22.	VQL-5	8.36	0.32	1.32	18.75	1.17
23.	VQL-16	9.72	0.35	1.48	24.57	1.17
24.	VQL-17	9.12	0.34	1.44	26.38	1.26
25.	VQL-30	7.01	0.39	1.65	23.2	1.16
26.	HKI-193-1-I	7.03	0.68	2.84	14.65	1.17
27.	CML-162	8.83	0.58	2.42	18.11	1.21
28.	CML-164	6.95	0.51	2.12	20.02	1.18
29.	CML-168	6.64	0.68	2.82	19.33	1.21
30.	CML-169	9.97	0.37	1.54	--	--



**BC3**

<b>S. NO.</b>	<b>PEDIGREE</b>	<b>PROTEIN (%)</b>	<b>TRY (%)</b>	<b>LYS (%)</b>	<b>100 K. WT.</b>	<b>S.G.</b>
31.	CML-193	11.64	0.39	1.66	22.89	1.14
32.	CML-173	7.13	0.63	2.62	19.6	1.15
33.	LQPM-10	10.91	0.60	2.50	14.46	1.16
34.	LQPM-20 R1	7.22	0.61	2.52	14.84	1.14
35.	LQPM-20 R2	7.86	0.65	2.71	18.3	1.22
36.	LQPM-40	10.36	0.60	2.50	14.0	1.67
37.	LQPM-30	8.22	0.66	2.73	22.4	1.12
38.	QPM-30	7.09	0.64	2.66	13.70	1.14
39.	QPM-34	6.88	0.62	2.56	16.9	1.13
40.	QPM-23	7.62	0.61	2.52	14.1	1.08
41.	QPM-31	10.29	0.60	2.50	15.6	1.11
42.	LQPM7	11.31	0.61	2.53	18.1	1.21
43.	LQPM-29	9.39	0.83	3.44	16.2	1.08
44.	QPM-34-1	8.50	0.64	2.66	15.3	1.18
45.	4096-61-042	9.78	0.78	3.22	15.6	1.11
46.	LQPM-41 I	7.12	0.62	2.56	15.2	1.16
47.	LQPM-41 II	7.22	0.64	2.66	16.0	1.13
48.	LQPM-13	7.84	0.77	3.19	13.7	1.05
49.	LQPM-35	12.09	0.63	2.60	21.0	1.17
50.	LQPM-15	12.38	0.60	2.50	21.9	1.10
51.	LQPM-9	7.60	0.65	2.68	15.2	1.17
52.	LQPM-14	10.08	0.60	2.50	15.9	1.22
53.	LQPM-24	8.69	0.62	2.56	14.1	1.08
54.	LQPM-31	10.33	0.64	2.66	16.1	1.15
55.	LQPM-33	10.34	0.67	2.80	30.7	1.14
56.	LQPM-25	10.84	0.63	2.60	18.1	1.13
57.	4033-1	7.87	0.66	2.73	16.5	1.18
58.	4033-4-05-1	8.40	0.64	2.66	15.3	1.09
59.	4186-4-03-1	8.02	0.48	1.98	17.9	1.19
60.	4055-04-1-05-1	11.83	0.42	1.72	19.1	1.06
61.	4186-4-03-1	8.17	0.46	1.92	18.1	1.21
62.	NP 06-07R-80-16	7.07	0.48	2.02	17.5	1.17
63.	NP 06-07R-76-9	13.34	0.29	1.24	22.0	1.16
64.	NP 06-07R-76-5	10.01	0.38	1.58	18.8	1.18
65.	NP 06-07R-80-6	7.04	0.77	3.18	16.3	1.16
66.	NP 06-07R-80-15	8.23	0.38	1.60	21.6	1.20
67.	NP 06-07R-76-8	7.51	0.66	2.75	10.9	1.09
68.	NP 06-07R-76-9	8.15	0.43	1.76	12.9	1.08
69.	NP 06-07R-89-9	8.28	0.43	1.79	16.5	1.18
70.	6478-21-3-1	9.01	0.47	1.99	19.1	1.12
71.	1588-4	8.46	0.49	2.04	19.0	1.9
72.	1135-4	8.66	0.52	2.16	18.5	1.23
73.	1331-4	7.30	0.60	2.52	20.2	1.26
74.	DMR-QPM-58	11.88	0.40	1.67	17.1	1.22
75.	1151-5	7.37	0.54	2.26	27.1	1.13
76.	1114-5	7.59	0.61	2.52	19.9	1.17
77.	1117-5	9.09	0.85	3.51	18.0	1.2
78.	1126-5	8.36	0.65	2.68	19.6	1.09
79.	1118-5	7.06	0.78	3.22	17.9	1.19
80.	6478-25	9.55	0.32	1.37	22.5	1.13
81.	6478-21-6	7.85	0.40	1.69	19.4	1.14

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 many as 18 lines were found to be promising for QPM breeding. The genotype having highest protein content, however, showed lowest concentrations of tryptophan as well as lysine. Most promising lines for quality parameters are given in Table 1.1.1.

**Table 1.1.1: Most Promising lines for protein quality**

S. NO.	PEDIGREE	PROTEIN (%)	TRY (%)	LYS (%)
1.	SEL (BAJIM 08-26 X CML 169) 3	9.83	0.63	2.59
2.	SEL (BAJIM 08-26 X CML169) 4	9.15	0.66	2.74
3.	SEL (BAJIM 08-26 X CML169) 7	9.29	0.65	2.70
4.	SEL (BAJIM 08-26 X CML169) 8	9.64	0.65	2.69
5.	LQPM-29	9.39	0.83	3.44
6.	LQPM-10	10.91	0.60	2.50
7.	LQPM-40	10.36	0.60	2.50
8.	QPM-31	10.29	0.60	2.50
9.	LQPM7	11.31	0.61	2.53
10.	4096-61-042	9.78	0.78	3.22
11.	LQPM-35	12.09	0.63	2.60
12.	LQPM-15	12.38	0.60	2.50
13.	LQPM-14	10.08	0.60	2.50
14.	LQPM-31	10.33	0.64	2.66
15.	LQPM-15	9.67	0.63	2.61
16.	LQPM-33	10.34	0.67	2.80
17.	LQPM-25	10.84	0.63	2.60
18.	1117-5	9.09	0.85	3.51

## 2. Evaluation of maize germplasm received from Palampur

A total of 40 inbred lines received from HPKV, Palampur were analyzed for protein quality viz: protein (PRO), tryptophan (TRY) and Lysine (LYS), 100 kernel weight (K. WT.) and specific gravity (S.G.) (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 analyzed for protein quality. The range of protein was 6.01 to 12.33 per cent with lowest and highest values being exhibited by the genotypes CML 162 and CML 192, respectively. The range of tryptophan was 0.34 (CML 192 and BAJIM-11-1) to 0.62 (VQL 1 and CM 145) per cent of endosperm protein. Two lines were found to be having more than 9 per cent protein along with more than 0.6 per cent tryptophan in the endosperm protein. Most promising lines for quality parameters are given in Table 2.1.1.

**Table 2.1: Protein quality of maize germplasm received from Palampur**

S. NO.	PEDIGREE	PROTEIN (%)	TRY (%)	100 K. WT.	S.G
1.	VQL 1	7.05	0.62	14.3	1.02
2.	VQK 2	7.56	0.35	19.2	1.07
3.	CML 162	6.01	0.57	15.85	1.27
4.	CML 163	10.74	0.50	18.90	1.18
5.	CML 169	9.13	0.40	22.00	1.29
6.	CML 170	8.36	0.39	18.30	1.30
7.	CML 171	7.77	0.37	28.50	1.19
8.	CML 180	8.35	0.36	25.90	1.18

**BC5**

S. NO.	PEDIGREE	PROTEIN (%)	TRY (%)	100 K. WT.	S.G
9.	CML 189	8.25	0.36	33.70	1.20
10.	CML 192	12.33	0.34	37.10	1.20
11.	CML 193	7.52	0.56	20.40	1.13
12.	CML 1348	9.87	0.35	13.70	1.14
13.	CML 451	9.38	0.46	18.20	1.30
14.	CL 02 45	10.57	0.39	24.80	1.24
15.	CM 126	9.38	0.37	17.80	1.27
16.	CM 127	10.78	0.60	22.70	1.14
17.	CM 128	10.34	0.36	21.50	1.08
18.	CM 129	9.54	0.51	19.10	1.19
19.	CM 145	8.43	0.62	19.40	1.21
20.	CM 152	10.81	0.38	28.90	1.20
21.	CM 212	7.89	0.50	17.20	1.15
22.	CL 0 2450	10.22	0.61	27.00	1.17
23.	CML 429	9.31	0.44	25.60	1.16
24.	CML 451	7.74	0.39	22.10	1.38
25.	CML 470	8.04	0.46	23.90	1.08
26.	CML 472	9.83	0.44	24.90	1.13
27.	CML 473	8.90	0.38	26.80	1.22
28.	CML 474	9.88	0.45	29.10	1.21
29.	CML 481	11.64	0.36	21.50	1.19
30.	CML 496	10.49	0.41	18.50	1.16
31.	BAJIM-08-26	10.23	0.38	24.00	1.14
32.	BAJIM -08-27	8.66	0.36	26.60	1.16
33.	BAJIM-11-1	9.32	0.34	16.80	1.12
34.	BAJIM -11-2	8.84	0.42	14.70	1.05
35.	BAJIM -11-3	10.34	0.37	22.30	1.06
36.	BAJIM-11-4	11.64	0.38	16.90	1.13
37.	KI -16	7.32	0.40	18.40	1.15
38.	KI-18	9.34	0.51	18.40	1.15
39.	KI-29	12.07	0.41	21.20	1.12
40.	KI-30	9.97	0.42	29.20	1.22

**Table 2.1.1: Most Promising lines for protein quality**

S. NO	PEDIGREE	PROTEIN (%)	TRY (%)
1.	CM 127	10.78	0.60
2.	CL 0 2450	10.22	0.61

**3. Evaluation of maize samples received from PAU (LUDHIANA)**

A total of 53 selfed inbreds (BC2F4 seed) received from Punjab Agricultural University, Ludhiana were analyzed for protein quality viz: protein (PRO), tryptophan (TRY) and Lysine (LYS), 100 kernel weight (K. WT.) and specific gravity (S.G.) (Table 3.1). The kernels were screened and the representative sample was processed for protein quality analysis. The range of protein was 8.46 to 12.75 per cent with lowest and highest values being exhibited by the genotypes LM13/CML165//2\*LM13-1130 and LM12/DMR7//2\*LM12-1079, respectively. The range of tryptophan was 0.33 (LM12/DMR7//2\*LM12-1176 and LM12/DMR7//2\*LM12-1146) to 0.66 (LM13/CML165//2\*LM13-1130) per cent, whereas the range of lysine was 1.34 (LM12/DMR7//2\*LM12-1146) to 2.67 (LM13/CML165//2\*LM13-1130) per cent in the endosperm protein. Only one line

(LM13/CML165//2\*LM13-1087) was found to be having more than 9 per cent protein along with more than 0.6 per cent tryptophan and 2.50 per cent lysine in the endosperm protein.

**Table 3.1: Protein quality of maize germplasm received from PAU, Ludhiana**

S. NO	PEDIGREE	PROTEIN (%)	TRY (%)	LYS (%)	100 K. WT.	S.G.
1.	LM12/DMR7//2*LM12 - 1157	10.40	0.35	1.44	20.8	1.22
2.	LM12/DMR7//2*LM12 -1110	10.38	0.42	1.71	25.1	1.14
3.	LM12/DMR7//2*LM12 -1156	10.52	0.44	1.77	19.0	1.19
4.	LM12/DMR7//2*LM12 -1079	12.75	0.36	1.46	27.2	1.24
5.	LM12/DMR7//2*LM12 -1131	9.87	0.44	1.79	29.3	1.22
6.	LM12/DMR7//2*LM12 -1134	10.57	0.40	1.62	26.3	1.20
7.	LM12/DMR7//2*LM12 -1127	10.28	0.34	1.37	25.1	1.14
8.	LM12/DMR7//2*LM12 -1155	9.85	0.49	2.02	18.2	1.14
9.	LM12/DMR7//2*LM12 -1074	11.96	0.34	1.38	24.4	1.22
10.	LM12/DMR7//2*LM12 -1138	10.87	0.37	1.52	21.6	1.27
11.	LM12/DMR7//2*LM12 -1139	11.61	0.35	1.45	24.9	1.31
12.	LM12/DMR7//2*LM12 -1120	11.45	0.41	1.69	26.5	1.26
13.	LM12/DMR7//2*LM12 -1147	9.83	0.48	2.01	22.9	1.21
14.	LM12/DMR7//2*LM12 -1143	10.07	0.38	1.61	21.8	1.21
15.	LM12/DMR7//2*LM12 -1142	9.45	0.55	2.18	19.3	1.21
16.	LM12/DMR7//2*LM12 -1136	10.63	0.37	1.50	28.5	1.19
17.	LM12/DMR7//2*LM12 -1119	11.16	0.45	1.91	26.5	1.20
18.	LM12/DMR7//2*LM12 -1131	10.94	0.41	1.68	29.7	1.24
19.	LM12/DMR7//2*LM12 -1178	12.50	0.39	1.62	24.1	1.21
20.	LM12/DMR7//2*LM12 -1129	10.59	0.37	1.54	31.3	1.20
21.	LM12/DMR7//2*LM12 -1135	11.98	0.34	1.39	26.1	1.19
22.	LM12/DMR7//2*LM12 -1176	10.76	0.33	1.40	26.9	1.22
23.	LM12/DMR7//2*LM12 -1177	11.63	0.34	1.43	28.3	1.23
24.	LM12/DMR7//2*LM12 -1071	11.09	0.35	1.49	26.1	1.24
25.	LM12/DMR7//2*LM12 -1072	11.25	0.43	1.82	27.2	1.13
26.	LM12/DMR7//2*LM12 -1114	10.10	0.52	2.16	18.8	1.18
27.	LM12/DMR7//2*LM12 -1111	9.55	0.46	1.94	21.2	1.25
28.	LM12/DMR7//2*LM12 -1146	10.95	0.33	1.34	20.7	0.74
29.	LM12	10.27	0.46	1.90	20.2	1.26
30.	LM13	10.76	0.49	2.04	24.1	1.21
31.	LM13/CML165//2*LM13-1127	10.11	0.60	2.45	27.0	1.29
32.	LM13/CML165//2*LM13 -1134	10.46	0.37	1.55	27.7	1.39
33.	LM13/CML165//2*LM13-1138	11.29	0.42	1.69	22.2	1.39
34.	LM13/CML165//2*LM13-1130	8.46	0.66	2.67	27.3	1.19
35.	LM13/CML165//2*LM13-1073	9.60	0.52	2.14	21.2	1.18
36.	LM13/CML165//2*LM13-1123	12.40	0.36	1.45	20.4	1.13
37.	LM13/CML165//2*LM13-1141	9.60	0.45	1.88	15.8	1.13
38.	LM13/CML165//2*LM13-1125	10.05	0.38	1.55	21.4	1.26
39.	LM13/CML165//2*LM13-1154	11.56	0.47	1.96	22.6	1.19
40.	LM13/CML165//2*LM13-1126	12.05	0.34	1.41	20.8	1.22
41.	LM13/CML165//2*LM13-1153	11.18	0.51	2.09	15.2	1.17
42.	LM13/CML165//2*LM13-1150	10.86	0.43	1.82	18.0	1.20

## BC7

S. NO	PEDIGREE	PROTEIN (%)	TRY (%)	LYS (%)	100 K. WT.	S.G.
43.	LM13/CML165//2*LM13-1149	11.86	0.57	2.35	21.5	1.19
44.	LM13/CML165//2*LM13-1086	10.43	0.58	2.42	19.2	1.28
45.	LM13/CML165//2*LM13-1087	11.31	0.64	2.66	16.5	1.18
46.	LM13/CML165//2*LM13-1098	11.53	0.52	2.15	17.0	1.13
47.	LM13/CML165//2*LM13-1099	11.85	0.41	1.67	30.0	1.25
48.	LM13/CML165//2*LM13-1100	10.83	0.54	2.22	22.5	1.18
49.	LM13/CML165//2*LM13-1102	12.12	0.40	1.65	27.0	1.17
50.	LM13/CML165//2*LM13-1103	11.26	0.53	2.16	26.3	1.20
51.	LM13/CML165//2*LM13-1104	11.75	0.41	1.65	28.5	1.19
52.	LM13/CML165//2*LM13-1108	11.79	0.44	1.81	23.0	1.15
53.	LM13/CML165//2*LM13-1109	11.35	0.34	1.41	24.4	1.11

#### 4. Evaluation of maize genotypes received from AAU Godhra

A total of five genotypes received from this centre were analyzed for nutritional composition (oil, starch, total carotenoids (TC) and beta carotene) along with protein quality viz: protein (PRO), tryptophan (TRY) and Lysine (LYS), 100 kernel weight (K. WT.) and specific gravity (S.G.) (Table 4.1). No promising material was observed in terms of quality protein, high oil or high starch maize. However, the genotype Dekalb Prabal showed high concentrations of total carotenoids.

**Table 4.1: Biochemical characterization of maize genotypes received from AAU, Godhra**

S. No.	PEDIGREE	PROTEIN (%)	TRY (%)	LYS (%)	OIL (%)	STARCH (%)	T C (µg/g)	β-carotene (µg/g)
1.	DEKALB PRABAL (KHARIF-2011)	9.81	0.45	1.90	3.87	73.81	41.36	3.32
2.	GWQPM-5	12.27	0.32	1.30	3.83	70.08	1.60	0.46
3.	GWQPM-6	13.57	0.37	1.54	3.25	73.93	2.00	0.42
4.	GWQPM-40	13.64	0.34	1.39	3.88	69.89	1.40	0.39
5.	GHOM-13	10.85	0.31	1.28	3.35	71.30	0.92	0.35

#### 5. Evaluation of maize germplasm 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), 100 kernel weight (K. WT.) and specific gravity (S.G.). In this programme samples were received from Mandya, New Delhi and Hyderabad and analyzed for protein quality (Table 5.1). 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. Variability for protein quality has been observed amongst different centres, particularly in samples received from Mandya. The variability may be the result of human errors in the form of out crossing during selfing or the mechanical mixture.

**Table 5.1: Protein quality of maize germplasm received under coordinated QPM breeding programme**

New Delhi						
S. No.	Genotype	PROTEIN (%)	TRY (%)	LYS (%)	100 KW	S.G
1	UQMH-4	8.70	0.50	2.10	19.25	1.20
2	UQMH-5	7.84	0.53	2.19	21.29	1.11
3	HQPM-1 (Filler)	7.67	0.60	2.51	16.84	1.06
4	HQPM-1 (Filler)	8.26	0.67	2.76	27.19	1.14
5	VEHQ-3020	7.81	0.75	3.10	27.46	1.11
6	MHQPM-09-7	8.71	0.65	2.67	26.76	1.17
7	MHQPM-09-6	7.12	0.65	2.68	21.07	1.10
8	MHQPM-09-8	9.87	0.61	2.53	30.48	0.27
9	HQPM-1(Filler)	10.18	0.48	1.95	19.60	1.15
10	HQPM-1 (Filler)	8.82	0.60	2.50	20.58	1.23
11	EHQ-16	8.39	0.62	2.56	24.11	1.21
12	HQPM-7 ( Filler)	7.42	0.56	2.29	23.57	0.58
13	HQPM-5 (Filler)	9.03	0.59	2.45	21.77	1.14
14	HQPM-1 (C)	8.85	0.67	2.78	21.91	1.14
15	HQPM-5 (C)	7.70	0.65	2.70	21.53	1.24
16	HQPM-7 (C)	8.33	0.69	2.94	24.21	1.05
17	HQPM-4 (C)	7.69	0.68	2.82	26.09	1.24
MANDAYA						
S.No.	Genotype	PROTEIN (%)	TRY (%)	LYS (%)	100KW	S.G
1	UQMH-4	10.57	0.44	1.81	28.8	1.26
2	UQMH-5	9.08	0.46	1.92	24.0	1.20
3	HQPM-1 (Filler)	7.74	0.61	2.52	30.3	1.21
4	HQPM-1 (Filler)	9.14	0.56	2.30	30.9	1.25
5	VEHQ-3020	7.45	0.73	3.00	32.4	1.18
6	MHQPM-09-7	6.63	0.68	2.69	28.0	1.24
7	MHQPM-09-6	7.34	0.60	2.60	33.6	1.26
8	MHQPM-09-8	9.55	0.52	2.40	29.0	1.23
9	HQPM-1(Filler)	9.77	0.47	1.92	29.2	1.24
10	HQPM-1 (Filler)	9.01	0.61	2.53	22.3	1.22
11	EHQ-16	8.74	0.67	2.77	33.4	1.19
12	HQPM-7 ( Filler)	9.00	0.56	2.28	33.0	1.19
13	HQPM-5 (Filler)	9.77	0.49	2.04	37.6	1.20
14	HQPM-1 (C)	9.48	0.62	2.60	33.9	1.24
15	HQPM-5 (C)	10.83	0.61	2.62	39.2	1.26
16	HQPM-7 (C)	7.55	0.65	2.68	34.4	1.18
17	HQPM-4 (C)	8.04	0.61	2.58	31.9	1.17

**BC9**

<b>HYDERABAD</b>						
<b>S. No.</b>	<b>Genotype</b>	<b>PROTEIN (%)</b>	<b>TRY (%)</b>	<b>LYS (%)</b>	<b>100 KW</b>	<b>S.G</b>
1	UQMH-4	11.09	0.43	1.78	24.10	1.25
2	UQMH-5	7.86	0.59	2.46	21.60	1.22
3	HQPM-1 (Filler)	8.90	0.65	2.69	31.30	1.19
4	HQPM-1 (Filler)	8.54	0.59	2.47	30.13	1.17
5	VEHQ-3020	8.79	0.69	2.88	31.97	1.22
6	MHQPM-09-7	9.01	0.52	2.15	28.85	1.20
7	MHQPM-09-6	8.17	0.60	2.47	25.15	1.20
8	MHQPM-09-8	8.88	0.68	2.79	30.30	1.08
9	HQPM-1(Filler)	8.64	0.57	2.35	29.57	1.20
10	HQPM-1 (Filler)	9.03	0.64	2.65	28.43	1.15
11	EHQ-16	9.48	0.68	2.82	26.87	1.18
12	HQPM-7 ( Filler)	9.20	0.54	2.24	33.97	1.23
13	HQPM-5 (Filler)	11.53	0.49	2.05	17.40	1.24
14	HQPM-1 (C)	9.06	0.65	2.68	30.15	1.16
15	HQPM-5 (C)	8.80	0.69	2.84	26.07	1.16
16	HQPM-7 (C)	9.11	0.68	2.83	34.33	1.18
17	HQPM-4 (C)	6.75	0.65	2.70	27.83	1.18

# FRONTLINE DEMONSTRATIONS





The Directorate of Maize research (DMR) is implementing frontline demonstration (FLD) programme, which is funded by ministry of Agriculture, Government of India. In FLDs, notified/ recommended maize hybrids / varieties along with full package of practices and other technologies of maize are demonstrated at farmers' field in unit acre of land under close supervision of scientists for improving production and productivity of maize.

FLDs were conducted in 2433 acres of land during rabi 2011-12, 788 acres in spring 2012 and 4835 acres in kharif 2012. Around 8000 farmers were directly benefitted from the programme. These demonstrations were laid out in twenty-three states by forty-six centres/agencies/NGOs. Public sector maize hybrids/ varieties DHM 117, HM 5, PMH 1, JH 3459, Nithyashree, Hema, Rajarshi, Co H (M) 5, DMH 849, PEHM 2, PEEHM 5, Vivek 9, Vivek 21, Vivek 23, Vivek 33, Vivek 39, Vivek 45, HQPM 1, HQPM 5, Shaktiman 2, Shaktiman 3, Shaktiman 4, Vivek QPM 9, HM 4, Bajaura sweet corn and Bajaura pop corn were demonstrated. Besides hybrids/ varieties, seed production technology of single cross hybrid (Vivek QPM 9), production technology of normal maize, Quality Protein Maize, baby corn, sweet corn and pop corn were demonstrated at farmers' field. An average grain yield of 5638 kg/ha, 5100 kg/ha and 4603 kg/ha was obtained in FLDs during rabi 2011-12, spring 2012 and kharif 2012 respectively. Thus an average grain yield of 4959 kg/ha was obtained which showed an increase of 100.12 per cent over all India average yield of maize.

D2

Table 1: Summary of Frontline Demonstrations in Maize conducted by various centers of DMR and NGOs during Rabi 2011-12.

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (in acres)	Performance of FLDs during 2011-12 rabi (Kg/ha)	State average Yield (Kg/ha)	% increase over state average Yield
1	A.P.	Maize Research Centre, ARI, ANGRAU, Rajendra Nagar Hyderabad	RangaReddy, Prakasam, Guntur Vizianagaram,	DHM-117	35	7527	6502	15.76
		Maize Winter Nursery Rajendra Nagar Hyderabad	Chittoor	HQPM-1	2	Not Reported	6502	
2	Arunachal Pradesh	Zone III, KVK PAPUMPARE	Papum Pare	DHM 117, RCM 75, BA 61-A, Shaktiman 3	10	2570	1736	48.04
3	Bihar	Regional Maize Research & Production Centre Kushmahout Farm, Begusarai	Samastipur	HQPM-1	200	Not Reported	2404	
		Tirhut College of Agriculture, Dholi	Samastipur, Muzaffarpur, Patna, Purnea, Vaisali	Shaktiman-2	102	6299	2404	162.02
		Directorate of Maize Research, New Delhi	Banka	DHM-117	1	6000	2404	149.58
		CIMMYT INDIA	Samastipur	CML 169 (Parent of S-4), HKI 193-1 (Parent of HQPM-1), HKI 1105 (Parent of HM-4), HKI 1105 (Parent of HM-4), Vivek QPM 9	1.65(Inbrid) 43(Hybrid) 44.65	Inbreds (757) Hybrid (1081)		
		Vaishali Area Small Farmers Association (VASFA)	Muzaffarpur, Vaishali	Shaktiman-2	50.4	5499	2404	128.74
		Indian Maize Development Asssocation	Bettiah, Madhepura, Patna, Bhagalpur, Godda, Purnia, Khagaria, Muzaffarpur	Hi-Shell, 900 M Gold	100	6719	2404	179.49

D3

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (in acres)	Performance of FLDs during 2011-12 rabi (Kg/ha)	State average Yield (Kg/ha)	% increase over state average Yield
		Society for Promotion of Agricultural Research & Knowledge (SPARK)	Muzaffarpur	Shaktiman-2	52.75	4484	2404	86.52
4	Delhi	Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti	Delhi NCR	HM-4	18(BC)	1600		
5	Chhattisgarh	Zone VII of KVKs, Zonal Project Directorate	Bastar , Dantewada, Surguja, Kanker	8255, Hycell, Scorpio, 900 M, Hy-HQPM-1, Pro 4212, Hybrid	202	4926	3765	30.84
6	Gujarat	S.D.Agricultural University,Bhiloda ,Dist.:Sabarkantha	Sabarkantha	Hybrid	49	5052	1915	163.81
		Main Maize Research Station Anand Agri. University, Godhra	Panchmahals, Dahod, Vadodara	HQPM-I	100	3138	1915	63.86
		Indian Maize Development Association	Ahmedabad	NHM- 589 Suvarna, Patidhar-555	30	6438	1915	236.19
		Zone VI of KVKs, Zonal Project Directorate	Amreli, Vadodara, Panchmahal, Kheda, Dahod and Navsari	HQPM-1, HM-4, (PSP) Female-HKI 193-1 X Male-HKI-163	70.1(Grain) 5(Seed P.) 15.8(BC) 90.9	3790(Grain) 0466 (SP) 1042 (BC)	1915	97.91
7	Haryana	KVK Ambala, Zone I,	Ambala	HM-5	10	Crop failed because of low temperature during month of November	3765	
		Directorate of Maize Research, Pusa Campus New Delhi	Sonepat	DHM-117	1	6500	3765	72.64
		Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti	Sonepat	Sweet Corn, 54114&HM-4	52(BC) 7 (SC) 59	1843(BC) 130 (SC)		

D4

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (in acres)	Performance of FLDs during 2011-12 rabi (Kg/ha)	State average Yield (Kg/ha)	% increase over state average Yield
		Indian Maize Development Association	Haryana	HQPM-1, Hi-Shell	40	5671	3765	50.62
8	Maharashtra	Indian Maize Development Association	North Maharashtra	Pioneer 30V92	40	6887	2110	226.40
9	Manipur	Zone III, KVK, Bishnupur	Bishnupur	RCM-76	18	3837	2165	77.23
10	M.P.	Zonal Agri. Research Station RVSKVV, Jhabua	Jhabua	Bio 9637, Nath 2002, PAC 781, Pro Agro 4794, Dhania 7314	100	4487	3765	19.18
		JNKVV, Zonal Agri. Research Station Chhindwara	Singaroli	JM-216	22	4000	3765	6.24
		Zone VII of KVKs, Zonal Project Directorate	Burhanpur, Jhabua	Component , Nath-2002 PAC- 781, Bioseed-9637, Dhaniya-7314	100	5087	3765	35.11
11	Odisha	Department of Plant Breeding & Genetic, College of Agri. OUAT, Bhubaneswar	sonpur, Mauyrbhanj, Cuttack	HQPM- 1	200	5207	2496	108.61
12	Rajasthan	ARS Banswara (MPUAT-Udaipur) Rajasthan	Banswara	BIO-9681, HQPM-1, HQPM-5	60	6971	3434	102.99
13	Tamil Nadu	Maize Research Station, Tamil Nadu Agricultural University, Vagarai	Dindigul, Viruthunagar, Coimbatore, Tiruppur	COH (M) 5	29	6577	6649	-1.08
		Tamil Nadu Agricultural University Coimbatore	Salem, Coimbatore, Tiruppur, Karur, Dindigul, Thiruvannamalai, Vellore, Dharmapuri, Ariyalur, Erode, Villupuram, Namakkal, Perambalur, Trichy	TNAU Maize hybrid CO6	100	7971	6649	19.88

**D5**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (in acres)	Performance of FLDs during 2011-12 rabi (Kg/ha)	State average Yield (Kg/ha)	% increase over state average Yield
14	U.P.	Institute of Agri. Sciences, B.H.U., Varanasi	Deoria, Chandauli, Mirzapur, Varanasi, Sonbhadra, Bahraich	DHM-117, HQPM-1 4212, 4640, Bio Seed, MHM-2	52	5825	1810	221.82
		Udyaniki Krishi Anusandhan Samiti, Lucknow, U.P.	Lucknow, Hardoi, Raiberely, Faizabad, Deoria, Ballia, Banda	Pro. Agro 4640	50	7068	1810	290.50
		Gram Vikas Samiti Barabanki	Bahrich, Sravasti, Gonda	900M Gold, Cyrus, 30V92, Magnam	300	5800	1810	220.44
		U.P. Maize Development Association	L. Kheri, Hardoi, Shahjahanpur, Bahraich, Basti, Farrukhabad, Firozabad, Kannauj	900 M, Hi-Shell	100	5922	1810	227.18
		Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti	Aligarh, Baghpat, Etah, Hathras	HM-4	23(BC)	1678		
		Indian Maize Development Asssocation	Lucknow	HQPM-I	40	5942	1810	228.29
		Directorate of Maize Research, Pusa Campus New Delhi	Mathura	DHM-117	1	6600	1810	264.64
<b>Total</b>				Normal maize for grain	2055.25	5638	3765	49.75
				Baby Corn	108.8	1652		
				Sweet Corn	7	130		
				Inbred seed production	1.65	757		
				Hybrid seed production	48	1016		
				Yield not reported	202			
				Crop failed	10			
					2432.7			

D6

Table 2: Summary of Frontline Demonstrations in Maize conducted by various centers of DMR and NGOs during Spring 2012.

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Spring (Kg/ha)	State average Yield (Kharif) (Kg/ha)	% increase over state average Yield of Kharif 2012
1	Bihar	Indian Maize Development Association	Patna	DKC-9108, Hi-Shell	50	5061	2358	114.63
		Regional Maize Research & Production Centre Kushmahout Farm, Begusarai	Begusarai, Begusarai, Manger, Vaishali, Khagaria	HQPM-1, HM-4	29.75	5019	2358	112.85
2	Jharkhand	Birsa Agricultural University, Rannchi	Ranchi, Palamou	HQPM-1	50.3	3255	1473	120.98
3	Manipur	Zone III, KVK-Sylvan , Senapati	Senapati	HQPM-1	12.5	4100	1768	131.9
4	Meghalaya	Zone III, KVK, West Garo Hills, Meghalaya	West Garo Hills	Super 2020	18	3533	1529	131.07
5	Punjab	Maize Section, Deptt. Of Plant Breeding, Genetics & Biotech,PAU,Ludhiana	Kapurthala, Ludhiana, Amritsar, Hoshiarpur	PMH 1, JH 3459	21	6492	3984	62.95
		Zone I of KVKs, Zonal Project Directorate	Gurdaspur, Ropar, Kapurthala, Shaheed Bhagat Singh Nagar, Patiala, Ludhiana, Hoshiarpur	PMH-1, Hybrids viz. 31Y45, Sangeeta, DK 9108 (Monsanto Seeds) 31Y45 (Pioneer Seeds) 31Y45 Power ( Pioneer Seeds) NK6607 (Syngenta Seeds) Titan (Akash Seeds) VMH 4040 (Vibha Seeds) JK502 (JK Seeds)	159	6099	3984	53.09

**D7**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Spring (Kg/ha)	State average Yield (Kharif) (Kg/ha)	% increase over state average Yield of Kharif 2012
6	Haryana	CCHAU RRS Uchani, Karnal (Haryana)	Kurukshetra, Karnal, Panchkula	HQPM-1, HM- 5	18	5005	2667	87.66
		Zone I of KVKs, Zonal Project Directorate	Ambala	DKC-9108	20	5990	2667	124.60
		Indian Maize Development Asssocation	Haryana	DKC-9108, HQPM-1	100	4547	2667	70.49
7	U.P.	Crop Research Station, NDU&T, Bahraich	Bahraich	Bio Seed 9681	50	3850	1654	132.77
		Directorate of Maize Research, Pusa Campus New Delhi	Ghaziabad, Meerut, Bagpat	HM-4	59 (BC)	16.56 (BC)	1654	
		Gram Vikas Samiti Barabanki	Bahraich, Gonda	9108 Double, PMS306	100	5600	1654	238.57
		Indian Maize Development Asssocation	Lucknow	Pioneer 31Y45	50	5582	1654	237.48
		VARDAN	Nawanshahr	31Y45, HQPM-1, X47, Syngenta Hybrid	50	4652	1654	181.26
			<b>Total</b>	(Normal maize for grain)	<b>728.55</b>	<b>5100</b>	<b>2234</b>	<b>128.29</b>
				(Baby Corn)	59	1656		
					<b>787.55</b>			



D8

Table 3: Summary of Frontline Demonstrations in Maize conducted by various centers of DMR and NGOs during Kharif 2012.

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Kharif (kg/ha)	State average Yield (kg/ha)	% increase over state average Yield
1	Andhra Pradesh	Maize Winter Nursery Rajendra Nagar Hyderabad	Ranga Reddy, Medak	Hitech-5401, DHM -117	50	2990	2812	6.33
		KVK CRIDA, Rangareddy District	Rangareddy	CP-818, NMH-777, Kaveri - 50, CP-808, Super 900 M	100	3907	2812	38.94
		Maize Research Centre, ARI, ANGRAU, Rajendra Nagar Hyderabad	RangaReddy, Warangal, Mahaboobnagar, Nalgonda	DHM-117	30	5000	2812	77.81
2	Bihar	Tirhut College of Agriculture, Dholi	Samastipur, East Champaran	Shaktiman-4, RHM Deep Jwala	95	5488	2358	132.74
		Regional Maize Research & Production Centre Kushmahout Farm, Begusarai	Begusarai, Katihar, Kaimur, Patna, Vaishale, Samastipur, Jamui, Lakhi Sarai	DHM-117	158.5	3750	2358	59.03
		Indian Maize Development Assocation	Patna	All Rounder, Hi-Shell	50	5988	2358	153.94
		Vaishali Area Small Farmers Association (VASFA)	Vaishali, Muzaffarpur	Deepjawala	25	2477	2358	5.05
		Zone II of KVKs, Zonal Project Directorate	Kaimur	Sakriman-4, Kanchan, Pioneer, Gangakaveri, GK-3101, Swan	15	3132	2358	32.82
3	Chhattisgarh	RMD College of Agri. And Research Station, Ajirma Ambikapur	Surajpur, Balrampur	Hishell, HQPM-1	50	3805	1654	130.05

**D9**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Kharif (kg/ha)	State average Yield (kg/ha)	% increase over state average Yield
4	Delhi NCR	Directorate of Maize Research, Pusa Campus New Delhi	Delhi NCR	HQPM-1	2	6200	2075	177.53
5	Gujarat	Main Maize Research Station Anand Agri. University, Godhra	Panchmahal, Dahod, Vadodara	HQPM-1	100	2520	1393	80.90
		Maize Research Station, SDAU, Bhiloda, Dantewada	Sabarkantha	HQPM-1	50	2452	1393	53.14
		Indian Maize Development Association	Ahmedabad	Pinacle-6240, PHI-1864	50	6110	1393	338.62
		Zone VI of KVKs, Zonal Project Directorate	Banaskantha, Bharuch, Sabarkantha, Panchmahal, Dahod, Amreli, Vadodara, Kheda	(SCH) HQPM-1, **GM-4+ Guj Maize 2,	95.5 47 Failed (142.5)	3756	1393	169.63
6	Himachal Pradesh	CSKHPKV, HAREC, Bajaura	Kullu	HQPM 1, Girija Comp., Bajaura Sweet Corn, Bajaura Pop Corn	25.9 grain 5.8 SC 3.3 PC (35)	4171(grain) 2290(SC) 2420 (PC)	2432	71.50
		Shivalik Agri. Research and Extension Centre, Kangra	Kangra, Hamirpur, Bilaspur	Proagro 4640, HQPM 1	100	3683	2432	51.44
		CSKHPKV, Hill Agricultural Research & Extension Centre Dhaulakuan, Sirmour	Sirmour	KH 121, KH 9451 and KH 108 (Vyas)	32	3340	2432	37.34
		Zone I of KVKs, Zonal Project Directorate	Sirmour, Shimla	KH-9451, Kanchan-25	35.6	2951	2432	21.34
		Corn Specialty Farmers Forum Kala-Amb	Sirmour, Bilaspur	PHI-31Y45, PHI-1864, DK-9108	150	4137	2432	70.11

**D10**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Kharif (kg/ha)	State average Yield (kg/ha)	% increase over state average Yield
7	Haryana	Zone I of KVKs, Zonal Project Directorate	Ambala	Hyb. MRM-3777 of Mahco	10	2317	2667	-13.12
		Directorate of Maize Research, Pusa Campus New Delhi	Kathal, Palval, Faridabad	HQPM-1, HM-4	2 2.25 BC (4.25)	6350 1261	2667	138.10
		Indian Maize Development Association	Haryana	HQPM-1	50	4820	2667	80.73
		Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti	Sonepat	HM-4, 5414	100 (BC)	1110 dehusk	2667	
8	Jammu & Kashmir	SKUAST- Kashmir	Bandipora, Budgam, Pulwama, Anantnag, Kupwara, Srinagar	C 14, C15, C8, SMC 4, SMC 3, DKC 7074, KHB 52, SUGAR 75	290.18 54.98 SC (345.16)	4421 11515 (SC)	1608	174.94
		SKUAST- Jammu (J&K)			152.25	Not Reported	1608	
9	Jharkhand	Zone II of KVKs, Zonal Project Directorate	Gumla, Ranchi, Godda	HQPM-1, HM-4, DHM-117, Shaktiman -4	69.5	Not Reported	1473	
10	Karnataka	Indian Maize Development Association	Dharwar	Supreme-4644, DK-9108, Hi-Shell	50	6099	3022	101.82
		Zonal Agri. Research Station, V.C Farm, Mandya	Bangalore Rural, Chamarajanagara, Chickamagalur, Chikkabellapure & Kolar, Chitradurga, Davanagere, Hassan, Mandya, Mysore, Ramanagaram, Shimoga, Tumkur	Nithya shree (NAH-2049) and Hema (NAH-1137)	250	767	3022	153.81
11	Maharashtra	Maize Improvement Project, Kasaba Bawada, Kolhapur	Ahmednagar, Kolhapur, Parbhani, Solapur, Sangli, Buldhana, Gadchiroli	Rajarshi	269	4972	2890	72.04

**D11**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Kharif (kg/ha)	State average Yield (kg/ha)	% increase over state average Yield
		Indian Maize Development Association	Dhule	HQPM-1, DK-9108	50	4764	2890	64.84
12	Madhya Pradesh	JNKVV, Zonal Agri. Research Station Chhindwara	Chhindwara	Variety- JM-216	89	4079	1492	173.39
		Zonal Agri. Research Station RVSKVV, Jhabua	Jhabua	Nath 2002, Syngenta-Swarna, Pioneer 30 R 77	100	3050	1492	104.42
		Zone VII of KVKs, Zonal Project Directorate	Dindori, Shahdol, Jhabua, Badwani, Dhar, Ujjan	Composites, Hybride Maize 9637, MBP 501, Nath 2002, Pioneer-30877 Swarna, Sweet corn, PAC 781, Nath 2002, Hybrids, HQPM-1, HKI-163, HQPM-1, P-3502, NK-30, X-pert, NK-6240	300	3660	1492	145.31
13	Manipur	Zone III, KVK, Thoubal	Thoubal, Manipur	Hybrid PAC-740	7.5	2445	1768	38.29
14	Meghalaya	Zone III, KVK Ri Bhoi	Ri Bhoi	DHG-849	17.5	3441	1529	125.05
15	Nagaland	Zone III, KVK, Zunheboto	Zunheboto	HQPM-1 DMH-849	12.5	5250	1960	167.86
16	Odisha	Department of Plant Breeding & Genetic, College of Agri. OUAT, Bhubaneswar	Kalahandi, Anugul, Cuttack, Khordha	HQPM-1	160	5179	2046	153.13
17	Punjab	Zone I of KVKs, Zonal Project Directorate	Shaheed Bhagat Singh Nagar	PMH-1	9	4532	3984	13.76
		Maize Section, Deptt. Of Plant Breeding, Genetics & Biotech, PAU, Ludhiana	Hoshiarpur, Jalandhar, Ropar, Patiala, Gurdaspur, Kapurthala, Amritsar, Moga, Sangrur, Shaheed Bhagat Singh Nagar	PMH 1, JH 3459	85	4686	3984	17.62
18	Rajasthan	MPUA&T, RCA, Udaipur	Banswara, Rajsamand, Bhilwara, Sirohi, Udaipur, Chittorgarh, Paratapgarh	Bio-9681, PEHM 5	296	3440	1583	117.31

**D12**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Kharif (kg/ha)	State average Yield (kg/ha)	% increase over state average Yield
		Zone VI of KVKs, Zonal Project Directorate	Ajmer, Udaipur, Jaipur, Chittorgarh	HQPM-5, PEHM-2, HQPM-1, *Bio-9681: KU-300, Bio Super-9681	105	3694	1583	133.35
		Directorate of Maize Research, Pusa Campus New Delhi	Alwar	HQPM-1	1	6000	1583	279.03
		Indian Maize Development Asssocation	Banswara	HQPM-1	50	5825	1583	267.97
19	Tamil Nadu	Tamil Nadu Agricultural University Coimbatore	Tirpur, Perambalur, Erode, Vellore, Villupuram, Coimbatore, Trichi, Pudukkottai, Tanjore, Tiruvannamalai, Karur, Cuddalore, Namakkal, Salem, Dindugal,	TNAU Maize hybrid Co6	200	7945	5682	39.83
		Maize Research Station, Tamil Nadu Agricultural University, Vagarai	Perambalur, Viruthunagar, Dindigul	VMH 08013	52	7125	5682	25.40
20	Uttarakhand	Crop Improvement Division VPKAS, Almora	Bageshwar	Vikek QPM 9, Vikek Hyb. 9, Vivek Hyb. 21, 23, 33, 39, 45, Vivek Comp.35	25	3752	1464	156.28
		Department of Plant Pathology, College of Agri. G.B. Pant University of Agri. & Technology, Pantnagar	Nainital, Udham Singh Nagar, Haridwar, Dehradun	PEHM-2	46.75	1905	1464	30.12
21	U.P.	Institute of Agri. Sciences, B.H.U., Varanasi	Jaunpur, Varanasi, Mirzapur, Ghazipur, Sonbhadra, Badohi	MHM-2, DHM-117, DOUBLE, 7074, 4640, 4212	38	5211	1654	215.05
		Division of Ag. Extension IARI New Delhi	Aligarh, Buland Shaher, Hapur	Syngenta Nk 6240=66, Pineer 3501=10, Dikalab 7074=4	80	3721	1654	124.97

**D13**

S. No.	States	Name of the Agency	Districts	Varieties Used	Number of FLDs conducted (acres)	FLDs Performance during 2012 Kharif (kg/ha)	State average Yield (kg/ha)	% increase over state average Yield
		Directorate of Maize Research, Pusa Campus New Delhi	Bulandshar, Bagpat, Kushinagar	HQPM-1, HM-4	2 1 (BC) (3)	6100 1500 (BC)	1654	268.80
		Udyaniki Krishi Anusandhan Samiti, Lucknow, U.P.	Lucknow, Pratapgarh, Chartatisaujimarj Nagar, Azamgarh, Bahraich, Ballia, Barabanki, Deoria, Hardoi	Pro. Agro 4640	50	5458	1654	229.99
		Gram Vikas Samiti Barabanki	Bahraich, Barabanki, Sitapur	30R77, HYSEL	250	5500	1654	232.53
		U.P. Maize Development Association	Mahamaya Nagar, Agra, Hardoi, Shahjahnpur, L.Kheri	30R77, Hi Shell, All Rounder, PHI 3501	100	4158	1654	151.39
		VARDAN	Bulandshar	3501, 7074, Garima,Tysun, Syngenta Hybrid	50	4652	1654	181.26
		Indian Maize Development Association	Lucknow	31Y45, PHI-3501	50	5990	1654	262.15
22	West Bengal	Zone II of KVKS, Zonal Project Directorate	Bankura, Purulia, Paschim Medinipur	HQPM-1, DHM- 117, HM- 4, Golden Baby	37	Not Reported	2270	
			<b>Total</b>	(Normal maize for grain)	<b>4205.01</b>	<b>4603</b>	<b>2234</b>	<b>106.04</b>
				(Sweet Corn)	60.78	10634		
				(Pop Corn)	3.3	242		
				(Baby Corn)	103.25	1117		
				(Yield not reported)	258.75			
				(Crop failed)	47			
					<b>4835.01</b>			

# 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 from 2011-12. Eight hundred and ten demonstrations were conducted in Andhra Pradesh, Rajasthan, Gujarat, Madhya Pradesh, Maharashtra, Bihar, Chattisgarh, Sikkim, NEH regions, 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 public sector hybrids DHM 117, HQPM 1, HQPM 5, C8, HM 4 etc. The average productivity of maize in demonstrations was 6139.42 kg/ha during *rabi* 2011-12 and 4883.00 kg/ha during *kharif* 2012. The national average yield of maize is 3765 kg/ha and 2234 kg/ha during *rabi* 2011-12 and *kharif* 2012 respectively.

DMR organized five national level training programmes in New Delhi wherein around 230 tribal farmers from Assam, Sikkim, Jammu & Kashmir, Andhra Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Jharkhand, Maharashtra, Gujarat, Uttar Pradesh etc. participated. Besides this, DMR also organized ten regional level training programmes wherein 1699 tribal farmers from Assam, Meghalaya, Manipur, Nagaland, Sikkim, Madhya Pradesh, Chattisgarh, Andhra Pradesh, Rajasthan, Odisha, Jharkhand etc participated. AICRIP centres on maize conducted six regional training programmes in Jammu & Kashmir and Uttar Pradesh wherein around 599 tribal farmers participated. DMR organized five exhibitions to create awareness among tribal farmers through displaying technologies of maize. Six field days were organized by DMR in Haryana and Madhya Pradesh states. While SKUAST Kashmir organized two field days in Jammu and Kashmir. Apart from the above mentioned activities the inputs were distributed to the farmers for maize cultivation. Hybrid seed, maize shellers, weeders, sprayers, bullock drawn ploughs, seed storage bins and booklets on maize cultivation were distributed among 1169 tribal farmers by DMR and AICRIP centres on maize in different parts of country.

### Demonstrations conducted by Directorate of Maize Research

S. No	Collaborating agency	Kharif 2012			Rabi 2011-12		
		No. of demonstrations (acres)	Variety	Average yield (kg/ha)	No. of demonstrations (acres)	Variety	Average yield (kg/ha)
1	Winter Nursery, Hyderabad, Andhra Pradesh	37	HQPM 1	5110	10	DHM 117	9950
		52	DHM 117	6385	NIL		
		23	HM 4	5140			
		5	DHM 117	7775			
2	Vanvasi KVK, Bihar	12.74	HQPM 1	6075	NIL		
3	RMD College of Agriculture & Research Station, Ambikapur, Chattisgarh	31	DHM 117	4047.5	NIL		
4	KVK, AAU, Dahod, Gujarat	8	DHM 117	8325	NIL		
5	JNKVV, Chhindwara, Madhya Pradesh	25	HM 4	3775	10	DHM 117	3630
		75	DHM 117	4200	9	HQPM 5	4060
6	KVK, Jhabua, Madhya Pradesh	10	HQPM 1	2702.5	NIL		
7	Nasik, Maharashtra	63	DHM 117	6990	NIL		
8	ARS, Banswara, Rajasthan	62.5	HQPM 1	8855	13	HQPM-1	8037.5
				0	1	Bio 9681	7750
9	SDA, Sikkim	12	HM 4	937.5	NIL		
10	SDA, West Bengal	35	HQPM1	1785	NIL		
		9	HQPM 1	3650			
		Total = 462.24		Average yield = 5374.77 kg/ha	Total = 43		Average yield = 6618.08 kg/ha

### Demonstrations conducted by AICRIP centres on Maize

S. No	Agency	Kharif 2012			Rabi 2011-12		
		No. of demonstrations (acres)	Variety	Average yield (kg/ha)	No. of demonstrations (acres)	Variety	Average yield (kg/ha)
1	ARI, Rajendranagar, Andhra Pradesh	50	DHM 117	6257.5	10	DHM 117	7225
2	OUAT, Bhubaneswar, Odisha	NIL			20	0	4567.5
3	SKUAST, Srinagar, J&K	180	HQPM-1, HM-4, C8	3250	-		
4	Maize Research Centre, Udampur, J&K	3	HQPM-1	3850			
		1	DHM 117	5750			
5	BHU, Varanasi, Uttar Pradesh	13	Pioneer Hybrid Corn 9621	3975			
		18	Pro Agro 4212	5490			
		9.75	Double	4970	-		
	<b>Total</b>	<b>274.75</b>		<b>4055.05</b>			

## Other activities conducted by DMR

S. No	Collaborating agencies	National level Training programmes conducted		Regional level Training programmes conducted		Field days (FD) conducted		Exhibitions organized		Implements distributed				Booklets distributed
		No. of training	No. of participants	No. of training	No. of participants	No. of FD	No. of participants	No. of exhibitions	No. of participants	No. of maize shellers	No. of weeders	No. of sprayers	No. of storage bins	
1	DMR	5	229	NIL		5	229	5	229	NIL				Five booklets were provided to each tribal farmer in registration material in national level training programme
2	DMR and Bihar	NIL				NIL	NIL			50	NIL			
3	DMR and RMD & ARS, Ambikapur, Chhattisgarh	NIL				1	NIL			31	39	NIL		
4	DMR and JNKVV, Chhindwara, Madhya Pradesh	NIL		2	216	NIL			70	100	NIL			
5	DMR + NEH regions (Assam, Nagaland, Manipur, Meghalaya)	NIL		6	304	NIL						Folder on "Cultivation of maize" and booklet on single cross hybrid seed production		
6	ARS, Banswara, Rajasthan	NIL		2	950	NIL			50	100	260	NIL		
7	State Department of Agriculture, West Bengal	NIL				NIL			37		37	NIL		

**Other activities conducted by AICRIP Centres**

S. No	Implementing agency	Regional level training programmes conducted		Field days (FD) conducted		Implements distributed					
		No. of training	No. of participants	No. of FD	No. of participants	No. of maize shellers	No. of weeders	No. of sprayers	No. of storage bins	Hybrid seed	Bullock drawn ploughs
1	ANGRAU Andhra Pradesh	NIL				40	50	10	NIL		
1	SKUAST Udhampur, J&K	3	88	1		55	NIL		20	20	10
2	SKUAST Srinagar, J&K	1 (conference)	300	1		NIL			180	NIL	
2	BHU Varanasi, U.P.	2	211	NIL							

# APPENDICES



## Appendix-A

## Maize Area, Production and Yield

State/ UT	Season	Area('000 Hectares)			Production ('000 Tonnes)			Yield (Kg./Hectare)		
		2009-10	2010-11	2011-12*	2009-10	2010-11	2011-12*	2009-10	2010-11	2011-12*
Andhra Pradesh	Kharif	502.0	440.0	531.0	997.0	1641.0	1493.0	1986	3730	2812
	Rabi	281.0	304.0	333.0	1765.0	2315.0	2165.0	6281	7615	6502
	Total	783.0	744.0	864.0	2762.0	3956.0	3658.0	3527	5317	4234
Arunachal Pradesh	Kharif	37.5	39.3	40.5	51.1	54.9	58.1	1363	1397	1434
	Rabi	6.1	5.8	6.0	9.1	9.8	10.4	1485	1690	1736
	Total	43.6	45.1	46.5	60.2	64.7	68.5	1380	1435	1473
Assam	Kharif	19.5	19.8	21.3	14.1	14.3	15.3	726	722	719
Bihar	Autumn	227.0	231.3	263.9	402.4	417.8	622.4	1773	1806	2358
	Rabi	404.7	414.2	411.0	1076.3	1021.8	988.3	2660	2467	2404
	Total	631.7	645.5	675.0	1478.7	1439.6	1610.7	2341	2230	2386
Chattisgarh	Kharif	102.4	102.7	104.0	143.3	185.6	172.0	1399	1807	1654
Goa	Kharif	0.1	0.0		0.6	0.0		6000		
Gujarat	Kharif	411.0	423.0	387.0	396.0	692.0	539.0	964	1636	1393
	Rabi	86.0	78.0	129.0	137.0	128.3	247.0	1593	1645	1915
	Total	497.0	501.0	516.0	533.0	820.3	786.0	1072	1637	1523
Haryana	Kharif	12.0	10.0	9.0	27.0	19.0	24.0	2250	1900	2667
Himachal Pradesh	Kharif	295.4	296.4	294.2	543.2	670.9	715.4	1839	2263	2432
Jammu & Kashmir	Kharif	311.0	308.2	314.0	487.0	527.7	505.0	1566	1712	1608
Jharkhand	Autumn	148.4	207.2	207.4	163.2	244.8	305.6	1100	1181	1473
	Rabi	14.8	8.2	8.1	27.5	16.9	15.9	1858	2061	1970
	Total	163.2	215.4	215.5	190.7	261.7	321.5	1168	1215	1492
Karnataka	Kharif	1108.0	1141.0	1206.0	2676.0	4011.0	3644.0	2415	3515	3022
	Rabi	104.0	116.0	143.0	260.0	330.0	441.0	2500	2845	3084
	Summer	28.0	31.0		77.0	103.0		2750	3323	
	Total	1240.0	1288.0	1349.0	3013.0	4444.0	4085.0	2430	3450	3028
Kerala			0.1							
Madhya Pradesh	Kharif	832.3	830.6	862.8	1045.2	1051.5	1287.4	1256	1266	1492
Maharashtra	Kharif	673.0	731.0	736.0	1531.0	2209.0	2127.0	2275	3022	2890
	Rabi	121.0	160.0	145.0	297.0	393.0	306.0	2455	2456	2110
	Total	794.0	891.0	881.0	1828.0	2602.0	2433.0	2302	2920	2762
Manipur	Kharif	4.8	22.4	20.0	11.7	41.5	35.4	2436	1856	1768
	Rabi			4.9			10.5			2165
	Total			24.9			45.9			
Meghalaya	Kharif	17.2	17.3	17.4	26.3	25.9	26.5	1529	1499	1529
Mizoram	Kharif	8.3	8.7	6.7	11.1	13.1	8.1	1337	1502	1214
	Rabi	0.2	0.3	0.2	0.4	0.5	0.3	1667	1667	1238
	Total	8.5	9.0	6.9	11.5	13.6	8.4	1347	1508	1214



State/ UT	Season	Area('000 Hectares)			Production ( '000 Tonnes)			Yield (Kg./Hectare)		
		2009-10	2010-11	2011-12*	2009-10	2010-11	2011-12*	2009-10	2010-11	2011-12*
Nagaland	Kharif	68.1	68.4	68.5	73.2	134.0	134.3	1075	1958	1960
Orissa	Kharif	78.9	112.7	98.9	170.0	286.3	202.3	2155	2540	2046
	Rabi	2.3	4.5	4.0	5.1	12.5	9.9	2247	2778	2496
	Total	81.2	117.2	102.9	175.1	298.8	212.2	2157	2549	2063
Punjab	Kharif	139.0	133.0	126.0	475.0	491.0	502.0	3417	3692	3984
Rajasthan	Kharif	1096.2	1143.1	1039.1	1144.7	2052.9	1644.9	1044	1796	1583
	Rabi	0.7	0.0	6.5	1.0	0.0	22.2	1429		3434
	Total	1096.9	1143.1	1045.6	1145.7	2052.9	1667.0	1044	1796	1594
Sikkim	Kharif	39.5	40.2	40.0	66.0	66.2	66.2	1671	1648	1657
Tamil Nadu	Kharif	161.2	143.8	176.3	693.4	554.8	1001.7	4301	3858	5682
	Rabi	83.0	86.7	104.3	450.9	472.7	693.8	5431	5452	6649
	Total	244.2	230.5	280.6	1144.3	1027.5	1695.5	4685	4458	6042
Tripura	Kharif	2.0	3.1	3.7	2.0	4.1	5.1	1006	1322	1353
Uttar Pradesh	Kharif	704.0	748.0	745.0	1025.0	1098.0	1232.0	1456	1468	1654
	Rabi	5.0	6.0	42.0	14.0	16.0	76.0	2800	2667	1810
	Total	709.0	754.0	787.0	1039.0	1114.0	1308.0	1465	1477	1662
Uttarakhand	Kharif	28.0	28.3	28.0	38.0	42.5	41.0	1357	1503	1464
	Rabi		0.1			0.1			1000	
	Total	28.0	28.4	28.0	38.0	42.6	41.0	1357	1501	1464
West Bengal	Kharif	36.3	32.3	34.1	79.3	83.6	77.3	2183	2588	2270
	Rabi	23.6	17.2	63.8	132.5	84.4	286.8	5619	4904	4497
	Summer	37.8	39.1		173.4	184.4		4587	4716	
	Total	97.7	88.6	97.8	385.2	352.3	364.1	3942	3977	3722
A & N Islands	Kharif	0.2	0.2	0.2	0.4	0.4	0.3	2000	2476	2125
D & N Haveli	Kharif			0.1			0.1			1000
	Rabi			0.0			0.0			1000
	Total			0.2			0.2			
Delhi	Kharif	0.0	0.1	0.0	0.0	3.6	0.8	0	36000	20750
All India	Kharif	7063.4	7282.0	7381.2	12293.3	16637.4	16486.3	1740	2285	2234
	Rabi	1198.2	1271.1	1400.7	4426.2	5088.4	5273.1	3694	4003	3765
	Total	8261.6	8553.2	8781.9	16719.5	21725.8	21759.4	2024	2540	2478

\* Final estimate

## Appendix-B

### Meteorological Observations

Mean maximum and minimum temperature during 2012 at variour research centre of AICRP (Maize)													
Centre Name		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Bajaura	Max	14.1	16.1	22.7	25.5	30.9	34.1	31.7	29.0	29.6	27.0	23.0	-
	Min	1.3	3.7	5.8	9.8	14.3	16.2	21.2	21.3	18.2	8.0	2.9	-
Almora	Max	15.9	20.7	25.3	27.5	32.7	35.1	28.6	28.6	29.2	27.3	23.2	20.3
	Min	0.8	1.1	4.7	9.4	12.4	19.2	21.2	20.5	19.1	9.6	2.7	0.2
Ludhiana	Max	-	-	-	-	-	40.6	35.7	33.2	32.8	31.6	-	-
	Min	-	-	-	-	-	27.2	27.9	26.6	23.9	16.2	-	-
Pantnagar	Max	-	-	-	-	-	40.4	33.0	31.9	31.9	30.9	27.2	-
	Min	-	-	-	-	-	25.6	26.4	25.5	23.8	15.7	23.1	-
Bhubneshwar	Max	-	-	-	38.2	39.3	37.6	32.3	32.1	32.6	32.1	-	-
	Min	-	-	-	25.1	27.2	26.8	25.3	25.6	25.2	22.7	-	-
Mandya	Max	-	-	-	-	-	31.1	30.7	30.3	31.5	32.2	32.6	-
	Min	-	-	-	-	-	20.1	19.5	20.4	20.8	21.1	21.0	-
Coimbatore	Max	-	-	-	-	-	31.6	30.1	30.1	31.6	30.9	29.2	-
	Min	-	-	-	-	-	22.9	22.2	22.2	21.8	21.4	20.2	-
Godhara	Max	-	-	-	-	-	37.3	32.2	29.9	29.9	30.9	34.3	-
	Min	-	-	-	-	-	24.7	25.1	24.0	24.0	23.3	19.5	-
Uttarakhand	Max	19.5	24.8	29.7	35.2	40.1	40.1	32.6	32.1	31.9	30.9	26.5	20.9
	Min	6.6	8.0	13.7	18.5	22.2	25.9	26.1	25.5	23.8	15.7	9.4	7.2
Vagarai	Max	30.4	32.7	35.4	36.5	35.3	34.3	34.0	33.6	34.6	32.4	31.6	31.2
	Min	16.9	17.9	21.7	23.5	24.4	24.0	24.0	23.7	23.6	22.4	20.0	19.5
Kanke	Max	21.2	24.8	29.9	35.4	37.6	35.7	30.2	29.1	29.9	29.3	25.2	23.4
	Min	8.5	8.7	11.8	19.1	21.0	23.2	20.2	20.6	20.6	17.9	25.2	6.8
Almora	Max	-	-	-	-	-	35.1	28.7	28.2	29.2	-	-	-
	Min	-	-	-	-	-	19.2	21.2	20.5	19.1	-	-	-
Maharashtra	Max	30.7	34.2	36.8	37.1	36.6	30.9	27.1	27.4	28.2	29.7	30.6	60.6
	Min	14.0	15.6	18.0	20.7	21.6	21.0	21.1	20.8	19.9	19.8	18.0	18.0
Coimbatore	Max	30.0	31.6	33.5	33.4	33.9	30.6	31.0	31.3	30.3	31.6	28.7	29.3
	Min	19.0	18.5	22.0	22.9	23.0	23.0	23.2	22.9	22.2	22.6	20.8	19.1
Udaipur	Max	-	-	-	36.5	38.3	36.6	33.6	29.1	30.2	33.6	-	-
	Min	-	-	-	20.5	24.0	24.6	23.7	21.9	21.5	18.1	-	-
Assam	Max	21.9	25.1	29.0	28.4	31.6	31.0	30.1	32.0	31.4	30.8	27.8	24.5
	Min	14.0	13.6	19.5	22.2	24.7	25.3	25.4	25.9	25.9	23.7	19.0	14.1
Delhi	Max	18.7	22.5	29.9	35.2	40.7	42.6	36.5	32.5	33.4	32.6	27.3	21.7
	Min	5.5	7.9	12.7	20.1	23.8	29.0	27.6	25.7	24.0	16.1	9.9	7.5

Total Rainfall (mm)												
Centre Name	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Bajaura	97.9	67.8	71.0	84.4	14.8	22.2	133.3	172.0	114.2	5.2	8.8	-
Almora	19.2	2.0	21.5	30.5	6.0	16.0	307.5	264.2	149.0	2.5	6.2	25.0
Ludhiana	-	-	-	-	-	3.5	76.9	160.4	141.7	0.0	-	-
Pantnagar	-	-	-	-	-	21.2	66.0	90.6	56.3	0.0	0.0	-
Bhubneshwar	-	-	-	85.9	5.6	116.6	390.9	257.4	111.5	48.1	-	-
Mandya	-	-	-	-	-	7.8	11.0	35.2	118.2	68.4	79.8	-
Coimbatore	-	-	-	-	-	11.1	27.5	28.3	6.1	165.2	22.4	-
Godhara	-	-	-	-	-	14.8	59.6	138.8	106.3	0.0	-	-
Uttarakhand	92.4	90.0	88.2	68.6	61.2	63.0	86.6	89.2	89.2	87.8	91.7	94.2
Vagarai	0.5	1.0	1.0	23.0	46.0	0.1	0.1	49.0	11.5	156.0	9.5	36.0
Kanke	3.8	6.9	5.8	5.2	11.5	37.5	81.3	72.0	59.6	18.9	3.9	2.0
Almora	-	-	-	-	-	44.8	75.2	74.2	61.0	-	-	-
Maharashtra	0.0	0.0	0.0	26.2	11.8	110.7	333.4	146.2	102.1	90.6	22.9	0.0
Coimbatore	1.0	0.0	1.2	78.4	25.6	11.1	27.5	28.3	6.1	165.2	22.4	4.7
Udaipur	-	-	-	0.2	0.6	1.0	4.7	5.7	10.0	0.0	-	-
Assam	2.2	11.6	6.4	239.6	244.0	1521.6	933.6	296.9	741.9	248.5	0.0	0.0
Delhi	>1	-	-	-	-	.4	4.5	8.8	1.9	3.5	-	2.7

### **Brief of Monitoring reports of AICRIP on maize (Kharif 2012)**

All trials of different disciplines finalized during last workshop held at Hisar have been conducted at respective centre of all the zones except few trials particularly related to Plant Breeding and Agronomy disciplines mainly because of

- Non-fitness of late and medium maturity genotypes in cropping sequence at Almora
- Delayed onset of monsoon at Udhampur
- Continuous rains at Kanpur
- Non-availability of pre-sowing irrigation at Bahraich
- Non-availability of land at Bhubaneswar and Godhra
- Land and staff constraints at Jhabua

In general crop management was good at all the centers except one trial at Umiam, Udhampur and Kanpur and rejected trials are as follows:

- 8 trials at Umiam due to wrong randomization and poor drainage
- 10 trials at Kanpur due to poor germination, low plant stand, and poor crop management conditions
- 5 trials at Bahraich due to lower plant stand, poor management, and inadequate isolation
- 1 entomology trial at Hyderabad due to washing out of infested eggs under heavy rainfall
- Baby corn trial at Banswara and Chhindwara due to harvesting of crop for grain.

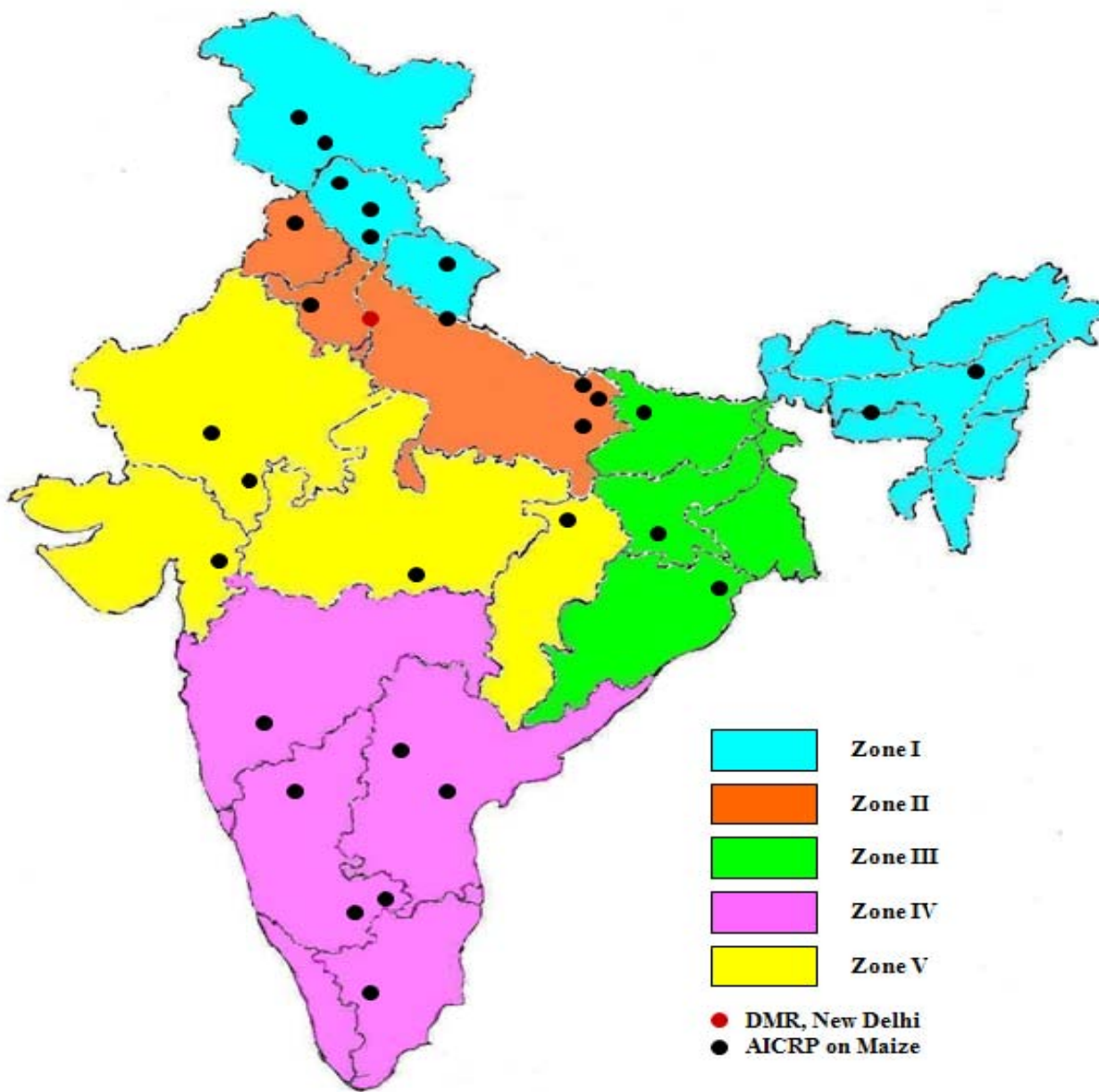
At all the centers programme of nucleus and breeder seed production and seed production of stage 3 materials is also going on. The mild to severe incidence of region specific insects and diseases was also reported. The number of FLD's varies from 35 to 269 and most of the FLDs were based on varietal demonstration. However, there was suggestion that in FLD programme, production and protection technologies should also be demonstrated.

Some general observation and suggestions made by the monitoring team are as follows.

1. In Agronomy, a few trials have been modified by including additional treatments and changing the treatments at some centers. This system should not be followed, if any scientist has any suggestion, it should be discussed and finalized during formation of trials at workshop meetings.
2. The concluded trials need not to repeated, because it leads to wastage of resources.
3. In a particular type of soil, if deficiency of any nutrients is visualized, it should be rectified by applying the respective nutrient.
4. In some centers, smaller plot size and lesser number of replications were noticed due to land constraint or other reasons. But it should be discussed well

in time with the concerned PI and authorities of universities/centers so that in future minimum required plot size and replications should be followed.

5. In nutrient management trials there is a need of proper demarcation and bunding of each plot and for recording the observations border row should be left to avoid the border effect.
6. It was also felt necessary to record insect and disease reaction properly in breeding and agronomy trials.
7. At Dholi center in entomology trials screening of plants was done against the natural population of stem borer. It should be taken care in future for conducting such experiments.
8. At some centers, plots tagging did not follow the DMR code number. All the centers should follow the uniform pattern.
9. At Jhabua and Dhaulakuan, there is need to appoint/depute breeder while at Kanpur appointed Maize breeder is working in other project.
10. At Bhubaneswar, the new scientists have joined the AICRIP on maize, thus there is need to conduct a refresher course /subject matter training to acquaint them about the maize research.



**All India Coordinated Research Project on Maize**  
**Directorate of Maize Research**  
Pusa Campus, New Delhi-110 012, India  
[www.dmr.res.in](http://www.dmr.res.in)